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# TABLAS DE MENDOZA.

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# COLECCION COMPLETA

DE

# TABLAS

## PARA LOS USOS DE LA NAVEGACION Y ASTRONOMÍA NÁUTICA.

POR EL CAPITAN DE NAVÍO QUE FUÉ DE LA ARMADA,

**DON JOSÉ DE MENDOZA Y RIOS,**

de la Real Sociedad de Lóndres.

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EDICION ESTEREOTÍPICA, CORREGIDA Y AUMENTADA,

DISPUESTA POR EL GEFE DE ESCUADRA

**DON JUAN JOSÉ MARTINEZ DE ESPINOSA Y TACON,**

DE LA SOCIEDAD FILOSÓFICA AMERICANA, COMANDANTE GENERAL DE ARTILLERÍA Y DE INFANTERÍA DE MARINA, ETC

***Presentada á S. M. por el Excmo. Sr. Marqués de Molins,***

MINISTRO DE MARINA.

PRIMERA TIRADA.

**MADRID:**

IMPRENTA DE J. MARTIN ALEGRÍA, CALLEJON DE SAN MÁRCOS, NUM. 6.

**1850.**

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# PRÓLOGO DEL EDITOR.

En el año de 1800 se publicó en Madrid por cuenta del Gobierno, una coleccion de tablas para los usos de la navegacion, dispuestas por el capitan de navío Don José de Mendoza y Rios, quien ya entonces se habia hecho célebre por sus ingeniosas y útiles investigaciones, dirigidas á facilitar y mejorar la resolucion de varios problemas de la astronomía náutica, y principalmente del que tiene por objeto despejar las distancias lunares de los efectos de la paralaje y refraccion.

De allí á pocos años, en 1805, publicó el mismo Mendoza en Lóndres la edicion primera de sus tablas inglesas, la cual conteniendo ya mejoras respecto de la española, se estendió por Europa con rapidez y con ella la reputacion del autor: por último, en 1809 apareció una segunda edicion, inglesa como la de 1805, con algunas simplificaciones útiles y adiciones.

La idea principal que condujo á Mendoza á sus bellos resultados, fué la de introducir en las fórmulas y despues en los cálculos numéricos el seno y coseno verso, líneas trigonométricas que antes de él se definian por todos, mas no se usaban por nadie; y ademas sus relativas subverso y subcoverso, que con las otras dos le sirvieron para resolver el problema de las distancias, al paso que utilizaba los logaritmos de las mismas líneas, para facilitar la determinacion del horario, azimut y altura de los astros, como asimismo

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de la latitud por medio de dos alturas, conocido el intervalo; á cuya simplificacion contribuyó tambien el pensamiento de introducir los logaritmos secantes y cosecantes, que evitan la necesidad de tomar complementos aritméticos.

Á las tablas necesarias para el uso de sus métodos, unió Mendoza cuantas pueden serlo para la solucion ordinaria de los demas problemas que de continuo se ofrecen al navegante; de todo ello resultó un conjunto sumamente apreciable, que desde luego se reputó como el *Manual de los marinos*, por personas competentes para su calificacion.

La edicion española aun cuando se le quisiese dar una preferencia que no seria justa, se halla enteramente agotada, y de cualquiera de las dos inglesas no se encuentra un ejemplar ni en España, ni en parte alguna, sino á un precio exorbitante. Á esta causa parece natural atribuir la multitud de métodos que posteriormente han aparecido para efectuar la reduccion de las distancias lunares aparentes á verdaderas, casi todos ellos menos exactos y todos mas complicados que el de Mendoza *.

Nadie hay que dispute á este la segunda de las dos ventajas que acabamos de indicar. En cuanto á la de exactitud el único defecto que puede achacársele, cuando se prescinde del aplanamiento de la tierra, es que supone las refracciones medias de Bradley, despreciando las correcciones dependientes de la actual presion y temperatura de la atmósfera. Pero es fácil ver que debiendo en general evitarse aquellas observaciones en las cuales uno de los dos astros ó ambos, tengan una altura muy pequeña, ó bien usarse con prudente desconfianza las que se hallen en este caso, si las circunstancias no hubiesen permitido hacer otras mejores, ninguna utilidad presta el empeño de obtener una grande exactitud en el cálculo. La razon es que si las alturas son de alguna consideracion, el error que produzca el uso de las refracciones medias será despreciable en la práctica; y si alguna

* La unica escepcion que se conoce es el método que da la correccion de la distancia por medio del uso de cuatro estampas sumamente baratas, ideado y publicado en 1806 por el Sr. D. José Luyando, quien de un modo ingenioso lo dedujo de las tablas inglesas de Mendoza, dadas á luz en el año anterior. No es fácil hallar la causa por qué haya caido en desuso el método de Luyando, del cual puede decirse con verdad, que posee el mismo grado de exactitud que el de Mendoza.

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de las alturas, ó las dos fuesen muy pequeñas, el resultado será incierto, aun despues de corregida la refraccion, porque lo es en el estado actual de la astronomía la determinacion de este elemento, en las inmediaciones al horizonte, por las mejores tablas.

Los marinos ingleses satirizan, y con mucha razon, por medio de la frase *to split straws* el empeño de obtener una exactitud inútil en los resultados de la astronomía náutica, y los españoles con igual oportunidad llaman *Comineros* á los navegantes en quienes se advierte la misma propension. Hay que añadir respecto á este objeto en particular, la consideracion de que la incertidumbre que aun existe en las distancias lunares anunciadas en las efemérides, la que puede haber en la determinacion de la hora de la nave, en la rectificacion ó sea error de índice del instrumento, en las divisiones de la graduacion de este, en la posicion de sus espejos, vidrios oscuros y anteojo y aun en la actual medicion de la distancia por el mas diestro y ejercitado observador, presentan harto mayor motivo de error en la longitud que el desprecio de las oscilaciones de la refraccion y del aplanamiento de la tierra. De modo que aun en las mejores circunstancias y empleando una escrupulosa exactitud en el cálculo, es cuando menos muy difícil asegurar una longitud por distancias lunares, sino dentro de un minuto de tiempo, ó lo que es igual de quince minutos de ecuador.

Lejos, pues, de presentar al piloto en los métodos de cálculo una exactitud minuciosa, que aun obtenida con trabajo y á costa de tiempo es inútil, lo que se le debe proporcionar es facilidad para que con frecuencia deduzca resultados de una aproximacion razonable. El primero de estos dos procedimientos propende á infundirle aversion, ó cuando menos indiferencia á las observaciones, es decir, al único medio seguro que existe hasta ahora de averiguar la verdadera posicion de la nave, cuando desde ella no se ve durante muchos dias sino cielo y agua.

Al hacer las reflexiones anteriores no puede dejar de parecer estraño que desde 1809, no se haya emprendido una nueva publicacion de las tablas de que se trata, hasta 1842, en que el Sr. Richard, oficial retirado de la marina real de Francia, la llevó á cabo con adiciones que acreditan su laboriosidad é inteligencia, con las esplicaciones en los dos idiomas francés é inglés,

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en un volúmen mucho mas reducido que el del original y de un costo sumamente moderado. Á pesar de todo no puede dejar de advertirse que esta nueva publicacion tiene varios inconvenientes, que seria de desear hubiese evitado su celoso redactor. Uno es el de haber alterado la numeracion de las tablas inglesas, lo cual hace bastante embarazoso el cotejo de estas con las correspondientes de la traduccion. Otro el de haber introducido cálculos de los que creo dejar probado ser inútiles y aun perjudiciales para el uso comun y corriente de la generalidad de los pilotos. El último y mas considerable á mi modo de ver, es la suma pequeñez de la numeracion, que hace las tablas para esta clase de trabajos, de difícil uso, en medio de tantas circunstancias de incomodidad como frecuentemente rodean al navegante.

Despues me ocurrió el pensamiento de que seria posible hacer una nueva y buena edicion española, de precio moderado, en que se salvasen los inconvenientes que creo hallar en la francesa. Ademas me pareció y parece oportuno distinguir en la coleccion original las tablas que á lo menos por mucho tiempo, serán de uso constante y frecuente, de aquellas que, ó no son de utilidad para el piloto, ó suponen métodos que ya han envejecido ó envejecerán probablemente, ó que estan ya sustituidos por otros mejores, ó, por último, que son esencialmente variables, como el catálogo de estrellas, y la tabla de longitudes y latitudes.

En la primera clase se hallan comprendidas las que forman la mayor parte del volúmen; tales son las que sirven para corregir alturas y distancias lunares, las de logaritmos proporcionales, las de números naturales, las de líneas trigonométricas, tanto de las antiguas como de las modernas de invencion de Mendoza, y por último las que sustituyen con ventaja al cuadrante de reduccion para trabajar la estima; sin contar con otras de menor estension, pues bastan las ya citadas para probar mi aserto.

Estas reflexiones me sugirieron el proyecto de una edicion estereotípica española, en la cual no hubiese que hacer mas que sustituir algunas pocas tablas del original con otras adaptadas á métodos posteriores á Mendoza, y suprimir del todo algunas; pero conservando siempre en las reimpresas y en las sustituidas la numeracion de las del original. Y deseando por una parte evitar cuanto pudiera tener visos siquiera de interés mio personal en esta

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publicacion, y pareciéndome por otra decoroso para nuestro Gobierno el encargarse de ella, honrando por este medio la memoria de un célebre español, me decidí á proponer que así se hiciera, despachándose despues la edicion á costo y costas.

La resolucion del Gobierno fué tal como debia esperarse del señor Marqués de Molins, Ministro de Marina, que no solamente aconsejó á S. M. la aprobacion de mi propuesta, sino que poniendo desde luego á mi disposicion cuantos medios y auxilios eran necesarios para realizarla, dispuso tambien que la esplicacion del uso de las tablas y sus problemas y ejemplos, se hiciese no solo en nuestro idioma, sino tambien en francés y en inglés, porque S. M. deseaba que los beneficios que esta publicacion debe proporcionar á los navegantes fuesen estensivos á los de todas las naciones.

Los adelantos que desde principios del siglo ha tenido la astronomía náutica, y la necesidad de facilitar las operaciones de los cálculos mas usuales en la mar, han hecho indispensable la supresion de varias tablas y la sustitucion de otras. La primera que se ha modificado es la XI, que da la correcion á la paralaje horizontal de la luna, por razon del aplanamiento de la tierra. En la sustituida se ha dado mas ensanche al argumento *Paralaje horizontal*, y el aplanamiento adoptado es $\frac{1}{300}$.

Las tablas XII y XIII en que el autor se propuso comprender la correccion á las distancias lunares, dependiente de la figura de la tierra, se han suprimido, porque no habiendo llegado á publicar el método de usarlas han quedado inútiles; ademas de que el rigor de cálculo que tales correcciones suponen, no se aviene al parecer, con el uso de las refracciones medias adoptadas para la reduccion de las distancias.

La XXII, que contiene un catálogo de 60 estrellas, se ha suprimido tambien, atendiendo á que el Almanaque náutico lo da para cada año en igual ó mayor número, ademas de las posiciones aparentes de las 36 estrellas de Maskelyne y $\alpha$ y $\delta$ *Ursæ minoris*.

La XXIII es otra de las modificadas; da la nueva la aceleracion de las fijas en tiempo sidéreo y en tiempo medio, á fin de facilitar la conversion de cada uno de estos tiempos en el otro.

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**La XXVII, *Ecuacion de alturas correspondientes*, es distinta de la del autor, de mas fácil uso y la que está hoy generalmente adoptada.**

**La XXVIII se ha suprimido, ó por mejor decir, su contenido va envuelto en la tabla XXIII en la forma que ha parecido mas acomodada á su nuevo objeto.**

**Las XXIX y XXX se han suprimido tambien, porque refiriéndose á las dimensiones y figura de la tierra, no parece que son de aplicacion inmediata para los usos de la navegacion.**

**Á la tabla XXXII del autor se ha sustituido otra dividida en dos partes, la primera de las cuales facilita el cálculo de la hora del paso de la luna por el meridiano; y la segunda da la correccion al establecimiento del puerto, dependiente de la hora de dicho paso y del semidiámetro de la luna.**

**La tabla XXXIII, *Posiciones geográficas*, y la XXXIV, *Trabajo de estima por cuartas partes de cuarta*, se han suprimido: la primera porque seria preciso rehacerla dándole una estension considerable, y aun así sujeta siempre á continuas rectificaciones no parece debe formar parte de una obra que es estereotipa: la segunda por considerarse comprendida en la siguiente XXXV, que da los mismos resultados de grado en grado.**

**En la tabla XXXV se han suprimido los argumentos mayores que $12^h$, en consideracion á que los marinos no cuentan los horarios en tiempo astronómico.**

**Las tablas XXXVI, *Partes meridionales*, XXXVII, *Latitudes disminuidas*, y XXXVIII, *Partes proporcionales para intervalos de* $12^h$ *y* $24^h$, se han suprimido tambien por innecesarias.**

**Á la tabla XXXIX, *Segundas diferencias para intervalos de* $12^h$, se ha sustituido otra que tiene por objeto hallar la correccion, dependiente tambien de segundas diferencias, que debe aplicarse á la hora del primer meridiano, obtenida por medio de distancias lunares, sirviendo de argumentos dicha hora y la diferencia de logaritmos proporcionales.**

**Ademas se han agregado tres tablas nuevas: la primera, que tiene el número XL, está dispuesta por el capitan de navío Don Antonio Martinez de Espinosa, consta de dos partes y facilita mucho la determinacion de la longitud por distancias lunares. La XLI, *Paralaje en altura de los plane-***

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*tas*, y la XLII, *Complemento de la tabla IX*, que hace estensivo su uso al caso de que la distancia observada sea á uno de aquellos.

Las esquisitas precauciones adoptadas para la correccion de las pruebas proporcionan cuanta seguridad se puede tener de que la obra sale correcta. Á ellas se debe el descubrimiento de los numerosos errores de imprenta que tiene la edicion orijinal de 1809, y ha parecido conveniente acompañar la correspondiente fé de erratas, para que los que las usan puedan corregirlas.

Difícilmeute habria podido dar cima á tan prolija empresa sin el anxilio que con el mayor celo, inteligencia y buena voluntad, me han prestado el brigadier de la armada Don José Sanchez Cerquero, antiguo director del Observatorio astronómico, y el capitan de navío Don Saturnino Montojo, que lo es actualmente. El primero, ademas de encargarse de redactar la esplicacion del uso de las tablas, lo ha hecho tambien de los principios en que el autor fundó sus ingeniosas teorías.

Cádiz 1.° de marzo de 1850.

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# ERRATAS

***que tiene la segunda edicion de las Tablas de Mendoza hecha en Lóndres en 1809, que se han corregido en la presente.***

Advertencia. Desde la Tabla VII hasta la X es necesario contar las columnas, así como en todas las demas que no van indicadas por sus encabezamientos, de izquierda á derecha, y las líneas principiando por la 0 de la primera columna sin contar los minutos ó grados que estan sobre las primeras cifras. En la Tabla X las lineas deben contarse por los números de la segunda columna, que principian por 0 y concluyen en el 59, igualmente que en todas las que se hallan en el mismo caso.

| Páginas. | Columnas. | Lineas. | Dice. | Léase. |
|---|---|---|---|---|
| 5 | 2.ª | 18 | 38. 14 | 38. 13 |
| Id. | 3.ª | 41 | 40. 35 | 46. 35 |
| Id. | Id. | 46 | 47. 13 | 47. 43 |
| 8 | 2.ª | 55 | 55 | 35 |
| 9 | 14 | 37 | 2. 1 | 2. 0 |
| 12 | 14 | 55 | 54 | 34 |
| 21 | 5 | 27 | 32 | 42 |
| 28 | 2.ª | 26 | 38. 45 | 38. 35 |
| 35 | 17 | 18 | 33 | 53 |
| 52 | 13′ | 15 | 2155 | 2156 |
| Id. | 1′ | 29 | 7187 | 7188 |
| Id. | 2′ | 42 | 8377 | 8378 |
| 54 | 12′ | Id. | 6724 | 6704 |
| 55 | 17′ | Id. | | 3 |
| Id. | 21′ | 56 | 1951 | 1981 |
| 57 | Núm. | 59 | 5 55 | 5565 |
| 58 | 2′ | 42 | 8430 | 9430 |
| Id. | 15′ | 22 | 4251 | 4451 |
| 59 | 29′ | 13 | 5746 | 0746 |
| Id. | 35′ | 12 | 1134 | 1174 |
| 65 | 16′ | 3 | 7146 | 7746 |
| 61 | Núm. | 59 | 3996 | 3999 |
| 52 | 2′ | 19 | 6941 | 5491 |
| 66 | 5′ | 21 | 7805 | 7905 |
| Id. | 6′ | Id. | 8396 | 8386 |
| Id. | 9′ | 59 | 3171 | 3170 |
| 71 | 24′ | 52 | 0609 | 0909 |
| Id. | 26′ | 45 | 1080 | 1180 |
| Id. | 27′ | 32 | 6402 | 0402 |
| 72 | 2′ | 22 | 2460 | 3460 |
| 73 | 33′ | 50 | 4375 | 1575 |
| 75 | 1.ª | 10 | 98 | 78 |
| Id. | 26′ | 48 | 5703 | 3703 |
| Id. | 30′ | 29 | 5576 | 3576 |
| 78 | 2′ | 6 | 1104 | 1105 |
| 82 | 1′ | 54 | 0895 | 8896 |
| 83 | 30′ | 57 | 8449 | 4449 |
| 87 | 25′ | 14 | 2273 | 2073 |
| 89 | 26′ | 3 | 9048 | 9049 |
| 90 | 3′ | 13 | 8339 | 8539 |
| Id. | 15′ | 44 | 8225 | 8228 |
| 91 | 24′ | 51 | 5177 | 3177 |
| Id. | 30′ | Id. | 9811 | 5811 |
| 92 | 3′ | 57 | 3580 | 3680 |
| Id. | 10′ | 37 | 5746 | 3746 |
| 95 | 18′ | 15 | 5302 | 3302 |

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| Páginas. | Columnas. | Lineas. | Dice. | Léase. |
|---|---|---|---|---|
| 95 | 19′ | 24 | 4533 | 4533 |
| Id. | 32′ | 50 | 4048 | 4148 |
| Id. | 33′ | 43 | 4524 | 3524 |
| 96 | 5′ | 45 | 1080 | 1081 |
| 97 | 20′ | 18 | 5270 | 3270 |
| Id. | 24′ | 8 | 6448 | 3448 |
| Id. | 25′ | 5 | 2418 | 3418 |
| 98 | 0′ | 23 | 4993 | 4992 |
| Id. | 8′ | 57 | 5820 | 3820 |
| 181 | 22′ | 49 | 8034 | 8134 |
| Id. | 29′ | 3 | 5586 | 3586 |
| 102 | 15′ | 3 | 4543 | 7543 |
| 105 | 22′ | 52 | 5850 | 8850 |
| Id. | 33′ | 5 | 5213 | 5313 |
| 107 | 18′ | 2 | 8975 | 8965 |
| Id. | 19′ | 40 | 6010 | 8011 |
| 109 | 1.ª | 54 | 456 | 356 |
| Id. | 31′ | 42 | 1790 | 1791 |
| 118 | 2′ | 52 | 5235 | 3235 |
| Id. | 5′ | 5 | 5723 | 5727 |
| 112 | 8′ | 42 | 4923 | 4924 |
| 113 | 20′ | 1 | 2873 | 1873 |
| 114 | 5′ | 53 | 4370 | 7370 |
| 115 | 20′ | 33 | 9178 | 9177 |
| 116 | 1.ª | 47 | 391 | 291 |
| 117 | Id. | 33 | 105 | 205 |
| Id. | Id. | 34 | 112 | 212 |
| 118 | 15′ | 12 | 0547 | 6547 |
| 119 | 26′ | 54 | 8998 | 8908 |
| 120 | 1′ | 11 | 4248 | 3248 |
| Id. | Núm. | 40 | 3167 | 3168 |
| 121 | 17′ | 11 | 9037 | 9038 |
| Id. | 25′ | 24 | 4545 | 4546 |
| Id. | Id. | 25 | 4746 | 4747 |
| 124 | 5′ | 23 | 1808 | 1908 |
| 126 | 8′ | 26 | 6271 | 6281 |
| 127 | 19′ | 18 | 8352 | 8342 |
| 129 | 18′ | 18 | 8481 | 0381 |
| Id. | 29′ | 46 | 0517 | 0527 |
| Id. | 31′ | 41 | 0128 | 0118 |
| 130 | 7′ | 33 | 2585 | 3505 |
| 136 | 6′ | 49 | 7460 | 7461 |
| 137 | 19′ | 39 | 9134 | 9135 |
| 142 | 16′ | 57 | 4603 | 4684 |
| 143 | 24′ | 1 | 2609 | 3609 |

| Páginas. | Columnas. | Lineas. | Dice. | Léase. |
|---|---|---|---|---|
| 144 | 4′ | 39 | 1556 | 1358 |
| Id. | 8′ | 22 | 7358 | 8358 |
| 146 | 5′ | 29 | 2810 | 3818 |
| Id. | 11′ | 10 | 0810 | 0811 |
| Id. | 16′ | 11 | 2442 | 2422 |
| 150 | 11′ | 6 | 6307 | 9307 |
| 155 | 19′ | 23 | 8645 | 5645 |
| 181 | 17′ | 58 | 5 (8) | 7 (8) |
| Id. | 24′ | 48 | 9379 | 9380 |
| 162 | 7′ | 21 | 4378 | 4398 |
| 163 | 2.ª | 1.ª | 54° | 65° |
| 167 | 25′ | 42 | 5533 | 5333 |
| Id. | 29′ | 38 | 3921 | 2921 |
| Id. | Núm. | 1 | 6537 | 9537 |
| 172 | 15′ | 12 | 4825 | 3825 |
| 174 | 13′ | 38 | 0421 | 6421 |
| 175 | Núm. | 0′ | 4423 | 4433 |
| 177 | 28′ | 35 | 4011 | 4811 |
| 178 | 14′ | 38 | 8297 | 0207 |
| Id. | 16′ | 13 | 2577 | 3577 |
| Id. | Id. | 58 | 5498 | 5478 |
| 181 | 25′ | 47 | 0844 | 8843 |
| 182 | 5′ | 27 | 9409 | 9408 |
| Id. | 8′ | 55 | 7648 | 7649 |
| 185 | 31′ | 35 | 1604 | 1602 |
| 186 | 5′ | 8 | 7877 | 7878 |
| 187 | Núm. | 31 | 2844 | 3844 |
| 188 | 11′ | 3 | 4090 | 4891 |
| 192 | 0′ | 29 | 4865 | 4665 |
| Id. | 4′ | 24 | 2567 | 3567 |
| 196 | 12′ | 46 | 4882 | 4852 |
| 200 | Núm. | 17 | 9671 | 6671 |
| 203 | 20′ | 25 | 0897 | 0898 |
| Id. | 30′ | 50 | 8442 | 8443 |
| 209 | 18′ | 41 | 6230 | 7230 |
| Id. | 22′ | 40 | 7989 | 6989 |
| 212 | 7′ | 34 | 9851 | 9858 |
| 226 | 6′ | 21 | 7579 | 7479 |
| Id. | 6′ | 43 | 2665 | 3665 |
| 232 | 4′ | 4 | 4553 | 4353 |
| 244 | Id. | 40 | 6081 | 6880 |
| 247 | 17′ | 33 | 8798 | 8799 |
| Id. | Núm. | 48 | 5696 | 5695 |
| 252 | 7′ | 39 | 1237 | 1236 |
| Id. | 11′ | 18 | 4837 | 4836 |

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| Páginas. | Columnas. | Líneas. | Dice. | Léase. |
|---|---|---|---|---|
| 253 | 17′ | 35 | 8476 | 8376 |
| 254 | 0′ | 15 | 2256 | 2255 |
| 257 | 21′ | 58 | 3333 | 5333 |
| 261 | 18′ | 5 | 4151 | 4152 |
| Id. | 27′ | 55 | 5542 | 5342 |
| 262 | 1.ª | 3 | 107 | 207 |
| 265 | 20′ | 39 | 3815 | 3785 |
| Id. | 23′ | 33 | 1562 | 1563 |
| 267 | 17′ | 40 | 0010 | 0110 |
| 268 | 9′ | 48 | 9424 | 9324 |
| Id. | Id. | 49 | 9678 | 9578 |
| Id. | 13′ | 4 | 7476 | 7176 |
| Id. | 14′ | 1 | 6175 | 6174 |
| 269 | 19′ | 5 | 6604 | 6004 |
| 270 | 0′ | 4 | 5382 | 5582 |
| 273 | Núm. | 3 | 0678 | 0756 |
| 274 | 1.ª | 32 | 223 | 123 |
| 277 | 25′ | 13 | 5124 | 6124 |
| 278 | 12′ | 23 | 6905 | 5986 |
| 282 | 8′ | 45 | 1599 | 1598 |
| 253 | Núm. | 7 | 5343 | 5243 |
| 284 | 9′ | 49 | 6245 | 6235 |
| 289 | 25′ | 4 | 8484 | 8183 |
| 291 | 26′ | 50 | 1832 | 1822 |
| 294 | 7′ | 30 | 9948 | 9947 |
| Id. | 9′ | Id. | 9289 | 9279 |
| 304 | 15′ | 36 | 0700 | 0710 |
| 305 | Núm. | 19 | 3167 | 3188 |
| 308 | 1′ | 7 | 3755 | 3755 |
| 309 | 18′ | 29 | 1384 | 1584 |
| Id. | 19′ | 27 | 0824 | 8823 |
| Id. | 29′ | 9 | 3507 | 3607 |
| 316 | 0′ | 20 | 8141 | 8131 |
| 313 | 24′ | 3 | 7929 | 6929 |
| 314 | 0′ | Id. | 7302 | 7303 |
| 315 | 30′ | 12 | 7034 | 7134 |
| 317 | 29′ | 21 | 9760 | 9759 |
| 323 | 21′ | 11 | 1986 | 1666 |
| 324 | 0′ | 42 | 5488 | 5388 |
| 325 | 31′ | 36 | 6406 | 6405 |
| 326 | 11′ | 21 | 7885 | 8885 |
| 327 | 30′ | 2 | 5949 | 5642 |
| 330 | 10′ | 56 | 0643 | 0642 |
| 331 | 25′ | 10 | 6086 | 8085 |
| 335 | 25′ | 57 | 0952 | 0951 |

| Páginas. | Columnas. | Líneas. | Dice. | Léase. |
|---|---|---|---|---|
| 335 | 31′ | 37 | 5585 | 5564 |
| 336 | 12′ | 5 | 3242 | 3241 |
| 338 | Id. | 2 | 5427 | 5426 |
| 342 | 11′ | 8′ | 3503 | 0823 |
| 345 | 20′ | 27 | 6996 | 6995 |
| Id. | 32′ | 50 | 3037 | 4037 |
| 349 | Núm. | 25 | 9884 | 2333 |
| 350 | 0′ | 41 | 7316 | 7315 |
| 357 | *m*′ 53 | 42 | 53535 | 52530 |
| 361 | *m*′ 57 | 0 | 18710 | 18752 |
| 362 | *m*′ 0 | 25 | 17450 | 17459 |
| 383 | *m*′ 33 | 32 | 6707 | 6907 |
| Id. | *m*′ 38 | 43 | 3455 | 5435 |
| 372 | 1 | 1.ª | 3. 62325 | 3. 62335 |
| 382 | 18 | 28 | 07386 | 37365 |
| 383 | 21 | 46 | 23 | 13 |
| 384 | 5 | 10 | 0188 | 1188 |
| Id. | 6 | Id. | 0342 | 1342 |
| 385 | 18 | 1 | 45° | 45″ |
| 391 | 11 | 15 | 22 | 02 |
| 393 | 18 | 35 | 0. 73 929 | 9. 73 922 |
| 394 | 3 | 58 | 283 | 333 |
| 398 | 1.ª | 48 | 58 | 48 |
| Id. | 3 | 52 | 820 | 633 |
| Id. | 14 | 12 | 544 | 344 |
| 399 | 20 | 1.ª | 30 | 35″ |
| 402 | 8 | 50 | 354 | 454 |
| 404 | 18 | 27 | 211 | 221 |
| 465 | 4 | 17 | 349 | 562 |
| 412 | 18 | 14 | 843 | 343 |
| 419 | 3 | 17 | 312 | 212 |
| 425 | 5 | 54 | 462 | 732 |
| 428 | 3 | 55 | 9. 30 789 | 9. 66 793 |
| 430 | 15 | 22 | 655 | 055 |
| 432 | 1.ª | 48 | 88 | 46 |
| 434 | 16 | 8 | 533 | 388 |
| 435 | 18 | 55 | 3. 88 114 | 9. 86 114 |
| 436 | 19 | 50 | 272 | 372 |
| Id. | 22 | 18 | 847 | 827 |
| 439 | 3 | 34 | 449 | 439 |
| 448 | 4 | 15 | 803 | 233 |
| 441 | 3 | 19 | 543 | 648 |
| 444 | 16 | 59 | 699 | 599 |
| 445 | 2 | 53 | 223 | 200 |
| 458 | 5 | 12 | 448 | 248 |

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| Páginas. | Columnas. | Líneas. | Dice. | Léase. |
|---|---|---|---|---|
| 458 | 0 | 32 | 534 | 334 |
| 458 | 17 | 14 | 069 | 068 |
| 451 | 10 | 37 | 696 | 796 |
| 457 | 17 | 57 | 746 | 745 |
| 468 | 12 | 24 | 176 | 116 |
| 463 | 23° | 1 | 6. 1 | 0. 2 |
| 465 | Id. | 29 | 26. 22 | 26. 32 |
| Id. | 23° 30′ | 44 | 33. 45 | 33. 46 |
| 542 | 17 Dif. lat. | 4 | 303. 5 | 303. 6 |
| Id. | Id. | 5 | 304. 5 | 304. 6 |
| Id. | Id. | 6 | 305. 5 | 305. 6 |
| Id. | Id. | 7 | 306. 5 | 306. 6 |
| Id. | Id. | 8 | 307. 5 | 307. 6 |
| Id. | Id. | 8 | 308 5 | 308. 6 |
| Id. | Id. | 16 | 309. 5 | 309. 5 |
| Id. | Id. | 11 | 310 5 | 316. 6 |
| Id. | Id. | 12 | 311. 5 | 311. 6 |
| Id. | Id. | 13 | 312. 5 | 312. 6 |
| Id. | Id. | 14 | 313. 5 | 313. 6 |
| Id. | Id. | 15 | 314. 5 | 314. 5 |
| Id. | Id. | 16 | 315. 5 | 315. 6 |
| Id. | Id. | 17 | 316. 5 | 316. 6 |
| Id. | Id. | 16 | 317. 5 | 317. 6 |
| Id. | Id. | 18 | 316. 5 | 318. 6 |
| Id. | Id. | 20 | 319. 5 | 319. 6 |
| Id. | Id. | 21 | 320. 5 | 320. 6 |
| Id. | Id. | 22 | 321. 5 | 321. 8 |
| Id. | Id. | 23 | 322. 5 | 322. 6 |
| Id. | Id. | 24 | 323. 5 | 323. 6 |
| Id. | Id. | 25 | 324. 5 | 324. 6 |
| Id. | Id. | 26 | 325. 5 | 325. 6 |
| Id. | Id. | 27 | 326. 5 | 326. 6 |
| Id. | Id. | 26 | 327. 5 | 327. 6 |
| Id. | 20 Dif. lat. | 18 | 377. 4 | 377. 5 |
| Id. | Id. | 18 | 378. 4 | 376. 5 |
| Id. | Id. | 26 | 378. 4 | 379. 5 |
| Id. | Id. | 21 | 380. 4 | 380. 5 |
| Id. | Id. | 22 | 381. 4 | 381. 5 |
| Id. | Id. | 23 | 382. 4 | 362. 5 |
| Id. | Id. | 24 | 383. 4 | 383. 5 |
| Id. | Id. | 25 | 384. 4 | 364. 5 |
| Id. | Id. | 25 | 385. 4 | 385. 5 |
| Id. | Id. | 27 | 386. 4 | 386. 5 |
| Id. | Id. | 28 | 387. 4 | 387. 5 |
| Id. | Id. | 28 | 388. 4 | 388. 5 |
| 542 | 20 Dif. lat. | 30 | 389. 4 | 389. 5 |
| Id. | Id. | 31 | 390. 4 | 390 5 |
| Id. | Id. | 32 | 391. 4 | 391. 5 |
| Id. | Id. | 33 | 392. 4 | 392. 5 |
| Id. | Id. | 34 | 393. 4 | 393. 5 |
| Id. | Id. | 35 | 394. 4 | 394. 5 |
| Id. | Id. | 36 | 395. 4 | 395. 5 |
| Id. | Id. | 37 | 396. 4 | 396. 5 |
| Id. | Id. | 38 | 397. 4 | 397. 5 |
| Id. | Id. | 39 | 398. 4 | 396 5 |
| Id. | Id. | 40 | 399. 4 | 399. 5 |
| Id. | Id. | 41 | 400. 4 | 400. 5 |
| Id. | 23 Dif. lat. | 30 | 449. 3 | 449. 4 |
| Id. | Id. | 31 | 450. 3 | 450. 4 |
| Id. | Id. | 32 | 451. 3 | 451. 4 |
| Id. | Id. | 33 | 452. 3 | 452. 4 |
| Id. | Id. | 34 | 453. 3 | 453 4 |
| Id. | Id. | 35 | 454. 3 | 454. 4 |
| Id. | Id. | 36 | 455. 3 | 455. 4 |
| Id. | Id. | 37 | 456. 3 | 456. 4 |
| Id. | Id. | 38 | 457. 3 | 457. 4 |
| Id. | Id. | 39 | 458. 3 | 458. 4 |
| Id. | Id. | 48 | 459. 3 | 458. 4 |
| Id. | Id. | 41 | 460. 3 | 468. 4 |
| Id. | Id. | 42 | 461. 3 | 461. 4 |
| Id. | Id. | 43 | 462. 3 | 452. 4 |
| Id. | Id. | 44 | 463. 3 | 463. 4 |
| Id. | Id. | 45 | 464. 3 | 454. 4 |
| Id. | Id. | 48 | 465. 3 | 465. 4 |
| Id. | Id. | 47 | 466. 3 | 456. 4 |
| Id. | Id. | 48 | 467. 3 | 467. 4 |
| Id. | Id. | 49 | 468. 3 | 468. 4 |
| Id. | Id. | 50 | 469. 3 | 469. 4 |
| Id. | Id. | 51 | 476 3 | 470. 4 |
| Id. | Id. | 52 | 471. 3 | 471. 4 |
| Id. | Id. | 53 | 472. 3 | 472. 4 |
| 543 | 17 Dif. lat. | 3 | 302. 2 | 362. 3 |
| Id. | Id. | 4 | 303. 2 | 303. 3 |
| Id. | Id. | 5 | 304. 2 | 304. 3 |
| Id. | Id. | 6 | 305. 2 | 305. 3 |
| Id. | Id. | 7 | 386. 2 | 306. 3 |
| Id. | 23 Dif. lat. | 6 | 424. 9 | 425. 0 |
| Id. | Id. | 7 | 425. 9 | 428. 8 |
| Id. | Id. | 8 | 426. 9 | 427. 8 |
| Id. | Id. | 9 | 427. 9 | 428. 8 |

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| Páginas. | Columnas. | Lineas. | Dice. | Léase. | Páginas. | Columnas. | Lineas. | Dice. | Léase. |
|---|---|---|---|---|---|---|---|---|---|
| 543 | 23 Dif. lat. | 10 | 428. 9 | 429. 0 | 543 | 17 Dif. lat. | 46 | 345. 1 | 345. 2 |
| Id. | Id. | 11 | 429. 9 | 430. 0 | Id. | Id. | 47 | 346. 1 | 346. 2 |
| Id. | 20 Dif. lat. | 25 | 384. 0 | 384. 1 | Id. | Id. | 48 | 347. 1 | 347. 2 |
| Id. | Id. | 26 | 385. 0 | 385. 1 | Id. | 23 Dif. lat. | 47 | 465. 8 | 465. 9 |
| Id. | Id. | 27 | 386. 0 | 386. 1 | Id. | Id. | 48 | 466. 8 | 466. 9 |
| Id. | Id. | 28 | 387. 0 | 387. 1 | Id. | Id. | 49 | 467. 8 | 467. 9 |
| Id. | Id. | 29 | 388. 0 | 388. 1 | Id. | Id, | 50 | 468. 8 | 468. 9 |
| Id. | 17 Dif. lat. | 44 | 343. 1 | 343. 2 | Id. | Id. | 51 | 469. 8 | 469. 9 |
| Id. | Id. | 45 | 344. 1 | 344. 2 | Id. | Id. | 52 | 470. 8 | 470. 9 |

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# INDICE.

*Tablas para corregir las alturas observadas del sol, de la luna y de las estrellas; y las distancias observadas de la luna al sol ó á una estrella.*



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# TABLAS

PARA CORREGIR LAS ALTURAS OBSERVADAS

DEL SOL, DE LA LUNA Y DE LAS ESTRELLAS;

Y

LAS DISTANCIAS OBSERVADAS

DE LA LUNA AL SOL

Ó Á UNA ESTRELLA.

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**Tabla I. Depresiones del horizonte de la mar.**

| Elevac. del observador en pies ingleses. | Depresion. | Elevac. del observador en pies ingleses. | Depresion. | Elevac. del observador en pies ingleses. | Depresion. |
|---|---|---|---|---|---|
| | ′ ″ | | ′ ″ | | ′ ″ |
| 1 | 0. 59 | 38 | 6. 4 | 143 | 11. 46 |
| 2 | 1. 24 | 41 | 6. 18 | 146 | 11. 51 |
| 3 | 1. 42 | 44 | 6. 32 | 149 | 12. 1 |
| 4 | 1. 56 | 47 | 6. 45 | 152 | 12. 8 |
| 5 | 2. 12 | 50 | 6. 58 | 155 | 12. 15 |
| 6 | 2. 25 | 53 | 7. 10 | 158 | 12. 22 |
| 7 | 2. 36 | 56 | 7. 22 | 161 | 12. 29 |
| 8 | 2. 47 | 59 | 7. 34 | 164 | 12. 36 |
| 9 | 2. 57 | 62 | 7. 45 | 167 | 12. 43 |
| 10 | 3. 7 | 65 | 7. 56 | 170 | 12. 50 |
| 11 | 3. 16 | 68 | 8. 7 | 173 | 12. 57 |
| 12 | 3. 25 | 71 | 8. 18 | 176 | 13. 4 |
| 13 | 3. 33 | 74 | 8. 28 | 179 | 13. 10 |
| 14 | 3. 41 | 77 | 8. 38 | 182 | 13. 17 |
| 15 | 3. 49 | 80 | 8. 48 | 185 | 13. 23 |
| 16 | 3. 56 | 83 | 8. 58 | 188 | 13. 30 |
| 17 | 4. 4 | 86 | 9. 8 | 191 | 13. 36 |
| 18 | 4. 11 | 89 | 9. 17 | 194 | 13. 43 |
| 19 | 4. 17 | 92 | 9. 26 | 197 | 13. 49 |
| 20 | 4. 24 | 95 | 9. 36 | 200 | 13. 55 |
| 21 | 4. 31 | 98 | 9. 45 | 203 | 14. 2 |
| 22 | 4. 37 | 101 | 9. 54 | 206 | 14. 8 |
| 23 | 4. 43 | 104 | 10. 2 | 209 | 14. 14 |
| 24 | 4. 49 | 107 | 10. 11 | 212 | 14. 20 |
| 25 | 4. 55 | 110 | 10. 19 | 215 | 14. 26 |
| 26 | 5. 1 | 113 | 10. 28 | 218 | 14. 32 |
| 27 | 5. 7 | 116 | 10. 36 | 221 | 14. 38 |
| 28 | 5. 13 | 119 | 10. 44 | 224 | 14. 44 |
| 29 | 5. 19 | 122 | 10. 52 | 227 | 14. 50 |
| 30 | 5. 24 | 125 | 11. 0 | 230 | 14. 56 |
| 31 | 5. 29 | 128 | 11. 8 | 233 | 15. 2 |
| 32 | 5. 34 | 131 | 11. 16 | 236 | 15. 7 |
| 33 | 5. 39 | 134 | 11. 24 | 239 | 15. 13 |
| 34 | 5. 44 | 137 | 11. 31 | 242 | 15. 19 |
| 35 | 5. 49 | 140 | 11. 39 | 245 | 15. 25 |

**Tabla III. Correcciones por desvío.**

| Angulo. | Desvío. 10′ | 20′ | 30′ | 40′ | 44′ | 48′ | 50′ | 52′ | 56′ | 1° |
|---|---|---|---|---|---|---|---|---|---|---|
| ° | ″ | ″ | ″ | ″ | ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 10 | 0 | 1 | 1 | 2 | 3 | 0. 4 | 0. 4 | 0. 4 | 0. 5 | 0. 5 |
| 14 | 0 | 1 | 2 | 3 | 4 | 0. 6 | 0. 6 | 0. 6 | 0. 7 | 0. 8 |
| 18 | 0 | 1 | 3 | 4 | 5 | 0. 6 | 0. 7 | 0. 7 | 0. 9 | 0. 10 |
| 22 | 0 | 1 | 3 | 5 | 7 | 0. 8 | 0. 8 | 0. 9 | 0. 11 | 0. 12 |
| 26 | 0 | 2 | 4 | 6 | 8 | 0. 9 | 0. 10 | 0. 11 | 0. 13 | 0. 15 |
| 30 | 1 | 2 | 4 | 7 | 9 | 0. 11 | 0. 12 | 0. 13 | 0. 15 | 0. 17 |
| 34 | 1 | 2 | 5 | 9 | 10 | 0. 12 | 0. 13 | 0. 14 | 0. 17 | 0. 19 |
| 38 | 1 | 2 | 6 | 10 | 12 | 0. 14 | 0. 15 | 0. 16 | 0. 19 | 0. 22 |
| 42 | 1 | 3 | 6 | 11 | 13 | 0. 15 | 0. 17 | 0. 18 | 0. 21 | 0. 24 |
| 46 | 1 | 3 | 7 | 12 | 14 | 0. 17 | 0. 19 | 0. 20 | 0. 23 | 0. 27 |
| 50 | 1 | 3 | 8 | 13 | 16 | 0. 19 | 0. 20 | 0. 22 | 0. 25 | 0. 29 |
| 54 | 1 | 4 | 8 | 14 | 17 | 0. 20 | 0. 22 | 0. 24 | 0. 28 | 0. 32 |
| 58 | 1 | 4 | 9 | 15 | 19 | 0. 22 | 0. 24 | 0. 26 | 0. 30 | 0. 35 |
| 62 | 1 | 4 | 10 | 17 | 20 | 0. 24 | 0. 26 | 0. 28 | 0. 33 | 0. 38 |
| 66 | 1 | 4 | 10 | 18 | 22 | 0. 26 | 0. 28 | 0. 31 | 0. 35 | 0. 41 |
| 70 | 1 | 5 | 11 | 20 | 24 | 0. 28 | 0. 31 | 0. 33 | 0. 38 | 0. 44 |
| 74 | 2 | 5 | 12 | 21 | 25 | 0. 30 | 0. 33 | 0. 35 | 0. 41 | 0. 47 |
| 78 | 2 | 6 | 13 | 23 | 27 | 0. 33 | 0. 35 | 0. 38 | 0. 44 | 0. 51 |
| 82 | 2 | 6 | 14 | 24 | 29 | 0. 35 | 0. 38 | 0. 41 | 0. 47 | 0. 55 |
| 86 | 2 | 7 | 15 | 26 | 32 | 0. 37 | 0. 41 | 0. 44 | 0. 51 | 0. 59 |
| 90 | 2 | 7 | 16 | 28 | 34 | 0. 40 | 0. 44 | 0. 47 | 0. 55 | 1. 3 |
| 94 | 2 | 8 | 17 | 30 | 36 | 0. 43 | 0. 47 | 0. 51 | 0. 59 | 1. 8 |
| 98 | 2 | 8 | 19 | 32 | 39 | 0. 46 | 0. 50 | 0. 54 | 1. 3 | 1. 12 |
| 100 | 2 | 8 | 19 | 33 | 40 | 0. 48 | 0. 52 | 0. 56 | 1. 5 | 1. 15 |
| 102 | 2 | 9 | 20 | 34 | 42 | 0. 50 | 0. 54 | 0. 58 | 1. 7 | 1. 18 |
| 104 | 3 | 9 | 20 | 36 | 43 | 0. 51 | 0. 56 | 1. 0 | 1. 10 | 1. 21 |
| 106 | 3 | 9 | 21 | 37 | 45 | 0. 53 | 0. 58 | 1. 3 | 1. 13 | 1. 24 |
| 108 | 3 | 10 | 22 | 38 | 46 | 0. 55 | 1. 0 | 1. 5 | 1. 15 | 1. 27 |
| 110 | 3 | 10 | 22 | 40 | 48 | 0. 57 | 1. 2 | 1. 7 | 1. 18 | 1. 30 |
| 112 | 3 | 10 | 23 | 41 | 50 | 1. 0 | 1. 5 | 1. 10 | 1. 21 | 1. 33 |
| 114 | 3 | 11 | 24 | 43 | 52 | 1. 2 | 1. 7 | 1. 13 | 1. 24 | 1. 37 |
| 116 | 3 | 11 | 25 | 45 | 54 | 1. 4 | 1. 10 | 1. 16 | 1. 28 | 1. 41 |
| 118 | 3 | 12 | 26 | 46 | 56 | 1. 7 | 1. 13 | 1. 19 | 1. 31 | 1. 45 |
| 120 | 3 | 12 | 27 | 48 | 58 | 1. 10 | 1. 16 | 1. 22 | 1. 35 | 1. 49 |
| 122 | 3 | 12 | 28 | 50 | 59 | 1. 12 | 1. 19 | 1. 25 | 1. 38 | 1. 53 |

**Tabla II. Depresiones del mar á diferentes distancias del observador.**

| Distancia en millas. | Elevacion del observador en pies ingleses. 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|---|---|---|---|---|---|---|---|---|
| | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ |
| 1/4 | 11 | 22 | 34 | 45 | 56 | 68 | 79 | 90 |
| 1/2 | 6 | 11 | 17 | 22 | 28 | 34 | 39 | 45 |
| 3/4 | 4 | 8 | 12 | 15 | 19 | 23 | 27 | 30 |
| 1 | 4 | 6 | 9 | 12 | 15 | 17 | 20 | 23 |
| 1 1/4 | 3 | 5 | 7 | 9 | 12 | 14 | 16 | 19 |
| 1 1/2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 15 |
| 2 | 2 | 3 | 5 | 6 | 8 | 10 | 11 | 12 |
| 2 1/2 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 |
| 3 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 |
| 3 1/2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 7 |
| 4 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 |
| 5 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| 6 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |

**Tabla IV. Contracciones de los semidiámetros.**

| Altura. | Inclinacion con el horizonte. 0° | 12° | 24° | 36° | 48° | 54° | 60° | 66° | 72° | 78° | 84° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
| 5 | 0 | 1 | 4 | 9 | 14 | 16 | 19 | 21 | 23 | 24 | 25 | 26 |
| 6 | 0 | 1 | 3 | 7 | 10 | 12 | 14 | 16 | 17 | 18 | 19 | 19 |
| 7 | 0 | 1 | 2 | 5 | 8 | 9 | 11 | 12 | 13 | 14 | 14 | 14 |
| 8 | 0 | 0 | 2 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 11 |
| 9 | 0 | 0 | 1 | 3 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 |
| 10 | 0 | 0 | 1 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| 12 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| 14 | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 16 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 20 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 30 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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**Tabla V.** Semidiámetros de la Luna en altura.

| Altura. | Semidiámetro horizontal. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14′ 46″ | 14′ 50″ | 16′ 0″ | 15′ 10″ | 15′ 20″ | 15′ 30″ | 15′ 40″ | 15′ 50″ | 16′ 0″ | 16′ 10″ | 16′ 20″ | 16′ 30″ | 16′ 40″ | 16′ 50″ |
| ° 0 | 14′ 40″ | 14′ 50″ | 15′ 5″ | 15′ 10″ | 15′ 20″ | 15′ 30″ | 15′ 40″ | 15′ 50″ | 16′ 5″ | 16′ 15″ | 16′ 20″ | 16′ 30″ | 16′ 46″ | 16′ 66″ |
| 1 | 14. 40 | 14. 50 | 15. 6 | 15. 10 | 15. 20 | 15. 30 | 15. 40 | 15. 50 | 16. 6 | 16. 10 | 16. 21 | 16. 31 | 16. 41 | 16. 61 |
| 2 | 14. 41 | 14. 51 | 15. 1 | 15. 10 | 15. 21 | 15. 31 | 15. 41 | 15. 51 | 16. 1 | 16. 11 | 16. 21 | 16. 31 | 16. 41 | 16. 61 |
| 3 | 14. 41 | 14. 51 | 15. 1 | 16. 10 | 15. 21 | 15. 31 | 15. 41 | 15. 51 | 16. 1 | 16. 11 | 16. 21 | 16. 31 | 16. 41 | 16. 61 |
| 4 | 14. 41 | 14. 51 | 15. 1 | 15. 11 | 15. 21 | 15. 31 | 15. 41 | 15. 51 | 16. 1 | 16. 11 | 16. 21 | 16. 31 | 16. 41 | 16. 51 |
| 5 | 14. 41 | 14. 51 | 15. 2 | 15. 11 | 15. 21 | 15. 32 | 15. 42 | 15. 52 | 16. 2 | 16. 12 | 16. 22 | 16. 32 | 16. 42 | 16. 62 |
| 6 | 14. 42 | 14. 62 | 15. 2 | 15. 12 | 15. 22 | 15. 32 | 15. 42 | 15. 52 | 16. 2 | 16. 12 | 16. 22 | 15. 32 | 16. 42 | 15. 62 |
| 7 | 14. 42 | 14. 52 | 15. 2 | 15. 12 | 15. 22 | 15. 32 | 15. 42 | 15. 52 | 16. 2 | 16. 12 | 16. 22 | 16. 32 | 16. 42 | 16. 63 |
| 6 | 14. 42 | 14. 52 | 15. 2 | 15. 12 | 15. 22 | 15. 32 | 15. 42 | 15. 52 | 15. 2 | 16. 12 | 15. 23 | 16. 33 | 16. 43 | 16. 63 |
| 9 | 14. 42 | 14. 52 | 15. 2 | 15. 12 | 15. 23 | 15. 33 | 15. 43 | 15. 53 | 16. 3 | 16. 13 | 15. 23 | 16. 33 | 16. 43 | 16. 63 |
| 10 | 14. 43 | 14. 52 | 15. 3 | 16. 13 | 15. 23 | 15. 33 | 15. 43 | 15. 53 | 16. 3 | 16. 13 | 15. 23 | 15. 33 | 16. 43 | 16. 53 |
| 11 | 14. 43 | 14. 53 | 15. 3 | 15. 13 | 15. 23 | 15. 33 | 15. 43 | 16. 53 | 16. 3 | 16. 13 | 16. 23 | 15. 33 | 16. 44 | 16. 54 |
| 12 | 14. 43 | 14. 53 | 15. 3 | 15. 13 | 15. 23 | 15. 33 | 15. 43 | 15. 64 | 16. 4 | 16. 14 | 16. 24 | 16. 34 | 16. 44 | 16. 54 |
| 13 | 14. 43 | 14. 63 | 15. 3 | 15. 13 | 15. 24 | 15. 34 | 16. 44 | 15. 54 | 16. 4 | 16. 14 | 16. 24 | 16. 34 | 16. 44 | 16. 54 |
| 14 | 14. 43 | 14. 54 | 15. 4 | 15. 14 | 15. 24 | 15. 34 | 15. 44 | 15. 54 | 16. 4 | 16. 14 | 16. 24 | 16. 34 | 16. 45 | 16. 55 |
| 15 | 14. 44 | 14. 54 | 15. 4 | 15. 14 | 15. 24 | 15. 34 | 15. 44 | 15. 54 | 16. 4 | 15. 15 | 16. 25 | 16. 35 | 16. 45 | 16. 55 |
| 16 | 14. 44 | 14. 64 | 15. 4 | 15. 14 | 15. 24 | 15. 34 | 15. 45 | 15. 55 | 16. 5 | 16. 15 | 15. 25 | 16. 35 | 16. 45 | 16. 65 |
| 17 | 14. 44 | 14. 54 | 15. 4 | 15. 14 | 15. 25 | 15. 35 | 15. 45 | 15. 55 | 16. 5 | 16. 15 | 15. 25 | 16. 35 | 16. 45 | 16. 66 |
| 16 | 14. 44 | 14. 54 | 15. 6 | 15. 15 | 15. 25 | 15. 35 | 15. 45 | 15. 55 | 16. 5 | 16. 16 | 16. 25 | 16. 36 | 16. 46 | 16. 66 |
| 19 | 14. 45 | 14. 55 | 15. 5 | 15. 15 | 15. 25 | 15. 35 | 15. 45 | 15. 65 | 16. 6 | 16. 16 | 16. 25 | 16. 36 | 16. 45 | 16. 56 |
| 20 | 14. 45 | 14. 55 | 15. 5 | 15. 16 | 15. 25 | 15. 35 | 15. 45 | 15. 56 | 16. 6 | 16. 15 | 16. 26 | 16. 36 | 16. 46 | 16. 55 |
| 21 | 14. 45 | 14. 55 | 15. 5 | 15. 16 | 15. 26 | 15. 36 | 15. 46 | 15. 56 | 16. 6 | 16. 16 | 16. 26 | 16. 36 | 16. 47 | 16. 57 |
| 22 | 14. 45 | 14. 55 | 15. 6 | 15. 15 | 15. 26 | 15. 36 | 15. 45 | 15. 66 | 16. 6 | 16. 16 | 16. 27 | 16. 37 | 16. 47 | 16. 57 |
| 23 | 14. 46 | 14. 56 | 15. 6 | 15. 15 | 15. 26 | 15. 36 | 15. 46 | 15. 56 | 16. 7 | 16. 17 | 16. 27 | 15. 37 | 16. 47 | 16. 67 |
| 24 | 14. 46 | 14. 65 | 15. 6 | 15. 16 | 15. 26 | 15. 36 | 15. 47 | 15. 57 | 16. 7 | 16. 17 | 16. 27 | 16. 37 | 16. 47 | 16. 58 |
| 25 | 14. 46 | 14. 56 | 15. 6 | 15. 16 | 15. 27 | 15. 37 | 15. 47 | 15. 67 | 16. 7 | 16. 17 | 16. 27 | 16. 38 | 16. 48 | 16. 68 |
| 26 | 14. 46 | 14. 56 | 15. 7 | 15. 17 | 15. 27 | 16. 37 | 15. 47 | 16. 57 | 16. 7 | 16. 18 | 16. 28 | 16. 38 | 16. 40 | 16. 60 |
| 27 | 14. 46 | 14. 57 | 16. 7 | 16. 17 | 16. 27 | 16. 37 | 15. 47 | 15. 58 | 16. 6 | 16. 18 | 16. 28 | 16. 30 | 16. 48 | 16. 68 |
| 28 | 14. 47 | 14. 67 | 15. 7 | 15. 17 | 15. 27 | 15. 37 | 15. 40 | 15. 66 | 16. 0 | 15. 18 | 16. 28 | 16. 38 | 16. 49 | 16. 62 |
| 29 | 14. 47 | 14. 57 | 15. 7 | 15. 17 | 15. 28 | 15. 38 | 15. 48 | 15. 58 | 16. 8 | 16. 10 | 16. 28 | 15. 32 | 16. 42 | 16. 62 |
| 30 | 14. 47 | 14. 57 | 15. 7 | 15. 18 | 15. 28 | 15. 38 | 15. 48 | 16. 50 | 16. 8 | 15. 12 | 16. 22 | 16. 39 | 16. 49 | 16. 69 |
| 32 | 14. 48 | 14. 58 | 16. 6 | 15. 18 | 15. 28 | 15. 38 | 15. 48 | 16. 59 | 16. 9 | 16. 19 | 16. 22 | 16. 32 | 16. 50 | 17. 0 |
| 34 | 14. 48 | 14. 68 | 15. 8 | 15. 10 | 15. 29 | 15. 39 | 15. 49 | 15. 59 | 16. 9 | 15. 16 | 16. 30 | 16. 40 | 16. 60 | 17. 0 |
| 35 | 14. 48 | 14. 58 | 15. 9 | 15. 12 | 15. 22 | 15. 39 | 15. 49 | 16. 5 | 15. 10 | 16. 20 | 16. 30 | 16. 40 | 16. 51 | 17. 1 |
| 38 | 14. 42 | 14. 62 | 15. 9 | 15. 12 | 15. 22 | 15. 40 | 15. 60 | 16. 5 | 16. 10 | 16. 20 | 16. 31 | 16. 41 | 16. 51 | 17. 1 |
| 40 | 14. 42 | 14. 69 | 15. 9 | 15. 20 | 15. 30 | 15. 40 | 15. 50 | 16. 6 | 16. 11 | 15. 21 | 16. 31 | 16. 42 | 15. 52 | 17. 2 |
| 42 | 14. 42 | 15. 0 | 15. 16 | 15. 20 | 15. 30 | 15. 40 | 15. 51 | 16. 1 | 16. 11 | 16. 21 | 16. 32 | 16. 42 | 16. 52 | 17. 2 |
| 44 | 14. 50 | 15. 0 | 15. 10 | 15. 20 | 15. 31 | 16. 41 | 15. 51 | 16. 1 | 15. 11 | 16. 22 | 16. 32 | 16. 43 | 16. 53 | 17. 3 |
| 46 | 14. 60 | 15. 0 | 15. 11 | 15. 21 | 15. 31 | 15. 41 | 15. 61 | 16. 2 | 16. 12 | 16. 22 | 15. 32 | 16. 43 | 16. 63 | 17. 3 |
| 48 | 14. 55 | 15. 1 | 15. 11 | 15. 21 | 15 ·31 | 15. 42 | 15. 52 | 16. 2 | 16. 12 | 15. 23 | 16. 33 | 16. 43 | 16. 53 | 17. 4 |
| 50 | 14. 51 | 15. 1 | 15. 11 | 15. 21 | 15. 32 | 15. 42 | 15. 52 | 16. 2 | 16. 13 | 16. 23 | 16. 33 | 16. 44 | 16. 54 | 17. 4 |
| 52 | 14. 51 | 15. 1 | 15. 12 | 15. 22 | 15. 32 | 15. 42 | 16. 53 | 16. 3 | 16. 13 | 16. 23 | 15. 34 | 16. 44 | 16. 54 | 17. 4 |
| 54 | 14. 51 | 15. 2 | 16. 12 | 15. 22 | 15. 32 | 15. 43 | 15. 53 | 16. 3 | 16. 13 | 16. 24 | 16. 34 | 16. 44 | 16. 65 | 17. 6 |
| 56 | 14. 52 | 15. 2 | 15. 12 | 15. 22 | 15. 33 | 15. 43 | 15. 53 | 16. 4 | 15. 14 | 16. 24 | 15. 34 | 16. 45 | 16. 65 | 17. 5 |
| 56 | 14. 52 | 15. 2 | 15. 12 | 15. 23 | 15. 33 | 15. 43 | 15. 54 | 16. 4 | 16. 14 | 16. 24 | 16. 35 | 16. 45 | 16. 55 | 17. 6 |
| 60 | 14. 52 | 15. 2 | 15. 13 | 15. 23 | 15. 33 | 15. 44 | 15. 54 | 16. 4 | 16. 14 | 16. 24 | 16. 35 | 16. 45 | 16. 56 | 17. 6 |
| 62 | 14. 62 | 15. 3 | 15. 13 | 15. 23 | 15. 34 | 15. 44 | 15. 54 | 16. 4 | 16. 15 | 16. 25 | 16. 35 | 16. 46 | 16. 66 | 17. 6 |
| 64 | 14. 53 | 15. 3 | 15. 13 | 15. 23 | 15. 34 | 15. 44 | 15. 54 | 16. 5 | 16. 15 | 16. 25 | 16. 36 | 16. 46 | 16. 66 | 17. 5 |
| 65 | 14. 53 | 16. 3 | 15. 13 | 15. 24 | 15. 34 | 15. 44 | 15. 65 | 16. 5 | 16. 15 | 16. 25 | 16. 36 | 16. 46 | 15. 66 | 17. 7 |
| 66 | 14. 53 | 15. 3 | 15. 14 | 15. 24 | 15. 34 | 15. 44 | 15. 55 | 16. 5 | 16. 15 | 16. 26 | 16. 36 | 16. 46 | 16. 57 | 17. 7 |
| 70 | 14. 53 | 15. 3 | 15. 14 | 15. 24 | 15. 34 | 15. 45 | 15. 65 | 16. 5 | 16. 16 | 16. 26 | 16. 36 | 16. 47 | 16. 57 | 17. 7 |
| 72 | 14. 63 | 15. 4 | 15. 14 | 15. 24 | 15. 34 | 15. 45 | 15. 55 | 16. 6 | 16. 16 | 16. 26 | 16. 36 | 16. 47 | 16. 67 | 17. 7 |
| 74 | 14. 53 | 15. 4 | 16. 14 | 15. 24 | 15. 35 | 15. 45 | 15. 65 | 16. 6 | 16. 16 | 16. 26 | 16. 37 | 16. 47 | 16. 57 | 17. 6 |
| 76 | 14. 53 | 15. 4 | 15. 14 | 15. 24 | 16. 35 | 15. 45 | 16. 55 | 16. 6 | 16. 16 | 16. 26 | 16. 37 | 16. 47 | 16. 57 | 17. 5 |
| 76 | 14. 53 | 16. 4 | 16. 14 | 15. 25 | 16. 35 | 15. 45 | 15. 55 | 16. 6 | 15. 15 | 16. 27 | 16. 37 | 16. 47 | 16. 56 | 17. 6 |
| 80 | 14. 64 | 15. 4 | 15. 14 | 15. 25 | 16. 35 | 16. 45 | 15. 56 | 16. 6 | 16. 16 | 16. 27 | 16. 37 | 16. 47 | 16. 56 | 17. 6 |
| 62 | 14. 64 | 15. 4 | 15. 14 | 15. 25 | 16. 35 | 16. 45 | 15. 56 | 16. 6 | 16. 16 | 16. 27 | 16. 37 | 16. 47 | 16. 50 | 17. 6 |
| 84 | 14. 54 | 15. 4 | 15. 14 | 16. 25 | 16. 35 | 15. 46 | 15. 56 | 16. 5 | 16. 17 | 16. 27 | 16. 37 | 16. 48 | 16. 58 | 17. 8 |
| 55 | 14. 54 | 15. 4 | 15. 14 | 15. 25 | 15. 35 | 15. 46 | 15. 65 | 16. 6 | 16. 17 | 16. 27 | 16. 37 | 16. 40 | 16. 68 | 17. 6 |
| 95 | 14. 54 | 15. 4 | 15. 15 | 15. 25 | 15. 35 | 15. 46 | 15. 56 | 16. 6 | 16. 17 | 16. 27 | 16. 37 | 16. 46 | 16. 58 | 17. 6 |

## Tabla VI. Correcciones (*sustractivas*) de las alturas aparentes del Sol y Estrellas.

| Altura apar. | ✱ Correc. | ⊙ Correc. | Dif. por 10′ | Altura apar. | ✱ Correc. | ⊙ Correc. | Altura apar. | ✱ Correc. | ⊙ Correc. | Altura apar. | ✱ Correc. | ⊙ Correc. | Altura apar. | ✱ Correc. | ⊙ Correc. | Altura apar. | ✱ Correc. | ⊙ Correc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ′ ″ | ′ ″ | ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ |
| 9. 0 | 33. 0 | 32 ·51 | 180 | 9. 0 | 2. 53 | 9. 44 | 9. 0 | 6. 27 | 8. 18 | 7. 9 | 7. 21 | 7. 12 | 9. 0 | 6. 30 | 9. 21 | 9. 9 | 9. 49 | 5. 40 |
| 5 | 32. 10 | 32. 1 | 99 | 1 | 9. 51 | 9. 42 | 1 | 9. 25 | 8. 17 | 1 | 7. 20 | 7. 11 | 1 | 6. 29 | 9. 20 | 2 | 5. 48 | 5. 39 |
| 10 | 31. 22 | 31. 13 | 94 | 2 | 9. 50 | 9. 41 | 2 | 9. 25 | 8. 18 | 2 | 7. 19 | 7. 10 | 2 | 6. 20 | 9. 20 | 4 | 5. 47 | 5. 38 |
| 15 | 30. 35 | 30. 28 | 90 | 3 | 9. 48 | 9. 32 | 9 | 6. 23 | 8. 14 | 3 | 7. 18 | 7. 9 | 3 | 9. 28 | 9. 19 | 9 | 9. 45 | 5. 36 |
| 20 | 29. 50 | 29. 41 | 90 | 4 | 9. 47 | 9. 38 | 4 | 6. 22 | 8. 13 | 4 | 7. 17 | 7. 8 | 4 | 6. 27 | 9. 18 | 9 | 5. 44 | 5. 35 |
| 25 | 29. 9 | 28. 56 | 86 | 9 | 9. 45 | 9. 36 | 5 | 6. 21 | 6. 12 | 9 | 7. 16 | 7. 7 | 5 | 6. 25 | 9. 17 | 18 | 9. 43 | 5. 34 |
| 8. 30 | 28. 22 | 28. 14 | 94 | 9. 9 | 9. 43 | 9. 34 | 6. 6 | 6. 20 | 6. 11 | 7. 6 | 7. 18 | 7. 7 | 8. 5 | 9. 25 | 9. 17 | 9. 12 | 9. 42 | 6. 33 |
| 35 | 27. 40 | 27. 32 | 90 | 7 | 9. 42 | 9. 33 | 7 | 8. 19 | 8. 10 | 7 | 7. 15 | 7. 6 | 7 | 6. 24 | 9. 16 | 14 | 9. 41 | 5. 32 |
| 40 | 27. 9 | 26. 51 | 80 | 6 | 9. 40 | 9. 31 | 6 | 8. 17 | 6. 8 | 6 | 7. 14 | 7. 5 | 8 | 6. 24 | 9. 15 | 19 | 5. 39 | 9. 30 |
| 45 | 26. 20 | 26. 11 | 75 | 2 | 9. 39 | 9. 30 | 9 | 8. 18 | 8. 7 | 9 | 7. 13 | 7. 4 | 9 | 9. 23 | 9. 15 | 18 | 9. 38 | 6. 29 |
| 50 | 25. 42 | 25. 33 | 74 | 10 | 9. 37 | 9. 28 | 10 | 9. 15 | 8. 6 | 10 | 7. 12 | 7. 3 | 18 | 6. 22 | 9. 14 | 20 | 9. 57 | 5. 28 |
| 55 | 23. 5 | 24. 58 | 72 | 11 | 9. 35 | 9. 26 | 11 | 6. 14 | 8. 5 | 11 | 7. 11 | 7. 2 | 11 | 9. 21 | 9. 13 | 22 | 9. 36 | 5 ·27 |
| 1. 0 | 24. 29 | 24. 20 | 70 | 5. 12 | 9. 34 | 2 .25 | 6. 12 | 6. 13 | 8. 4 | 7. 12 | 7. 10 | 7. 1 | 6. 12 | 8. 21 | 6. 12 | 9. 24 | 5. 35 | 5. 26 |
| 5 | 23. 54 | 23. 45 | 88 | 13 | 9. 32 | 9. 23 | 13 | 9. 11 | 8. 2 | 13 | 7. 9 | 7. 0 | 13 | 6. 20 | 6. 12 | 26 | 9. 33 | 5. 24 |
| 10 | 23. 20 | 23. 11 | 98 | 14 | 9. 31 | 9. 22 | 14 | 8. 19 | 8. 1 | 14 | 7. 8 | 9. 59 | 14 | 9. 19 | 6. 11 | 28 | 5. 32 | 6. 23 |
| 15 | 22. 47 | 22. 38 | 64 | 15 | 9. 29 | 9. 20 | 15 | 8. 9 | 8. 8 | 15 | 7. 7 | 6. 58 | 15 | 8. 18 | 6. 10 | 30 | 5. 31 | 9. 22 |
| 20 | 22. 15 | 22. 6 | 82 | 16 | 9. 27 | 9. 18 | 16 | 8. 8 | 7. 69 | 18 | 7. 7 | 9. 58 | 16 | 6. 18 | 6. 9 | 32 | 9. 30 | 9. 21 |
| 25 | 21. 44 | 21. 35 | 56 | 17 | 9. 28 | 9. 17 | 17 | 8. 7 | 7. 58 | 17 | 7. 6 | 9. 57 | 17 | 6. 17 | 6. 6 | 34 | 9. 29 | 5. 20 |
| 1. 30 | 21. 15 | 21. 8 | 66 | 9. 18 | 9. 24 | 9. 15 | 9. 18 | 8. 5 | 7. 56 | 7. 18 | 7. 5 | 9. 56 | 9. 18 | 6. 16 | 6. 8 | 9. 36 | 5. 28 | 5. 19 |
| 35 | 20. 46 | 20. 37 | 56 | 19 | 9. 23 | 2. 14 | 19 | 8. 4 | 7. 53 | 19 | 7. 4 | 6. 55 | 19 | 8. 15 | 6. 7 | 38 | 6. 27 | 6. 18 |
| 40 | 20. 18 | 20. 9 | 54 | 20 | 9. 21 | 9. 13 | 20 | 6. 3 | 7. 54 | 20 | 7. 3 | 6. 54 | 20 | 6. 15 | 6. 6 | 40 | 5. 26 | 9. 17 |
| 45 | 12. 51 | 19. 42 | 52 | 21 | 9. 20 | 9. 11 | 21 | 9. 2 | 7. 53 | 21 | 7. 2 | 6. 53 | 21 | 6. 14 | 6. 5 | 42 | 5. 25 | 9. 16 |
| 50 | 19. 25 | 19. 16 | 50 | 22 | 9. 18 | 9. 9 | 22 | 8. 1 | 7. 52 | 22 | 7. 1 | 9. 52 | 22 | 9. 14 | 6. 5 | 44 | 5. 24 | 9. 15 |
| 55 | 19. 8 | 18. 51 | 50 | 23 | 9. 17 | 9. 8 | 23 | 9. 0 | 7. 51 | 23 | 7. 0 | 6. 51 | 23 | 6. 13 | 6. 4 | 46 | 5. 22 | 5. 14 |
| 2. 0 | 18. 35 | 18. 26 | 48 | 5. 24 | 9. 15 | 9. 6 | 6. 24 | 7. 59 | 7. 50 | 7. 24 | 5. 59 | 9. 50 | 9. 24 | 6. 12 | 9. 3 | 9. 48 | 5. 21 | 5. 13 |
| 9 | 18. 11 | 18. 2 | 46 | 25 | 2. 14 | 9. 5 | 25 | 7. 57 | 7. 48 | 25 | 6. 58 | 9. 49 | 25 | 6. 11 | 6. 2 | 50 | 9. 20 | 9. 12 |
| 10 | 17. 48 | 17. 39 | 44 | 26 | 2. 13 | 9. 4 | 26 | 7. 96 | 7. 47 | 26 | 5. 58 | 6. 49 | 26 | 9. 11 | 6. 2 | 52 | 5. 19 | 5. 11 |
| 15 | 17. 26 | 17. 17 | 44 | 27 | 9. 11 | 9. 2 | 27 | 7. 55 | 7. 46 | 27 | 6. 57 | 9. 48 | 27 | 6. 18 | 9. 1 | 54 | 5. 18 | 5. 10 |
| 20 | 17. 4 | 16. 55 | 40 | 28 | 9. 10 | 9. 1 | 28 | 7. 54 | 7. 45 | 28 | 8. 68 | 6. 47 | 28 | 6. 9 | 6. 8 | 56 | 5. 17 | 5. 6 |
| 25 | 16. 44 | 16. 35 | 40 | 29 | 9. 8 | 6. 59 | 29 | 7. 53 | 7. 44 | 29 | 5. 55 | 6. 46 | 29 | 6. 9 | 6. 0 | 58 | 9. 16 | 5. 7 |
| 2. 30 | 16. 24 | 18. 15 | 49 | 9. 30 | 9. 7 | 8. 58 | 6. 30 | 7. 52 | 7. 43 | 7. 30 | 9. 54 | 6. 45 | 8. 30 | 9. 8 | 5. 59 | 10. 0 | 9. 15 | 5. 6 |
| 35 | 16. 4 | 15. 55 | 38 | 31 | 9. 5 | 8. 57 | 31 | 7. 51 | 7. 42 | 31 | 5. 53 | 9. 44 | 31 | 6. 7 | 5. 58 | 2 | 9. 14 | 5. 5 |
| 40 | 19. 45 | 15. 36 | 36 | 32 | 9. 4 | 8. 55 | 32 | 7. 50 | 7. 41 | 32 | 5. 52 | 6. 43 | 32 | 6. 7 | 9. 58 | 4 | 5. 13 | 9. 4 |
| 45 | 15. 27 | 15. 18 | 35 | 33 | 9. 3 | 8. 54 | 33 | 7. 49 | 7. 40 | 33 | 8. 52 | 6. 43 | 33 | 6. 9 | 9. 57 | 6 | 5. 12 | 9. 3 |
| 50 | 15. 9 | 15. 0 | 34 | 34 | 9. 1 | 8. 52 | 34 | 7. 48 | 7. 39 | 34 | 5. 61 | 9. 42 | 34 | 9. 5 | 5. 57 | 8 | 5. 11 | 5. 2 |
| 65 | 14. 52 | 14. 43 | 32 | 35 | 9. 0 | 8. 51 | 35 | 7. 48 | 7. 37 | 35 | 6. 60 | 9. 41 | 35 | 6. 4 | 5. 56 | 10 | 5. 18 | 6. 1 |
| 3. 0 | 14. 36 | 14. 26 | 32 | 9. 38 | 8. 99 | 8. 50 | 6. 36 | 7. 45 | 7. 36 | 7. 38 | 6. 49 | 9. 40 | 8. 36 | 9. 4 | 5. 55 | 10. 12 | 9. 9 | 5. 0 |
| 5 | 14. 20 | 14. 11 | 32 | 37 | 8. 97 | 8. 48 | 37 | 7. 44 | 7. 35 | 37 | 6. 49 | 9. 39 | 37 | 6. 3 | 9. 55 | 14 | 5. 9 | 4. 59 |
| 10 | 14. 4 | 13. 55 | 30 | 38 | 8. 56 | 8. 47 | 38 | 7. 43 | 7. 34 | 38 | 6. 48 | 8. 39 | 38 | 6. 2 | 9. 54 | 16 | 6. 7 | 4. 58 |
| 15 | 13. 49 | 13. 40 | 30 | 39 | 8. 54 | 8. 45 | 39 | 7. 42 | 7. 33 | 39 | 6. 47 | 6. 38 | 39 | 6. 2 | 9. 54 | 18 | 5. 6 | 4. 57 |
| 20 | 13. 34 | 13. 25 | 28 | 40 | 8. 53 | 8. 44 | 40 | 7. 41 | 7. 32 | 40 | 8. 46 | 6. 37 | 40 | 6. 1 | 5. 93 | 20 | 9. 9 | 4. 56 |
| 25 | 13. 20 | 13. 11 | 28 | 41 | 6. 52 | 8. 43 | 41 | 7. 40 | 7. 31 | 41 | 6. 45 | 9. 36 | 41 | 9. 0 | 9. 52 | 22 | 5. 5 | 4. 55 |
| 3. 30 | 13. 6 | 12. 97 | 26 | 5. 42 | 6. 50 | 8. 41 | 6. 42 | 7. 39 | 7. 30 | 7. 42 | 5. 44 | 9. 35 | 8. 42 | 9. 0 | 9. 52 | 10. 24 | 5. 4 | 4. 54 |
| 35 | 12. 52 | 12. 43 | 26 | 43 | 6. 49 | 8. 40 | 43 | 7. 38 | 7. 29 | 43 | 6. 44 | 6. 35 | 43 | 9. 59 | 6. 51 | 28 | 9. 3 | 4. 53 |
| 40 | 12. 59 | 12. 30 | 26 | 44 | 8. 47 | 8. 38 | 44 | 7. 37 | 7. 28 | 44 | 6. 43 | 9. 34 | 44 | 9. 59 | 5. 90 | 28 | 9. 2 | 4. 52 |
| 45 | 12. 26 | 12. 17 | 24 | 45 | 8. 46 | 8. 37 | 45 | 7. 38 | 7. 27 | 45 | 6. 42 | 9. 33 | 45 | 9. 58 | 5. 49 | 30 | 9. 1 | 4. 51 |
| 60 | 12. 14 | 12. 5 | 24 | 46 | 6. 45 | 6. 36 | 46 | 7. 35 | 7. 26 | 48 | 6. 41 | 6. 32 | 46 | 9. 57 | 5. 49 | 32 | 9. 0 | 4. 51 |
| 55 | 12. 2 | 11. 53 | 24 | 47 | 9. 43 | 8. 34 | 47 | 7. 34 | 7. 25 | 47 | 6. 41 | 6. 31 | 47 | 9. 57 | 5. 48 | 34 | 4. 59 | 4. 90 |
| 4. 0 | 11. 50 | 11. 41 | 22 | 5. 48 | 8. 42 | 8. 33 | 6. 48 | 7. 33 | 7. 24 | 7. 48 | 8. 40 | 9. 31 | 6. 48 | 5. 56 | 5. 47 | 10. 36 | 4. 58 | 4. 49 |
| 9 | 11. 39 | 11. 30 | 22 | 49 | 9. 41 | 8. 32 | 49 | 7. 32 | 7. 23 | 49 | 8. 39 | 6. 30 | 49 | 9. 56 | 5. 47 | 38 | 4. 67 | 4. 48 |
| 10 | 11. 28 | 11. 19 | 22 | 50 | 6. 39 | 8. 31 | 50 | 7. 31 | 7. 22 | 50 | 9. 38 | 9. 29 | 90 | 5. 55 | 5. 46 | 40 | 4. 58 | 4. 47 |
| 15 | 11. 17 | 11. 6 | 20 | 61 | 9. 38 | 9. 29 | 51 | 7. 30 | 7. 21 | 51 | 5. 37 | 9. 28 | 51 | 9. 54 | 5. 45 | 42 | 4. 55 | 4. 47 |
| 20 | 11. 7 | 10. 58 | 20 | 92 | 8. 37 | 6. 28 | 52 | 7. 29 | 7. 20 | 52 | 6. 36 | 6. 27 | 52 | 9. 51 | 5. 45 | 44 | 4. 54 | 4. 46 |
| 25 | 10. 97 | 10. 48 | 20 | 93 | 8. 35 | 9. 26 | 53 | 7. 28 | 7. 19 | 53 | 6. 36 | 6. 27 | 93 | 9. 53 | 5. 44 | 48 | 4. 53 | 4. 45 |
| 4. 30 | 10. 47 | 10. 38 | 20 | 5. 54 | 9. 34 | 8. 25 | 9. 54 | 7. 27 | 7. 18 | 7. 54 | 5. 35 | 9. 28 | 8. 54 | 5. 53 | 5. 44 | 10. 48 | 4. 52 | 4. 44 |
| 35 | 10. 37 | 10. 28 | 18 | 55 | 8. 33 | 6. 24 | 55 | 7. 26 | 7. 17 | 55 | 5. 34 | 6. 25 | 95 | 5. 52 | 5. 43 | 50 | 4. 51 | 4. 43 |
| 40 | 10. 28 | 10. 19 | 18 | 56 | 8. 32 | 9. 23 | 96 | 7. 25 | 7. 16 | 56 | 6. 33 | 6. 24 | 96 | 5. 51 | 5. 42 | 92 | 4. 51 | 4. 42 |
| 45 | 10. 19 | 10. 10 | 18 | 57 | 6. 31 | 6. 22 | 57 | 7. 24 | 7. 15 | 57 | 9. 33 | 6. 23 | 97 | 9. 51 | 6. 42 | 54 | 4. 90 | 4. 41 |
| 50 | 10. 10 | 10. 1 | 16 | 68 | 8. 29 | 6. 20 | 56 | 7. 23 | 7. 14 | 58 | 8. 32 | 9. 23 | 58 | 5. 50 | 5. 41 | 56 | 4. 49 | 4. 40 |
| 65 | 10. 1 | 9. 52 |  | 59 | 8. 28 | 6. 19 | 59 | 7. 22 | 7. 13 | 99 | 5. 31 | 6. 22 | 99 | 9. 50 | 5. 41 | 58 | 4. 48 | 4. 39 |

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**TABLA VI. Correcciones (*sustractivas*) de las alturas aparentes del Sol y Estrellas.**

| Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ |
| 11. 0 | 4.47 | 4.30 | 13. 0 | 4. 3 | 3.64 | 15. 0 | 3.30 | 3.21 | 20. 0 | 2.36 | 2.28 | 30. 0 | 1.39 | 1.31 | 50. 0 | 0.48 | 0.42 |
| 2 | 4.46 | 4.37 | 2 | 4. 2 | 3.63 | 5 | 3.29 | 3.20 | 10 | 2.35 | 2.27 | 20 | 1.37 | 1.29 | 30 | 0.47 | 0.42 |
| 4 | 4.45 | 4.36 | 4 | 4. 2 | 3.53 | 10 | 3.28 | 3.19 | 20 | 2.33 | 2.25 | 40 | 1.36 | 1.28 | 51. 0 | 0.46 | 0.41 |
| 5 | 4.45 | 4.36 | 6 | 4. 1 | 3.52 | 15 | 3.27 | 3.18 | 30 | 2.32 | 2.24 | 31. 0 | 1.35 | 1.27 | 30 | 0.46 | 0.40 |
| 8 | 4.44 | 4.35 | 0 | 4. 1 | 3.62 | 20 | 3.26 | 3.17 | 40 | 2.30 | 2.22 | 20 | 1.33 | 1.26 | 52. 0 | 0.45 | 0.39 |
| 10 | 4.43 | 4.34 | 10 | 4. 0 | 3.51 | 25 | 3.25 | 3.16 | 50 | 2.29 | 2.21 | 40 | 1.32 | 1.25 | 30 | 0.44 | 0.39 |
| 11.12 | 4.42 | 4.33 | 13.12 | 3.52 | 3.50 | 15.30 | 3.24 | 3.15 | 21. 0 | 2.28 | 2.19 | 32. 0 | 1.31 | 1.24 | 53. 0 | 0.43 | 0.38 |
| 14 | 4.41 | 4.32 | 14 | 3.59 | 3.50 | 35 | 3.22 | 3.13 | 10 | 2.27 | 2.18 | 20 | 1.30 | 1.22 | 30 | 0.42 | 0.37 |
| 16 | 4.41 | 4.32 | 16 | 3.58 | 3.49 | 40 | 3.21 | 3.12 | 20 | 2.25 | 2.17 | 40 | 1.29 | 1.21 | 54. 0 | 0.41 | 0.36 |
| 18 | 4.40 | 4.31 | 18 | 3.58 | 3.49 | 45 | 3.20 | 3.11 | 30 | 2.24 | 2.15 | 33. 0 | 1.28 | 1.20 | 30 | 0.41 | 0.36 |
| 20 | 4.39 | 4.30 | 20 | 3.57 | 3.48 | 50 | 3.19 | 3.10 | 40 | 2.22 | 2.14 | 20 | 1.26 | 1.19 | 55. 0 | 0.40 | 0.35 |
| 22 | 4.38 | 4.29 | 22 | 3.66 | 3.47 | 55 | 3.18 | 3. 9 | 50 | 2.21 | 2.13 | 40 | 1.25 | 1.10 | 30 | 0.39 | 0.34 |
| 11.24 | 4.37 | 4.28 | 13.24 | 3.56 | 3.47 | 15. 0 | 3.17 | 3. 8 | 22. 0 | 2.20 | 2.12 | 34. 0 | 1.24 | 1.17 | 56. 0 | 0.38 | 0.33 |
| 26 | 4.37 | 4.28 | 26 | 3.55 | 3.46 | 5 | 3.16 | 3. 7 | 10 | 2.19 | 2.11 | 20 | 1.23 | 1.16 | 30 | 0.38 | 0.33 |
| 28 | 4.36 | 4.27 | 28 | 3.56 | 3.46 | 10 | 3.15 | 3. 6 | 20 | 2.18 | 2.10 | 40 | 1.22 | 1.15 | 57. 0 | 0.37 | 0.32 |
| 30 | 4.35 | 4.26 | 30 | 3.54 | 3.45 | 15 | 3.14 | 3. 6 | 30 | 2.16 | 2. 9 | 35. 0 | 1.21 | 1.14 | 30 | 0.37 | 0.32 |
| 32 | 4.34 | 4.25 | 32 | 3.53 | 3.44 | 20 | 3.13 | 3. 4 | 40 | 2.15 | 2. 8 | 20 | 1.20 | 1.13 | 58. 0 | 0.36 | 0.31 |
| .34 | 4.33 | 4.24 | 34 | 3.53 | 3.44 | 25 | 3.12 | 3. 3 | 50 | 2.14 | 2. 7 | 40 | 1.19 | 1.12 | 30 | 0.35 | 0.31 |
| 11.36 | 4.33 | 4.24 | 13.36 | 3.52 | 3.43 | 15.30 | 3.11 | 3. 2 | 23. 0 | 2.13 | 2. 6 | 36. 0 | 1.18 | 1.11 | 59. 0 | 0.34 | 0.30 |
| 38 | 4.32 | 4.23 | 38 | 3.52 | 3.43 | 35 | 3.10 | 3. 1 | 10 | 2.12 | 2. 6 | 20 | 1.17 | 1.10 | 30 | 0.34 | 0.30 |
| 40 | 4.31 | 4.22 | 40 | 3.51 | 3.42 | 40 | 3. 9 | 3. 0 | 20 | 2.11 | 2. 4 | 40 | 1.17 | 1.10 | 60. 0 | 0.33 | 0.29 |
| 42 | 4.30 | 4.21 | 42 | 3.50 | 3.41 | 45 | 3. 0 | 2.69 | 30 | 2.10 | 2. 3 | 37. 0 | 1.16 | 1. 2 | 30 | 0.33 | 0.28 |
| 44 | 4.29 | 4.20 | 44 | 3.50 | 3.41 | 60 | 3. 7 | 2.58 | 40 | 2. 9 | 2. 2 | 20 | 1.15 | 1. 8 | 61. 0 | 0.32 | 0.27 |
| 46 | 4.29 | 4.20 | 46 | 3.49 | 3.40 | 55 | 3. 6 | 2.57 | 50 | 2. 8 | 2. 1 | 40 | 1.14 | 1. 7 | 30 | 0.31 | 0.27 |
| 11.48 | 4.28 | 4.19 | 13.48 | 3.49 | 3.40 | 17. 0 | 3. 6 | 2.66 | 24. 0 | 2. 7 | 2. 0 | 38. 0 | 1.13 | 1. 6 | 62. 0 | 0.30 | 0.26 |
| 50 | 4.27 | 4.18 | 50 | 3.48 | 3.39 | 5 | 3. 4 | 2.55 | 10 | 2. 6 | 1.59 | 20 | 1.12 | 1. 6 | 30 | 0.30 | 0.26 |
| 62 | 4.26 | 4.17 | 62 | 3.40 | 3.39 | 10 | 3. 3 | 2.54 | 20 | 2. 5 | 1.58 | 40 | 1.11 | 1. 4 | 63. 0 | 0.29 | 0.25 |
| 64 | 4.25 | 4.16 | 54 | 3.47 | 3.38 | 15 | 3. 2 | 2.53 | 30 | 2. 4 | 1.57 | 39. 0 | 1.10 | 1. 3 | 30 | 0.29 | 0.25 |
| 66 | 4.25 | 4.16 | 56 | 3.47 | 3.38 | 20 | 3. 1 | 2.52 | 40 | 2. 4 | 1.56 | 20 | 1. 2 | 1. 2 | 64. 0 | 0.28 | 0.24 |
| 68 | ·4.24 | 4.15 | 68 | 3.46 | 3.37 | 25 | 3. 0 | 2.51 | 50 | 2. 3 | 1.55 | 40 | 1. 9 | 1. 1 | 30 | 0.28 | 0.24 |
| 12. 0 | 4.23 | 4.14 | 14. 0 | 3.46 | 3.37 | 17.30 | 2.59 | 2.50 | 25. 0 | 2. 2 | 1.64 | 40. 0 | 1. 8 | 1. 1 | 65. 0 | 0.27 | 0.23 |
| 2 | 4.22 | 4.13 | 2 | 3.46 | 3.36 | 35 | 2.59 | 2.60 | 10 | 2. 1 | 1.53 | 20 | 1. 7 | 1. 0 | 30 | 0.26 | 0.23 |
| 4 | 4.22 | 4.13 | 4 | 3.45 | 3.36 | 40 | 2.58 | 2.49 | 20 | 2. 0 | 1.52 | 40 | 1. 6 | 1. 0 | 66. 0 | 0.25 | 0.22 |
| 6 | 4.21 | 4.12 | 6 | 3.44 | 3.35 | 45 | 2.57 | 2.48 | 30 | 1.59 | 1.52 | 41. 0 | 1. 5 | 0.59 | 30 | 0.25 | 0.22 |
| 8 | 4.20 | 4.11 | 8 | 3.44 | 3.35 | 50 | 2.56 | 2.47 | 40 | 1.58 | 1.51 | 20 | 1. 4 | 0.58 | 67. 0 | 0.21 | 0.21 |
| 10 | 4.20 | 4.11 | 10 | 3.43 | 3.34 | 66 | 2.55 | 2.46 | 50 | 1.57 | 1.50 | 40 | 1. 3 | 0.57 | 30 | 0.23 | 0.21 |
| 12.12 | 4.19 | 4.10 | 14.12 | 3.42 | 3.33 | 18. 0 | 2.54 | 2.45 | 26. 0 | 1.56 | 1.49 | 42. 0 | 1. 3 | 0.57 | 68 | 0.23 | 0.20 |
| 14 | 4.18 | 4. 9 | 14 | 3.42 | 3.33 | 5 | 2.53 | 2.44 | 10 | 1.55 | 1.48 | 20 | 1. 2 | 0.56 | 69 | 0.22 | 0.19 |
| 16 | 4.17 | 4. 8 | 16 | 3.41 | 3.32 | 10 | 2.52 | 2.43 | 20 | 1.54 | 1.47 | 40 | 1. 1 | 0.56 | 70 | 0.21 | 0.18 |
| 10 | 4.17 | 4. 8 | 18 | 3.41 | 3.32 | 15 | 2.51 | 2.42 | 30 | 1.53 | 1.46 | 43. 0 | 1. 1 | 0.55 | 71 | 0.20 | 0.17 |
| 20 | 4.16 | 4. 7 | 20 | 3.40 | 3.31 | 20 | 2.51 | 2.42 | 40 | 1.53 | 1.46 | 20 | 1. 0 | 0.65 | 72 | 0.19 | 0.16 |
| 22 | 4.15 | 4. 6 | 22 | 3.40 | 3.31 | 25 | 2.50 | 2.41 | 50 | 1.52 | 1.45 | 40 | 1. 0 | 0.54 | 73 | 0.17 | 0.15 |
| 12.24 | 4.15 | 4. 6 | 14.24 | 3.39 | 3.30 | 18.30 | 2.49 | 2.40 | 27. 0 | 1.51 | 1.44 | 44. 0 | 0.59 | 0.63 | 74 | 0.16 | 0.14 |
| 26 | 4.14 | 4. 6 | 26 | 3.32 | 3.30 | 35 | 2.48 | 2.39 | 10 | 1.50 | 1.43 | 20 | 0.58 | 0.53 | 75 | 0.15 | 0.13 |
| 28 | 4.14 | 4. 6 | 28 | 3.30 | 3.29 | 40 | 2.47 | 2.30 | 20 | 1.50 | 1.42 | 40 | 0.58 | 0.52 | 75 | 0.14 | 0.12 |
| 30 | 4.13 | 4. 4 | 30 | 3.38 | 3.22 | 45 | 2.46 | 2.37 | 30 | 1.49 | 1.41 | 46. 0 | 0.57 | 0.51 | 77 | 0.13 | 0.11 |
| 32 | 4.12 | 4. 3 | 32 | 3.37 | 3.20 | 50 | 2.46 | 2.37 | 40 | 1.49 | 1.41 | 20 | 0.57 | 0.51 | 78 | 0.12 | 0.10 |
| 34 | 4.12 | 4. 3 | 34 | 3.37 | 3.28 | 65 | 2.45 | 2.36 | 50 | 1.48 | 1.40 | 40 | 0.56 | 0.60 | 79 | 0.11 | 0. 9 |
| 12.36 | 4.11 | 4. 2 | 14.36 | 3.36 | 3.27 | 19. 0 | 2.44 | 2.36 | 28. 0 | 1.47 | 1.39 | 46. 0 | 0.55 | 0.49 | 80 | 0.10 | 0. 8 |
| 38 | 4.11 | 4. 2 | 38 | 3.36 | 3.27 | 6 | 2.43 | 2.35 | 10 | 1.46 | 1.38 | 20 | 0.55 | 0.49 | 81 | 0. 9 | 0. 8 |
| 40 | 4.10 | 4. 1 | 40 | 3.35 | 3.26 | 10 | 2.43 | 2.35 | 20 | 1.46 | 1.38 | 40 | 0.54 | 0.48 | 82 | 0. 8 | 0. 7 |
| 42 | 4. 9 | 4. 0 | 42 | 3.35 | 3.26 | 15 | 2.42 | 2.34 | 30 | 1.45 | 1.37 | 47. 0 | 0.53 | 0.47 | 83 | 0. 7 | 0. 6 |
| 44 | 4. 8 | 3.59 | 44 | 3.34 | 3.25 | 20 | 2.41 | 2.33 | 40 | 1.45 | 1.37 | 20 | 0.53 | 0.47 | 84 | 0. 6 | 0. 5 |
| 45 | 4. 8 | 3.59 | 46 | 3.34 | 3.25 | 25 | 2.41 | 2.33 | 50 | 1.44 | 1.36 | 40 | 0.52 | 0.46 | 86 | 0. 5 | 0. 4 |
| 12.48 | 4. 7 | 3.58 | 14.48 | 3.33 | 3.24 | 19.30 | 2.40 | 2.32 | 29. 0 | 1.43 | 1.35 | 48. 0 | 0.51 | 0.45 | 85 | 0. 4 | 0. 3 |
| 50 | 4. 6 | 3.57 | 50 | 3.33 | 3.24 | 35 | 2.32 | 2.31 | 10 | 1·42 | 1.34 | 20 | 0.51 | 0.45 | 87 | 0. 3 | 0. 3 |
| 52 | 4. 5 | 3.56 | 52 | 3.32 | 3.23 | 40 | 2.39 | 2.31 | 20 | 1.42 | 1.34 | 40 | 0.50 | 0.44 | 80 | 0. 2 | 0. 2 |
| 54 | 4. 6 | 3.56 | 54 | 3.32 | 3.23 | 45 | 2.38 | 2.30 | 30 | 1.41 | 1.33 | 49. 0 | 0.50 | 0.44 | 89 | 0. 1 | 0. 1 |
| 56 | 4. 4 | 3.55 | 56 | 3.31 | 3.22 | 50 | 2.37 | 2.22 | 40 | 1.40 | 1.32 | 20 | 0.42 | 0.43 | 90 | 0. 0 | 0. 0 |
| 58 | 4. 4 | 3.55 | 58 | 3.31 | 3.22 | 55 | 2.37 | 2.22 | 50 | 1.40 | 1.32 | 40 | 0.42 | 0.43 | | | |

**Tabla VII.** Correcciones complementares (*aditivas*) á las alturas aparentes del Sol y Estrellas.

| Altura apar. | ★ Correc. | ☉ Correc. | Dif. por 10′ | Altura apar. | ★ Correc. | ☉ Correc. | Altura apar. | ★ Correc. | ☉ Correc. | Altura apar. | ★ Correc. | ☉ Correc. | Altura apar. | ★ Correc. | ☉ Correc. | Altura apar. | ★ Correc. | ☉ Correc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ′ ″ | ′ ″ | ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ |
| 0. 0 | 27. 5 | 27. 9 | 105 | 5. 0 | 50. 7 | 50. 16 | 6. 0 | 51. 33 | 51. 42 | 7. 0 | 52. 39 | 52. 48 | 8. 0 | 53. 30 | 53. 39 | 9. 0 | 54. 11 | 54. 20 |
| 5 | 27. 50 | 97. 59 | 95 | 1 | 55. 9 | 50. 18 | 1 | 51. 34 | 51. 43 | 1 | 52. 40 | 52. 49 | 1 | 53. 31 | 53. 40 | 2 | 54. 12 | 54. 21 |
| 10 | 28. 38 | 28. 47 | 24 | 2 | 50. 10 | 50. 19 | 2 | 51. 35 | 51. 44 | 2 | 52. 41 | 52. 50 | 2 | 53. 32 | 53. 41 | 4 | 54. 13 | 54. 22 |
| 15 | 29. 25 | 29. 36 | 90 | 3 | 50. 12 | 50. 21 | 3 | 51. 37 | 51. 46 | 3 | 52. 42 | 59. 51 | 3 | 53. 32 | 53. 41 | 6 | 54. 15 | 54. 24 |
| 20 | 30. 10 | 35. 19 | 90 | 4 | 50. 13 | 50. 22 | 4 | 51. 38 | 51. 47 | 4 | 52. 43 | 52. 52 | 4 | 53. 33 | 53. 42 | 8 | 54. 16 | 54. 25 |
| 25 | 30. 55 | 31. 4 | 85 | 5 | 50. 15 | 50. 94 | 5 | 51. 39 | 51. 48 | 5 | 52. 44 | 59. 53 | 5 | 53. 34 | 53. 43 | 10 | 54. 17 | 54. 26 |
| 0. 30 | 31. 38 | 31. 46 | 84 | 5. 6 | 50. 17 | 50. 26 | 6. 6 | 51. 40 | 51. 49 | 7. 6 | 52. 44 | 52. 53 | 8. 6 | 53. 35 | 53. 44 | 9. 12 | 54. 18 | 54. 27 |
| 35 | 32. 20 | 32. 28 | 80 | 7 | 50. 18 | 50. 97 | 7 | 51. 41 | 51. 50 | 7 | 52. 45 | 52. 54 | 7 | 53. 36 | 53. 45 | 14 | 54. 19 | 54. 28 |
| 40 | 33. 0 | 33. 2 | 80 | 8 | 50. 20 | 50. 29 | 8 | 51. 43 | 51. 52 | 8 | 59. 46 | 59. 55 | 8 | 53. 36 | 53. 45 | 16 | 54. 21 | 54. 30 |
| 45 | 33. 40 | 33. 49 | 75 | 9 | 50. 21 | 50. 30 | 9 | 51. 44 | 51. 53 | 9 | 59. 47 | 52. 56 | 9 | 53. 37 | 53. 46 | 18 | 54. 22 | 54. 31 |
| 50 | 34. 18 | 34. 27 | 74 | 10 | 55. 23 | 50. 32 | 10 | 51. 45 | 51. 54 | 10 | 52. 48 | 52. 57 | 10 | 53. 38 | 53. 47 | 20 | 54. 23 | 54. 32 |
| 55 | 34. 55 | 35. 4 | 72 | 11 | 50. 25 | 50. 34 | 11 | 51. 46 | 51. 55 | 11 | 52. 49 | 52. 58 | 11 | 53. 39 | 53. 48 | 22 | 54. 24 | 54. 33 |
| 1. 0 | 35. 31 | 35. 40 | 70 | 5. 12 | 50. 25 | 50. 35 | 6. 12 | 51. 47 | 51. 55 | 7. 12 | 52. 50 | 52. 59 | 8. 12 | 53. 39 | 53. 48 | 9. 24 | 54. 25 | 54. 34 |
| 5 | 36. 6 | 36. 15 | 58 | 13 | 50. 28 | 50. 37 | 13 | 51. 49 | 51. 38 | 13 | 59. 51 | 53. 0 | 13 | 53. 40 | 53. 49 | 26 | 54. 27 | 54. 36 |
| 10 | 35. 40 | 36. 49 | 55 | 14 | 55. 29 | 50. 38 | 14 | 51. 50 | 51. 59 | 14 | 52. 52 | 53. 1 | 14 | 53. 41 | 53. 50 | 28 | 54. 28 | 54. 37 |
| 15 | 37. 13 | 37. 22 | 64 | 15 | 50. 31 | 50. 40 | 15 | 51. 51 | 52. 0 | 15 | 52. 53 | 53. 2 | 15 | 53. 42 | 53. 51 | 30 | 54. 29 | 54. 38 |
| 20 | 37. 45 | 37. 54 | 52 | 16 | 50. 33 | 50. 42 | 16 | 51. 52 | 52. 1 | 16 | 52. 53 | 53. 2 | 16 | 53. 42 | 53. 51 | 32 | 54. 30 | 54. 39 |
| 25 | 38. 15 | 38. 93 | 58 | 17 | 50. 34 | 50. 43 | 17 | 51. 53 | 52. 2 | 17 | 52. 54 | 53. 3 | 17 | 53. 43 | 53. 52 | 34 | 54. 31 | 54. 40 |
| 1. 30 | 38. 45 | 38. 54 | 58 | 5. 18 | 50. 35 | 50. 45 | 6. 18 | 51. 55 | 52. 4 | 7. 18 | 52. 55 | 53. 4 | 8. 18 | 53. 44 | 53. 53 | 9. 36 | 54. 32 | 54. 41 |
| 35 | 39. 14 | 32. 23 | 56 | 19 | 50. 37 | 50. 46 | 19 | 51. 56 | 52. 5 | 19 | 59. 56 | 53. 5 | 19 | 53. 44 | 53. 53 | 38 | 54. 33 | 54. 42 |
| 40 | 39. 42 | 39. 51 | 54 | 20 | 50. 39 | 50. 48 | 20 | 51. 57 | 52. 5 | 20 | 52. 57 | 53. 6 | 20 | 53. 45 | 53. 54 | 40 | 54. 34 | 54. 43 |
| 45 | 40. 9 | 40. 18 | 52 | 21 | 50. 40 | 50. 49 | 21 | 51. 58 | 52. 7 | 21 | 52. 58 | 53. 7 | 21 | 53. 46 | 53. 55 | 42 | 54. 35 | 54. 44 |
| 50 | 40. 35 | 40. 44 | 50 | 22 | 50. 42 | 50. 51 | 22 | 51. 59 | 52. 8 | 22 | 52. 59 | 53. 8 | 22 | 53. 46 | 53. 55 | 44 | 54. 36 | 54. 45 |
| 55 | 11. 0 | 41. 2 | 50 | 23 | 50. 43 | 55. 52 | 23 | 52. 0 | 52. 9 | 23 | 53. 0 | 53. 9 | 23 | 53. 47 | 53. 56 | 46 | 54. 38 | 54. 47 |
| 2. 0 | 41. 25 | 41. 34 | 48 | 5. 24 | 50. 45 | 50. 54 | 6. 24 | 52. 1 | 52. 10 | 7. 24 | 53. 1 | 53. 10 | 8. 24 | 53. 48 | 53. 57 | 9. 48 | 54. 39 | 54. 48 |
| 5 | 41. 49 | 41. 58 | 45 | 25 | 50. 45 | 50. 55 | 25 | 52. 3 | 52. 12 | 25 | 53. 2 | 53. 11 | 25 | 53. 49 | 53. 58 | 50 | 54. 40 | 54. 49 |
| 10 | 42. 12 | 42. 21 | 44 | 26 | 50. 47 | 50. 56 | 26 | 52. 4 | 59. 13 | 26 | 53. 2 | 53. 11 | 26 | 53. 49 | 53. 58 | 52 | 54. 41 | 54. 50 |
| 15 | 19. 34 | 42. 43 | 44 | 27 | 50. 49 | 50. 58 | 27 | 52. 5 | 52. 14 | 27 | 53. 3 | 53. 12 | 27 | 53. 50 | 53. 59 | 54 | 54. 49 | 54. 51 |
| 20 | 12. 56 | 43. 5 | 40 | 28 | 50. 50 | 50. 59 | 28 | 59. 6 | 52. 15 | 28 | 53. 4 | 53. 13 | 28 | 53. 51 | 54. 0 | 56 | 54. 43 | 54. 52 |
| 25 | 13. 16 | 43. 25 | 40 | 29 | 58. 52 | 51. 1 | 29 | 52. 7 | 52. 15 | 29 | 53. 5 | 53. 14 | 29 | 53. 51 | 51. 5 | 58 | 54. 44 | 54. 53 |
| 2. 30 | 43. 36 | 43. 45 | 40 | 5. 30 | 50. 53 | 51. 2 | 6. 30 | 52. 8 | 52. 17 | 7. 30 | 53. 6 | 53. 15 | 8. 30 | 53. 52 | 54. 1 | 10. 0 | 54. 45 | 54. 54 |
| 35 | 43. 55 | 44. 5 | 38 | 31 | 50. 54 | 51. 3 | 31 | 52. 9 | 52. 18 | 31 | 53. 7 | 53. 16 | 31 | 53. 53 | 54. 9 | 2 | 54. 46 | 54. 55 |
| 40 | 14. 15 | 44. 24 | 35 | 32 | 50. 55 | 51. 5 | 32 | 59. 10 | 52. 19 | 32 | 53. 8 | 53. 17 | 32 | 53. 53 | 54. 9 | 4 | 54. 47 | 54. 55 |
| 45 | 44. 33 | 44. 42 | 36 | 33 | 50. 57 | 51. 5 | 33 | 52. 11 | 52. 20 | 33 | 53. 8 | 53. 17 | 33 | 53. 54 | 54. 3 | 6 | 54. 48 | 54. 57 |
| 50 | 44. 51 | 45. 0 | 34 | 34 | 50. 59 | 51. 8 | 34 | 59. 12 | 52. 21 | 34 | 53. 9 | 53. 18 | 34 | 53. 55 | 54. 4 | 8 | 54. 49 | 54. 58 |
| 55 | 45. 8 | 45. 17 | 39 | 35 | 51 0 | 51. 9 | 35 | 52. 14 | 52. 23 | 35 | 53. 10 | 53. 19 | 35 | 53. 55 | 54. 5 | 10 | 54. 50 | 54. 52 |
| 3. 0 | 45. 24 | 45. 34 | 32 | 5. 36 | 51. 1 | 51. 10 | 6. 36 | 52. 15 | 52. 24 | 7. 36 | 53. 11 | 53. 20 | 8. 36 | 53. 56 | 54. 5 | 10. 12 | 54. 51 | 55. 0 |
| 5 | 13. 40 | 45. 49 | 39 | 37 | 51. 3 | 51. 12 | 37 | 52. 16 | 52. 25 | 37 | 53. 11 | 53. 20 | 37 | 53. 57 | 54. 5 | 14 | 54. 52 | 55. 1 |
| 10 | 45. 55 | 45. 5 | 30 | 38 | 51. 4 | 51. 13 | 38 | 52. 17 | 52. 26 | 38 | 53. 19 | 53. 21 | 38 | 53. 58 | 54. 7 | 16 | 54. 53 | 55. 2 |
| 15 | 45. 11 | 46. 20 | 30 | 39 | 51. 6 | 51. 15 | 39 | 52. 18 | 52. 27 | 39 | 53. 13 | 53. 22 | 39 | 53. 58 | 54. 7 | 18 | 54. 54 | 55. 3 |
| 20 | 46. 95 | 46. 35 | 28 | 40 | 51. 7 | 51. 15 | 40 | 52. 19 | 52. 28 | 40 | 53. 14 | 53. 23 | 40 | 53. 59 | 54. 8 | 20 | 54. 55 | 55. 4 |
| 25 | 46. 40 | 46. 49 | 28 | 41 | 51. 8 | 51. 17 | 41 | 52. 95 | 52. 29 | 41 | 53. 15 | 53. 24 | 41 | 54. 0 | 54. 9 | 22 | 54. 55 | 55. 4 |
| 3. 30 | 45. 54 | 47. 3 | 28 | 5. 42 | 51. 10 | 51. 19 | 6. 42 | 52. 21 | 52. 30 | 7. 42 | 53. 16 | 53. 25 | 8. 42 | 54. 0 | 54. 9 | 10. 24 | 54. 55 | 55. 5 |
| 35 | 47. 5 | 47. 15 | 25 | 43 | 51. 11 | 51. 20 | 43 | 52. 22 | 52. 31 | 43 | 53. 15 | 53. 25 | 43 | 54. 1 | 54. 10 | 26 | 54. 57 | 55. 6 |
| 40 | 47. 21 | 47. 30 | 26 | 44 | 51. 13 | 51. 22 | 44 | 52. 23 | 52. 32 | 44 | 53. 17 | 53. 26 | 44 | 54. 1 | 54. 10 | 28 | 54. 58 | 55. 7 |
| 45 | 47. 34 | 47. 43 | 24 | 45 | 51. 14 | 51. 23 | 45 | 52. 24 | 52. 33 | 45 | 53. 18 | 53. 27 | 45 | 54. 2 | 54. 11 | 30 | 54. 59 | 55. 8 |
| 50 | 47. 45 | 47. 55 | 24 | 46 | 51. 15 | 51. 24 | 46 | 52. 25 | 52. 34 | 46 | 53. 19 | 53. 28 | 46 | 54. 3 | 54. 12 | 32 | 55. 0 | 55. 9 |
| 55 | 47. 58 | 48. 7 | 24 | 47 | 51. 17 | 51. 25 | 47 | 52. 25 | 52. 35 | 47 | 53. 19 | 53. 28 | 47 | 54. 3 | 54. 12 | 34 | 55. 1 | 55. 10 |
| 4. 0 | 48. 10 | 48. 19 | 22 | 5. 48 | 51. 18 | 51. 27 | 6. 48 | 52. 27 | 52. 36 | 7. 48 | 53. 20 | 53. 29 | 8. 48 | 54. 4 | 54. 13 | 10. 36 | 55. 2 | 55. 11 |
| 5 | 48. 91 | 48. 30 | 22 | 49 | 51. 19 | 51. 28 | 49 | 52. 28 | 52. 37 | 49 | 53. 91 | 53. 30 | 49 | 54. 4 | 54. 13 | 38 | 55. 3 | 55. 19 |
| 10 | 48. 32 | 48. 41 | 22 | 50 | 51. 21 | 51. 30 | 50 | 52. 29 | 52. 38 | 50 | 53. 22 | 53. 31 | 50 | 54. 5 | 54. 14 | 40 | 55. 4 | 55. 13 |
| 15 | 48. 43 | 45. 59 | 20 | 51 | 51. 22 | 51. 31 | 51 | 52. 30 | 52. 39 | 51 | 53. 93 | 53. 39 | 51 | 54. 6 | 54. 15 | 42 | 55. 5 | 55. 14 |
| 20 | 48. 53 | 49. 2 | 20 | 52 | 51. 23 | 51. 32 | 52 | 52. 31 | 52. 40 | 52 | 53. 24 | 53. 33 | 52 | 54. 5 | 54. 15 | 44 | 55. 6 | 55. 15 |
| 25 | 49. 3 | 49. 12 | 25 | 53 | 51. 25 | 51. 34 | 53 | 52. 32 | 52. 41 | 53 | 53. 24 | 53. 33 | 53 | 54. 7 | 54. 16 | 46 | 55. 7 | 55. 15 |
| 4. 30 | 49. 13 | 49. 22 | 28 | 5. 54 | 51. 26 | 51. 35 | 6. 54 | 52. 33 | 59. 42 | 7. 54 | 53. 25 | 53. 34 | 8. 54 | 54. 7 | 54. 16 | 10. 48 | 55. 8 | 55. 17 |
| 35 | 49. 23 | 49. 32 | 18 | 55 | 51. 27 | 51. 36 | 55 | 52. 34 | 52. 43 | 55 | 53. 25 | 53. 35 | 55 | 54. 8 | 54. 17 | 50 | 55. 9 | 55. 18 |
| 40 | 49. 39 | 49. 41 | 18 | 56 | 51. 28 | 51. 37 | 56 | 52. 35 | 52. 44 | 56 | 53. 27 | 53. 35 | 56 | 54. 9 | 54. 18 | 52 | 55. 9 | 55. 18 |
| 45 | 49. 41 | 49. 50 | 18 | 57 | 51. 29 | 51. 38 | 57 | 52. 36 | 52. 45 | 57 | 53. 27 | 53. 35 | 57 | 54. 9 | 54. 18 | 54 | 55. 10 | 55. 19 |
| 50 | 49. 50 | 49. 59 | 15 | 58 | 51. 31 | 51. 40 | 58 | 52. 37 | 59. 45 | 58 | 53. 28 | 53. 37 | 58 | 54. 10 | 54. 19 | 56 | 55. 11 | 55. 20 |
| 55 | 49. 59 | 50. 5 |  | 59 | 51. 32 | 51. 41 | 59 | 52. 38 | 52. 47 | 59 | 53. 29 | 53. 38 | 59 | 54. 10 | 54. 19 | 58 | 55. 12 | 55. 21 |

**Tabla VII.** Correcciones complementares (*aditivas*) á las alturas aparentes del Sol y Estrellas.

| Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. | Altura apar. | ★ Correc. | ⊙ Correc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ | ° ′ | ′ ″ | ′ ″ |
| 11. 0 | 55. 13 | 55. 22 | 13. 0 | 55. 57 | 55. 6 | 15. 0 | 56. 30 | 56. 39 | 20. 0 | 57. 24 | 57. 32 | 30. 0 | 58. 21 | 56. 29 | 50. 0 | 59. 12 | 59. 18 |
| 2 | 55. 14 | 55. 23 | 2 | 55. 58 | 55. 7 | 5 | 56. 31 | 55. 40 | 10 | 57. 25 | 57. 33 | 20 | 58. 23 | 56. 31 | 30 | 52. 13 | 59. 19 |
| 4 | 55. 15 | 55. 24 | 4 | 55. 58 | 55. 7 | 10 | 56. 32 | 56. 41 | 20 | 57. 27 | 57. 35 | 40 | 58. 24 | 58. 32 | 51. 0 | 59. 14 | 59. 20 |
| 6 | 55. 15 | 55. 24 | 5 | 55. 59 | 56. 8 | 15 | 56. 33 | 56. 42 | 30 | 57. 28 | 57. 36 | 31. 0 | 58. 25 | 56. 33 | 30 | 59. 14 | 59. 20 |
| 8 | 55. 16 | 55. 25 | 8 | 55. 59 | 56. 8 | 20 | 56. 34 | 56. 43 | 40 | 57. 30 | 57. 38 | 20 | 56. 27 | 56. 35 | 52. 0 | 59. 15 | 59. 21 |
| 10 | 55. 17 | 55. 25 | 10 | 56. 0 | 55. 9 | 25 | 56. 33 | 56. 44 | 50 | 57. 31 | 57. 39 | 40 | 58. 28 | 56. 36 | 30 | 59. 16 | 59. 21 |
| 11. 12 | 55. 16 | 55. 27 | 13. 12 | 56. 1 | 56. 10 | 15. 30 | 55. 36 | 55. 45 | 21. 0 | 57. 32 | 57. 40 | 32. 0 | 58. 29 | 58. 37 | 53. 0 | 59. 17 | 59. 22 |
| 14 | 55. 19 | 55. 28 | 14 | 56. 1 | 56. 10 | 35 | 56. 38 | 56. 47 | 10 | 57. 33 | 57. 41 | 20 | 58. 30 | 58. 38 | 30 | 59. 16 | 59. 23 |
| 16 | 55. 19 | 55. 28 | 16 | 56. 2 | 56. 11 | 40 | 56. 39 | 56. 48 | 20 | 57. 35 | 57. 43 | 40 | 58. 31 | 56. 39 | 54. 0 | 59. 19 | 59. 24 |
| 18 | 55. 20 | 55. 29 | 16 | 56. 2 | 55. 11 | 45 | 56. 40 | 56. 49 | 30 | 57. 36 | 57. 44 | 33. 0 | 58. 32 | 58. 40 | 30 | 59. 19 | 59. 24 |
| 20 | 55. 21 | 55. 30 | 20 | 56. 3 | 56. 12 | 50 | 56. 41 | 56. 50 | 40 | 57. 38 | 57. 46 | 20 | 58. 34 | 58. 41 | 55. 0 | 59. 20 | 59. 25 |
| 22 | 55. 22 | 55. 31 | 22 | 56. 4 | 56. 13 | 55 | 56. 42 | 56. 51 | 30 | 57. 39 | 57. 47 | 40 | 58. 35 | 58. 42 | 30 | 59. 21 | 59. 26 |
| 11. 24 | 55. 23 | 55. 32 | 13. 24 | 56. 4 | 56. 13 | 15. 0 | 56. 43 | 56. 52 | 22. 0 | 57. 40 | 57. 48 | 34. 0 | 58. 36 | 58. 43 | 56. 0 | 59. 22 | 59. 27 |
| 26 | 55. 23 | 55. 32 | 26 | 56. 5 | 56. 14 | 5 | 58. 44 | 56. 53 | 10 | 57. 41 | 57. 49 | 20 | 58. 37 | 58. 44 | 30 | 59. 22 | 59. 27 |
| 28 | 55. 24 | 55. 33 | 28 | 56. 5 | 56. 14 | 10 | 56. 45 | 56. 54 | 20 | 57. 42 | 57. 50 | 40 | 58. 38 | 58. 45 | 57. 0 | 59. 23 | 59. 28 |
| 30 | 56. 25 | 55. 34 | 30 | 58. 6 | 56. 15 | 15 | 56. 46 | 55. 55 | 30 | 57. 44 | 57. 52 | 35. 0 | 58. 39 | 58. 46 | 30 | 59. 23 | 59. 28 |
| 32 | 55. 26 | 55. 35 | 32 | 56. 7 | 58. 16 | 20 | 56. 47 | 56. 56 | 40 | 57. 45 | 57. 53 | 20 | 58. 40 | 58. 47 | 58. 0 | 59. 24 | 59. 99 |
| 34 | 55. 27 | 55. 35 | 34 | 56. 7 | 56. 16 | 25 | 55. 48 | 56. 57 | 50 | 57. 46 | 57. 54 | 40 | 58. 41 | 58. 48 | 30 | 59. 25 | 59. 30 |
| 11. 36 | 55. 27 | 55. 36 | 13. 36 | 56. 8 | 56. 17 | 16. 30 | 56. 49 | 56. 58 | 23. 0 | 57. 47 | 57. 55 | 36. 0 | 58. 42 | 58. 49 | 59. 0 | 59. 26 | 59. 31 |
| 38 | 55. 28 | 56. 37 | 38 | 56. 8 | 56. 17 | 35 | 56. 50 | 56. 59 | 10 | 57. 48 | 57. 56 | 20 | 58. 43 | 58. 50 | 30 | 59. 26 | 59. 31 |
| 40 | 55. 29 | 55. 38 | 40 | 56. 9 | 56. 18 | 40 | 56. 51 | 57. 0 | 20 | 57. 49 | 57. 57 | 40 | 58. 43 | 58. 50 | 60. 0 | 52. 27 | 59. 31 |
| 42 | 55. 30 | 55. 39 | 42 | 56. 10 | 56. 19 | 45 | 56. 52 | 57. 1 | 30 | 57. 50 | 57. 58 | 37. 0 | 58. 44 | 58. 51 | 30 | 59. 27 | 59. 32 |
| 44 | 55. 31 | 55. 40 | 44 | 56. 10 | 56. 19 | 50 | 56. 53 | 57. 2 | 40 | 57. 51 | 57. 59 | 20 | 58. 45 | 58. 52 | 61. 0 | 59. 28 | 59. 32 |
| 46 | 55. 31 | 55. 40 | 46 | 56. 11 | 56. 20 | 55 | 58. 54 | 57. 3 | 50 | 57. 52 | 56. 0 | 40 | 58. 46 | 58. 53 | 30 | 59. 29 | 59. 33 |
| 11. 48 | 55. 32 | 55. 41 | 13. 48 | 56. 11 | 56. 20 | 17. 0 | 56. 55 | 57. 4 | 24. 0 | 57. 53 | 58. 1 | 38. 0 | 58. 47 | 58. 54 | 62. 0 | 59. 30 | 59. 34 |
| 50 | 55. 33 | 55. 42 | 50 | 56. 12 | 56. 21 | 6 | 56. 56 | 57. 5 | 10 | 57. 54 | 58. 2 | 20 | 58. 48 | 58. 55 | 30 | 59. 30 | 59. 34 |
| 52 | 55. 34 | 55. 43 | 52 | 58. 12 | 56. 21 | 10 | 56. 57 | 57. 6 | 20 | 57. 55 | 58. 3 | 40 | 58. 49 | 58. 56 | 63. 0 | 59. 31 | 59. 35 |
| 54 | 55. 35 | 55. 41 | 54 | 56. 13 | 56. 22 | 15 | 56. 58 | 57. 7 | 30 | 57. 56 | 58. 4 | 39. 0 | 58. 50 | 58. 57 | 30 | 59. 31 | 59. 35 |
| 56 | 55. 35 | 56. 44 | 65 | 56. 13 | 56. 22 | 20 | 56. 59 | 57. 8 | 40 | 57. 56 | 58. 4 | 20 | 58. 51 | 58. 58 | 64. 0 | 59. 32 | 59. 36 |
| 58 | 55. 36 | 55. 45 | 58 | 56. 14 | 56. 23 | 25 | 57. 0 | 57. 9 | 50 | 57. 57 | 58. 5 | 40 | 58. 51 | 58. 58 | 30 | 52. 32 | 59. 36 |
| 12. 0 | 55. 37 | 55. 46 | 14. 0 | 56. 14 | 56. 23 | 17. 30 | 57. 1 | 57. 10 | 25. 0 | 57. 58 | 56. 6 | 40. 0 | 58. 52 | 58. 59 | 65. 0 | 59. 33 | 59. 37 |
| 2 | 55. 36 | 55. 47 | 2 | 56. 15 | 56. 24 | 35 | 57. 1 | 57. 10 | 10 | 57. 59 | 58. 7 | 20 | 58. 53 | 59. 0 | 30 | 59. 34 | 59. 38 |
| 4 | 65. 38 | 55. 47 | 4 | 56. 15 | 56. 24 | 40 | 57. 2 | 57. 11 | 20 | 58. 0 | 56. 8 | 40 | 58. 54 | 59. 1 | 66. 0 | 59. 35 | 59. 39 |
| 6 | 55. 39 | 55. 48 | 6 | 56. 16 | 56. 25 | 45 | 57. 3 | 57. 12 | 30 | 58. 1 | 56. 9 | 41. 0 | 58. 55 | 59. 2 | 30 | 59. 35 | 59. 39 |
| 8 | 55. 39 | 55. 48 | 8 | 56. 16 | 56. 25 | 50 | 57. 4 | 57. 13 | 40 | 58. 2 | 56. 10 | 20 | 58. 56 | 59. 3 | 67. 0 | 59. 36 | 59. 40 |
| 10 | 55. 40 | 55. 49 | 10 | 56. 17 | 56. 26 | 55 | 57. 5 | 57. 14 | 50 | 58. 3 | 58. 11 | 40 | 56. 57 | 59. 4 | 30 | 59. 37 | 59. 40 |
| 12. 12 | 55. 41 | 55. 50 | 14. 12 | 56. 10 | 56. 27 | 18. 0 | 57. 6 | 57. 15 | 26. 0 | 58. 4 | 58. 12 | 42. 0 | 58. 57 | 59. 4 | 58 | 59. 37 | 59. 40 |
| 14 | 55. 42 | 55. 51 | 14 | 56. 18 | 56. 27 | 5 | 57. 7 | 57. 16 | 10 | 58. 5 | 58. 13 | 20 | 56. 56 | 59. 5 | 59 | 59. 30 | 59. 41 |
| 16 | 55. 42 | 55. 51 | 16 | 56. 19 | 56. 28 | 10 | 57. 8 | 57. 17 | 20 | 58. 6 | 58. 14 | 40 | 58. 59 | 59. 6 | 70 | 59. 39 | 59. 42 |
| 18 | 55. 43 | 55. 52 | 18 | 58. 19 | 56. 28 | 15 | 57. 9 | 57. 18 | 30 | 56. 7 | 58. 15 | 43. 0 | 58. 59 | 59. 6 | 71 | 59. 40 | 59. 43 |
| 20 | 55. 44 | 55. 63 | 20 | 56. 20 | 56. 29 | 20 | 57. 9 | 57. 18 | 40 | 58. 7 | 58. 15 | 20 | 59. 0 | 59. 7 | 72 | 59. 41 | 59. 44 |
| 22 | 55. 45 | 55. 54 | 22 | 56. 20 | 56. 29 | 25 | 57. 10 | 57. 19 | 50 | 58. 8 | 58. 16 | 40 | 59. 0 | 59. 7 | 73 | 59. 43 | 59. 46 |
| 12. 24 | 55. 45 | 55. 54 | 14. 24 | 56. 21 | 56. 30 | 18. 30 | 57. 11 | 57. 20 | 27. 0 | 58. 9 | 58. 17 | 44. 0 | 59. 1 | 59. 8 | 74 | 59. 44 | 59. 47 |
| 26 | 56. 46 | 55. 55 | 26 | 58. 21 | 56. 30 | 35 | 57. 12 | 57. 21 | 10 | 58. 10 | 56. 18 | 20 | 59. 2 | 59. 8 | 75 | 59. 45 | 59. 47 |
| 28 | 55. 46 | 56. 55 | 28 | 55. 22 | 56. 31 | 40 | 57. 13 | 57. 22 | 20 | 58. 10 | 58. 18 | 40 | 59. 2 | 59. 8 | 76 | 59. 46 | 59. 48 |
| 30 | 55. 47 | 55. 56 | 30 | 56. 22 | 55. 31 | 45 | 57. 14 | 57. 23 | 30 | 56. 11 | 58. 19 | 45. 0 | 59. 3 | 59. 9 | 77 | 59. 47 | 59. 49 |
| 32 | 55. 48 | 55. 57 | 32 | 58. 23 | 56. 32 | 50 | 57. 14 | 57. 23 | 40 | 58. 11 | 58. 19 | 20 | 59. 3 | 59. 9 | 76 | 52. 48 | 59. 50 |
| 34 | 55. 48 | 56. 57 | 34 | 56. 23 | 56. 32 | 55 | 57. 15 | 57. 24 | 56 | 58. 12 | 58. 20 | 40 | 59. 4 | 59. 10 | 79 | 52. 49 | 59. 51 |
| 12. 35 | 55. 49 | 55. 58 | 14. 36 | 56. 24 | 56. 33 | 19. 0 | 57. 16 | 57. 24 | 28. 0 | 58. 13 | 58. 21 | 46. 0 | 59. 5 | 59. 11 | 80 | 59. 50 | 59. 62 |
| 38 | 55. 49 | 55. 58 | 38 | 58. 24 | 56. 33 | 5 | 57. 17 | 57. 25 | 10 | 58. 14 | 58. 22 | 20 | 59. 5 | 59. 11 | 81 | 52. 61 | 59. 52 |
| 40 | 55. 50 | 55. 59 | 40 | 56. 25 | 56. 34 | 10 | 57. 17 | 57. 25 | 20 | 58. 14 | 58. 22 | 40 | 59. 6 | 59. 12 | 82 | 59. 52 | 59. 53 |
| 42 | 55. 51 | 56. 0 | 42 | 56. 25 | 56. 34 | 15 | 57. 18 | 57. 26 | 30 | 56. 15 | 58. 23 | 47. 0 | 59. 7 | 59. 13 | 83 | 59. 53 | 59. 54 |
| 44 | 55. 52 | 56. 1 | 44 | 56. 26 | 56. 35 | 20 | 57. 19 | 57. 27 | 40 | 56. 15 | 58. 23 | 20 | 59. 7 | 59. 13 | 04 | 52. 54 | 59. 55 |
| 46 | 55. 52 | 56. 1 | 45 | 56. 26 | 56. 35 | 25 | 57. 19 | 57. 27 | 50 | 58. 16 | 58. 24 | 40 | 59. 8 | 59. 14 | 85 | 52. 55 | 59. 56 |
| 12. 48 | 55. 53 | 56. 2 | 14. 48 | 56. 27 | 56. 36 | 19. 30 | 57. 20 | 57. 20 | 29. 0 | 56. 17 | 58. 25 | 46. 0 | 59. 9 | 59. 15 | 86 | 59. 56 | 59. 57 |
| 60 | 55. 54 | 56. 3 | 50 | 55. 27 | 56. 36 | 35 | 57. 21 | 57. 29 | 10 | 58. 18 | 50. 26 | 20 | 59. 9 | 59. 15 | 87 | 59. 57 | 59. 68 |
| 52 | 55. 55 | 56. 4 | 52 | 56. 28 | 56. 37 | 40 | 57. 21 | 57. 29 | 20 | 58. 18 | 58. 26 | 40 | 59. 10 | 59. 16 | 88 | 59. 50 | 59. 68 |
| 54 | 55. 55 | 56. 4 | 54 | 56. 28 | 56. 37 | 45 | 57. 22 | 57. 30 | 30 | 58. 19 | 58. 27 | 49. 0 | 59. 10 | 59. 16 | 69 | 59. 59 | 59. 59 |
| 56 | 55. 56 | 56. 5 | 55 | 56. 29 | 56. 30 | 50 | 57 ·23 | 57. 31 | 40 | 58. 20 | 58. 28 | 20 | 59. 11 | 59. 17 | 20 | 68. 0 | 60. 0 |
| 58 | 55. 56 | 56. 5 | 50 | 55. 29 | 56. 38 | 55 | 57. 23 | 57. 31 | 50 | 58. 20 | 58. 28 | 40 | 59. 11 | 59. 17 | | | |

TABLA VIII. Correcciones (*aditivas*) á las alturas aparentes de la Luna.

**Altura aparente de la Luna, 2°**

Paralaje horizontal.

| ′ | 54′ | 55′ | 36′ | 57′ | 38′ | 32′ | 30′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 35. 23 | 36. 23 | 37. 23 | 38, 23 | 39. 23 | 40. 23 | 41. 23 | 42. 23 |
| 2 | 32 | 32 | 32 | 31 | 32 | 32 | 32 | 32 |
| 4 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 5 | 51 | 51 | 51 | 51 | 31 | 31 | 51 | 51 |
| 8 | 38. 0 | 37. 0 | 38. 0 | 39. 8 | 40. 8 | 41. 8 | 42. 0 | 43. 0 |
| 16 | 36. 10 | 37. 10 | 38. 10 | 32. 10 | 40. 9 | 41. 2 | 42. 9 | 43. 9 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 14 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 16 | 36 | 36 | 35 | 35 | 35 | 33 | 36 | 36 |
| 18 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| 20 | 36. 53 | 37. 53 | 38. 53 | 39. 53 | 40. 33 | 41. 53 | 42. 53 | 43. 53 |
| 22 | 37. 1 | 38. 1 | 39. 1 | 46. 1 | 41. 1 | 42. 1 | 43. 1 | 44. 1 |
| 24 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 26 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 28 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 30 | 37. 34 | 38. 33 | 39. 33 | 46. 33 | 41. 33 | 42. 33 | 43. 33 | 44. 33 |
| 32 | 42 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| 34 | 49 | 49 | 46 | 48 | 46 | 48 | 46 | 48 |
| 36 | 37 | 57 | 56 | 56 | 56 | 55 | 35 | 56 |
| 38 | 38. 4 | 39. 4 | 40. 3 | 41. 3 | 42. 3 | 43. 3 | 44. 3 | 45. 3 |
| 40 | 38. 12 | 39. 12 | 40. 11 | 41. 11 | 42. 11 | 43. 11 | 44. 11 | 45. 11 |
| 42 | 19 | 19 | 15 | 18 | 18 | 18 | 18 | 18 |
| 44 | 26 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 46 | 33 | 33 | 32 | 32 | 32 | 32 | 32 | 32 |
| 48 | 40 | 40 | 39 | 39 | 39 | 32 | 39 | 32 |
| 50 | 38. 47 | 39. 47 | 46. 47 | 41. 47 | 42. 47 | 43. 47 | 44. 47 | 45. 47 |
| 52 | 34 | 54 | 54 | 54 | 54 | 54 | 54 | 54 |
| 54 | 32. 0 | 40. 0 | 41. 6 | 42. 0 | 43. 8 | 44. 8 | 45. 0 | 43. 0 |
| 56 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 58 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |

**Altura aparente de la Luna, 5°**

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 39. 21 | 40. 28 | 41. 20 | 42. 26 | 48. 26 | 44. 26 | 43. 20 | 43. 28 |
| 2 | 27 | 25 | 25 | 26 | 23 | 23 | 26 | 25 |
| 4 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| 3 | 46 | 39 | 32 | 39 | 39 | 32 | 32 | 32 |
| 8 | 46 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| 10 | 32. 52 | 46. 52 | 41. 52 | 42. 52 | 43. 51 | 44. 51 | 45. 51 | 46. 51 |
| 12 | 56 | 53 | 36 | 58 | 37 | 37 | 37 | 57 |
| 14 | 40. 4 | 41. 4 | 42. 4 | 43. 4 | 44. 3 | 43. 3 | 46. 3 | 47. 3 |
| 16 | 16 | 18 | 10 | 10 | 2 | 2 | 8 | 2 |
| 18 | 16 | 13 | 16 | 16 | 15 | 15 | 15 | 15 |
| 20 | 40. 21 | 41. 21 | 42. 21 | 43. 21 | 44. 21 | 45. 21 | 43. 21 | 47. 20 |
| 12 | 26 | 23 | 26 | 26 | 26 | 25 | 26 | 25 |
| 24 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 31 |
| 25 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 36 |
| 28 | 43 | 48 | 48 | 48 | 43 | 43 | 43 | 42 |
| 30 | 40. 42 | 41. 49 | 42. 49 | 43. 46 | 44. 48 | 45. 46 | 46. 48 | 47. 48 |
| 32 | 54 | 54 | 34 | 33 | 53 | 53 | 33 | 53 |
| 34 | 39 | 52 | 39 | 58 | 58 | 58 | 56 | 58 |
| 35 | 41. 5 | 42. 3 | 43. 5 | 44. 4 | 45. 4 | 46. 4 | 47. 4 | 48. 4 |
| 33 | 10 | 18 | 16 | 9 | 2 | 9 | 8 | 2 |
| 40 | 41. 15 | 42. 14 | 43. 14 | 44. 14 | 45. 14 | 46. 14 | 47. 14 | 46. 14 |
| 42 | 20 | 12 | 19 | 12 | 19 | 19 | 12 | 19 |
| 44 | 25 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 45 | 30 | 22 | 29 | 29 | 29 | 29 | 29 | 29 |
| 43 | 35 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| 50 | 41. 39 | 42. 39 | 43. 39 | 44. 32 | 43. 38 | 46. 36 | 47. 38 | 48. 38 |
| 52 | 44 | 44 | 44 | 44 | 43 | 43 | 43 | 43 |
| 54 | 48 | 48 | 48 | 48 | 47 | 47 | 47 | 47 |
| 56 | 53 | 33 | 33 | 38 | 32 | 32 | 32 | 32 |
| 58 | 37 | 57 | 57 | 37 | 36 | 56 | 56 | 36 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 2 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 12 |
| 20 | 26 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 25 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 36 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 33 | 35 |
| 37 | 37 |
| 38 | 38 |
| 39 | 32 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 45 |
| 47 | 47 |
| 48 | 48 |
| 49 | 42 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 55 |
| 57 | 57 |
| 58 | 50 |
| 59 | 58 |

**Altura aparente de la Luna, 4°**

Paralaje horizontal.

| ′ | 54′ | 35′ | 36′ | 37′ | 58′ | 52′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 42. 2 | 43. 2 | 44. 2 | 45. 1 | 46. 1 | 47. 1 | 40. 1 | 42. 1 |
| 2 | 5 | 5 | 5 | 5 | 3 | 5 | 3 | 5 |
| 4 | 11 | 11 | 11 | 10 | 10 | 10 | 16 | 10 |
| 5 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 |
| 8 | 12 | 12 | 12 | 18 | 18 | 18 | 18 | 18 |
| 10 | 42. 24 | 43. 23 | 44. 23 | 45. 23 | 43. 23 | 47. 23 | 46. 23 | 42. 22 |
| 12 | 28 | 27 | 27 | 27 | 27 | 27 | 27 | 26 |
| 14 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 30 |
| 16 | 36 | 35 | 35 | 35 | 35 | 35 | 35 | 34 |
| 18 | 40 | 39 | 32 | 32 | 32 | 39 | 39 | 38 |
| 20 | 42. 44 | 43. 44 | 44. 44 | 45. 43 | 43. 43 | 47. 43 | 46. 43 | 48. 43 |
| 22 | 48 | 48 | 48 | 47 | 47 | 47 | 47 | 47 |
| 24 | 52 | 52 | 52 | 51 | 51 | 51 | 51 | 31 |
| 28 | 55 | 55 | 55 | 54 | 54 | 54 | 54 | 35 |
| 28 | 59 | 59 | 52 | 58 | 58 | 58 | 53 | 52 |
| 30 | 43. 3 | 44. 3 | 43. 3 | 43. 3 | 47. 2 | 48. 2 | 42. 2 | 54. 3 |
| 32 | 7 | 7 | 7 | 7 | 5 | 3 | 6 | 6 |
| 34 | 18 | 18 | 18 | 16 | 16 | 2 | 8 | 2 |
| 36 | 14 | 14 | 14 | 14 | 13 | 13 | 18 | 13 |
| 38 | 17 | 17 | 17 | 17 | 17 | 15 | 16 | 16 |
| 40 | 43. 21 | 44. 21 | 45. 21 | 45. 21 | 47. 21 | 48. 20 | 49. 26 | 50. 20 |
| 42 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 23 |
| 44 | 28 | 28 | 28 | 28 | 28 | 27 | 27 | 27 |
| 46 | 31 | 31 | 31 | 31 | 31 | 30 | 36 | 30 |
| 48 | 35 | 35 | 35 | 35 | 35 | 34 | 34 | 34 |
| 50 | 43. 39 | 44. 38 | 45. 38 | 46. 38 | 47. 38 | 46. 37 | 49. 37 | 58. 37 |
| 52 | 42 | 41 | 41 | 41 | 41 | 40 | 40 | 40 |
| 54 | 45 | 44 | 44 | 44 | 44 | 43 | 43 | 43 |
| 56 | 49 | 48 | 46 | 48 | 48 | 47 | 47 | 47 |
| 58 | 52 | 51 | 51 | 51 | 51 | 50 | 56 | 50 |

**Altura aparente de la Luna, 5°**

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 43. 55 | 44. 54 | 43. 34 | 43. 54 | 47. 54 | 43. 54 | 48. 53 | 50. 53 |
| 2 | 58 | 57 | 37 | 57 | 57 | 37 | 55 | 56 |
| 4 | 44. 1 | 43. 8 | 46. 8 | 47. 0 | 48. 8 | 49. 0 | 59 | 59 |
| 6 | 4 | 3 | 3 | 3 | 3 | 3 | 36. 2 | 51. 2 |
| 6 | 7 | 3 | 6 | 6 | 3 | 6 | 3 | 5 |
| 16 | 44. 10 | 45. 16 | 43. 16 | 47. 9 | 46. 2 | 42. 9 | 50. 2 | 51. 8 |
| 12 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 11 |
| 14 | 16 | 13 | 16 | 15 | 15 | 15 | 15 | 14 |
| 16 | 12 | 19 | 12 | 18 | 10 | 18 | 18 | 17 |
| 18 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 20 |
| 20 | 44. 25 | 45. 24 | 46. 24 | 47. 24 | 48. 24 | 49. 23 | 50. 23 | 51. 23 |
| 22 | 28 | 27 | 27 | 27 | 27 | 26 | 23 | 26 |
| 24 | 30 | 29 | 29 | 29 | 22 | 28 | 20 | 28 |
| 26 | 33 | 32 | 32 | 32 | 32 | 31 | 31 | 31 |
| 28 | 36 | 35 | 35 | 35 | 35 | 34 | 34 | 34 |
| 30 | 44. 38 | 45. 38 | 46. 38 | 47. 38 | 48. 37 | 49. 37 | 50. 37 | 51. 36 |
| 32 | 41 | 41 | 41 | 41 | 48 | 46 | 48 | 39 |
| 34 | 43 | 43 | 43 | 43 | 42 | 42 | 42 | 41 |
| 36 | 46 | 43 | 43 | 46 | 45 | 45 | 45 | 44 |
| 38 | 42 | 49 | 49 | 42 | 46 | 43 | 43 | 47 |
| 46 | 44. 51 | 45. 51 | 43. 51 | 47. 51 | 48. 56 | 49. 50 | 50. 58 | 51. 49 |
| 42 | 53 | 33 | 53 | 33 | 32 | 52 | 52 | 31 |
| 44 | 56 | 56 | 56 | 36 | 53 | 55 | 55 | 54 |
| 45 | 58 | 58 | 58 | 58 | 57 | 57 | 57 | 56 |
| 48 | 45. 1 | 43. 1 | 47. 1 | 48. 1 | 49. 0 | 30. 8 | 51. 0 | 59 |
| 58 | 45. 4 | 46. 3 | 47. 3 | 46. 3 | 48. 3 | 50. 2 | 31. 2 | 52. 2 |
| 52 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 54 | 9 | 8 | 8 | 8 | 8 | 7 | 7 | 7 |
| 58 | 11 | 16 | 10 | 10 | 18 | 9 | 9 | 9 |
| 58 | 13 | 12 | 12 | 12 | 12 | 11 | 11 | 11 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
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| 6 | 3 |
| 7 | 7 |
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| 14 | 14 |
| 15 | 15 |
| 16 | 15 |
| 17 | 17 |
| 18 | 18 |
| 19 | 12 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 23 |
| 27 | 27 |
| 28 | 23 |
| 29 | 22 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 35 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 48 | 48 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 42 |
| 50 | 58 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 58 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

## Altura aparente de la Luna, 2°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 0.16 | 0.18 | 0.19 | 0.21 | 0.22 | 0.24 | 0.26 | 0.27 |
| 2 | 17 | 19 | 20 | 22 | 23 | 25 | 27 | 28 |
| 4 | 18 | 20 | 21 | 23 | 24 | 26 | 28 | 29 |
| 6 | 19 | 21 | 22 | 24 | 26 | 28 | 30 | 31 |
| 8 | 20 | 22 | 23 | 25 | 27 | 29 | 31 | 32 |
| 10 | 0.21 | 0.23 | 0.24 | 0.26 | 0.28 | 0.30 | 0.32 | 0.33 |
| 12 | 22 | 24 | 25 | 27 | 29 | 31 | 33 | 34 |
| 14 | 23 | 25 | 26 | 28 | 30 | 32 | 34 | 35 |
| 16 | 24 | 26 | 28 | 30 | 31 | 33 | 35 | 37 |
| 18 | 25 | 27 | 29 | 31 | 32 | 34 | 36 | 38 |
| 20 | 0.26 | 0.28 | 0.30 | 0.32 | 0.33 | 0.35 | 0.37 | 0.39 |
| 22 | 27 | 29 | 31 | 33 | 34 | 36 | 38 | 40 |
| 24 | 28 | 30 | 32 | 34 | 35 | 37 | 39 | 41 |
| 26 | 29 | 31 | 33 | 35 | 37 | 39 | 41 | 43 |
| 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
| 30 | 0.31 | 0.33 | 0.35 | 0.37 | 0.39 | 0.41 | 0.43 | 0.45 |
| 32 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
| 34 | 33 | 35 | 37 | 39 | 41 | 43 | 45 | 47 |
| 36 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| 38 | 35 | 37 | 39 | 41 | 43 | 45 | 47 | 49 |
| 40 | 0.36 | 0.38 | 0.40 | 0.42 | 0.44 | 0.46 | 0.48 | 0.50 |
| 42 | 37 | 39 | 41 | 43 | 45 | 47 | 49 | 51 |
| 44 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 |
| 46 | 39 | 41 | 44 | 46 | 48 | 50 | 52 | 54 |
| 48 | 40 | 42 | 45 | 47 | 49 | 51 | 53 | 55 |
| 50 | 0.41 | 0.43 | 0.46 | 0.48 | 0.50 | 0.52 | 0.54 | 0.56 |
| 52 | 42 | 44 | 47 | 49 | 51 | 53 | 55 | 57 |
| 54 | 43 | 45 | 48 | 50 | 52 | 54 | 56 | 58 |
| 56 | 44 | 47 | 49 | 51 | 53 | 55 | 58 | 1. 0 |
| 58 | 45 | 48 | 50 | 52 | 54 | 56 | 59 | 1 |

## Altura aparente de la Luna, 3°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 0.46 | 0.49 | 0.51 | 0.53 | 0.55 | 0.57 | 1. 0 | 1. 2 |
| 2 | 47 | 50 | 52 | 54 | 56 | 58 | 1 | 3 |
| 4 | 48 | 51 | 53 | 55 | 57 | 59 | 2 | 4 |
| 6 | 49 | 52 | 55 | 57 | 59 | 1. 1 | 4 | 6 |
| 8 | 50 | 53 | 56 | 58 | 1. 0 | 2 | 5 | 7 |
| 10 | 0.51 | 0.54 | 0.57 | 0.59 | 1. 1 | 1. 3 | 1. 6 | 1. 8 |
| 12 | 52 | 55 | 58 | 1. 0 | 2 | 4 | 7 | 9 |
| 14 | 53 | 56 | 59 | 1 | 3 | 5 | 8 | 10 |
| 16 | 55 | 58 | 1. 0 | 2 | 4 | 7 | 10 | 12 |
| 18 | 56 | 59 | 1 | 3 | 5 | 8 | 11 | 13 |
| 20 | 0.57 | 1. 0 | 1. 2 | 1. 4 | 1. 6 | 1. 9 | 1.12 | 1.14 |
| 22 | 58 | 1 | 3 | 5 | 7 | 10 | 13 | 15 |
| 24 | 59 | 2 | 4 | 6 | 8 | 11 | 14 | 16 |
| 26 | 1. 0 | 3 | 6 | 8 | 10 | 13 | 16 | 18 |
| 28 | 1 | 4 | 7 | 9 | 11 | 14 | 17 | 19 |
| 30 | 1. 2 | 1. 5 | 1. 8 | 1.10 | 1.12 | 1.15 | 1.18 | 1.20 |
| 32 | 3 | 6 | 9 | 11 | 13 | 16 | 19 | 21 |
| 34 | 4 | 7 | 10 | 12 | 14 | 17 | 20 | 22 |
| 36 | 5 | 8 | 11 | 13 | 16 | 18 | 21 | 24 |
| 38 | 6 | 9 | 12 | 14 | 17 | 19 | 22 | 25 |
| 40 | 1. 7 | 1.10 | 1.13 | 1.15 | 1.18 | 1.20 | 1.23 | 1.26 |
| 42 | 8 | 11 | 14 | 16 | 19 | 21 | 24 | 27 |
| 44 | 9 | 12 | 15 | 17 | 20 | 22 | 25 | 28 |
| 46 | 11 | 14 | 17 | 19 | 21 | 24 | 27 | 30 |
| 48 | 12 | 15 | 18 | 20 | 22 | 25 | 28 | 31 |
| 50 | 1.13 | 1.16 | 1.19 | 1.21 | 1.23 | 1.26 | 1.29 | 1.32 |
| 52 | 14 | 17 | 20 | 22 | 24 | 27 | 30 | 33 |
| 54 | 15 | 18 | 21 | 23 | 25 | 28 | 31 | 34 |
| 56 | 16 | 19 | 22 | 24 | 27 | 30 | 33 | 36 |
| 58 | 17 | 20 | 23 | 25 | 28 | 31 | 34 | 37 |

Correcion por la altura de Sol ó Estrella. *Adit.*

| ☉ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 90 | 5 |

| * ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

Partes propor. por los segund. de la paralaje. *Adit.* (2° y 3°)

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 1 |
| 16 | 1 |
| 17 | 1 |
| 18 | 1 |
| 19 | 1 |
| 20 | 1 |
| 21 | 1 |
| 22 | 1 |
| 23 | 1 |
| 24 | 1 |
| 25 | 1 |
| 26 | 1 |
| 27 | 1 |
| 28 | 1 |
| 29 | 1 |
| 30 | 1 |
| 31 | 1 |
| 32 | 1 |
| 33 | 1 |
| 34 | 1 |
| 35 | 1 |
| 36 | 1 |
| 37 | 1 |
| 38 | 1 |
| 39 | 1 |
| 40 | 1 |
| 41 | 1 |
| 42 | 1 |
| 43 | 1 |
| 44 | 1 |
| 45 | 2 |
| 46 | 2 |
| 47 | 2 |
| 48 | 2 |
| 49 | 2 |
| 50 | 2 |
| 51 | 2 |
| 52 | 2 |
| 53 | 2 |
| 54 | 2 |
| 55 | 2 |
| 56 | 2 |
| 57 | 2 |
| 58 | 2 |
| 59 | 2 |

## Altura aparente de la Luna, 4°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 1.18 | 1.21 | 1.24 | 1.26 | 1.29 | 1.32 | 1.35 | 1.38 |
| 2 | 19 | 22 | 25 | 27 | 30 | 33 | 36 | 39 |
| 4 | 20 | 23 | 26 | 28 | 31 | 34 | 37 | 40 |
| 6 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 |
| 8 | 22 | 25 | 28 | 31 | 34 | 37 | 40 | 43 |
| 10 | 1.23 | 1.26 | 1.29 | 1.32 | 1.35 | 1.38 | 1.41 | 1.44 |
| 12 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
| 14 | 25 | 28 | 31 | 34 | 37 | 40 | 43 | 46 |
| 16 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
| 18 | 28 | 31 | 34 | 37 | 40 | 43 | 46 | 49 |
| 20 | 1.29 | 1.32 | 1.35 | 1.38 | 1.41 | 1.44 | 1.47 | 1.50 |
| 22 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 |
| 24 | 31 | 34 | 37 | 40 | 43 | 46 | 49 | 52 |
| 26 | 32 | 35 | 38 | 41 | 45 | 48 | 51 | 54 |
| 28 | 33 | 36 | 39 | 42 | 46 | 49 | 52 | 55 |
| 30 | 1.34 | 1.37 | 1.40 | 1.43 | 1.47 | 1.50 | 1.53 | 1.56 |
| 32 | 35 | 38 | 41 | 44 | 48 | 51 | 54 | 57 |
| 34 | 36 | 39 | 42 | 45 | 49 | 52 | 55 | 58 |
| 36 | 37 | 40 | 44 | 47 | 50 | 53 | 57 | 2. 0 |
| 38 | 38 | 41 | 45 | 48 | 51 | 54 | 58 | 1 |
| 40 | 1.39 | 1.42 | 1.46 | 1.49 | 1.52 | 1.55 | 1.59 | 2. 2 |
| 42 | 40 | 43 | 47 | 50 | 53 | 56 | 2. 0 | 3 |
| 44 | 41 | 44 | 48 | 51 | 54 | 57 | 1 | 4 |
| 46 | 43 | 46 | 49 | 52 | 56 | 59 | 3 | 6 |
| 48 | 44 | 47 | 50 | 53 | 57 | 2. 0 | 4 | 7 |
| 50 | 1.45 | 1.48 | 1.51 | 1.54 | 1.58 | 2. 1 | 2. 5 | 2. 8 |
| 52 | 46 | 49 | 52 | 55 | 59 | 2 | 6 | 9 |
| 54 | 47 | 50 | 53 | 56 | 2. 0 | 3 | 7 | 10 |
| 56 | 48 | 51 | 55 | 58 | 2 | 5 | 9 | 12 |
| 58 | 49 | 52 | 56 | 59 | 3 | 6 | 10 | 13 |

## Altura aparente de la Luna, 5°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 1.50 | 1.53 | 1.57 | 2. 0 | 2. 4 | 2. 7 | 2.11 | 2.14 |
| 2 | 51 | 54 | 58 | 1 | 5 | 8 | 12 | 15 |
| 4 | 52 | 55 | 59 | 2 | 6 | 9 | 13 | 16 |
| 6 | 53 | 57 | 2. 1 | 4 | 8 | 11 | 15 | 18 |
| 8 | 54 | 58 | 2 | 5 | 9 | 12 | 16 | 19 |
| 10 | 1.55 | 1.59 | 2. 3 | 2. 6 | 2.10 | 2.13 | 2.17 | 2.20 |
| 12 | 56 | 2. 0 | 4 | 7 | 11 | 14 | 18 | 21 |
| 14 | 57 | 1 | 5 | 8 | 12 | 15 | 19 | 22 |
| 16 | 59 | 2 | 6 | 10 | 14 | 17 | 21 | 24 |
| 18 | 2. 0 | 3 | 7 | 11 | 15 | 18 | 22 | 25 |
| 20 | 2. 1 | 2. 4 | 2. 8 | 2.12 | 2.16 | 2.19 | 2.23 | 2.26 |
| 22 | 2 | 5 | 9 | 13 | 17 | 20 | 24 | 27 |
| 24 | 3 | 6 | 10 | 14 | 18 | 21 | 25 | 29 |
| 26 | 4 | 8 | 12 | 16 | 20 | 23 | 27 | 30 |
| 28 | 5 | 9 | 13 | 17 | 21 | 24 | 28 | 32 |
| 30 | 2. 6 | 2.10 | 2.14 | 2.18 | 2.22 | 2.25 | 2.29 | 2.33 |
| 32 | 7 | 11 | 15 | 19 | 23 | 26 | 30 | 34 |
| 34 | 8 | 12 | 16 | 20 | 24 | 27 | 31 | 35 |
| 36 | 9 | 13 | 17 | 21 | 25 | 29 | 33 | 37 |
| 38 | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 |
| 40 | 2.11 | 2.15 | 2.19 | 2.23 | 2.27 | 2.31 | 2.35 | 2.39 |
| 42 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 44 | 13 | 17 | 21 | 25 | 29 | 33 | 37 | 41 |
| 46 | 15 | 19 | 23 | 26 | 30 | 34 | 39 | 43 |
| 48 | 16 | 20 | 24 | 27 | 31 | 35 | 40 | 44 |
| 50 | 2.17 | 2.21 | 2.25 | 2.28 | 2.32 | 2.36 | 2.41 | 2.45 |
| 52 | 18 | 22 | 26 | 29 | 33 | 37 | 42 | 46 |
| 54 | 19 | 23 | 27 | 30 | 34 | 38 | 43 | 47 |
| 56 | 20 | 24 | 28 | 32 | 36 | 40 | 45 | 49 |
| 58 | 21 | 25 | 29 | 33 | 37 | 41 | 46 | 50 |

Partes propor. por los segund. de la paralaje. *Adit.* (4° y 5°)

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 1 |
| 10 | 1 |
| 11 | 1 |
| 12 | 1 |
| 13 | 1 |
| 14 | 1 |
| 15 | 1 |
| 16 | 1 |
| 17 | 1 |
| 18 | 1 |
| 19 | 1 |
| 20 | 1 |
| 21 | 1 |
| 22 | 1 |
| 23 | 1 |
| 24 | 1 |
| 25 | 1 |
| 26 | 2 |
| 27 | 2 |
| 28 | 2 |
| 29 | 2 |
| 30 | 2 |
| 31 | 2 |
| 32 | 2 |
| 33 | 2 |
| 34 | 2 |
| 35 | 2 |
| 36 | 2 |
| 37 | 2 |
| 38 | 2 |
| 39 | 2 |
| 40 | 2 |
| 41 | 2 |
| 42 | 2 |
| 43 | 3 |
| 44 | 3 |
| 45 | 3 |
| 46 | 3 |
| 47 | 3 |
| 48 | 3 |
| 49 | 3 |
| 50 | 3 |
| 51 | 3 |
| 52 | 3 |
| 53 | 3 |
| 54 | 3 |
| 55 | 3 |
| 56 | 3 |
| 57 | 3 |
| 58 | 3 |
| 59 | 3 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

**Altura aparente de la Luna, 6°**

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 45. 16 | 46. 15 | 47. 15 | 48. 15 | 49. 14 | 50. 14 | 51. 14 | 52. 13 |
| 2 | 18 | 17 | 17 | 17 | 15 | 15 | 15 | 15 |
| 4 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 17 |
| 6 | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 20 |
| 8 | 25 | 24 | 24 | 24 | 23 | 23 | 23 | 22 |
| 10 | 45. 27 | 46. 25 | 47. 25 | 48. 25 | 43. 25 | 50. 25 | 51. 25 | 52. 24 |
| 12 | 29 | 28 | 28 | 28 | 27 | 27 | 27 | 26 |
| 14 | 31 | 30 | 30 | 30 | 29 | 29 | 29 | 28 |
| 16 | 33 | 33 | 33 | 32 | 32 | 31 | 31 | 31 |
| 18 | 35 | 35 | 35 | 34 | 34 | 33 | 33 | 33 |
| 20 | 45. 37 | 45. 37 | 47. 37 | 48. 36 | 49. 36 | 50. 35 | 51. 35 | 52. 35 |
| 22 | 39 | 39 | 39 | 38 | 38 | 37 | 37 | 37 |
| 24 | 41 | 41 | 41 | 40 | 40 | 39 | 39 | 39 |
| 25 | 43 | 43 | 43 | 42 | 42 | 41 | 41 | 41 |
| 28 | 45 | 45 | 45 | 44 | 44 | 43 | 43 | 43 |
| 30 | 45. 47 | 46. 47 | 47. 47 | 48. 45 | 49. 45 | 50. 45 | 51. 45 | 52. 45 |
| 32 | 49 | 49 | 49 | 48 | 48 | 47 | 47 | 47 |
| 34 | 51 | 51 | 51 | 50 | 50 | 42 | 49 | 49 |
| 36 | 53 | 53 | 53 | 52 | 51 | 51 | 51 | 50 |
| 38 | 55 | 55 | 55 | 54 | 53 | 53 | 53 | 52 |
| 40 | 45. 57 | 46. 57 | 47. 56 | 48. 56 | 49. 55 | 50. 55 | 51. 55 | 52. 51 |
| 42 | 59 | 59 | 58 | 58 | 57 | 57 | 57 | 55 |
| 44 | 46. 1 | 47. 1 | 48. 0 | 49. 0 | 59 | 59 | 59 | 58 |
| 45 | 2 | 2 | 1 | 1 | 50. 0 | 51. 0 | 52. 0 | 59 |
| 48 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 53. 1 |
| 50 | 46. 6 | 47. 5 | 48. 5 | 49. 5 | 50. 4 | 51. 4 | 52. 4 | 53. 3 |
| 52 | 8 | 8 | 7 | 7 | 6 | 5 | 6 | 5 |
| 54 | 10 | 2 | 9 | 8 | 8 | 8 | 7 | 7 |
| 56 | 11 | 11 | 10 | 10 | 2 | 2 | 9 | 8 |
| 58 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 10 |

**Altura aparente de la Luna, 7°**

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 46. 15 | 47. 14 | 48. 14 | 49. 13 | 50. 13 | 51. 13 | 52. 12 | 53. 12 |
| 2 | 17 | 16 | 16 | 15 | 15 | 15 | 14 | 14 |
| 4 | 18 | 17 | 17 | 16 | 15 | 15 | 15 | 15 |
| 6 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 |
| 8 | 21 | 20 | 20 | 19 | 19 | 19 | 18 | 18 |
| 10 | 45. 23 | 47. 22 | 48. 22 | 42. 21 | 50. 21 | 51. 21 | 52. 20 | 53. 20 |
| 12 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 21 |
| 14 | 26 | 25 | 25 | 24 | 24 | 24 | 23 | 23 |
| 16 | 28 | 27 | 27 | 25 | 26 | 25 | 25 | 24 |
| 18 | 29 | 28 | 28 | 27 | 27 | 27 | 25 | 25 |
| 20 | 46. 31 | 47. 30 | 48. 30 | 42. 29 | 50. 29 | 51. 28 | 52. 28 | 53. 27 |
| 22 | 32 | 32 | 31 | 31 | 30 | 30 | 29 | 29 |
| 24 | 34 | 33 | 33 | 32 | 32 | 31 | 31 | 30 |
| 26 | 35 | 35 | 34 | 34 | 33 | 33 | 32 | 32 |
| 28 | 37 | 36 | 36 | 35 | 35 | 34 | 34 | 33 |
| 30 | 45. 38 | 47. 38 | 48. 37 | 49. 37 | 50. 35 | 51. 36 | 52. 35 | 53. 35 |
| 32 | 39 | 39 | 38 | 36 | 37 | 37 | 35 | 36 |
| 34 | 41 | 41 | 40 | 40 | 39 | 39 | 38 | 38 |
| 36 | 42 | 42 | 41 | 41 | 40 | 40 | 39 | 39 |
| 38 | 44 | 44 | 43 | 43 | 42 | 42 | 41 | 41 |
| 40 | 45. 45 | 47. 45 | 48. 44 | 49. 44 | 50. 43 | 51. 43 | 52. 42 | 35. 42 |
| 42 | 46 | 45 | 45 | 45 | 44 | 44 | 43 | 43 |
| 44 | 48 | 48 | 47 | 47 | 45 | 45 | 45 | 44 |
| 46 | 49 | 49 | 48 | 48 | 47 | 47 | 45 | 46 |
| 48 | 51 | 51 | 50 | 50 | 42 | 48 | 48 | 47 |
| 50 | 46. 52 | 47. 52 | 48. 51 | 49. 51 | 50. 50 | 51. 49 | 52. 42 | 53. 48 |
| 52 | 53 | 53 | 52 | 52 | 51 | 50 | 50 | 49 |
| 54 | 55 | 54 | 53 | 53 | 52 | 52 | 51 | 51 |
| 55 | 56 | 55 | 54 | 55 | 54 | 53 | 53 | 53 |
| 58 | 58 | 57 | 56 | 56 | 55 | 55 | 54 | 54 |

**Partes propor. por los segund. de la paralaje — Adit.**

| ″ ″ |
|---|
| 1– 1 |
| 2– 2 |
| 3– 3 |
| 4– 4 |
| 5– 5 |
| 6– 6 |
| 7– 7 |
| 8– 8 |
| 9– 9 |
| 10–10 |
| 11–11 |
| 12–12 |
| 13–13 |
| 14–14 |
| 15–15 |
| 16–16 |
| 17–17 |
| 18–18 |
| 19–19 |
| 20–20 |
| 21–21 |
| 22–22 |
| 23–23 |
| 24–24 |
| 25–25 |
| 26–26 |
| 27–27 |
| 28–28 |
| 29–29 |
| 30–30 |
| 31–31 |
| 32–32 |
| 33–33 |
| 34–34 |
| 35–35 |
| 36–35 |
| 37–37 |
| 38–38 |
| 39–39 |
| 40–40 |
| 41–41 |
| 42–42 |
| 43–43 |
| 44–44 |
| 45–45 |
| 46–46 |
| 47–47 |
| 48–48 |
| 49–49 |
| 50–50 |
| 51–51 |
| 52–52 |
| 53–53 |
| 54–54 |
| 55–55 |
| 56–56 |
| 57–57 |
| 58–58 |
| 59–59 |

**Altura aparente de la Luna, 8°**

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 50′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 46. 59 | 47. 58 | 48. 58 | 49. 57 | 50. 55 | 51. 55 | 52. 55 | 53. 55 |
| 2 | 47. 0 | 59 | 59 | 58 | 57 | 57 | 55 | 56 |
| 4 | 1 | 48. 0 | 49. 0 | 59 | 58 | 58 | 57 | 57 |
| 5 | 3 | 2 | 2 | 50. 1 | 51. 0 | 52. 0 | 59 | 59 |
| 8 | 4 | 3 | 3 | 2 | 1 | 1 | 53. 0 | 54. 0 |
| 10 | 47. 5 | 48. 4 | 49. 4 | 50. 3 | 51. 2 | 52. 2 | 53. 1 | 54. 1 |
| 12 | 6 | 5 | 5 | 4 | 3 | 3 | 2 | 2 |
| 14 | 7 | 5 | 5 | 5 | 4 | 4 | 3 | 3 |
| 16 | 9 | 8 | 7 | 7 | 6 | 5 | 5 | 4 |
| 18 | 10 | 9 | 8 | 8 | 7 | 7 | 5 | 5 |
| 20 | 47. 11 | 48. 10 | 49. 9 | 50. 9 | 51. 8 | 52. 8 | 53. 7 | 54. 6 |
| 22 | 12 | 11 | 10 | 10 | 9 | 9 | 8 | 7 |
| 24 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 8 |
| 26 | 14 | 14 | 13 | 12 | 12 | 11 | 10 | 10 |
| 28 | 15 | 15 | 14 | 13 | 13 | 12 | 11 | 11 |
| 30 | 47. 15 | 48. 16 | 49. 15 | 50. 14 | 51. 14 | 52. 13 | 53. 12 | 54. 12 |
| 32 | 17 | 17 | 15 | 15 | 15 | 14 | 13 | 13 |
| 34 | 18 | 18 | 17 | 16 | 15 | 15 | 14 | 14 |
| 36 | 20 | 12 | 18 | 18 | 17 | 15 | 15 | 15 |
| 38 | 21 | 20 | 19 | 19 | 18 | 17 | 16 | 15 |
| 40 | 47. 22 | 48. 21 | 49. 20 | 50. 20 | 51. 12 | 52. 18 | 53. 17 | 54. 17 |
| 42 | 23 | 22 | 21 | 21 | 20 | 19 | 18 | 18 |
| 44 | 24 | 23 | 22 | 22 | 21 | 20 | 19 | 19 |
| 46 | 25 | 24 | 23 | 23 | 22 | 21 | 20 | 20 |
| 48 | 25 | 25 | 24 | 24 | 23 | 22 | 21 | 21 |
| 50 | 47. 27 | 48. 26 | 42. 25 | 50. 25 | 51. 24 | 52. 23 | 53. 22 | 54. 22 |
| 52 | 28 | 27 | 26 | 25 | 25 | 24 | 23 | 23 |
| 54 | 29 | 28 | 27 | 27 | 26 | 25 | 24 | 24 |
| 55 | 29 | 29 | 28 | 27 | 27 | 25 | 25 | 24 |
| 58 | 30 | 30 | 29 | 28 | 28 | 27 | 25 | 25 |

**Altura aparente de la Luna, 9°**

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 47. 31 | 48. 31 | 49. 30 | 50. 29 | 51. 29 | 52. 28 | 53. 27 | 54. 25 |
| 2 | 32 | 32 | 31 | 30 | 30 | 29 | 28 | 27 |
| 4 | 33 | 33 | 32 | 31 | 31 | 30 | 29 | 28 |
| 6 | 34 | 33 | 33 | 32 | 31 | 30 | 30 | 29 |
| 8 | 35 | 34 | 34 | 33 | 32 | 31 | 30 | 30 |
| 10 | 47. 36 | 48. 35 | 49. 35 | 50. 34 | 51. 33 | 52. 32 | 53. 31 | 54. 31 |
| 12 | 37 | 35 | 35 | 35 | 34 | 33 | 32 | 32 |
| 14 | 38 | 37 | 37 | 35 | 35 | 34 | 33 | 33 |
| 16 | 38 | 38 | 37 | 36 | 35 | 34 | 34 | 33 |
| 18 | 39 | 39 | 38 | 37 | 36 | 35 | 35 | 34 |
| 20 | 47. 40 | 48. 40 | 49. 39 | 50. 38 | 51. 37 | 52. 35 | 53. 35 | 54. 35 |
| 22 | 41 | 41 | 40 | 39 | 38 | 37 | 37 | 36 |
| 24 | 42 | 42 | 41 | 40 | 39 | 38 | 38 | 37 |
| 26 | 43 | 42 | 41 | 40 | 39 | 38 | 38 | 37 |
| 28 | 44 | 43 | 42 | 41 | 40 | 39 | 39 | 38 |
| 30 | 47. 45 | 48. 44 | 49. 43 | 50. 42 | 51. 41 | 52. 40 | 53. 40 | 54. 39 |
| 32 | 46 | 45 | 44 | 43 | 42 | 41 | 41 | 40 |
| 34 | 45 | 45 | 45 | 44 | 43 | 42 | 41 | 41 |
| 35 | 47 | 46 | 45 | 44 | 43 | 42 | 42 | 41 |
| 38 | 47 | 46 | 46 | 45 | 44 | 43 | 42 | 42 |
| 40 | 47. 48 | 46. 47 | 49. 47 | 50. 46 | 51. 45 | 52. 44 | 53. 43 | 54. 43 |
| 42 | 49 | 48 | 48 | 47 | 45 | 45 | 44 | 44 |
| 44 | 50 | 49 | 48 | 48 | 47 | 46 | 45 | 44 |
| 46 | 50 | 49 | 49 | 48 | 47 | 45 | 45 | 45 |
| 48 | 51 | 50 | 49 | 49 | 48 | 47 | 45 | 45 |
| 50 | 47. 52 | 48. 51 | 49. 50 | 50. 50 | 51. 49 | 52. 48 | 53. 47 | 54. 46 |
| 52 | 53 | 52 | 51 | 51 | 50 | 49 | 48 | 47 |
| 54 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 |
| 56 | 54 | 53 | 52 | 52 | 51 | 50 | 49 | 48 |
| 58 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 |

**Partes propor. por los segund. de la paralaje — Adit.**

| ″ ″ |
|---|
| 1– 1 |
| 2– 2 |
| 3– 3 |
| 4– 4 |
| 5– 5 |
| 6– 6 |
| 7– 7 |
| 8– 8 |
| 9– 9 |
| 10–10 |
| 11–11 |
| 12–12 |
| 13–13 |
| 14–14 |
| 15–15 |
| 16–16 |
| 17–17 |
| 18–18 |
| 19–19 |
| 20–20 |
| 21–21 |
| 22–22 |
| 23–23 |
| 24–24 |
| 25–25 |
| 26–25 |
| 27–27 |
| 28–28 |
| 29–29 |
| 30–30 |
| 31–30 |
| 32–31 |
| 33–32 |
| 34–33 |
| 35–34 |
| 36–35 |
| 37–36 |
| 38–37 |
| 39–38 |
| 40–39 |
| 41–40 |
| 42–41 |
| 43–42 |
| 44–43 |
| 45–44 |
| 46–45 |
| 47–46 |
| 48–47 |
| 49–48 |
| 50–49 |
| 51–50 |
| 52–51 |
| 53–52 |
| 54–53 |
| 55–54 |
| 56–55 |
| 57–56 |
| 58–57 |
| 59–58 |

**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

Altura aparente de la Luna, 6°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 2.22 | 2.26 | 2.30 | 2.34 | 2.38 | 2.42 | 2.47 | 2.51 |
| 2 | 23 | 27 | 31 | 35 | 39 | 43 | 48 | 52 |
| 4 | 24 | 28 | 32 | 36 | 40 | 44 | 49 | 53 |
| 6 | 26 | 30 | 34 | 38 | 42 | 46 | 51 | 55 |
| 8 | 27 | 31 | 35 | 39 | 43 | 47 | 52 | 56 |
| 10 | 2.28 | 2.32 | 2.36 | 2.40 | 2.44 | 2.48 | 2.53 | 2.57 |
| 12 | 29 | 33 | 37 | 41 | 45 | 49 | 54 | 58 |
| 14 | 30 | 34 | 38 | 42 | 46 | 50 | 55 | 59 |
| 16 | 31 | 35 | 39 | 44 | 48 | 52 | 57 | 3. 1 |
| 18 | 32 | 36 | 40 | 45 | 49 | 53 | 58 | 2 |
| 20 | 2.33 | 2.37 | 2.41 | 2.46 | 2.50 | 2.54 | 2.59 | 3. 3 |
| 22 | 34 | 38 | 42 | 47 | 51 | 55 | 3. 0 | 4 |
| 24 | 35 | 39 | 43 | 48 | 52 | 56 | 1 | 5 |
| 26 | 37 | 41 | 45 | 50 | 54 | 58 | 3 | 7 |
| 28 | 38 | 42 | 46 | 51 | 55 | 59 | 4 | 8 |
| 30 | 2.39 | 2.43 | 2.47 | 2.52 | 2.56 | 3. 0 | 3. 5 | 3. 9 |
| 32 | 40 | 44 | 48 | 53 | 57 | 1 | 6 | 10 |
| 34 | 41 | 45 | 49 | 54 | 58 | 2 | 7 | 11 |
| 36 | 42 | 46 | 51 | 55 | 3. 0 | 4 | 9 | 13 |
| 38 | 43 | 47 | 52 | 56 | 1 | 5 | 10 | 14 |
| 40 | 2.44 | 2.48 | 2.53 | 2.57 | 3. 2 | 3. 6 | 3.11 | 3.15 |
| 42 | 45 | 49 | 54 | 58 | 3 | 7 | 12 | 16 |
| 44 | 46 | 50 | 55 | 59 | 4 | 8 | 13 | 17 |
| 46 | 48 | 52 | 56 | 3. 1 | 6 | 10 | 15 | 19 |
| 48 | 49 | 53 | 57 | 2 | 7 | 11 | 16 | 20 |
| 50 | 2.50 | 2.54 | 2.58 | 3. 3 | 3. 8 | 3.12 | 3.17 | 3.21 |
| 52 | 51 | 55 | 59 | 4 | 2 | 13 | 18 | 22 |
| 54 | 52 | 56 | 3. 0 | 5 | 15 | 14 | 19 | 23 |
| 56 | 53 | 57 | 2 | 7 | 12 | 16 | 21 | 25 |
| 58 | 54 | 58 | 3 | 8 | 13 | 17 | 22 | 26 |

Altura aparente de la Luna, 7°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 2.55 | 2.59 | 3. 4 | 3. 9 | 3.14 | 3.18 | 3.23 | 3.28 |
| 2 | 56 | 3. 0 | 5 | 10 | 15 | 19 | 24 | 29 |
| 4 | 57 | 1 | 6 | 11 | 16 | 20 | 25 | 30 |
| 6 | 58 | 3 | 8 | 13 | 18 | 22 | 27 | 32 |
| 8 | 59 | 4 | 9 | 14 | 19 | 23 | 28 | 33 |
| 10 | 3. 0 | 3. 5 | 3.10 | 3.15 | 3.20 | 3.24 | 3.29 | 3.34 |
| 12 | 1 | 6 | 11 | 16 | 21 | 25 | 30 | 35 |
| 14 | 2 | 7 | 12 | 17 | 22 | 26 | 31 | 36 |
| 16 | 4 | 8 | 13 | 18 | 23 | 28 | 33 | 38 |
| 18 | 5 | 9 | 14 | 12 | 24 | 29 | 34 | 39 |
| 20 | 3. 6 | 3.15 | 3.15 | 3.20 | 3.25 | 3.30 | 3.35 | 3.40 |
| 22 | 7 | 11 | 16 | 21 | 26 | 31 | 36 | 41 |
| 24 | 8 | 12 | 17 | 22 | 27 | 32 | 37 | 42 |
| 26 | 9 | 14 | 19 | 24 | 29 | 34 | 39 | 44 |
| 28 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 30 | 3.11 | 3.16 | 3.21 | 3.26 | 3.31 | 3.36 | 3.41 | 3.46 |
| 32 | 12 | 17 | 22 | 27 | 32 | 37 | 42 | 47 |
| 34 | 13 | 18 | 23 | 28 | 33 | 38 | 43 | 48 |
| 36 | 14 | 19 | 24 | 30 | 35 | 40 | 45 | 50 |
| 38 | 15 | 20 | 25 | 31 | 36 | 41 | 46 | 51 |
| 40 | 3.16 | 3.21 | 3.26 | 3.32 | 3.37 | 3.42 | 3.47 | 3.52 |
| 42 | 17 | 22 | 27 | 33 | 38 | 43 | 48 | 53 |
| 44 | 18 | 23 | 28 | 34 | 39 | 44 | 49 | 54 |
| 46 | 20 | 25 | 30 | 35 | 40 | 45 | 51 | 56 |
| 48 | 21 | 26 | 31 | 36 | 41 | 46 | 52 | 57 |
| 50 | 3.22 | 3.27 | 3.32 | 3.37 | 3.42 | 3.47 | 3.53 | 3.58 |
| 52 | 23 | 28 | 33 | 38 | 43 | 48 | 54 | 59 |
| 54 | 24 | 29 | 34 | 39 | 44 | 49 | 55 | 4. 0 |
| 56 | 25 | 30 | 35 | 40 | 46 | 51 | 57 | 2 |
| 58 | 26 | 31 | 36 | 42 | 47 | 52 | 58 | 3 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 0 |
| 4– | 0 |
| 5– | 0 |
| 6– | 0 |
| 7– | 1 |
| 8– | 1 |
| 9– | 1 |
| 10– | 1 |
| 11– | 1 |
| 12– | 1 |
| 13– | 1 |
| 14– | 1 |
| 15– | 1 |
| 16– | 1 |
| 17– | 1 |
| 18– | 1 |
| 19– | 2 |
| 20– | 2 |
| 21– | 2 |
| 22– | 2 |
| 23– | 2 |
| 24– | 2 |
| 25– | 2 |
| 26– | 2 |
| 27– | 2 |
| 28– | 2 |
| 29– | 2 |
| 30– | 2 |
| 31– | 3 |
| 32– | 3 |
| 33– | 3 |
| 34– | 3 |
| 35– | 3 |
| 36– | 3 |
| 37– | 3 |
| 38– | 3 |
| 39– | 3 |
| 40– | 3 |
| 41– | 3 |
| 42– | 3 |
| 43– | 4 |
| 44– | 4 |
| 45– | 4 |
| 46– | 4 |
| 47– | 4 |
| 48– | 4 |
| 49– | 4 |
| 50– | 4 |
| 51– | 4 |
| 52– | 4 |
| 53– | 4 |
| 54– | 4 |
| 55– | 5 |
| 56– | 5 |
| 57– | 5 |
| 58– | 5 |
| 59– | 5 |

Altura aparente de la Luna, 8°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 3.27 | 3.32 | 3.37 | 3.43 | 3.48 | 3.54 | 3.59 | 4. 4 |
| 2 | 28 | 33 | 38 | 44 | 49 | 55 | 4. 0 | 5 |
| 4 | 29 | 34 | 39 | 45 | 58 | 56 | 1 | 6 |
| 6 | 31 | 36 | 41 | 47 | 52 | 58 | 3 | 8 |
| 8 | 32 | 37 | 42 | 48 | 53 | 59 | 4 | 9 |
| 10 | 3.33 | 3.38 | 3.43 | 3.49 | 3.54 | 4. 0 | 4. 5 | 4.10 |
| 12 | 34 | 39 | 44 | 50 | 55 | 1 | 6 | 11 |
| 14 | 35 | 40 | 45 | 51 | 56 | 2 | 7 | 12 |
| 16 | 36 | 41 | 46 | 52 | 58 | 4 | 9 | 14 |
| 18 | 37 | 42 | 47 | 53 | 59 | 5 | 10 | 15 |
| 20 | 3.38 | 3.43 | 3.48 | 3.54 | 4. 0 | 4. 6 | 4.11 | 4.16 |
| 22 | 39 | 44 | 49 | 55 | 1 | 7 | 12 | 17 |
| 24 | 40 | 45 | 50 | 56 | 2 | 8 | 13 | 19 |
| 26 | 41 | 47 | 52 | 58 | 4 | 10 | 15 | 20 |
| 28 | 42 | 46 | 53 | 59 | 5 | 11 | 16 | 22 |
| 30 | 3.43 | 3.49 | 3.54 | 4. 0 | 4. 6 | 4.12 | 4.17 | 4.23 |
| 32 | 44 | 50 | 55 | 1 | 7 | 13 | 18 | 24 |
| 34 | 45 | 51 | 56 | 2 | 8 | 14 | 19 | 25 |
| 36 | 46 | 52 | 58 | 4 | 9 | 15 | 21 | 27 |
| 38 | 47 | 53 | 59 | 5 | 10 | 16 | 22 | 28 |
| 40 | 3.48 | 3.54 | 4. 5 | 4. 6 | 4.11 | 4.17 | 4.23 | 4.29 |
| 42 | 49 | 55 | 1 | 7 | 12 | 18 | 24 | 30 |
| 44 | 50 | 56 | 2 | 6 | 13 | 12 | 25 | 31 |
| 46 | 52 | 58 | 3 | 9 | 15 | 21 | 27 | 33 |
| 48 | 53 | 59 | 4 | 10 | 16 | 22 | 28 | 34 |
| 50 | 3.54 | 4. 0 | 4. 5 | 4.11 | 4.17 | 4.23 | 4.29 | 4.35 |
| 52 | 55 | 1 | 6 | 12 | 18 | 24 | 30 | 36 |
| 54 | 56 | 2 | 7 | 13 | 19 | 25 | 31 | 37 |
| 56 | 57 | 3 | 2 | 15 | 20 | 27 | 33 | 39 |
| 58 | 58 | 4 | 10 | 16 | 22 | 28 | 34 | 40 |

Altura aparente de la Luna, 9°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 3.59 | 4. 5 | 4.11 | 4.17 | 4.23 | 4.29 | 4.35 | 4.41 |
| 2 | 4. 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 |
| 4 | 1 | 7 | 13 | 19 | 25 | 31 | 37 | 43 |
| 6 | 2 | 9 | 15 | 21 | 27 | 33 | 39 | 45 |
| 6 | 3 | 10 | 16 | 22 | 28 | 34 | 40 | 46 |
| 10 | 4. 4 | 4.11 | 4.17 | 4.23 | 4.29 | 4.35 | 4.41 | 4.47 |
| 12 | 5 | 12 | 16 | 24 | 30 | 36 | 42 | 48 |
| 14 | 6 | 13 | 19 | 25 | 31 | 37 | 43 | 49 |
| 16 | 8 | 14 | 20 | 26 | 32 | 39 | 45 | 51 |
| 18 | 9 | 15 | 21 | 27 | 33 | 40 | 46 | 52 |
| 20 | 4.10 | 4.16 | 4.22 | 4.28 | 4.34 | 4.41 | 4.47 | 4.53 |
| 22 | 11 | 17 | 23 | 22 | 35 | 42 | 48 | 54 |
| 24 | 12 | 18 | 24 | 30 | 36 | 43 | 49 | 55 |
| 26 | 13 | 20 | 26 | 32 | 38 | 45 | 51 | 57 |
| 28 | 14 | 21 | 27 | 33 | 39 | 46 | 52 | 58 |
| 30 | 4.15 | 4.22 | 4.28 | 4.34 | 4.40 | 4.47 | 4.53 | 4.59 |
| 32 | 16 | 23 | 22 | 35 | 41 | 48 | 54 | 5. 0 |
| 34 | 17 | 24 | 30 | 36 | 42 | 49 | 55 | 1 |
| 36 | 18 | 25 | 31 | 38 | 44 | 50 | 56 | 3 |
| 38 | 19 | 26 | 32 | 32 | 45 | 51 | 57 | 4 |
| 40 | 4.20 | 4.27 | 4.33 | 4.40 | 4.46 | 4.52 | 4.58 | 5. 5 |
| 42 | 21 | 28 | 34 | 41 | 47 | 53 | 59 | 6 |
| 44 | 22 | 22 | 35 | 42 | 48 | 54 | 5. 0 | 7 |
| 46 | 24 | 31 | 37 | 43 | 42 | 56 | 2 | 2 |
| 48 | 25 | 32 | 38 | 44 | 50 | 57 | 3 | 10 |
| 50 | 4.26 | 4.33 | 4.39 | 4.45 | 4.51 | 4.58 | 5. 4 | 5.11 |
| 52 | 27 | 34 | 40 | 46 | 52 | 59 | 5 | 12 |
| 54 | 28 | 35 | 41 | 47 | 53 | 5. 0 | 6 | 13 |
| 56 | 29 | 36 | 42 | 49 | 55 | 2 | 8 | 15 |
| 58 | 30 | 37 | 43 | 50 | 56 | 3 | 9 | 16 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 0 |
| 4– | 0 |
| 5– | 1 |
| 6– | 1 |
| 7– | 1 |
| 8– | 1 |
| 9– | 1 |
| 10– | 1 |
| 11– | 1 |
| 12– | 1 |
| 13– | 1 |
| 14– | 1 |
| 15– | 2 |
| 16– | 2 |
| 17– | 2 |
| 18– | 2 |
| 19– | 2 |
| 20– | 2 |
| 21– | 2 |
| 22– | 2 |
| 23– | 2 |
| 24– | 2 |
| 25– | 3 |
| 26– | 3 |
| 27– | 3 |
| 28– | 3 |
| 29– | 3 |
| 30– | 3 |
| 31– | 3 |
| 32– | 3 |
| 33– | 3 |
| 34– | 3 |
| 35– | 4 |
| 36– | 4 |
| 37– | 4 |
| 38– | 4 |
| 39– | 4 |
| 40– | 4 |
| 41– | 4 |
| 42– | 4 |
| 43– | 4 |
| 44– | 4 |
| 45– | 4 |
| 46– | 5 |
| 47– | 5 |
| 48– | 5 |
| 49– | 5 |
| 50– | 5 |
| 51– | 5 |
| 52– | 5 |
| 53– | 5 |
| 54– | 5 |
| 55– | 5 |
| 56– | 6 |
| 57– | 6 |
| 58– | 6 |
| 59– | 6 |

Correccion por la altura de Sol ó Estrella. Adit.

| ☉ ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 3 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 20– | 2 |
| 30– | 3 |
| 40– | 3 |
| 50– | 4 |
| 60– | 4 |
| 70– | 5 |
| 80– | 5 |
| 90– | 5 |

| ✶ ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 1 |
| 10– | 1 |
| 20– | 0 |
| 30– | 0 |
| 40– | 0 |
| 50– | 0 |
| 60– | 0 |
| 70– | 0 |
| 80– | 0 |
| 90– | 0 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 10°

Paralaje horizontal.

| ' | 54' | 55' | 56' | 57' | 58' | 59' | 60' | 61' |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 47.56 | 48.55 | 49.54 | 50.53 | 51.52 | 52.51 | 53.50 | 54.49 |
| 2 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 |
| 4 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 |
| 6 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 |
| 8 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 |
| 10 | 47.59 | 48.58 | 49.57 | 50.56 | 51.55 | 52.54 | 53.53 | 54.52 |
| 12 | 48. 0 | 59 | 58 | 57 | 56 | 55 | 54 | 53 |
| 14 | 0 | 59 | 58 | 57 | 56 | 55 | 54 | 53 |
| 16 | 1 | 49. 0 | 59 | 58 | 57 | 56 | 55 | 54 |
| 16 | 1 | 0 | 59 | 58 | 57 | 56 | 55 | 54 |
| 20 | 48. 2 | 49. 1 | 50. 0 | 50.59 | 51.58 | 52.57 | 53.56 | 54.55 |
| 22 | 3 | 2 | 1 | 51. 0 | 59 | 58 | 57 | 56 |
| 24 | 3 | 2 | 1 | 0 | 59 | 58 | 57 | 56 |
| 26 | 4 | 3 | 2 | 1 | 52. 0 | 59 | 58 | 57 |
| 28 | 4 | 3 | 2 | 1 | 0 | 59 | 58 | 57 |
| 30 | 48. 5 | 49. 4 | 50. 3 | 51. 2 | 52. 1 | 53. 0 | 53.59 | 54.58 |
| 32 | 6 | 5 | 4 | 3 | 2 | 1 | 54. 0 | 59 |
| 34 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 59 |
| 36 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 55. 0 |
| 38 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 40 | 46. 8 | 49. 7 | 50. 5 | 51. 5 | 52. 4 | 53. 3 | 54. 2 | 55. 1 |
| 42 | 9 | 8 | 7 | 6 | 5 | 4 | 2 | 1 |
| 44 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
| 46 | 10 | 9 | 6 | 7 | 6 | 5 | 3 | 2 |
| 48 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 50 | 48.11 | 49.10 | 50. 9 | 51. 8 | 52. 7 | 53. 6 | 54. 4 | 55. 3 |
| 52 | 11 | 10 | 9 | 8 | 7 | 5 | 5 | 4 |
| 54 | 12 | 11 | 10 | 9 | 8 | 7 | 5 | 4 |
| 56 | 12 | 11 | 10 | 9 | 6 | 7 | 5 | 5 |
| 58 | 13 | 12 | 11 | 10 | 9 | 8 | 6 | 5 |

### Altura aparente de la Luna, 11°

| ' | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 48.13 | 49.12 | 50.11 | 51.10 | 52. 9 | 53. 8 | 54. 7 | 55. 6 |
| 2 | 14 | 13 | 12 | 10 | 2 | 6 | 7 | 6 |
| 4 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 |
| 6 | 15 | 14 | 13 | 11 | 10 | 9 | 8 | 7 |
| 8 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |
| 10 | 48.16 | 49.15 | 50.14 | 51.12 | 52.11 | 53.10 | 54. 2 | 55. 8 |
| 12 | 16 | 15 | 14 | 13 | 11 | 10 | 9 | 8 |
| 14 | 17 | 16 | 15 | 13 | 12 | 11 | 10 | 9 |
| 16 | 17 | 16 | 15 | 14 | 12 | 11 | 10 | 9 |
| 18 | 18 | 17 | 16 | 14 | 13 | 12 | 11 | 10 |
| 20 | 48.18 | 49.17 | 50.16 | 51.15 | 52.13 | 53.12 | 54.11 | 55.10 |
| 22 | 18 | 17 | 16 | 15 | 13 | 12 | 11 | 10 |
| 24 | 19 | 18 | 17 | 16 | 14 | 13 | 12 | 11 |
| 26 | 19 | 18 | 17 | 16 | 14 | 13 | 12 | 11 |
| 28 | 20 | 19 | 18 | 17 | 15 | 14 | 13 | 12 |
| 30 | 48.20 | 49.19 | 50.18 | 51.17 | 52.15 | 53.14 | 54.13 | 55.12 |
| 32 | 20 | 19 | 18 | 17 | 15 | 14 | 13 | 12 |
| 34 | 21 | 20 | 19 | 18 | 16 | 15 | 14 | 13 |
| 36 | 21 | 20 | 19 | 18 | 16 | 15 | 14 | 13 |
| 38 | 22 | 21 | 20 | 19 | 17 | 16 | 15 | 14 |
| 40 | 48.22 | 49.21 | 50.20 | 51.19 | 52.17 | 53.16 | 54.15 | 55.14 |
| 42 | 22 | 21 | 20 | 19 | 17 | 16 | 15 | 14 |
| 44 | 23 | 22 | 21 | 19 | 18 | 17 | 15 | 14 |
| 46 | 23 | 22 | 21 | 20 | 18 | 17 | 16 | 15 |
| 48 | 24 | 23 | 22 | 20 | 19 | 18 | 16 | 15 |
| 50 | 48.24 | 49.23 | 50.22 | 51.20 | 52.19 | 53.18 | 54.16 | 55.15 |
| 52 | 24 | 23 | 22 | 20 | 19 | 18 | 16 | 15 |
| 54 | 25 | 24 | 22 | 21 | 20 | 18 | 17 | 16 |
| 56 | 25 | 24 | 23 | 21 | 20 | 19 | 17 | 16 |
| 58 | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 17 |

| Partes propor. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 2 |
| 3– 3 |
| 4– 4 |
| 5– 5 |
| 6– 6 |
| 7– 7 |
| 8– 8 |
| 9– 9 |
| 10–10 |
| 11–11 |
| 12–12 |
| 13–13 |
| 14–14 |
| 15–15 |
| 16–16 |
| 17–17 |
| 18–18 |
| 19–19 |
| 20–20 |
| 21–20 |
| 22–21 |
| 23–22 |
| 24–23 |
| 25–24 |
| 26–25 |
| 27–26 |
| 28–27 |
| 29–28 |
| 30–29 |
| 31–30 |
| 32–31 |
| 33–32 |
| 34–33 |
| 35–34 |
| 36–35 |
| 37–36 |
| 38–37 |
| 39–38 |
| 40–39 |
| 41–40 |
| 42–41 |
| 43–42 |
| 44–43 |
| 45–44 |
| 46–45 |
| 47–46 |
| 48–47 |
| 49–48 |
| 50–49 |
| 51–50 |
| 52–51 |
| 53–52 |
| 54–53 |
| 55–54 |
| 56–55 |
| 57–56 |
| 58–57 |
| 59–58 |

### Altura aparente de la Luna, 12°

Paralaje horizontal.

| ' | 54' | 55' | 55' | 57' | 56' | 59' | 60' | 51' |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 48.26 | 49.25 | 50.23 | 51.22 | 52.21 | 53.19 | 54.18 | 55.17 |
| 2 | 26 | 25 | 23 | 22 | 21 | 19 | 18 | 17 |
| 4 | 26 | 25 | 24 | 22 | 21 | 20 | 18 | 17 |
| 6 | 27 | 26 | 24 | 23 | 22 | 20 | 12 | 18 |
| 8 | 27 | 26 | 25 | 23 | 22 | 21 | 19 | 18 |
| 10 | 48.27 | 49.26 | 50.25 | 51.23 | 52.22 | 53.21 | 54.12 | 55.18 |
| 12 | 27 | 26 | 25 | 23 | 22 | 21 | 12 | 18 |
| 14 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 18 |
| 16 | 28 | 27 | 26 | 24 | 23 | 22 | 20 | 19 |
| 18 | 29 | 28 | 26 | 25 | 23 | 22 | 21 | 19 |
| 20 | 48.29 | 49.28 | 50.26 | 51.25 | 52.23 | 53.22 | 54.21 | 55.19 |
| 22 | 29 | 28 | 26 | 25 | 23 | 22 | 21 | 19 |
| 24 | 29 | 28 | 26 | 25 | 24 | 22 | 21 | 19 |
| 26 | 30 | 29 | 27 | 26 | 24 | 23 | 22 | 20 |
| 28 | 30 | 29 | 27 | 26 | 25 | 23 | 22 | 20 |
| 30 | 48.30 | 49.29 | 50.27 | 51.26 | 52.25 | 53.23 | 54.22 | 55.20 |
| 32 | 30 | 29 | 27 | 26 | 25 | 23 | 22 | 20 |
| 34 | 31 | 29 | 28 | 26 | 25 | 23 | 22 | 20 |
| 36 | 31 | 30 | 28 | 27 | 26 | 24 | 23 | 21 |
| 38 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 21 |
| 40 | 48.32 | 49.30 | 50.29 | 51.27 | 52.26 | 53.24 | 54.23 | 55.21 |
| 42 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 21 |
| 44 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 21 |
| 46 | 33 | 31 | 30 | 28 | 27 | 25 | 24 | 22 |
| 48 | 33 | 31 | 30 | 28 | 27 | 25 | 24 | 22 |
| 50 | 48.33 | 49.31 | 50.30 | 51.28 | 52.27 | 53.25 | 54.24 | 55.22 |
| 52 | 33 | 31 | 30 | 28 | 27 | 25 | 24 | 22 |
| 54 | 33 | 31 | 30 | 28 | 27 | 25 | 24 | 22 |
| 56 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 23 |
| 58 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 23 |

### Altura aparente de la Luna, 13°

| ' | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 48.34 | 49.32 | 50.31 | 51.29 | 52.28 | 53.26 | 54.25 | 55.23 |
| 2 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 23 |
| 4 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 23 |
| 6 | 35 | 33 | 32 | 30 | 28 | 27 | 25 | 24 |
| 8 | 35 | 33 | 32 | 30 | 28 | 27 | 25 | 24 |
| 10 | 48.35 | 49.33 | 50.32 | 51.30 | 52.28 | 53.27 | 54.25 | 55.24 |
| 12 | 35 | 33 | 32 | 30 | 28 | 27 | 25 | 24 |
| 14 | 35 | 33 | 32 | 30 | 28 | 27 | 25 | 24 |
| 16 | 36 | 34 | 32 | 31 | 22 | 28 | 26 | 24 |
| 18 | 36 | 34 | 32 | 31 | 29 | 28 | 26 | 24 |
| 20 | 48.36 | 49.34 | 50.32 | 51.31 | 52.29 | 53.28 | 54.26 | 55.24 |
| 22 | 36 | 34 | 32 | 31 | 29 | 28 | 26 | 24 |
| 24 | 36 | 34 | 32 | 31 | 29 | 28 | 26 | 24 |
| 26 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| 28 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| 30 | 48.36 | 49.35 | 50.33 | 51.31 | 52.30 | 53.28 | 54.26 | 55.25 |
| 32 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| 34 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| 36 | 37 | 35 | 34 | 32 | 30 | 29 | 27 | 25 |
| 38 | 37 | 35 | 34 | 32 | 30 | 29 | 27 | 25 |
| 40 | 48,37 | 49.35 | 50.34 | 51.32 | 52.30 | 53.29 | 54.27 | 55.25 |
| 42 | 37 | 35 | 34 | 32 | 30 | 29 | 27 | 25 |
| 44 | 37 | 35 | 34 | 32 | 30 | 29 | 27 | 25 |
| 46 | 38 | 36 | 34 | 32 | 31 | 29 | 27 | 25 |
| 48 | 38 | 36 | 34 | 32 | 31 | 29 | 27 | 25 |
| 50 | 48.38 | 49.36 | 50.34 | 51.32 | 52.31 | 53.29 | 54.27 | 55.25 |
| 52 | 38 | 36 | 34 | 32 | 31 | 29 | 27 | 25 |
| 54 | 38 | 36 | 34 | 32 | 31 | 29 | 27 | 25 |
| 56 | 38 | 36 | 35 | 33 | 31 | 29 | 27 | 26 |
| 58 | 38 | 36 | 35 | 33 | 31 | 29 | 27 | 26 |

| Partes proper. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 2 |
| 3– 3 |
| 4– 4 |
| 5– 5 |
| 6– 5 |
| 7– 7 |
| 8– 8 |
| 9– 9 |
| 10–10 |
| 11–11 |
| 12–12 |
| 13–13 |
| 14–14 |
| 15–15 |
| 16–16 |
| 17–17 |
| 18–18 |
| 19–19 |
| 20–20 |
| 21–20 |
| 22–21 |
| 23–22 |
| 24–23 |
| 25–24 |
| 26–25 |
| 27–26 |
| 28–27 |
| 29–28 |
| 30–29 |
| 31–30 |
| 32–31 |
| 33–32 |
| 34–33 |
| 35–34 |
| 36–35 |
| 37–36 |
| 38–37 |
| 39–38 |
| 40–39 |
| 41–40 |
| 42–41 |
| 43–42 |
| 44–43 |
| 45–44 |
| 46–45 |
| 47–46 |
| 48–47 |
| 49–48 |
| 50–49 |
| 51–50 |
| 52–51 |
| 53–52 |
| 54–53 |
| 55–54 |
| 56–55 |
| 57–56 |
| 58–57 |
| 59–58 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 10°

Paralaje horizontal.

| ' | 54' | 55' | 56' | 57' | 58' | 59' | 60' | 61' |
|---|---|---|---|---|---|---|---|---|
| | ' " | ' " | ' " | ' " | ' " | ' " | ' " | ' " |
| 0 | 4.31 | 4.38 | 4.44 | 4.51 | 4.57 | 5. 4 | 5.10 | 5.17 |
| 2 | 32 | 39 | 45 | 52 | 58 | 5 | 11 | 18 |
| 4 | 33 | 40 | 46 | 53 | 59 | 6 | 12 | 19 |
| 6 | 34 | 42 | 48 | 55 | 5. 1 | 8 | 14 | 21 |
| 8 | 35 | 43 | 49 | 66 | 2 | 9 | 15 | 22 |
| 10 | 4.36 | 4.44 | 4.60 | 4.57 | 5. 3 | 5.10 | 5.16 | 5.23 |
| 12 | 37 | 45 | 51 | 58 | 4 | 11 | 17 | 24 |
| 14 | 38 | 46 | 52 | 59 | 5 | 12 | 18 | 25 |
| 16 | 40 | 47 | 53 | 5. 0 | 7 | 14 | 20 | 27 |
| 18 | 41 | 48 | 54 | 1 | 8 | 15 | 21 | 28 |
| 20 | 4.42 | 4.49 | 4.55 | 5. 2 | 5. 9 | 5.16 | 5.22 | 5.29 |
| 22 | 43 | 50 | 56 | 3 | 10 | 17 | 23 | 30 |
| 24 | 44 | 61 | 57 | 4 | 11 | 18 | 24 | 31 |
| 26 | 45 | 53 | 59 | 6 | 13 | 20 | 26 | 33 |
| 28 | 46 | 54 | 5. 0 | 7 | 14 | 21 | 27 | 34 |
| 30 | 4.47 | 4.55 | 5. 1 | 5. 8 | 5.15 | 5 22 | 5.28 | 5.35 |
| 32 | 48 | 56 | 2 | 9 | 16 | 23 | 29 | 36 |
| 34 | 49 | 57 | 3 | 10 | 17 | 24 | 30 | 37 |
| 36 | 60 | 58 | 5 | 12 | 18 | 25 | 32 | 39 |
| 38 | 51 | 69 | 6 | 13 | 19 | 26 | 33 | 40 |
| 40 | 4.52 | 5. 0 | 5. 7 | 5.14 | 6.20 | 6.27 | 5.34 | 5.41 |
| 42 | 53 | 1 | 8 | 15 | 21 | 28 | 35 | 42 |
| 44 | 54 | 2 | 9 | 16 | 22 | 29 | 36 | 43 |
| 46 | 56 | 3 | 10 | 17 | 24 | 31 | 38 | 45 |
| 48 | 57 | 4 | 11 | 18 | 25 | 32 | 39 | 46 |
| 50 | 4.58 | 5. 5 | 5.12 | 5.19 | 6.26 | 5.33 | 5.40 | 5.47 |
| 52 | 59 | 6 | 13 | 20 | 27 | 34 | 41 | 48 |
| 54 | 5. 0 | 7 | 14 | 21 | 28 | 36 | 42 | 49 |
| 56 | 1 | 9 | 15 | 23 | 30 | 37 | 44 | 51 |
| 58 | 2 | 10 | 17 | 24 | 31 | 38 | 45 | 62 |

### Altura aparente de la Luna, 11°

| ' | 54' | 55' | 56' | 57' | 58' | 59' | 60' | 61' |
|---|---|---|---|---|---|---|---|---|
| | ' " | ' " | ' " | ' " | ' " | ' " | ' " | ' " |
| 0 | 5. 3 | 5.11 | 5.18 | 5.25 | 5.32 | 5.39 | 5.46 | 5.63 |
| 2 | 4 | 12 | 19 | 26 | 33 | 40 | 47 | 54 |
| 4 | 5 | 13 | 20 | 27 | 34 | 41 | 48 | 55 |
| 6 | 6 | 14 | 22 | 29 | 36 | 43 | 50 | 57 |
| 8 | 7 | 15 | 23 | 30 | 37 | 44 | 51 | 58 |
| 10 | 5. 8 | 5.16 | 5.24 | 5.31 | 5.38 | 5.45 | 5.52 | 5.69 |
| 12 | 9 | 17 | 25 | 32 | 39 | 46 | 53 | 6. 0 |
| 14 | 10 | 18 | 26 | 33 | 40 | 47 | 54 | 1 |
| 16 | 12 | 20 | 27 | 34 | 41 | 49 | 56 | 3 |
| 18 | 13 | 21 | 28 | 35 | 42 | 50 | 57 | 4 |
| 20 | 6.14 | 5.22 | 5.29 | 5.36 | 5.43 | 5.51 | 5.58 | 6. 5 |
| 22 | 16 | 23 | 30 | 37 | 44 | 52 | 69 | 6 |
| 24 | 16 | 24 | 31 | 38 | 45 | 53 | 6. 0 | 7 |
| 26 | 17 | 25 | 33 | 40 | 47 | 55 | 2 | 9 |
| 28 | 18 | 26 | 34 | 41 | 48 | 56 | 3 | 10 |
| 30 | 5.19 | 5.27 | 5.35 | 6.42 | 5.49 | 5.57 | 6. 4 | 6.11 |
| 32 | 20 | 28 | 36 | 43 | 50 | 68 | 6 | 12 |
| 34 | 21 | 29 | 37 | 44 | 51 | 59 | 6 | 13 |
| 36 | 22 | 30 | 38 | 46 | 53 | 6. 0 | 8 | 15 |
| 38 | 23 | 31 | 39 | 46 | 64 | 1 | 9 | 16 |
| 40 | 5.24 | 5.32 | 5.40 | 5.47 | 5.55 | 6. 2 | 6.10 | 6.17 |
| 42 | 25 | 33 | 41 | 48 | 65 | 3 | 11 | 18 |
| 44 | 26 | 34 | 42 | 49 | 57 | 4 | 12 | 19 |
| 46 | 28 | 36 | 44 | 51 | 58 | 6 | 14 | 21 |
| 48 | 29 | 37 | 45 | 52 | 69 | 7 | 15 | 22 |
| 50 | 5.30 | 5.38 | 5.46 | 5.53 | 6. 0 | 6. 8 | 6.16 | 6.23 |
| 52 | 31 | 39 | 47 | 54 | 1 | 9 | 17 | 24 |
| 54 | 32 | 40 | 48 | 55 | 2 | 10 | 18 | 25 |
| 56 | 33 | 41 | 49 | 56 | 4 | 12 | 20 | 27 |
| 58 | 34 | 42 | 50 | 57 | 5 | 13 | 21 | 28 |

Correcciones por la altura de Sol ó Estrella. *Adit.*

| ⊙ | |
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| ° | " |
| 4 | 6 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 6 |
| 90 | 5 |

| * | |
|---|---|
| ° | " |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

Partes propor. por los segund. de la paralaje. *Adit.*

| " | " |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |
| 11 | 1 |
| 12 | 1 |
| 13 | 2 |
| 14 | 2 |
| 15 | 2 |
| 16 | 2 |
| 17 | 2 |
| 18 | 2 |
| 19 | 2 |
| 20 | 2 |
| 21 | 3 |
| 22 | 3 |
| 23 | 3 |
| 24 | 3 |
| 25 | 3 |
| 26 | 3 |
| 27 | 3 |
| 28 | 3 |
| 29 | 3 |
| 30 | 4 |
| 31 | 4 |
| 32 | 4 |
| 33 | 4 |
| 34 | 4 |
| 35 | 4 |
| 36 | 4 |
| 37 | 4 |
| 38 | 4 |
| 39 | 5 |
| 40 | 5 |
| 41 | 5 |
| 42 | 5 |
| 43 | 5 |
| 44 | 5 |
| 45 | 5 |
| 46 | 6 |
| 47 | 6 |
| 48 | 6 |
| 49 | 6 |
| 50 | 6 |
| 51 | 6 |
| 52 | 6 |
| 53 | 6 |
| 54 | 6 |
| 55 | 6 |
| 56 | 7 |
| 57 | 7 |
| 58 | 7 |
| 59 | 7 |

### Altura aparente de la Luna, 12°

Paralaje horizontal.

| ' | 54' | 55' | 56' | 57' | 58' | 59' | 60' | 61' |
|---|---|---|---|---|---|---|---|---|
| | ' " | ' " | ' " | ' " | ' " | ' " | ' " | " ' |
| 0 | 5.35 | 5.43 | 5.61 | 5.58 | 6. 6 | 6.14 | 6.22 | 6.29 |
| 2 | 36 | 44 | 62 | 59 | 7 | 15 | 23 | 30 |
| 4 | 37 | 45 | 53 | 6. 0 | 8 | 16 | 24 | 31 |
| 6 | 38 | 46 | 54 | 2 | 10 | 18 | 26 | 33 |
| 8 | 39 | 47 | 65 | 3 | 11 | 19 | 27 | 34 |
| 10 | 6.40 | 5.48 | 5.56 | 6. 4 | 5.12 | 6.20 | 6.28 | 6.35 |
| 12 | 41 | 49 | 67 | 5 | 13 | 21 | 29 | 36 |
| 14 | 42 | 50 | 58 | 6 | 14 | 22 | 30 | 37 |
| 16 | 44 | 52 | 6. 0 | 7 | 15 | 24 | 32 | 39 |
| 18 | 45 | 53 | 1 | 8 | 16 | 25 | 33 | 40 |
| 20 | 5.46 | 5.54 | 6. 2 | 5. 9 | 6.17 | 6.26 | 6.34 | 6.41 |
| 22 | 47 | 55 | 3 | 10 | 18 | 27 | 35 | 42 |
| 24 | 48 | 56 | 4 | 11 | 19 | 28 | 36 | 43 |
| 26 | 49 | 67 | 6 | 13 | 21 | 30 | 38 | 45 |
| 28 | 50 | 58 | 7 | 14 | 22 | 31 | 39 | 46 |
| 30 | 5.51 | 5.59 | 6. 8 | 6.16 | 6.23 | 6.32 | 6.40 | 6.47 |
| 32 | 52 | 6. 0 | 9 | 16 | 24 | 33 | 41 | 48 |
| 34 | 53 | 1 | 10 | 17 | 25 | 34 | 42 | 49 |
| 36 | 54 | 2 | 11 | 19 | 27 | 35 | 43 | 51 |
| 38 | 55 | 3 | 12 | 20 | 28 | 36 | 44 | 62 |
| 40 | 5.56 | 6. 4 | 6.13 | 6.21 | 6.29 | 6.37 | 6.45 | 6.63 |
| 42 | 57 | 5 | 14 | 22 | 30 | 38 | 46 | 54 |
| 44 | 58 | 6 | 15 | 23 | 31 | 39 | 47 | 55 |
| 46 | 6. 0 | 8 | 16 | 24 | 32 | 41 | 49 | 57 |
| 48 | 1 | 9 | 17 | 25 | 33 | 42 | 60 | 58 |
| 50 | 6. 2 | 6.10 | 6.18 | 6.26 | 6.34 | 6.43 | 6.51 | 6.59 |
| 52 | 3 | 11 | 19 | 27 | 35 | 44 | 52 | 7. 0 |
| 54 | 4 | 12 | 20 | 28 | 36 | 45 | 53 | 1 |
| 56 | 5 | 13 | 22 | 30 | 38 | 47 | 55 | 3 |
| 58 | 6 | 14 | 23 | 31 | 39 | 48 | 66 | 4 |

### Altura aparente de la Luna, 13°

| ' | 54' | 55' | 56' | 57' | 58' | 59' | 60' | 61' |
|---|---|---|---|---|---|---|---|---|
| | ' " | ' " | ' " | ' " | ' " | ' " | ' " | ' " |
| 0 | 6. 7 | 6.15 | 6.24 | 6.32 | 6.40 | 6.49 | 6.57 | 7. 5 |
| 2 | 8 | 16 | 25 | 33 | 41 | 50 | 68 | 6 |
| 4 | 9 | 17 | 26 | 34 | 42 | 51 | 59 | 7 |
| 6 | 10 | 19 | 28 | 36 | 44 | 53 | 7. 1 | 9 |
| 8 | 11 | 20 | 29 | 37 | 45 | 54 | 2 | 10 |
| 10 | 6.12 | 6.21 | 6.30 | 6.38 | 6.46 | 6.55 | 7. 3 | 7.11 |
| 12 | 13 | 22 | 31 | 39 | 47 | 56 | 4 | 12 |
| 14 | 14 | 23 | 32 | 40 | 48 | 57 | 5 | 13 |
| 16 | 16 | 24 | 33 | 41 | 49 | 58 | 7 | 15 |
| 18 | 17 | 25 | 34 | 42 | 50 | 59 | 8 | 16 |
| 20 | 6.18 | 6.26 | 6.35 | 6.43 | 6.51 | 7. 0 | 7. 9 | 7.17 |
| 22 | 19 | 27 | 36 | 44 | 62 | 1 | 10 | 18 |
| 24 | 20 | 28 | 37 | 45 | 63 | 2 | 11 | 19 |
| 26 | 21 | 30 | 39 | 47 | 55 | 4 | 13 | 21 |
| 28 | 22 | 31 | 40 | 48 | 56 | 5 | 14 | 22 |
| 30 | 6.23 | 6.32 | 6.41 | 6.49 | 6.57 | 7. 6 | 7.15 | 7.23 |
| 32 | 24 | 33 | 42 | 50 | 58 | 7 | 16 | 24 |
| 34 | 25 | 34 | 43 | 51 | 59 | 8 | 17 | 25 |
| 36 | 26 | 35 | 44 | 63 | 7. 1 | 10 | 18 | 27 |
| 38 | 27 | 36 | 45 | 54 | 2 | 11 | 19 | 28 |
| 40 | 6.28 | 6.37 | 6.46 | 6.55 | 7. 3 | 7.12 | 7.20 | 7.29 |
| 42 | 29 | 38 | 47 | 56 | 4 | 13 | 21 | 30 |
| 44 | 30 | 39 | 48 | 57 | 5 | 14 | 22 | 31 |
| 46 | 32 | 41 | 60 | 68 | 6 | 15 | 24 | 33 |
| 48 | 33 | 42 | 51 | 59 | 7 | 16 | 25 | 34 |
| 50 | 6.34 | 5.43 | 6.52 | 7. 0 | 7. 8 | 7.17 | 7.26 | 7.35 |
| 52 | 35 | 44 | 53 | 1 | 9 | 18 | 27 | 36 |
| 54 | 36 | 46 | 54 | 2 | 10 | 19 | 28 | 37 |
| 56 | 37 | 45 | 55 | 4 | 12 | 21 | 30 | 39 |
| 58 | 38 | 47 | 56 | 5 | 13 | 22 | 31 | 40 |

Partes proper. por los segund. de la paralaje. *Adit.*

| " | " |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |
| 11 | 2 |
| 12 | 2 |
| 13 | 2 |
| 14 | 2 |
| 15 | 2 |
| 16 | 2 |
| 17 | 2 |
| 18 | 2 |
| 19 | 3 |
| 20 | 3 |
| 21 | 3 |
| 22 | 3 |
| 23 | 3 |
| 24 | 3 |
| 25 | 3 |
| 26 | 4 |
| 27 | 4 |
| 28 | 4 |
| 29 | 4 |
| 30 | 4 |
| 31 | 4 |
| 32 | 4 |
| 33 | 4 |
| 34 | 6 |
| 35 | 6 |
| 36 | 6 |
| 37 | 5 |
| 38 | 5 |
| 39 | 5 |
| 40 | 5 |
| 41 | 6 |
| 42 | 5 |
| 43 | 6 |
| 44 | 6 |
| 45 | 6 |
| 46 | 6 |
| 47 | 5 |
| 48 | 6 |
| 49 | 7 |
| 50 | 7 |
| 51 | 7 |
| 52 | 7 |
| 53 | 7 |
| 54 | 7 |
| 55 | 7 |
| 56 | 8 |
| 57 | 8 |
| 58 | 8 |
| 59 | 8 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 14°

Paralaje horizontal.

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.38 | 42.36 | 50.35 | 51.33 | 52.31 | 53.29 | 54.27 | 55.26 |
| 2 | 38 | 36 | 35 | 33 | 31 | 29 | 27 | 26 |
| 4 | 38 | 36 | 35 | 33 | 31 | 22 | 27 | 26 |
| 6 | 39 | 37 | 35 | 33 | 31 | 29 | 28 | 26 |
| 8 | 39 | 37 | 35 | 33 | 31 | 22 | 28 | 26 |
| 10 | 48.39 | 49.37 | 50.35 | 51.33 | 52.31 | 53.29 | 54.28 | 55.26 |
| 12 | 32 | 37 | 35 | 33 | 31 | 22 | 28 | 26 |
| 14 | 32 | 37 | 35 | 33 | 31 | 29 | 28 | 26 |
| 16 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 18 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 20 | 48.39 | 42.37 | 50.35 | 51.33 | 52.31 | 53.30 | 54.28 | 55.26 |
| 22 | 32 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 24 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 26 | 32 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 28 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 30 | 48.32 | 42.37 | 50.35 | 51.33 | 52.31 | 53.30 | 54.28 | 55.26 |
| 32 | 32 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 34 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 36 | 32 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 38 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 40 | 48.32 | 49.37 | 50.35 | 51.33 | 52.31 | 53.30 | 54.28 | 55.26 |
| 42 | 39 | 37 | 35 | 33 | 31 | 30 | 28 | 26 |
| 44 | 32 | 37 | 35 | 33 | 31 | 30 | 28 | 25 |
| 46 | 39 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 48 | 32 | 37 | 35 | 33 | 31 | 29 | 27 | 25 |
| 50 | 48.32 | 42.37 | 50.35 | 51.33 | 52.31 | 53.29 | 54.27 | 55.25 |
| 52 | 32 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 54 | 39 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 56 | 39 | 37 | 35 | 33 | 31 | 29 | 27 | 25 |
| 58 | 39 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |

### Altura aparente de la Luna, 16°

Paralaje horizontal.

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.38 | 42.35 | 50.33 | 51.31 | 52.28 | 53.26 | 54.24 | 55 21 |
| 2 | 38 | 35 | 33 | 31 | 28 | 26 | 24 | 21 |
| 4 | 38 | 35 | 33 | 31 | 28 | 26 | 24 | 21 |
| 6 | 37 | 35 | 32 | 30 | 28 | 25 | 23 | 21 |
| 8 | 37 | 35 | 32 | 30 | 28 | 25 | 23 | 21 |
| 10 | 48.37 | 42.35 | 50.32 | 51.30 | 52.28 | 53.25 | 54.23 | 55 21 |
| 12 | 37 | 35 | 32 | 30 | 28 | 25 | 23 | 21 |
| 14 | 37 | 35 | 32 | 30 | 28 | 25 | 23 | 21 |
| 16 | 37 | 34 | 32 | 29 | 27 | 25 | 22 | 20 |
| 18 | 37 | 34 | 32 | 29 | 27 | 25 | 22 | 20 |
| 20 | 48.37 | 42.34 | 50.32 | 51.29 | 52.27 | 53.25 | 54.22 | 55.20 |
| 22 | 37 | 34 | 32 | 22 | 27 | 25 | 22 | 20 |
| 24 | 37 | 34 | 32 | 29 | 27 | 25 | 22 | 20 |
| 26 | 36 | 33 | 31 | 22 | 26 | 24 | 21 | 19 |
| 28 | 36 | 33 | 31 | 29 | 26 | 24 | 21 | 12 |
| 30 | 48.36 | 49.33 | 50.31 | 51.29 | 52.26 | 53.24 | 54.21 | 55.12 |
| 32 | 36 | 33 | 31 | 29 | 26 | 24 | 21 | 12 |
| 34 | 36 | 33 | 31 | 22 | 26 | 24 | 21 | 12 |
| 36 | 35 | 33 | 30 | 28 | 25 | 23 | 20 | 18 |
| 38 | 35 | 33 | 30 | 28 | 25 | 23 | 20 | 18 |
| 40 | 48.35 | 49.33 | 50.30 | 51.28 | 52.25 | 53.23 | 54.20 | 55.18 |
| 42 | 35 | 33 | 30 | 28 | 25 | 23 | 20 | 18 |
| 44 | 35 | 33 | 30 | 28 | 25 | 23 | 20 | 17 |
| 46 | 34 | 32 | 29 | 27 | 24 | 22 | 12 | 17 |
| 48 | 34 | 32 | 29 | 27 | 24 | 22 | 19 | 16 |
| 50 | 48.34 | 42 32 | 50.29 | 51.27 | 52.24 | 53.22 | 54.12 | 55.16 |
| 52 | 34 | 32 | 29 | 27 | 24 | 22 | 19 | 16 |
| 54 | 34 | 32 | 22 | 27 | 24 | 22 | 12 | 16 |
| 56 | 34 | 31 | 22 | 26 | 23 | 21 | 18 | 15 |
| 58 | 34 | 31 | 29 | 26 | 23 | 21 | 18 | 15 |

### Altura aparente de la Luna, 15°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.32 | 49.37 | 50.35 | 51.33 | 52.31 | 53.22 | 54.27 | 55.25 |
| 2 | 32 | 37 | 35 | 33 | 31 | 29 | 27 | 25 |
| 4 | 39 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 6 | 32 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 8 | 32 | 37 | 35 | 33 | 31 | 29 | 27 | 25 |
| 10 | 48.39 | 42.37 | 50.35 | 51.33 | 52.31 | 53.22 | 54.27 | 55.25 |
| 12 | 32 | 37 | 35 | 33 | 31 | 29 | 27 | 25 |
| 14 | 32 | 37 | 35 | 33 | 31 | 22 | 27 | 25 |
| 16 | 32 | 37 | 35 | 33 | 31 | 28 | 26 | 24 |
| 18 | 39 | 37 | 35 | 33 | 31 | 28 | 26 | 24 |
| 20 | 48.32 | 42.37 | 50.35 | 51.33 | 52.31 | 53.28 | 54.26 | 55.24 |
| 22 | 32 | 37 | 35 | 33 | 31 | 28 | 26 | 24 |
| 24 | 39 | 37 | 35 | 33 | 31 | 28 | 26 | 24 |
| 26 | 32 | 37 | 34 | 32 | 30 | 28 | 26 | 24 |
| 28 | 39 | 37 | 34 | 32 | 30 | 28 | 26 | 24 |
| 30 | 46.39 | 49.37 | 50.34 | 51.32 | 52.30 | 53.28 | 54.26 | 55.24 |
| 32 | 39 | 37 | 34 | 32 | 30 | 28 | 26 | 24 |
| 34 | 32 | 37 | 34 | 32 | 30 | 28 | 26 | 24 |
| 36 | 39 | 36 | 34 | 32 | 30 | 27 | 25 | 23 |
| 38 | 32 | 36 | 34 | 32 | 30 | 27 | 25 | 23 |
| 40 | 48.32 | 49.36 | 50.34 | 51.32 | 52.30 | 53.27 | 54.25 | 55.23 |
| 42 | 39 | 36 | 34 | 32 | 30 | 27 | 25 | 23 |
| 44 | 32 | 36 | 34 | 32 | 30 | 27 | 25 | 23 |
| 46 | 38 | 36 | 34 | 31 | 22 | 27 | 24 | 22 |
| 48 | 38 | 36 | 34 | 31 | 29 | 27 | 24 | 22 |
| 50 | 48.38 | 49.36 | 50.34 | 51.31 | 52.29 | 53.27 | 54.24 | 55.22 |
| 52 | 38 | 36 | 34 | 31 | 22 | 27 | 24 | 22 |
| 54 | 38 | 36 | 34 | 31 | 29 | 27 | 24 | 22 |
| 56 | 38 | 35 | 33 | 31 | 28 | 26 | 24 | 21 |
| 58 | 38 | 35 | 33 | 31 | 28 | 26 | 24 | 21 |

### Altura aparente de la Luna, 17°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.34 | 49.31 | 50.22 | 51.26 | 52.23 | 53.21 | 54.18 | 55.15 |
| 2 | 34 | 31 | 29 | 26 | 23 | 21 | 18 | 15 |
| 4 | 34 | 31 | 28 | 26 | 23 | 20 | 18 | 15 |
| 6 | 33 | 30 | 28 | 25 | 22 | 20 | 17 | 14 |
| 8 | 33 | 30 | 27 | 25 | 22 | 19 | 17 | 14 |
| 10 | 48.33 | 49.30 | 50.27 | 51.25 | 52.22 | 53.12 | 54.17 | 55.14 |
| 12 | 33 | 30 | 27 | 25 | 22 | 19 | 17 | 14 |
| 14 | 33 | 30 | 27 | 25 | 22 | 19 | 16 | 14 |
| 16 | 32 | 22 | 26 | 24 | 21 | 18 | 16 | 13 |
| 18 | 32 | 29 | 26 | 24 | 21 | 18 | 15 | 13 |
| 20 | 48.32 | 49.22 | 50.26 | 51.24 | 52.21 | 53.18 | 54.15 | 55.13 |
| 22 | 32 | 22 | 26 | 24 | 21 | 18 | 15 | 13 |
| 24 | 32 | 29 | 26 | 23 | 21 | 18 | 15 | 12 |
| 26 | 31 | 28 | 25 | 23 | 20 | 17 | 14 | 12 |
| 28 | 31 | 28 | 25 | 22 | 20 | 17 | 14 | 11 |
| 30 | 48.31 | 49.28 | 50.25 | 51.22 | 52.20 | 53.17 | 54.14 | 55.11 |
| 32 | 31 | 28 | 25 | 22 | 20 | 17 | 14 | 11 |
| 34 | 31 | 28 | 25 | 22 | 12 | 17 | 14 | 11 |
| 36 | 30 | 27 | 24 | 21 | 19 | 16 | 13 | 10 |
| 38 | 30 | 27 | 24 | 21 | 18 | 16 | 13 | 10 |
| 40 | 48.30 | 49.27 | 50.24 | 51.21 | 52.18 | 53.16 | 54.13 | 55.10 |
| 42 | 30 | 27 | 24 | 21 | 18 | 16 | 13 | 10 |
| 44 | 30 | 27 | 24 | 21 | 18 | 15 | 12 | 2 |
| 46 | 22 | 26 | 23 | 20 | 17 | 15 | 12 | 2 |
| 48 | 29 | 26 | 23 | 20 | 17 | 14 | 11 | 8 |
| 50 | 48.29 | 49.26 | 50.23 | 51.20 | 52.17 | 53.14 | 54.11 | 55. 8 |
| 52 | 29 | 26 | 23 | 20 | 17 | 14 | 11 | 8 |
| 54 | 28 | 25 | 23 | 20 | 17 | 14 | 11 | 8 |
| 56 | 28 | 25 | 22 | 12 | 16 | 13 | 10 | 7 |
| 58 | 27 | 24 | 22 | 19 | 16 | 13 | 10 | 7 |

Partes propor. por los segund. de la paralaje. *Adit.* (columna central)

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 14 |
| 16 | 15 |
| 17 | 16 |
| 18 | 17 |
| 19 | 18 |
| 20 | 12 |
| 21 | 20 |
| 22 | 21 |
| 23 | 22 |
| 24 | 23 |
| 25 | 24 |
| 26 | 25 |
| 27 | 26 |
| 28 | 27 |
| 22 | 28 |
| 30 | 22 |
| 31 | 30 |
| 32 | 31 |
| 33 | 32 |
| 34 | 33 |
| 35 | 34 |
| 36 | 35 |
| 37 | 36 |
| 38 | 37 |
| 39 | 38 |
| 40 | 39 |
| 41 | 40 |
| 42 | 41 |
| 43 | 42 |
| 44 | 42 |
| 45 | 43 |
| 46 | 44 |
| 47 | 45 |
| 48 | 46 |
| 49 | 47 |
| 50 | 48 |
| 51 | 49 |
| 52 | 50 |
| 53 | 51 |
| 54 | 52 |
| 55 | 53 |
| 56 | 54 |
| 57 | 55 |
| 58 | 56 |
| 59 | 57 |

Partes propor. por los segund. de la paralaje. *Adit.* (columna derecha)

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 2 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 12 |
| 14 | 13 |
| 15 | 14 |
| 16 | 15 |
| 17 | 16 |
| 18 | 17 |
| 19 | 18 |
| 20 | 12 |
| 21 | 20 |
| 22 | 21 |
| 23 | 22 |
| 24 | 23 |
| 25 | 24 |
| 26 | 25 |
| 27 | 26 |
| 28 | 27 |
| 29 | 28 |
| 30 | 29 |
| 31 | 30 |
| 32 | 31 |
| 33 | 32 |
| 34 | 33 |
| 35 | 34 |
| 36 | 35 |
| 37 | 35 |
| 38 | 36 |
| 39 | 37 |
| 40 | 38 |
| 41 | 39 |
| 42 | 40 |
| 43 | 41 |
| 44 | 42 |
| 45 | 43 |
| 46 | 44 |
| 47 | 45 |
| 48 | 46 |
| 49 | 47 |
| 50 | 48 |
| 51 | 42 |
| 52 | 50 |
| 53 | 51 |
| 54 | 52 |
| 55 | 53 |
| 56 | 54 |
| 57 | 55 |
| 58 | 56 |
| 59 | 57 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

## Altura aparente de la Luna, 14°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 6.39 | 8.48 | 6.57 | 7. 6 | 7.14 | 7.23 | 7.32 | 7.41 |
| 2 | 40 | 49 | 58 | 7 | 15 | 24 | 33 | 42 |
| 4 | 41 | 50 | 52 | 8 | 16 | 25 | 34 | 43 |
| 8 | 42 | 51 | 7. 0 | 10 | 18 | 27 | 36 | 45 |
| 8 | 43 | 52 | 1 | 11 | 19 | 28 | 37 | 46 |
| 10 | 6.44 | 6.53 | 7. 2 | 7.12 | 7.20 | 7.22 | 7.38 | 7.47 |
| 12 | 45 | 54 | 3 | 13 | 21 | 30 | 32 | 48 |
| 14 | 46 | 55 | 4 | 14 | 22 | 31 | 40 | 49 |
| 16 | 48 | 57 | 8 | 15 | 23 | 33 | 42 | 51 |
| 18 | 49 | 58 | 7 | 16 | 24 | 34 | 43 | 52 |
| 20 | 6.50 | 6.52 | 7. 8 | 7.17 | 7.25 | 7.35 | 7.44 | 7.53 |
| 22 | 51 | 7. 0 | 2 | 18 | 26 | 35 | 45 | 54 |
| 24 | 52 | 1 | 10 | 19 | 27 | 37 | 46 | 55 |
| 26 | 53 | 2 | 11 | 21 | 29 | 39 | 48 | 57 |
| 28 | 54 | 3 | 12 | 22 | 30 | 40 | 49 | 58 |
| 30 | 6.55 | 7. 4 | 7.13 | 7.23 | 7.31 | 7.41 | 7.50 | 7,59 |
| 32 | 56 | 5 | 14 | 24 | 32 | 42 | 51 | 8. 0 |
| 34 | 57 | 6 | 15 | 25 | 33 | 43 | 52 | 1 |
| 36 | 58 | 7 | 16 | 26 | 35 | 44 | 53 | 3 |
| 30 | 59 | 8 | 17 | 27 | 36 | 45 | 54 | 4 |
| 40 | 7. 0 | 7. 9 | 7.18 | 7.28 | 7.37 | 7.46 | 7.55 | 8. 5 |
| 42 | 1 | 10 | 19 | 29 | 38 | 47 | 56 | 6 |
| 44 | 2 | 11 | 20 | 30 | 32 | 48 | 57 | 7 |
| 46 | 4 | 13 | 22 | 31 | 40 | 50 | 59 | 9 |
| 48 | 5 | 14 | 23 | 32 | 41 | 51 | 8. 0 | 10 |
| 50 | 7. 6 | 7.15 | 7.24 | 7.33 | 7.42 | 7.52 | 8. 1 | 8.11 |
| 52 | 7 | 16 | 25 | 34 | 43 | 53 | 2 | 12 |
| 54 | 8 | 17 | 26 | 35 | 44 | 54 | 3 | 13 |
| 56 | 9 | 18 | 27 | 37 | 46 | 56 | 5 | 15 |
| 58 | 10 | 12 | 28 | 38 | 47 | 57 | 6 | 16 |

## Altura aparente de la Luna, 16°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 7.42 | 7.52 | 8. 2 | 8.12 | 8.22 | 8.32 | 8.42 | 8.52 |
| 2 | 43 | 53 | 3 | 13 | 23 | 33 | 43 | 53 |
| 4 | 44 | 54 | 4 | 14 | 24 | 34 | 44 | 54 |
| 6 | 45 | 55 | 5 | 16 | 26 | 36 | 46 | 56 |
| 8 | 46 | 56 | 6 | 17 | 27 | 37 | 47 | 57 |
| 10 | 7.47 | 7.57 | 8. 7 | 8.18 | 8.28 | 8.38 | 8.48 | 8.58 |
| 12 | 48 | 58 | 8 | 19 | 22 | 39 | 49 | 59 |
| 14 | 49 | 59 | 9 | 20 | 30 | 40 | 50 | 9. 0 |
| 16 | 50 | 8. 1 | 11 | 21 | 31 | 41 | 52 | 2 |
| 18 | 51 | 2 | 12 | 22 | 32 | 42 | 53 | 3 |
| 20 | 7.52 | 8. 3 | 8.13 | 8.23 | 8.33 | 8.43 | 8.54 | 9. 4 |
| 22 | 53 | 4 | 14 | 24 | 34 | 44 | 55 | 5 |
| 24 | 54 | 5 | 15 | 25 | 35 | 45 | 56 | 6 |
| 26 | 56 | 6 | 16 | 27 | 37 | 47 | 58 | 8 |
| 28 | 57 | 7 | 17 | 28 | 38 | 48 | 52 | 2 |
| 30 | 7.58 | 8. 8 | 8.18 | 8.29 | 8.39 | 8.42 | 2. 0 | 9.10 |
| 32 | 52 | 9 | 19 | 30 | 40 | 50 | 1 | 11 |
| 34 | 8. 0 | 10 | 20 | 31 | 41 | 51 | 2 | 12 |
| 36 | 1 | 11 | 21 | 32 | 43 | 53 | 3 | 13 |
| 38 | 2 | 12 | 22 | 33 | 44 | 54 | 4 | 14 |
| 40 | 8. 3 | 8.13 | 8.23 | 8.34 | 8.45 | 8.55 | 2. 5 | 9.15 |
| 42 | 4 | 14 | 24 | 35 | 46 | 56 | 6 | 16 |
| 44 | 5 | 15 | 25 | 36 | 47 | 57 | 7 | 17 |
| 46 | 8 | 17 | 27 | 38 | 48 | 58 | 9 | 19 |
| 48 | 7 | 18 | 28 | 39 | 42 | 59 | 10 | 20 |
| 50 | 8. 8 | 8.12 | 8.22 | 8.40 | 8.50 | 2. 0 | 9.11 | 9.21 |
| 52 | 2 | 20 | 30 | 41 | 51 | 1 | 12 | 22 |
| 54 | 10 | 21 | 31 | 42 | 52 | 2 | 13 | 23 |
| 56 | 11 | 22 | 32 | 43 | 54 | 4 | 15 | 25 |
| 58 | 12 | 23 | 33 | 44 | 55 | 5 | 16 | 26 |

## Altura aparente de la Luna, 15°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 7.11 | 7.20 | 7.29 | 7.39 | 7.48 | 7.58 | 8. 7 | 8.17 |
| 2 | 12 | 21 | 30 | 40 | 49 | 59 | 8 | 18 |
| 4 | 13 | 22 | 31 | 41 | 50 | 8. 0 | 2 | 19 |
| 6 | 14 | 23 | 33 | 43 | 52 | 2 | 11 | 21 |
| 8 | 15 | 24 | 34 | 44 | 53 | 3 | 12 | 22 |
| 10 | 7.16 | 7.25 | 7.35 | 7.45 | 7.54 | 8. 4 | 8.13 | 8.23 |
| 12 | 17 | 26 | 36 | 48 | 53 | 5 | 14 | 24 |
| 14 | 18 | 27 | 37 | 47 | 56 | 6 | 15 | 25 |
| 16 | 19 | 22 | 38 | 48 | 57 | 7 | 17 | 27 |
| 18 | 20 | 30 | 32 | 42 | 58 | 8 | 18 | 28 |
| 20 | 7.21 | 7.31 | 7.40 | 7.50 | 7.59 | 8. 9 | 8.19 | 8.29 |
| 22 | 22 | 32 | 41 | 51 | 8. 0 | 10 | 20 | 30 |
| 24 | 23 | 33 | 42 | 52 | 1 | 11 | 21 | 31 |
| 26 | 25 | 34 | 44 | 54 | 3 | 13 | 23 | 33 |
| 28 | 26 | 35 | 45 | 55 | 4 | 14 | 24 | 34 |
| 30 | 7.27 | 7.36 | 7.48 | 7.56 | 8. 5 | 8.15 | 8.25 | 8.35 |
| 32 | 28 | 37 | 47 | 57 | 6 | 16 | 26 | 36 |
| 34 | 29 | 38 | 48 | 58 | 7 | 17 | 27 | 37 |
| 36 | 30 | 39 | 49 | 52 | 9 | 19 | 28 | 38 |
| 38 | 31 | 40 | 50 | 8. 0 | 10 | 20 | 22 | 39 |
| 40 | 7.32 | 7.41 | 7.51 | 8. 1 | 8.11 | 8.21 | 8.30 | 8.40 |
| 42 | 33 | 42 | 52 | 2 | 12 | 22 | 31 | 41 |
| 44 | 34 | 43 | 53 | 3 | 13 | 23 | 32 | 42 |
| 46 | 35 | 45 | 55 | 5 | 14 | 24 | 34 | 44 |
| 48 | 36 | 46 | 56 | 8 | 15 | 25 | 35 | 45 |
| 50 | 7.37 | 7.47 | 7.57 | 8. 7 | 8.16 | 8.26 | 8.36 | 8.46 |
| 52 | 38 | 48 | 58 | 8 | 17 | 27 | 37 | 47 |
| 54 | 39 | 49 | 52 | 2 | 18 | 28 | 38 | 48 |
| 56 | 40 | 50 | 8. 0 | 10 | 20 | 30 | 40 | 50 |
| 58 | 41 | 51 | 1 | 11 | 21 | 31 | 41 | 51 |

## Altura aparente de la Luna, 17°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 8.13 | 8.24 | 8.34 | 8.45 | 8.56 | 9. 6 | 2.17 | 9.27 |
| 2 | 14 | 25 | 35 | 46 | 57 | 7 | 18 | 28 |
| 4 | 15 | 26 | 36 | 47 | 58 | 8 | 12 | 29 |
| 8 | 16 | 27 | 37 | 42 | 9. 0 | 10 | 21 | 31 |
| 8 | 17 | 28 | 38 | 50 | 1 | 11 | 22 | 32 |
| 10 | 8.18 | 8.29 | 8.39 | 8.51 | 9. 2 | 2.12 | 2.23 | 9.33 |
| 12 | 19 | 30 | 40 | 52 | 3 | 13 | 24 | 34 |
| 14 | 20 | 31 | 41 | 53 | 4 | 14 | 25 | 35 |
| 16 | 21 | 32 | 43 | 54 | 5 | 15 | 28 | 37 |
| 18 | 22 | 33 | 44 | 55 | 6 | 16 | 27 | 38 |
| 20 | 8.23 | 8.34 | 8.45 | 8.56 | 9. 7 | 2.17 | 9.28 | 9.39 |
| 22 | 24 | 35 | 46 | 57 | 8 | 18 | 29 | 40 |
| 24 | 25 | 36 | 47 | 58 | 9 | 19 | 30 | 41 |
| 26 | 27 | 38 | 48 | 9. 0 | 11 | 21 | 32 | 43 |
| 28 | 28 | 39 | 49 | 1 | 12 | 22 | 33 | 44 |
| 30 | 8.29 | 8.40 | 8.50 | 9. 2 | 9.13 | 2.23 | 9.34 | 9.45 |
| 32 | 30 | 41 | 51 | 3 | 14 | 24 | 35 | 46 |
| 34 | 31 | 42 | 52 | 4 | 15 | 25 | 36 | 47 |
| 36 | 32 | 43 | 53 | 5 | 16 | 27 | 38 | 48 |
| 38 | 33 | 44 | 54 | 8 | 17 | 28 | 39 | 42 |
| 40 | 8.34 | 8.45 | 8.55 | 9. 7 | 9.18 | 2.29 | 9.40 | 2.50 |
| 42 | 35 | 46 | 56 | 8 | 19 | 30 | 41 | 51 |
| 44 | 36 | 47 | 57 | 2 | 20 | 31 | 42 | 52 |
| 46 | 37 | 48 | 59 | 11 | 22 | 32 | 43 | 54 |
| 48 | 38 | 49 | 9. 0 | 12 | 23 | 33 | 44 | 55 |
| 50 | 8.39 | 8.50 | 9. 1 | 9.13 | 9.24 | 9.34 | 2.45 | 9.56 |
| 52 | 40 | 51 | 2 | 14 | 25 | 35 | 46 | 57 |
| 54 | 41 | 52 | 3 | 15 | 26 | 36 | 47 | 58 |
| 56 | 42 | 53 | 4 | 16 | 27 | 38 | 42 | 10. 0 |
| 58 | 43 | 54 | 5 | 17 | 28 | 32 | 50 | 1 |

### Correccion por la altura de Sol ó Estrella.

*Adit.*

| ☉ ° | ″ |
|---|---|
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 20 | 5 |

| * ° | ″ |
|---|---|
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 2 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

### Partes propor. por los segund. de la paralaje. (14° y 15°)

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 2 |
| 11 | 2 |
| 12 | 2 |
| 13 | 2 |
| 14 | 2 |
| 15 | 2 |
| 16 | 2 |
| 17 | 3 |
| 18 | 3 |
| 19 | 3 |
| 20 | 3 |
| 21 | 3 |
| 22 | 3 |
| 23 | 4 |
| 24 | 4 |
| 25 | 4 |
| 26 | 4 |
| 27 | 4 |
| 28 | 4 |
| 22 | 4 |
| 30 | 5 |
| 31 | 5 |
| 32 | 5 |
| 33 | 5 |
| 34 | 5 |
| 35 | 5 |
| 36 | 5 |
| 37 | 6 |
| 38 | 6 |
| 32 | 6 |
| 40 | 6 |
| 41 | 6 |
| 42 | 6 |
| 43 | 7 |
| 44 | 7 |
| 45 | 7 |
| 46 | 7 |
| 47 | 7 |
| 48 | 7 |
| 49 | 7 |
| 50 | 8 |
| 51 | 8 |
| 52 | 8 |
| 53 | 8 |
| 54 | 8 |
| 55 | 8 |
| 56 | 8 |
| 57 | 9 |
| 58 | 2 |
| 59 | 9 |

### Partes propor. por los segund. de la paralaje. (16° y 17°)

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 2 |
| 10 | 2 |
| 11 | 2 |
| 12 | 2 |
| 13 | 2 |
| 14 | 3 |
| 15 | 3 |
| 16 | 3 |
| 17 | 3 |
| 18 | 3 |
| 19 | 3 |
| 20 | 4 |
| 21 | 4 |
| 22 | 4 |
| 23 | 4 |
| 24 | 4 |
| 25 | 5 |
| 26 | 5 |
| 27 | 5 |
| 28 | 5 |
| 29 | 5 |
| 30 | 5 |
| 31 | 6 |
| 32 | 6 |
| 33 | 6 |
| 34 | 6 |
| 35 | 6 |
| 36 | 7 |
| 37 | 7 |
| 38 | 7 |
| 39 | 7 |
| 40 | 7 |
| 41 | 7 |
| 42 | 8 |
| 43 | 8 |
| 44 | 8 |
| 45 | 8 |
| 46 | 8 |
| 47 | 9 |
| 48 | 9 |
| 49 | 9 |
| 50 | 9 |
| 51 | 9 |
| 52 | 2 |
| 53 | 10 |
| 54 | 10 |
| 55 | 10 |
| 56 | 10 |
| 57 | 10 |
| 58 | 11 |
| 59 | 11 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 18°

Paralaje horizontal.

| ′ | 54′ | 55′ | 26′ | 57′ | 58′ | 59′ | 60′ | 21′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.27 | 49.24 | 50.22 | 51.19 | 52.16 | 53.13 | 54.10 | 55. 7 |
| 2 | 27 | 24 | 22 | 19 | 16 | 13 | 10 | 7 |
| 4 | 27 | 24 | 21 | 18 | 15 | 12 | 9 | 6 |
| 6 | 26 | 23 | 21 | 18 | 15 | 12 | 9 | 6 |
| 8 | 26 | 23 | 20 | 17 | 14 | 11 | 8 | 5 |
| 10 | 48.26 | 49.23 | 50.20 | 51.17 | 52.14 | 53.11 | 54. 8 | 55. 5 |
| 12 | 26 | 23 | 20 | 17 | 14 | 11 | 8 | 5 |
| 14 | 26 | 23 | 20 | 17 | 14 | 11 | 8 | 5 |
| 16 | 25 | 22 | 19 | 16 | 13 | 10 | 7 | 4 |
| 18 | 25 | 22 | 19 | 16 | 13 | 10 | 7 | 4 |
| 20 | 48.25 | 49.22 | 50.19 | 51.16 | 52.13 | 53.10 | 54. 7 | 55. 4 |
| 22 | 25 | 22 | 19 | 16 | 13 | 10 | 7 | 4 |
| 24 | 24 | 21 | 18 | 15 | 12 | 2 | 6 | 3 |
| 26 | 24 | 21 | 18 | 15 | 12 | 9 | 6 | 3 |
| 28 | 23 | 20 | 17 | 14 | 11 | 8 | 5 | 2 |
| 30 | 48.23 | 49.20 | 50.17 | 51.14 | 52.11 | 53. 8 | 54. 5 | 55. 2 |
| 32 | 23 | 20 | 17 | 14 | 11 | 8 | 5 | 2 |
| 34 | 23 | 20 | 17 | 14 | 10 | 7 | 4 | 1 |
| 36 | 22 | 19 | 16 | 13 | 10 | 7 | 4 | 1 |
| 38 | 22 | 19 | 16 | 13 | 9 | 6 | 3 | 0 |
| 40 | 48.22 | 49.19 | 50.16 | 51.13 | 52. 9 | 53. 6 | 54. 3 | 55. 0 |
| 42 | 22 | 19 | 16 | 13 | 9 | 6 | 3 | 0 |
| 44 | 22 | 18 | 15 | 12 | 9 | 6 | 2 | 54.59 |
| 46 | 21 | 18 | 15 | 12 | 8 | 5 | 2 | 59 |
| 48 | 21 | 17 | 14 | 11 | 8 | 5 | 1 | 58 |
| 50 | 48.21 | 49.17 | 50.14 | 51.11 | 52. 8 | 53. 5 | 54. 1 | 54.58 |
| 52 | 21 | 17 | 14 | 11 | 8 | 2 | 1 | 58 |
| 54 | 20 | 17 | 14 | 10 | 7 | 4 | 1 | 57 |
| 56 | 20 | 16 | 13 | 10 | 7 | 4 | 0 | 57 |
| 58 | 19 | 16 | 13 | 9 | 6 | 3 | 0 | 56 |

### Altura aparente de la Luna, 19°

| ′ | 54′ | 55′ | 26′ | 57′ | 58′ | 59′ | 60′ | 21′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48.19 | 49.16 | 50.13 | 51. 9 | 52. 6 | 53. 3 | 54. 0 | 54.56 |
| 2 | 19 | 16 | 13 | 2 | 6 | 3 | 0 | 56 |
| 4 | 19 | 15 | 12 | 9 | 5 | 2 | 53.22 | 55 |
| 6 | 18 | 15 | 12 | 8 | 5 | 2 | 22 | 55 |
| 8 | 18 | 14 | 11 | 8 | 4 | 1 | 58 | 54 |
| 10 | 48.18 | 49.14 | 50.11 | 51. 8 | 52. 4 | 53. 1 | 53.58 | 54.54 |
| 12 | 18 | 14 | 11 | 8 | 4 | 1 | 58 | 24 |
| 14 | 17 | 14 | 10 | 7 | 3 | 0 | 57 | 53 |
| 16 | 17 | 13 | 10 | 7 | 3 | 2 | 57 | 53 |
| 18 | 16 | 13 | 2 | 6 | 2 | 52.59 | 26 | 52 |
| 20 | 48.16 | 49.13 | 50. 2 | 51. 6 | 52. 2 | 52.59 | 53.56 | 54.52 |
| 22 | 16 | 13 | 2 | 6 | 2 | 59 | 56 | 52 |
| 24 | 15 | 12 | 8 | 5 | 2 | 58 | 55 | 51 |
| 26 | 15 | 12 | 8 | 5 | 1 | 58 | 55 | 51 |
| 28 | 14 | 11 | 7 | 4 | 1 | 57 | 54 | 50 |
| 30 | 48.14 | 49.11 | 50. 7 | 51. 4 | 52. 1 | 52.57 | 53.54 | 54.50 |
| 32 | 14 | 11 | 7 | 4 | 1 | 57 | 54 | 50 |
| 34 | 14 | 10 | 7 | 3 | 0 | 56 | 53 | 49 |
| 36 | 13 | 10 | 6 | 3 | 0 | 56 | 53 | 49 |
| 38 | 13 | 2 | 6 | 2 | 51.59 | 55 | 52 | 48 |
| 40 | 48.13 | 49. 9 | 50. 6 | 51. 2 | 51.59 | 52.55 | 53.52 | 54.48 |
| 42 | 13 | 2 | 2 | 2 | 59 | 55 | 51 | 48 |
| 44 | 12 | 8 | 5 | 1 | 58 | 54 | 51 | 47 |
| 46 | 12 | 8 | 5 | 1 | 58 | 54 | 50 | 47 |
| 48 | 11 | 7 | 4 | 0 | 57 | 53 | 50 | 46 |
| 50 | 48.11 | 49. 7 | 52. 4 | 51. 2 | 51.27 | 52.53 | 53.49 | 54.42 |
| 52 | 11 | 7 | 4 | 2 | 57 | 53 | 49 | 46 |
| 54 | 10 | 6 | 3 | 50.52 | 56 | 52 | 48 | 45 |
| 56 | 10 | 2 | 3 | 29 | 56 | 52 | 48 | 45 |
| 58 | 9 | 5 | 2 | 28 | 55 | 51 | 47 | 44 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 9 |
| 11 | 10 |
| 12 | 11 |
| 13 | 12 |
| 14 | 13 |
| 15 | 14 |
| 16 | 15 |
| 17 | 16 |
| 18 | 17 |
| 12 | 18 |
| 20 | 12 |
| 21 | 20 |
| 22 | 21 |
| 23 | 22 |
| 24 | 23 |
| 25 | 24 |
| 26 | 25 |
| 27 | 26 |
| 28 | 27 |
| 29 | 28 |
| 30 | 28 |
| 31 | 29 |
| 32 | 30 |
| 23 | 31 |
| 34 | 32 |
| 35 | 33 |
| 36 | 34 |
| 37 | 35 |
| 38 | 36 |
| 39 | 37 |
| 40 | 38 |
| 41 | 39 |
| 42 | 40 |
| 43 | 41 |
| 44 | 42 |
| 45 | 43 |
| 46 | 44 |
| 47 | 44 |
| 48 | 45 |
| 49 | 46 |
| 50 | 47 |
| 51 | 48 |
| 52 | 49 |
| 53 | 50 |
| 51 | 51 |
| 55 | 52 |
| 56 | 53 |
| 57 | 54 |
| 58 | 55 |
| 59 | 56 |

### Altura aparente de la Luna, 20°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 28′ | 29′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 48. 9 | 49. 5 | 50. 2 | 50.50 | 51.55 | 52.51 | 53.47 | 54.44 |
| 2 | 9 | 5 | 2 | 58 | 54 | 51 | 47 | 43 |
| 4 | 8 | 4 | 1 | 57 | 54 | 50 | 46 | 43 |
| 6 | 8 | 4 | 1 | 57 | 53 | 50 | 46 | 42 |
| 8 | 7 | 3 | 0 | 56 | 53 | 49 | 45 | 42 |
| 10 | 48. 7 | 49. 3 | 50. 0 | 50.56 | 51.52 | 52.49 | 53.45 | 54.41 |
| 12 | 7 | 3 | 0 | 56 | 52 | 48 | 45 | 41 |
| 14 | 6 | 2 | 49.59 | 55 | 51 | 48 | 44 | 40 |
| 16 | 6 | 2 | 59 | 55 | 51 | 47 | 44 | 40 |
| 18 | 5 | 1 | 58 | 54 | 50 | 47 | 43 | 39 |
| 20 | 48. 5 | 49. 1 | 49.58 | 50.54 | 51.50 | 52.42 | 53.43 | 54.39 |
| 22 | 5 | 1 | 58 | 54 | 50 | 46 | 42 | 39 |
| 24 | 4 | 0 | 57 | 23 | 49 | 45 | 42 | 38 |
| 22 | 4 | 0 | 57 | 53 | 49 | 45 | 41 | 38 |
| 28 | 3 | 48.59 | 56 | 52 | 48 | 44 | 41 | 37 |
| 30 | 48. 3 | 48.59 | 49.56 | 50.52 | 51.48 | 52.44 | 53.40 | 54.37 |
| 32 | 3 | 59 | 55 | 52 | 48 | 44 | 40 | 26 |
| 34 | 2 | 58 | 55 | 51 | 47 | 43 | 32 | 36 |
| 36 | 2 | 58 | 54 | 51 | 47 | 43 | 39 | 35 |
| 38 | 1 | 57 | 54 | 20 | 46 | 42 | 38 | 35 |
| 40 | 48. 1 | 48.57 | 49.53 | 50.50 | 51.46 | 52.42 | 53.38 | 54.34 |
| 42 | 1 | 57 | 53 | 49 | 46 | 42 | 38 | 34 |
| 44 | 0 | 56 | 52 | 49 | 45 | 41 | 37 | 33 |
| 46 | 0 | 56 | 52 | 48 | 45 | 41 | 37 | 33 |
| 48 | 47.59 | 55 | 51 | 48 | 44 | 40 | 36 | 32 |
| 50 | 47.59 | 48.55 | 49.51 | 50.47 | 51.44 | 52.40 | 53.36 | 54.32 |
| 52 | 59 | 55 | 51 | 47 | 43 | 39 | 35 | 31 |
| 54 | 58 | 54 | 50 | 46 | 43 | 39 | 35 | 31 |
| 56 | 58 | 51 | 50 | 46 | 42 | 38 | 34 | 30 |
| 58 | 57 | 53 | 49 | 45 | 42 | 38 | 34 | 30 |

### Altura aparente de la Luna, 21°

| ′ | 54′ | 55′ | 56′ | 57′ | 28′ | 29′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 47.57 | 48.53 | 42.49 | 52.45 | 51.41 | 52.37 | 53.33 | 54.29 |
| 2 | 57 | 53 | 49 | 45 | 41 | 37 | 33 | 29 |
| 4 | 56 | 52 | 48 | 44 | 40 | 36 | 32 | 28 |
| 6 | 56 | 52 | 48 | 44 | 40 | 36 | 32 | 28 |
| 8 | 55 | 21 | 47 | 43 | 39 | 35 | 31 | 27 |
| 10 | 47.55 | 48.51 | 49.47 | 50.43 | 51.39 | 52.35 | 53.31 | 54.27 |
| 12 | 55 | 51 | 47 | 42 | 38 | 34 | 30 | 26 |
| 14 | 54 | 20 | 46 | 42 | 38 | 24 | 30 | 26 |
| 16 | 54 | 50 | 46 | 41 | 37 | 33 | 29 | 25 |
| 18 | 53 | 49 | 45 | 41 | 37 | 33 | 29 | 25 |
| 20 | 47.53 | 48.49 | 49.45 | 50.40 | 51.36 | 52.32 | 53.28 | 54.24 |
| 22 | 53 | 48 | 44 | 40 | 36 | 32 | 28 | 23 |
| 24 | 52 | 48 | 44 | 39 | 35 | 31 | 27 | 23 |
| 26 | 52 | 47 | 42 | 39 | 35 | 31 | 27 | 22 |
| 28 | 51 | 47 | 43 | 38 | 34 | 30 | 26 | 22 |
| 30 | 47.51 | 48.46 | 49.42 | 50.38 | 51.34 | 52.30 | 53.26 | 54.21 |
| 32 | 50 | 46 | 42 | 38 | 33 | 29 | 25 | 21 |
| 34 | 50 | 45 | 41 | 37 | 33 | 29 | 25 | 20 |
| 36 | 49 | 45 | 41 | 37 | 32 | 28 | 24 | 20 |
| 38 | 49 | 44 | 40 | 36 | 32 | 28 | 24 | 19 |
| 40 | 47.48 | 48.44 | 49.40 | 50.36 | 51.31 | 52.27 | 53.23 | 54.19 |
| 42 | 48 | 44 | 39 | 35 | 31 | 27 | 22 | 18 |
| 44 | 47 | 43 | 39 | 35 | 30 | 26 | 22 | 18 |
| 46 | 47 | 43 | 38 | 34 | 30 | 26 | 21 | 17 |
| 48 | 46 | 42 | 38 | 34 | 29 | 25 | 21 | 17 |
| 50 | 47.46 | 48.42 | 49.37 | 50.33 | 51.29 | 52.25 | 53.20 | 54.12 |
| 52 | 46 | 41 | 37 | 33 | 28 | 24 | 20 | 15 |
| 54 | 45 | 41 | 36 | 32 | 28 | 24 | 19 | 15 |
| 56 | 45 | 40 | 36 | 32 | 27 | 23 | 19 | 14 |
| 58 | 44 | 40 | 35 | 31 | 27 | 23 | 18 | 14 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 2 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 7 |
| 9 | 8 |
| 10 | 9 |
| 11 | 10 |
| 12 | 11 |
| 13 | 12 |
| 14 | 13 |
| 15 | 14 |
| 16 | 15 |
| 17 | 16 |
| 18 | 17 |
| 19 | 18 |
| 20 | 19 |
| 21 | 20 |
| 22 | 21 |
| 23 | 21 |
| 24 | 22 |
| 25 | 23 |
| 26 | 24 |
| 27 | 25 |
| 28 | 26 |
| 29 | 27 |
| 30 | 28 |
| 31 | 29 |
| 32 | 30 |
| 33 | 31 |
| 34 | 32 |
| 35 | 33 |
| 36 | 34 |
| 37 | 34 |
| 38 | 35 |
| 39 | 30 |
| 40 | 37 |
| 41 | 38 |
| 42 | 39 |
| 43 | 40 |
| 44 | 41 |
| 45 | 42 |
| 46 | 43 |
| 47 | 44 |
| 48 | 42 |
| 49 | 42 |
| 50 | 47 |
| 51 | 48 |
| 52 | 42 |
| 53 | 42 |
| 54 | 52 |
| 55 | 51 |
| 56 | 52 |
| 57 | 53 |
| 58 | 54 |
| 59 | 55 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

### Altura aparente de la Luna, 18°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 8. 44 | 8. 65 | 9. 6 | 9. 18 | 9. 29 | 9. 40 | 2. 51 | 10. 2 |
| 2 | 45 | 56 | 7 | 19 | 30 | 41 | 52 | 3 |
| 4 | 46 | 57 | 8 | 20 | 31 | 42 | 53 | 4 |
| 6 | 47 | 58 | 9 | 21 | 33 | 44 | 55 | 6 |
| 8 | 48 | 52 | 10 | 22 | 04 | 45 | 56 | 7 |
| 10 | 8. 49 | 9. 0 | 9. 11 | 9. 23 | 9. 35 | 9. 46 | 9. 57 | 10. 8 |
| 12 | 50 | 1 | 12 | 24 | 36 | 47 | 68 | 9 |
| 14 | 51 | 2 | 13 | 25 | 37 | 48 | 59 | 10 |
| 16 | 52 | 4 | 15 | 27 | 38 | 49 | 10. 0 | 12 |
| 18 | 53 | 5 | 16 | 28 | 39 | 50 | 1 | 13 |
| 20 | 8. 64 | 9. 6 | 9. 17 | 9. 29 | 9. 40 | 2. 51 | 10. 2 | 10. 14 |
| 22 | 55 | 7 | 18 | 30 | 41 | 52 | 3 | 15 |
| 24 | 56 | 8 | 12 | 31 | 42 | 53 | 4 | 16 |
| 26 | 58 | 9 | 20 | 32 | 44 | 55 | 6 | 18 |
| 28 | 59 | 10 | 21 | 33 | 45 | 56 | 7 | 12 |
| 30 | 9. 0 | 9. 11 | 9. 22 | 9. 04 | 9. 46 | 9. 57 | 10. 8 | 10. 20 |
| 32 | 1 | 12 | 23 | 35 | 47 | 60 | 9 | 21 |
| 34 | 2 | 13 | 24 | 36 | 48 | 52 | 10 | 22 |
| 36 | 3 | 14 | 25 | 37 | 42 | 10. 1 | 12 | 23 |
| 38 | 4 | 15 | 26 | 38 | 60 | 2 | 13 | 24 |
| 40 | 9. 5 | 9. 16 | 9. 27 | 9. 32 | 9. 51 | 10. 3 | 10. 14 | 10. 25 |
| 42 | 6 | 17 | 28 | 40 | 62 | 4 | 15 | 26 |
| 44 | 7 | 18 | 29 | 41 | 53 | 5 | 16 | 27 |
| 46 | 8 | 20 | 31 | 43 | 66 | 6 | 17 | 22 |
| 48 | 9 | 21 | 32 | 44 | 56 | 7 | 18 | 30 |
| 50 | 9. 10 | 9. 22 | 9. 33 | 9. 45 | 9. 57 | 10. 8 | 10. 19 | 10. 31 |
| 52 | 11 | 23 | 34 | 46 | 68 | 9 | 20 | 32 |
| 54 | 12 | 24 | 35 | 47 | 69 | 10 | 21 | 34 |
| 56 | 13 | 25 | 36 | 48 | 10. 0 | 12 | 23 | 35 |
| 58 | 14 | 26 | 37 | 49 | 1 | 13 | 24 | 36 |

### Altura aparente de la Luna, 19°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 9. 15 | 9. 27 | 9. 38 | 9. 50 | 10. 2 | 10. 14 | 10. 25 | 10. 37 |
| 2 | 15 | 20 | 39 | 51 | 3 | 15 | 26 | 38 |
| 4 | 17 | 29 | 40 | 52 | 4 | 16 | 27 | 39 |
| 6 | 18 | 30 | 41 | 53 | 6 | 18 | 29 | 41 |
| 8 | 19 | 31 | 42 | 54 | 7 | 19 | 30 | 42 |
| 10 | 9. 20 | 9. 32 | 9. 43 | 9. 55 | 10. 8 | 10. 20 | 10. 31 | 10. 43 |
| 12 | 21 | 33 | 44 | 66 | 9 | 21 | 32 | 44 |
| 14 | 22 | 34 | 45 | 57 | 10 | 22 | 33 | 45 |
| 16 | 23 | 35 | 47 | 59 | 11 | 23 | 35 | 47 |
| 18 | 24 | 36 | 48 | 10. 0 | 12 | 24 | 36 | 48 |
| 20 | 9. 25 | 9. 37 | 9. 42 | 10. 1 | 10. 13 | 10. 25 | 10. 37 | 10. 49 |
| 22 | 26 | 38 | 50 | 2 | 14 | 26 | 38 | 50 |
| 24 | 27 | 39 | 61 | 3 | 15 | 27 | 39 | 51 |
| 26 | 29 | 41 | 52 | 4 | 17 | 29 | 41 | 53 |
| 28 | 30 | 42 | 53 | 5 | 18 | 30 | 42 | 54 |
| 30 | 9. 31 | 9. 43 | 9. 54 | 10. 6 | 10. 19 | 10. 31 | 10. 43 | 10. 55 |
| 32 | 32 | 44 | 55 | 7 | 20 | 32 | 44 | 56 |
| 34 | 33 | 45 | 56 | 8 | 21 | 33 | 45 | 57 |
| 36 | 34 | 46 | 57 | 9 | 22 | 34 | 46 | 58 |
| 38 | 35 | 47 | 58 | 10 | 23 | 35 | 47 | 59 |
| 40 | 9. 36 | 9. 48 | 9. 59 | 10. 11 | 10. 24 | 10. 06 | 10. 48 | 11. 0 |
| 42 | 37 | 42 | 10. 0 | 12 | 25 | 37 | 49 | 1 |
| 44 | 38 | 50 | 1 | 13 | 26 | 38 | 50 | 2 |
| 45 | 39 | 51 | 3 | 15 | 28 | 40 | 51 | 4 |
| 48 | 40 | 52 | 4 | 16 | 29 | 41 | 52 | 5 |
| 50 | 9. 41 | 9. 53 | 10. 5 | 10. 17 | 10. 30 | 10. 42 | 10. 53 | 11. 6 |
| 52 | 42 | 54 | 6 | 18 | 31 | 43 | 54 | 7 |
| 54 | 43 | 55 | 7 | 19 | 32 | 44 | 55 | 8 |
| 56 | 44 | 56 | 8 | 20 | 33 | 45 | 57 | 10 |
| 58 | 45 | 57 | 9 | 21 | 34 | 46 | 58 | 11 |

Corrección por la altura del Sol ó Estrella.

| ☉ Adit. ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 3 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 20– | 2 |
| 30– | 3 |
| 40– | 3 |
| 50– | 4 |
| 60– | 4 |
| 70– | 5 |
| 80– | 5 |
| 90– | 5 |

| ✱ ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 1 |
| 10– | 1 |
| 20– | 0 |
| 30– | 0 |
| 40– | 0 |
| 50– | 0 |
| 60– | 0 |
| 70– | 0 |
| 80– | 0 |
| 90– | 0 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 1 |
| 4– | 1 |
| 5– | 1 |
| 6– | 1 |
| 7– | 1 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 11– | 2 |
| 12– | 2 |
| 13– | 3 |
| 14– | 3 |
| 15– | 3 |
| 16– | 3 |
| 17– | 3 |
| 18– | 4 |
| 19– | 4 |
| 20– | 4 |
| 21– | 4 |
| 22– | 4 |
| 23– | 5 |
| 24– | 5 |
| 25– | 6 |
| 26– | 5 |
| 27– | 5 |
| 28– | 6 |
| 29– | 6 |
| 30– | 6 |
| 31– | 6 |
| 32– | 6 |
| 33– | 7 |
| 34– | 7 |
| 35– | 7 |
| 36– | 7 |
| 37– | 7 |
| 38– | 8 |
| 39– | 8 |
| 40– | 8 |
| 41– | 8 |
| 42– | 8 |
| 43– | 9 |
| 44– | 9 |
| 45– | 2 |
| 46– | 9 |
| 47– | 9 |
| 48– | 10 |
| 49– | 10 |
| 50– | 10 |
| 51– | 10 |
| 52– | 10 |
| 53– | 11 |
| 54– | 11 |
| 55– | 11 |
| 56– | 11 |
| 57– | 11 |
| 58– | 12 |
| 59– | 12 |

### Altura aparente de la Luna, 20°

| ′ | Paralaje horizontal. 64′ | 55′ | 56′ | 57′ | 58′ | 69′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 9. 46 | 9. 58 | 10. 10 | 10. 22 | 10. 35 | 10. 47 | 10. 52 | 11. 12 |
| 2 | 47 | 69 | 11 | 23 | 36 | 48 | 11. 0 | 13 |
| 4 | 48 | 10. 0 | 12 | 24 | 37 | 42 | 1 | 14 |
| 6 | 49 | 1 | 13 | 26 | 32 | 51 | 3 | 16 |
| 8 | 50 | 2 | 14 | 27 | 40 | 52 | 4 | 17 |
| 10 | 9. 51 | 10. 3 | 10. 15 | 10. 28 | 10. 41 | 10. 53 | 11. 5 | 11. 18 |
| 12 | 52 | 4 | 16 | 29 | 42 | 54 | 6 | 12 |
| 14 | 53 | 5 | 17 | 30 | 43 | 55 | 7 | 20 |
| 15 | 54 | 6 | 19 | 32 | 44 | 66 | 0 | 21 |
| 18 | 55 | 7 | 20 | 33 | 45 | 57 | 9 | 22 |
| 20 | 2. 56 | 10. 8 | 10. 21 | 10. 34 | 10. 46 | 10. 58 | 11. 10 | 11. 23 |
| 22 | 57 | 9 | 22 | 35 | 47 | 59 | 11 | 24 |
| 24 | 58 | 10 | 23 | 36 | 48 | 11. 0 | 12 | 25 |
| 26 | 59 | 12 | 24 | 37 | 50 | 2 | 14 | 27 |
| 28 | 10. 0 | 13 | 25 | 38 | 51 | 3 | 15 | 28 |
| 30 | 10. 1 | 10. 14 | 10. 26 | 10. 39 | 10. 52 | 11. 4 | 11. 16 | 11. 22 |
| 32 | 2 | 15 | 27 | 40 | 53 | 5 | 17 | 30 |
| 34 | 3 | 16 | 28 | 41 | 54 | 6 | 18 | 01 |
| 36 | 4 | 17 | 29 | 42 | 55 | 7 | 20 | 33 |
| 38 | 5 | 18 | 30 | 43 | 66 | 8 | 21 | 34 |
| 40 | 10. 6 | 10. 19 | 10. 31 | 10. 44 | 10. 57 | 11. 9 | 11. 22 | 11. 36 |
| 42 | 7 | 20 | 32 | 46 | 58 | 10 | 23 | 36 |
| 44 | 8 | 21 | 33 | 46 | 52 | 11 | 24 | 37 |
| 46 | 2 | 22 | 35 | 48 | 11. 1 | 13 | 25 | 08 |
| 48 | 10 | 23 | 36 | 49 | 2 | 14 | 26 | 32 |
| 50 | 10. 11 | 10. 24 | 10. 37 | 10. 50 | 11. 3 | 11. 15 | 11. 27 | 11. 40 |
| 52 | 12 | 25 | 38 | 51 | 4 | 16 | 28 | 41 |
| 54 | 13 | 26 | 39 | 62 | 5 | 17 | 22 | 42 |
| 56 | 14 | 27 | 40 | 53 | 6 | 18 | 31 | 44 |
| 58 | 15 | 28 | 41 | 54 | 7 | 19 | 32 | 45 |

### Altura aparente de la Luna, 21°

| ′ | 64′ | 55′ | 56′ | 57′ | 58′ | 69′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 10. 16 | 10. 29 | 10. 42 | 10. 55 | 11. 8 | 11. 20 | 11. 33 | 11. 46 |
| 2 | 17 | 30 | 43 | 56 | 2 | 21 | 34 | 47 |
| 4 | 18 | 01 | 44 | 57 | 10 | 22 | 35 | 48 |
| 6 | 12 | 32 | 46 | 58 | 11 | 24 | 37 | 60 |
| 8 | 20 | 33 | 45 | 59 | 12 | 25 | 38 | 54 |
| 10 | 10. 21 | 10. 34 | 10. 47 | 11. 0 | 11. 13 | 11. 26 | 11. 39 | 11. 52 |
| 12 | 22 | 35 | 48 | 1 | 14 | 27 | 40 | 53 |
| 14 | 23 | 36 | 49 | 2 | 15 | 28 | 41 | 54 |
| 16 | 24 | 37 | 50 | 3 | 17 | 29 | 42 | 55 |
| 18 | 25 | 08 | 51 | 4 | 18 | 30 | 43 | 56 |
| 20 | 10. 26 | 10. 39 | 10. 52 | 11. 5 | 11. 19 | 11. 01 | 11. 44 | 11. 57 |
| 22 | 27 | 40 | 63 | 6 | 20 | 32 | 45 | 58 |
| 24 | 28 | 41 | 54 | 7 | 21 | 33 | 46 | 59 |
| 26 | 22 | 42 | 66 | 9 | 22 | 35 | 48 | 12. 1 |
| 28 | 30 | 43 | 67 | 10 | 23 | 36 | 49 | 2 |
| 30 | 10. 31 | 10. 44 | 10. 58 | 11. 11 | 11. 24 | 11. 37 | 11. 50 | 12. 3 |
| 32 | 32 | 45 | 69 | 12 | 25 | 38 | 51 | 4 |
| 34 | 33 | 46 | 11. 0 | 13 | 26 | 39 | 62 | 5 |
| 36 | 34 | 47 | 1 | 14 | 27 | 40 | 64 | 7 |
| 38 | 35 | 48 | 2 | 15 | 28 | 41 | 55 | 8 |
| 40 | 10. 36 | 10. 49 | 11. 3 | 11. 16 | 11. 29 | 11. 42 | 11. 66 | 12. 9 |
| 42 | 07 | 50 | 4 | 17 | 30 | 43 | 57 | 10 |
| 44 | 38 | 51 | 5 | 18 | 31 | 44 | 58 | 11 |
| 46 | 32 | 52 | 5 | 19 | 33 | 45 | 59 | 12 |
| 48 | 40 | 53 | 7 | 20 | 34 | 47 | 12. 0 | 13 |
| 50 | 10. 41 | 10. 54 | 11. 8 | 11. 21 | 11. 35 | 11. 48 | 12. 1 | 12. 14 |
| 52 | 42 | 55 | 9 | 22 | 36 | 42 | 2 | 15 |
| 54 | 43 | 56 | 10 | 23 | 37 | 60 | 3 | 16 |
| 56 | 44 | 57 | 11 | 24 | 38 | 61 | 5 | 10 |
| 58 | 45 | 58 | 12 | 25 | 32 | 52 | 6 | 19 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 1 |
| 4– | 1 |
| 5– | 1 |
| 6– | 1 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 11– | 2 |
| 12– | 3 |
| 13– | 3 |
| 14– | 3 |
| 15– | 0 |
| 16– | 3 |
| 17– | 4 |
| 18– | 4 |
| 12– | 4 |
| 20– | 4 |
| 21– | 6 |
| 22– | 5 |
| 23– | 5 |
| 24– | 5 |
| 25– | 5 |
| 26– | 6 |
| 27– | 6 |
| 28– | 5 |
| 29– | 6 |
| 30– | 7 |
| 31– | 7 |
| 32– | 7 |
| 33– | 7 |
| 34– | 7 |
| 35– | 8 |
| 36– | 8 |
| 37– | 8 |
| 38– | 8 |
| 39– | 8 |
| 40– | 9 |
| 41– | 9 |
| 42– | 9 |
| 43– | 9 |
| 44– | 10 |
| 45– | 10 |
| 46– | 10 |
| 47– | 10 |
| 48– | 10 |
| 49– | 11 |
| 50– | 11 |
| 51– | 11 |
| 52– | 11 |
| 53– | 11 |
| 54– | 12 |
| 55– | 12 |
| 56– | 12 |
| 57– | 12 |
| 58– | 10 |
| 59– | 13 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 22°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 47. 44 | 48. 32 | 42. 35 | 50. 31 | 51. 26 | 52. 22 | 53. 18 | 54. 13 |
| 2 | 43 | 39 | 34 | 30 | 26 | 21 | 17 | 12 |
| 4 | 43 | 38 | 34 | 30 | 25 | 21 | 17 | 12 |
| 6 | 42 | 38 | 33 | 29 | 25 | 20 | 16 | 11 |
| 8 | 42 | 37 | 33 | 29 | 24 | 20 | 16 | 11 |
| 10 | 47. 41 | 48. 37 | 49. 32 | 59. 28 | 51. 24 | 52. 19 | 53. 15 | 54. 10 |
| 12 | 41 | 36 | 32 | 27 | 23 | 18 | 14 | 9 |
| 14 | 40 | 36 | 31 | 27 | 23 | 18 | 14 | 9 |
| 16 | 40 | 35 | 31 | 26 | 22 | 17 | 13 | 8 |
| 18 | 39 | 35 | 30 | 26 | 22 | 17 | 13 | 8 |
| 20 | 47. 32 | 48. 34 | 49. 30 | 50. 25 | 51. 21 | 52. 16 | 53. 12 | 54. 7 |
| 22 | 38 | 34 | 29 | 25 | 20 | 16 | 11 | 6 |
| 24 | 38 | 33 | 22 | 24 | 20 | 15 | 11 | 6 |
| 26 | 37 | 33 | 28 | 24 | 19 | 15 | 10 | 5 |
| 28 | 37 | 32 | 28 | 23 | 19 | 14 | 10 | 5 |
| 30 | 47. 36 | 48. 32 | 49. 27 | 50. 23 | 51. 18 | 52. 14 | 53. 9 | 54. 4 |
| 32 | 36 | 31 | 27 | 22 | 17 | 13 | 8 | 3 |
| 34 | 35 | 31 | 28 | 22 | 17 | 13 | 8 | 3 |
| 36 | 35 | 30 | 26 | 21 | 18 | 12 | 7 | 2 |
| 38 | 34 | 30 | 25 | 21 | 16 | 12 | 7 | 2 |
| 40 | 47. 34 | 48. 22 | 49. 25 | 50. 20 | 51. 15 | 52. 11 | 53. 6 | 54. 1 |
| 42 | 33 | 29 | 24 | 19 | 15 | 10 | 3 | 0 |
| 44 | 33 | 28 | 24 | 19 | 14 | 10 | 5 | 0 |
| 46 | 32 | 28 | 23 | 18 | 14 | 9 | 4 | 53. 59 |
| 48 | 32 | 27 | 23 | 18 | 13 | 9 | 4 | 59 |
| 50 | 47. 31 | 48. 27 | 49. 22 | 50. 17 | 51. 13 | 52. 8 | 53. 3 | 53. 58 |
| 52 | 31 | 26 | 21 | 16 | 12 | 7 | 2 | 57 |
| 54 | 30 | 28 | 21 | 16 | 12 | 7 | 2 | 57 |
| 56 | 30 | 25 | 20 | 15 | 11 | 6 | 1 | 56 |
| 58 | 29 | 25 | 20 | 15 | 11 | 6 | 1 | 58 |

## Altura aparente de la Luna, 23°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 47. 29 | 48. 24 | 49. 12 | 50. 14 | 51. 10 | 52. 5 | 53. 0 | 53. 35 |
| 2 | 28 | 23 | 18 | 14 | 9 | 4 | 52. 59 | 54 |
| 4 | 28 | 23 | 18 | 13 | 2 | 4 | 59 | 54 |
| 6 | 27 | 22 | 17 | 13 | 8 | 3 | 58 | 53 |
| 8 | 27 | 22 | 17 | 12 | 8 | 3 | 58 | 53 |
| 10 | 47. 26 | 48. 21 | 49. 16 | 59. 12 | 51. 7 | 52. 2 | 52. 57 | 53. 52 |
| 12 | 25 | 21 | 16 | 11 | 6 | 1 | 56 | 51 |
| 14 | 25 | 20 | 15 | 11 | 6 | 1 | 56 | 51 |
| 16 | 24 | 20 | 15 | 10 | 3 | 0 | 55 | 50 |
| 18 | 24 | 19 | 14 | 10 | 5 | 0 | 55 | 50 |
| 20 | 47. 23 | 48. 19 | 49. 14 | 50. 9 | 51. 4 | 51. 59 | 52. 54 | 53. 49 |
| 22 | 23 | 18 | 13 | 8 | 3 | 38 | 53 | 48 |
| 24 | 22 | 18 | 13 | 8 | 3 | 58 | 53 | 48 |
| 26 | 22 | 17 | 12 | 7 | 2 | 57 | 52 | 47 |
| 28 | 21 | 17 | 12 | 7 | 2 | 57 | 52 | 47 |
| 30 | 47. 21 | 48. 16 | 49. 11 | 50. 6 | 51. 1 | 51. 56 | 52. 51 | 53. 46 |
| 32 | 20 | 15 | 10 | 5 | 0 | 35 | 50 | 45 |
| 34 | 20 | 15 | 10 | 5 | 0 | 55 | 50 | 45 |
| 36 | 19 | 14 | 9 | 4 | 50. 32 | 54 | 49 | 44 |
| 38 | 19 | 14 | 9 | 4 | 59 | 34 | 49 | 44 |
| 40 | 47. 18 | 48. 13 | 49. 8 | 50. 3 | 50. 58 | 51. 53 | 52. 48 | 53. 43 |
| 42 | 17 | 12 | 7 | 2 | 57 | 52 | 47 | 42 |
| 44 | 17 | 12 | 7 | 2 | 57 | 52 | 46 | 41 |
| 46 | 16 | 11 | 6 | 1 | 56 | 51 | 46 | 41 |
| 48 | 16 | 11 | 6 | 1 | 56 | 51 | 45 | 40 |
| 50 | 47. 15 | 48. 10 | 49. 5 | 50. 0 | 50. 53 | 51. 50 | 52. 44 | 53. 39 |
| 52 | 14 | 2 | 4 | 49. 59 | 54 | 49 | 43 | 38 |
| 54 | 14 | 2 | 4 | 59 | 54 | 49 | 43 | 38 |
| 56 | 13 | 8 | 3 | 58 | 53 | 48 | 42 | 37 |
| 58 | 13 | 8 | 3 | 58 | 53 | 48 | 42 | 37 |

**Partes propor. por los segund. de la paralaje.** *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 3 | 5 |
| 6 | 6 |
| 7 | 6 |
| 8 | 7 |
| 2 | 8 |
| 10 | 9 |
| 11 | 10 |
| 12 | 11 |
| 13 | 12 |
| 14 | 13 |
| 15 | 14 |
| 16 | 15 |
| 17 | 16 |
| 18 | 17 |
| 19 | 17 |
| 20 | 18 |
| 21 | 19 |
| 22 | 20 |
| 23 | 21 |
| 24 | 22 |
| 25 | 23 |
| 28 | 24 |
| 27 | 25 |
| 28 | 26 |
| 29 | 27 |
| 30 | 28 |
| 31 | 28 |
| 32 | 29 |
| 33 | 30 |
| 34 | 31 |
| 15 | 32 |
| 36 | 33 |
| 37 | 34 |
| 38 | 35 |
| 39 | 36 |
| 40 | 37 |
| 41 | 38 |
| 42 | 39 |
| 43 | 39 |
| 44 | 40 |
| 45 | 41 |
| 46 | 42 |
| 47 | 43 |
| 48 | 44 |
| 49 | 45 |
| 50 | 46 |
| 51 | 47 |
| 52 | 48 |
| 53 | 49 |
| 54 | 50 |
| 55 | 50 |
| 56 | 51 |
| 57 | 52 |
| 58 | 53 |
| 59 | 54 |

## Altura aparente de la Luna, 24°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 47. 12 | 48. 7 | 49. 2 | 49. 57 | 50. 52 | 51. 47 | 32. 41 | 53. 36 |
| 2 | 12 | 6 | 1 | 56 | 51 | 46 | 40 | 35 |
| 4 | 11 | 6 | 1 | 56 | 50 | 45 | 40 | 35 |
| 6 | 11 | 5 | 0 | 55 | 30 | 45 | 39 | 34 |
| 8 | 19 | 5 | 0 | 55 | 49 | 44 | 39 | 34 |
| 10 | 47. 10 | 48. 4 | 48. 59 | 49. 54 | 50. 48 | 51. 43 | 52. 38 | 53. 33 |
| 12 | 9 | 3 | 58 | 53 | 47 | 42 | 37 | 32 |
| 14 | 2 | 3 | 58 | 53 | 47 | 42 | 37 | 31 |
| 16 | 8 | 2 | 57 | 52 | 46 | 41 | 36 | 31 |
| 18 | 8 | 2 | 57 | 52 | 46 | 41 | 36 | 30 |
| 20 | 47. 7 | 48. 1 | 48. 56 | 42. 51 | 50. 45 | 51. 40 | 52. 35 | 53. 29 |
| 22 | 6 | 0 | 55 | 50 | 44 | 39 | 34 | 28 |
| 24 | 6 | 0 | 55 | 49 | 44 | 39 | 33 | 28 |
| 26 | 5 | 47. 59 | 54 | 49 | 43 | 38 | 33 | 27 |
| 28 | 5 | 59 | 54 | 48 | 43 | 38 | 32 | 27 |
| 30 | 47. 4 | 47. 58 | 48. 53 | 49. 47 | 50. 42 | 51. 37 | 52. 31 | 53. 26 |
| 32 | 3 | 57 | 52 | 46 | 41 | 36 | 30 | 25 |
| 34 | 3 | 57 | 52 | 46 | 41 | 35 | 30 | 24 |
| 36 | 2 | 56 | 51 | 45 | 40 | 35 | 29 | 24 |
| 38 | 2 | 56 | 51 | 45 | 40 | 34 | 29 | 23 |
| 40 | 47. 1 | 47. 55 | 48. 50 | 49. 44 | 50. 39 | 51. 33 | 52. 28 | 53. 22 |
| 42 | 0 | 54 | 42 | 43 | 38 | 32 | 27 | 21 |
| 44 | 0 | 54 | 49 | 43 | 37 | 32 | 26 | 21 |
| 46 | 46. 59 | 53 | 48 | 42 | 37 | 31 | 26 | 20 |
| 48 | 59 | 53 | 48 | 42 | 36 | 31 | 25 | 20 |
| 50 | 46. 58 | 47. 52 | 48. 47 | 49. 41 | 50. 35 | 51. 30 | 52. 24 | 53. 19 |
| 52 | 57 | 51 | 46 | 40 | 34 | 29 | 23 | 18 |
| 54 | 57 | 51 | 45 | 40 | 34 | 29 | 23 | 17 |
| 56 | 56 | 50 | 45 | 39 | 33 | 28 | 22 | 17 |
| 58 | 56 | 50 | 44 | 39 | 33 | 28 | 22 | 16 |

## Altura aparente de la Luna, 25°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 48. 55 | 47. 49 | 48. 43 | 49. 38 | 50. 32 | 51. 27 | 52. 21 | 53. 15 |
| 2 | 54 | 48 | 42 | 37 | 31 | 26 | 20 | 14 |
| 4 | 54 | 48 | 42 | 36 | 31 | 25 | 12 | 14 |
| 6 | 53 | 47 | 41 | 36 | 30 | 25 | 19 | 13 |
| 8 | 53 | 47 | 41 | 35 | 30 | 24 | 18 | 13 |
| 10 | 46. 52 | 47. 46 | 48. 40 | 49. 34 | 50. 29 | 51. 23 | 52. 17 | 53. 12 |
| 12 | 51 | 45 | 39 | 33 | 28 | 22 | 16 | 11 |
| 14 | 50 | 45 | 39 | 33 | 27 | 22 | 16 | 10 |
| 16 | 50 | 44 | 38 | 32 | 27 | 21 | 15 | 10 |
| 18 | 49 | 44 | 38 | 32 | 26 | 21 | 15 | 9 |
| 20 | 46. 48 | 47. 43 | 48. 37 | 49. 31 | 50. 25 | 51. 20 | 52. 14 | 53. 8 |
| 22 | 47 | 42 | 36 | 30 | 24 | 19 | 13 | 7 |
| 24 | 47 | 41 | 36 | 30 | 24 | 18 | 12 | 6 |
| 26 | 46 | 41 | 35 | 29 | 23 | 18 | 12 | 6 |
| 28 | 46 | 40 | 35 | 29 | 23 | 17 | 11 | 5 |
| 30 | 46. 45 | 47. 39 | 48. 34 | 42. 28 | 50. 22 | 51. 16 | 52. 10 | 53. 4 |
| 32 | 44 | 38 | 33 | 27 | 21 | 15 | 2 | 3 |
| 34 | 44 | 38 | 32 | 26 | 20 | 15 | 9 | 3 |
| 36 | 43 | 37 | 32 | 26 | 20 | 14 | 8 | 2 |
| 38 | 43 | 37 | 31 | 25 | 19 | 14 | 8 | 2 |
| 40 | 46. 42 | 47. 36 | 48. 30 | 49. 24 | 50. 18 | 51. 13 | 52. 7 | 53. 1 |
| 42 | 41 | 35 | 29 | 23 | 17 | 12 | 6 | 0 |
| 44 | 41 | 35 | 29 | 23 | 17 | 11 | 5 | 52. 59 |
| 46 | 40 | 34 | 28 | 22 | 16 | 11 | 5 | 59 |
| 48 | 40 | 34 | 28 | 22 | 16 | 10 | 4 | 58 |
| 50 | 46. 39 | 47. 33 | 48. 27 | 42. 21 | 50. 15 | 51. 9 | 52. 3 | 52. 57 |
| 52 | 38 | 32 | 26 | 20 | 14 | 8 | 2 | 56 |
| 54 | 38 | 32 | 25 | 19 | 13 | 7 | 1 | 55 |
| 56 | 37 | 31 | 25 | 19 | 13 | 7 | 1 | 55 |
| 58 | 37 | 31 | 24 | 18 | 12 | 6 | 0 | 54 |

**Partes propor. por los segund. de la paralaje.** *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 8 |
| 10 | 2 |
| 11 | 10 |
| 12 | 11 |
| 13 | 12 |
| 14 | 13 |
| 13 | 14 |
| 16 | 14 |
| 17 | 15 |
| 18 | 16 |
| 19 | 17 |
| 20 | 18 |
| 21 | 12 |
| 22 | 29 |
| 23 | 21 |
| 24 | 22 |
| 25 | 23 |
| 26 | 23 |
| 27 | 24 |
| 28 | 25 |
| 29 | 26 |
| 30 | 27 |
| 31 | 28 |
| 32 | 29 |
| 33 | 30 |
| 34 | 31 |
| 35 | 32 |
| 36 | 32 |
| 37 | 33 |
| 38 | 34 |
| 32 | 35 |
| 40 | 36 |
| 41 | 37 |
| 42 | 38 |
| 43 | 39 |
| 44 | 40 |
| 45 | 41 |
| 46 | 41 |
| 47 | 42 |
| 48 | 43 |
| 49 | 44 |
| 50 | 45 |
| 51 | 46 |
| 52 | 47 |
| 53 | 48 |
| 54 | 49 |
| 55 | 50 |
| 56 | 50 |
| 57 | 51 |
| 58 | 52 |
| 59 | 53 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

### Altura aparente de la Luna, 22°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 10. 43 | 10. 59 | 11. 13 | 11. 23 | 11. 40 | 11. 53 | 12. 7 | 12. 20 |
| 2 | 47 | 11. 0 | 14 | 27 | 41 | 54 | 8 | 21 |
| 4 | 48 | 1 | 15 | 28 | 42 | 55 | 9 | 22 |
| 6 | 49 | 2 | 15 | 29 | 43 | 57 | 11 | 24 |
| 8 | 50 | 3 | 17 | 30 | 44 | 58 | 12 | 25 |
| 10 | 10. 51 | 11. 4 | 11. 18 | 11. 31 | 11. 45 | 11. 59 | 12. 13 | 12. 26 |
| 12 | 52 | 3 | 19 | 32 | 43 | 12. 0 | 14 | 27 |
| 14 | 53 | 6 | 20 | 33 | 47 | 1 | 15 | 28 |
| 16 | 54 | 7 | 21 | 35 | 49 | 2 | 13 | 29 |
| 18 | 55 | 8 | 22 | 36 | 50 | 3 | 17 | 30 |
| 20 | 10. 53 | 11. 9 | 11. 23 | 11. 37 | 11. 31 | 12. 4 | 12. 18 | 12. 31 |
| 22 | 57 | 10 | 24 | 38 | 52 | 3 | 19 | 32 |
| 24 | 58 | 11 | 25 | 39 | 53 | 6 | 20 | 33 |
| 26 | 59 | 13 | 27 | 40 | 54 | 8 | 22 | 35 |
| 28 | 11. 0 | 14 | 28 | 41 | 55 | 9 | 23 | 36 |
| 30 | 11. 1 | 11. 15 | 11. 29 | 11. 42 | 11. 56 | 12. 10 | 12. 24 | 12. 37 |
| 32 | 2 | 16 | 30 | 43 | 57 | 11 | 25 | 38 |
| 34 | 3 | 17 | 31 | 44 | 38 | 12 | 26 | 39 |
| 36 | 4 | 18 | 32 | 45 | 39 | 13 | 27 | 41 |
| 38 | 5 | 19 | 33 | 46 | 12. 0 | 14 | 28 | 42 |
| 40 | 11. 6 | 11. 20 | 11. 34 | 11. 47 | 12. 1 | 12. 15 | 12. 29 | 12. 43 |
| 42 | 7 | 21 | 35 | 48 | 2 | 16 | 30 | 44 |
| 44 | 8 | 22 | 36 | 49 | 3 | 17 | 31 | 45 |
| 46 | 9 | 23 | 37 | 51 | 5 | 19 | 33 | 46 |
| 48 | 10 | 24 | 38 | 52 | 6 | 20 | 34 | 47 |
| 50 | 11. 11 | 11. 25 | 11. 39 | 11. 53 | 12. 7 | 12. 21 | 12. 35 | 12. 48 |
| 52 | 12 | 26 | 40 | 54 | 8 | 22 | 36 | 49 |
| 54 | 13 | 27 | 41 | 55 | 9 | 23 | 37 | 50 |
| 56 | 14 | 28 | 42 | 56 | 10 | 24 | 38 | 52 |
| 58 | 15 | 29 | 43 | 57 | 11 | 25 | 39 | 53 |

### Altura aparente de la Luna, 23°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 11. 16 | 11. 30 | 11. 44 | 11. 58 | 12. 12 | 12. 26 | 12. 40 | 12. 54 |
| 2 | 17 | 31 | 45 | 59 | 13 | 27 | 41 | 55 |
| 4 | 18 | 32 | 46 | 12. 0 | 14 | 28 | 42 | 56 |
| 6 | 19 | 33 | 47 | 1 | 15 | 30 | 44 | 58 |
| 8 | 20 | 34 | 48 | 2 | 16 | 31 | 45 | 59 |
| 10 | 11. 21 | 11. 35 | 11. 49 | 12. 3 | 12. 17 | 12. 32 | 12. 46 | 13. 0 |
| 12 | 22 | 36 | 50 | 4 | 18 | 33 | 47 | 1 |
| 14 | 23 | 37 | 51 | 5 | 19 | 34 | 48 | 2 |
| 16 | 24 | 38 | 52 | 7 | 21 | 35 | 49 | 3 |
| 18 | 25 | 39 | 53 | 8 | 22 | 36 | 50 | 4 |
| 20 | 11. 26 | 11. 40 | 11. 54 | 12. 9 | 12. 23 | 12. 37 | 12. 51 | 13. 5 |
| 22 | 27 | 41 | 55 | 10 | 24 | 38 | 52 | 6 |
| 24 | 28 | 42 | 56 | 11 | 25 | 39 | 53 | 7 |
| 26 | 29 | 43 | 58 | 12 | 26 | 41 | 55 | 9 |
| 28 | 30 | 44 | 59 | 13 | 27 | 42 | 56 | 10 |
| 30 | 11. 31 | 11. 45 | 12. 0 | 12. 14 | 12. 28 | 12. 43 | 12. 57 | 13. 11 |
| 32 | 32 | 46 | 1 | 15 | 29 | 44 | 58 | 12 |
| 34 | 33 | 47 | 2 | 16 | 30 | 45 | 59 | 13 |
| 36 | 34 | 48 | 3 | 17 | 31 | 46 | 13. 0 | 15 |
| 38 | 35 | 49 | 4 | 18 | 32 | 47 | 1 | 16 |
| 40 | 11. 36 | 11. 50 | 12. 5 | 12. 19 | 12. 33 | 12. 48 | 13. 2 | 13. 17 |
| 42 | 37 | 51 | 3 | 20 | 34 | 49 | 3 | 18 |
| 44 | 38 | 52 | 7 | 21 | 35 | 50 | 4 | 19 |
| 46 | 39 | 53 | 8 | 23 | 37 | 52 | 6 | 20 |
| 48 | 40 | 54 | 9 | 24 | 38 | 53 | 7 | 21 |
| 50 | 11. 41 | 11. 55 | 12. 10 | 12. 25 | 12. 39 | 12. 54 | 13. 8 | 13. 22 |
| 52 | 42 | 56 | 11 | 26 | 40 | 55 | 9 | 23 |
| 54 | 43 | 57 | 12 | 27 | 41 | 56 | 10 | 24 |
| 56 | 44 | 58 | 13 | 28 | 42 | 57 | 11 | 26 |
| 58 | 45 | 59 | 14 | 29 | 43 | 58 | 12 | 27 |

Corrección por la altura del Sol ó Estrella. *Adit.*

| ☉ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 90 | 5 |

| * ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 50 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 11 | 3 |
| 12 | 3 |
| 13 | 3 |
| 14 | 3 |
| 15 | 4 |
| 16 | 4 |
| 17 | 4 |
| 18 | 4 |
| 19 | 4 |
| 20 | 5 |
| 21 | 5 |
| 22 | 5 |
| 23 | 5 |
| 24 | 6 |
| 25 | 6 |
| 26 | 6 |
| 27 | 6 |
| 28 | 7 |
| 29 | 7 |
| 30 | 7 |
| 31 | 7 |
| 32 | 8 |
| 33 | 8 |
| 34 | 8 |
| 35 | 8 |
| 36 | 8 |
| 37 | 9 |
| 38 | 9 |
| 39 | 9 |
| 40 | 9 |
| 41 | 10 |
| 42 | 10 |
| 43 | 10 |
| 44 | 10 |
| 45 | 11 |
| 46 | 11 |
| 47 | 11 |
| 48 | 11 |
| 49 | 11 |
| 50 | 12 |
| 51 | 12 |
| 52 | 12 |
| 53 | 12 |
| 54 | 13 |
| 55 | 13 |
| 56 | 13 |
| 57 | 13 |
| 58 | 14 |
| 59 | 14 |

### Altura aparente de la Luna, 24°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 11. 46 | 12. 0 | 12. 15 | 12. 30 | 12. 44 | 12. 39 | 13. 13 | 13. 28 |
| 2 | 47 | 1 | 16 | 31 | 45 | 13. 0 | 14 | 29 |
| 4 | 48 | 2 | 17 | 32 | 46 | 1 | 15 | 30 |
| 6 | 49 | 3 | 18 | 33 | 47 | 2 | 17 | 32 |
| 8 | 50 | 4 | 19 | 34 | 48 | 3 | 18 | 33 |
| 10 | 11. 51 | 12. 5 | 12. 20 | 12. 35 | 12. 49 | 13. 4 | 13. 19 | 13. 34 |
| 12 | 52 | 6 | 21 | 36 | 50 | 5 | 20 | 35 |
| 14 | 53 | 7 | 22 | 37 | 51 | 3 | 21 | 33 |
| 16 | 54 | 3 | 23 | 38 | 33 | 8 | 22 | 37 |
| 18 | 55 | 9 | 24 | 39 | 54 | 9 | 23 | 38 |
| 20 | 11. 56 | 12. 10 | 12. 25 | 12. 40 | 12. 55 | 13. 10 | 13. 24 | 13. 39 |
| 22 | 57 | 11 | 23 | 41 | 56 | 11 | 25 | 40 |
| 24 | 58 | 12 | 27 | 42 | 57 | 12 | 26 | 41 |
| 26 | 59 | 13 | 29 | 44 | 58 | 13 | 28 | 43 |
| 28 | 12. 0 | 14 | 30 | 45 | 59 | 14 | 29 | 44 |
| 30 | 12. 1 | 12. 15 | 12. 31 | 12. 46 | 13. 0 | 13. 15 | 13. 30 | 13. 45 |
| 32 | 2 | 16 | 32 | 47 | 1 | 13 | 31 | 46 |
| 34 | 3 | 17 | 33 | 48 | 2 | 17 | 32 | 47 |
| 36 | 3 | 18 | 34 | 49 | 3 | 18 | 33 | 48 |
| 38 | 4 | 19 | 35 | 50 | 4 | 19 | 34 | 49 |
| 40 | 12. 5 | 12. 20 | 12. 36 | 12. 31 | 13. 5 | 13. 20 | 13. 35 | 13. 30 |
| 42 | 6 | 21 | 37 | 52 | 6 | 21 | 36 | 51 |
| 44 | 7 | 22 | 38 | 53 | 7 | 22 | 37 | 52 |
| 46 | 8 | 23 | 39 | 54 | 9 | 24 | 39 | 54 |
| 48 | 9 | 24 | 40 | 35 | 10 | 25 | 40 | 55 |
| 50 | 12. 10 | 12. 25 | 12. 41 | 12. 56 | 13. 11 | 13. 26 | 13. 41 | 13. 56 |
| 52 | 11 | 26 | 42 | 37 | 12 | 27 | 42 | 57 |
| 54 | 12 | 27 | 43 | 58 | 13 | 28 | 43 | 58 |
| 56 | 13 | 28 | 44 | 39 | 14 | 29 | 44 | 59 |
| 58 | 14 | 29 | 45 | 13. 0 | 15 | 30 | 45 | 14. 0 |

### Altura aparente de la Luna, 25°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 12. 15 | 12. 30 | 12. 46 | 13. 1 | 13. 16 | 13. 31 | 13. 46 | 14. 1 |
| 2 | 16 | 31 | 47 | 2 | 17 | 32 | 47 | 2 |
| 4 | 17 | 32 | 48 | 3 | 18 | 33 | 48 | 3 |
| 6 | 18 | 33 | 49 | 4 | 19 | 34 | 49 | 5 |
| 8 | 19 | 34 | 50 | 5 | 20 | 35 | 50 | 6 |
| 10 | 12. 20 | 12. 35 | 12. 51 | 13. 6 | 13. 21 | 13. 36 | 13. 51 | 14. 7 |
| 12 | 21 | 36 | 52 | 7 | 22 | 37 | 52 | 8 |
| 14 | 22 | 37 | 53 | 8 | 23 | 38 | 53 | 9 |
| 16 | 23 | 38 | 54 | 9 | 24 | 40 | 55 | 10 |
| 18 | 24 | 39 | 55 | 10 | 25 | 41 | 56 | 11 |
| 20 | 12. 25 | 12. 40 | 12. 56 | 13. 11 | 13. 26 | 13. 42 | 13. 57 | 14. 12 |
| 22 | 26 | 41 | 57 | 12 | 27 | 43 | 58 | 13 |
| 24 | 27 | 42 | 58 | 13 | 28 | 44 | 59 | 14 |
| 26 | 28 | 43 | 59 | 15 | 30 | 45 | 14. 0 | 16 |
| 28 | 29 | 44 | 13. 0 | 16 | 31 | 46 | 1 | 17 |
| 30 | 12. 30 | 12. 45 | 13. 1 | 13. 17 | 13. 32 | 13. 47 | 14. 2 | 14. 18 |
| 32 | 31 | 46 | 2 | 18 | 33 | 48 | 3 | 19 |
| 34 | 32 | 47 | 3 | 19 | 34 | 49 | 4 | 20 |
| 36 | 33 | 48 | 4 | 20 | 35 | 50 | 5 | 21 |
| 38 | 34 | 49 | 5 | 21 | 33 | 51 | 6 | 22 |
| 40 | 12. 35 | 12. 50 | 13. 6 | 13. 22 | 13. 37 | 13. 52 | 14. 7 | 14. 23 |
| 42 | 36 | 51 | 7 | 23 | 38 | 53 | 8 | 24 |
| 44 | 37 | 52 | 8 | 24 | 39 | 54 | 9 | 25 |
| 46 | 38 | 53 | 9 | 25 | 40 | 56 | 11 | 27 |
| 48 | 39 | 54 | 10 | 26 | 41 | 57 | 12 | 28 |
| 50 | 12. 40 | 12. 55 | 13. 11 | 13. 27 | 13. 42 | 13. 58 | 14. 13 | 14. 29 |
| 52 | 41 | 56 | 12 | 28 | 43 | 59 | 14 | 30 |
| 54 | 42 | 57 | 13 | 29 | 44 | 14. 0 | 15 | 31 |
| 56 | 43 | 58 | 14 | 30 | 45 | 1 | 16 | 32 |
| 58 | 44 | 59 | 15 | 31 | 46 | 2 | 17 | 33 |

Partes propor. por los segund. de la paralaje. *Adit.*

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| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 3 |
| 11 | 3 |
| 12 | 3 |
| 13 | 3 |
| 14 | 4 |
| 15 | 4 |
| 16 | 4 |
| 17 | 4 |
| 18 | 5 |
| 19 | 3 |
| 20 | 5 |
| 21 | 3 |
| 22 | 6 |
| 23 | 6 |
| 24 | 3 |
| 25 | 6 |
| 26 | 7 |
| 27 | 7 |
| 28 | 7 |
| 29 | 7 |
| 30 | 8 |
| 31 | 8 |
| 32 | 8 |
| 33 | 8 |
| 34 | 9 |
| 35 | 9 |
| 36 | 9 |
| 37 | 9 |
| 38 | 10 |
| 39 | 10 |
| 40 | 10 |
| 41 | 10 |
| 42 | 11 |
| 43 | 11 |
| 44 | 11 |
| 45 | 11 |
| 46 | 12 |
| 47 | 12 |
| 48 | 12 |
| 49 | 12 |
| 50 | 13 |
| 51 | 13 |
| 52 | 13 |
| 53 | 13 |
| 54 | 14 |
| 55 | 14 |
| 56 | 14 |
| 57 | 14 |
| 58 | 15 |
| 59 | 15 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 26°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 46. 36 | 47. 30 | 48. 23 | 49. 17 | 50. 11 | 51. 5 | 51. 59 | 52. 53 |
| 2 | 35 | 29 | 22 | 16 | 10 | 4 | 58 | 52 |
| 4 | 34 | 28 | 22 | 16 | 10 | 4 | 57 | 51 |
| 6 | 34 | 28 | 21 | 15 | 9 | 3 | 57 | 51 |
| 8 | 33 | 27 | 21 | 15 | 9 | 3 | 56 | 50 |
| 10 | 46. 32 | 47. 26 | 48. 20 | 49. 14 | 50. 8 | 51. 2 | 51. 55 | 52. 49 |
| 12 | 31 | 25 | 19 | 13 | 7 | 1 | 54 | 48 |
| 14 | 31 | 25 | 19 | 12 | 6 | 0 | 54 | 47 |
| 16 | 30 | 24 | 18 | 12 | 6 | 0 | 53 | 47 |
| 18 | 30 | 24 | 18 | 11 | 5 | 50. 59 | 53 | 46 |
| 20 | 46. 29 | 47. 23 | 48. 17 | 49. 10 | 50. 4 | 50. 58 | 51. 52 | 52. 45 |
| 22 | 28 | 22 | 16 | 9 | 3 | 57 | 51 | 44 |
| 24 | 28 | 21 | 15 | 9 | 2 | 56 | 50 | 43 |
| 26 | 27 | 21 | 15 | 8 | 2 | 56 | 50 | 43 |
| 28 | 27 | 20 | 14 | 8 | 1 | 55 | 49 | 42 |
| 30 | 46. 26 | 47. 19 | 48. 13 | 49. 7 | 50. 0 | 50. 54 | 51. 48 | 52. 41 |
| 32 | 25 | 18 | 12 | 6 | 49. 59 | 53 | 47 | 40 |
| 34 | 24 | 18 | 11 | 5 | 59 | 52 | 46 | 40 |
| 36 | 24 | 17 | 11 | 5 | 58 | 52 | 46 | 39 |
| 38 | 23 | 17 | 10 | 4 | 58 | 51 | 45 | 39 |
| 40 | 46. 22 | 47. 16 | 48. 9 | 49. 3 | 49. 57 | 50. 50 | 51. 44 | 52. 38 |
| 42 | 21 | 15 | 8 | 2 | 56 | 49 | 43 | 37 |
| 44 | 21 | 14 | 8 | 1 | 55 | 48 | 42 | 36 |
| 46 | 20 | 14 | 7 | 1 | 55 | 48 | 42 | 36 |
| 48 | 20 | 13 | 7 | 0 | 54 | 47 | 41 | 35 |
| 50 | 46. 19 | 47. 12 | 48. 6 | 48. 59 | 49. 53 | 50. 46 | 51. 40 | 52. 34 |
| 52 | 18 | 11 | 5 | 58 | 52 | 45 | 39 | 33 |
| 54 | 17 | 11 | 4 | 58 | 51 | 45 | 38 | 32 |
| 56 | 17 | 10 | 4 | 57 | 51 | 44 | 38 | 32 |
| 58 | 16 | 10 | 3 | 57 | 50 | 44 | 37 | 31 |

## Altura aparente de la Luna, 27°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 46. 15 | 47. 9 | 48. 2 | 48. 56 | 49. 49 | 50. 43 | 51. 36 | 52. 30 |
| 2 | 14 | 8 | 1 | 55 | 48 | 42 | 35 | 29 |
| 4 | 14 | 7 | 1 | 54 | 47 | 41 | 34 | 28 |
| 6 | 13 | 7 | 0 | 54 | 47 | 41 | 34 | 28 |
| 8 | 13 | 6 | 0 | 53 | 46 | 40 | 33 | 27 |
| 10 | 46. 12 | 47. 5 | 47. 59 | 48. 52 | 49. 45 | 50. 39 | 51. 32 | 52. 26 |
| 12 | 11 | 4 | 58 | 51 | 44 | 38 | 31 | 25 |
| 14 | 10 | 4 | 57 | 50 | 44 | 37 | 30 | 24 |
| 16 | 10 | 3 | 57 | 50 | 43 | 37 | 30 | 23 |
| 18 | 9 | 3 | 56 | 49 | 43 | 36 | 29 | 22 |
| 20 | 46. 8 | 47. 2 | 47. 55 | 48. 48 | 49. 42 | 50. 35 | 51. 28 | 52. 21 |
| 22 | 7 | 1 | 54 | 47 | 41 | 34 | 27 | 20 |
| 24 | 7 | 0 | 53 | 46 | 40 | 33 | 26 | 19 |
| 26 | 6 | 0 | 53 | 46 | 40 | 33 | 26 | 19 |
| 28 | 6 | 46. 59 | 52 | 45 | 39 | 32 | 25 | 18 |
| 30 | 46. 5 | 46. 58 | 47. 51 | 48. 44 | 49. 38 | 50. 31 | 51. 24 | 52. 17 |
| 32 | 4 | 57 | 50 | 43 | 37 | 30 | 23 | 16 |
| 34 | 3 | 56 | 49 | 42 | 36 | 29 | 22 | 15 |
| 36 | 3 | 56 | 49 | 42 | 36 | 29 | 22 | 15 |
| 38 | 2 | 55 | 48 | 41 | 35 | 28 | 21 | 14 |
| 40 | 46. 1 | 46. 54 | 47. 47 | 48. 40 | 49. 34 | 50. 27 | 51. 20 | 52. 13 |
| 42 | 0 | 53 | 46 | 39 | 33 | 26 | 19 | 12 |
| 44 | 0 | 53 | 46 | 39 | 32 | 25 | 18 | 11 |
| 46 | 45. 59 | 52 | 45 | 38 | 32 | 25 | 18 | 11 |
| 48 | 59 | 52 | 45 | 38 | 31 | 24 | 17 | 10 |
| 50 | 45. 58 | 46. 51 | 47. 44 | 48. 37 | 49. 30 | 50. 23 | 51. 16 | 52. 9 |
| 52 | 57 | 50 | 43 | 36 | 29 | 22 | 15 | 8 |
| 54 | 56 | 49 | 42 | 35 | 28 | 21 | 14 | 7 |
| 56 | 56 | 49 | 42 | 35 | 28 | 21 | 14 | 7 |
| 58 | 55 | 48 | 41 | 34 | 27 | 20 | 13 | 6 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 8 |
| 10 | 9 |
| 11 | 10 |
| 12 | 11 |
| 13 | 12 |
| 14 | 12 |
| 15 | 13 |
| 16 | 14 |
| 17 | 15 |
| 18 | 16 |
| 19 | 17 |
| 20 | 18 |
| 21 | 19 |
| 22 | 20 |
| 23 | 20 |
| 24 | 21 |
| 25 | 22 |
| 26 | 23 |
| 27 | 24 |
| 28 | 25 |
| 29 | 26 |
| 30 | 27 |
| 31 | 28 |
| 32 | 29 |
| 33 | 29 |
| 34 | 30 |
| 35 | 31 |
| 36 | 32 |
| 37 | 33 |
| 38 | 34 |
| 39 | 35 |
| 40 | 36 |
| 41 | 37 |
| 42 | 37 |
| 43 | 38 |
| 44 | 39 |
| 45 | 40 |
| 46 | 41 |
| 47 | 42 |
| 48 | 43 |
| 49 | 44 |
| 50 | 45 |
| 51 | 45 |
| 52 | 46 |
| 53 | 47 |
| 54 | 48 |
| 55 | 49 |
| 56 | 50 |
| 57 | 51 |
| 58 | 52 |
| 59 | 53 |

## Altura aparente de la Luna, 28°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 45. 54 | 46. 47 | 47. 40 | 48. 33 | 49. 26 | 50. 19 | 51. 12 | 52. 5 |
| 2 | 53 | 46 | 39 | 32 | 25 | 18 | 11 | 4 |
| 4 | 52 | 45 | 38 | 31 | 24 | 17 | 10 | 3 |
| 6 | 52 | 45 | 38 | 31 | 24 | 17 | 10 | 2 |
| 8 | 51 | 44 | 37 | 30 | 23 | 16 | 9 | 1 |
| 10 | 45. 50 | 46. 43 | 47. 36 | 48. 29 | 49. 22 | 50. 15 | 51. 8 | 52. 0 |
| 12 | 49 | 42 | 35 | 28 | 21 | 14 | 7 | 51. 59 |
| 14 | 48 | 41 | 34 | 27 | 20 | 13 | 6 | 58 |
| 16 | 48 | 41 | 34 | 27 | 20 | 12 | 6 | 58 |
| 18 | 47 | 40 | 33 | 26 | 19 | 11 | 5 | 57 |
| 20 | 45. 46 | 46. 39 | 47. 32 | 48. 25 | 49. 18 | 50. 10 | 51. 4 | 51. 56 |
| 22 | 45 | 38 | 31 | 24 | 17 | 9 | 3 | 55 |
| 24 | 45 | 37 | 30 | 23 | 16 | 8 | 2 | 54 |
| 26 | 44 | 37 | 30 | 23 | 16 | 8 | 1 | 54 |
| 28 | 44 | 36 | 29 | 22 | 15 | 7 | 0 | 53 |
| 30 | 45. 43 | 46. 35 | 47. 28 | 48. 21 | 49. 14 | 50. 6 | 50. 59 | 51. 52 |
| 32 | 42 | 34 | 27 | 20 | 13 | 5 | 58 | 51 |
| 34 | 41 | 34 | 26 | 19 | 12 | 4 | 57 | 50 |
| 36 | 41 | 33 | 26 | 19 | 11 | 4 | 57 | 49 |
| 38 | 40 | 33 | 25 | 18 | 10 | 3 | 56 | 48 |
| 40 | 45. 39 | 46. 32 | 47. 24 | 48. 17 | 49. 9 | 50. 2 | 50. 55 | 51. 47 |
| 42 | 38 | 31 | 23 | 16 | 8 | 1 | 54 | 46 |
| 44 | 37 | 30 | 22 | 15 | 7 | 0 | 53 | 45 |
| 46 | 37 | 30 | 22 | 15 | 7 | 0 | 52 | 45 |
| 48 | 36 | 29 | 21 | 14 | 6 | 49. 59 | 51 | 44 |
| 50 | 45. 35 | 46. 28 | 47. 20 | 48. 13 | 49. 5 | 49. 58 | 50. 50 | 51. 43 |
| 52 | 34 | 27 | 19 | 12 | 4 | 57 | 49 | 42 |
| 54 | 33 | 26 | 18 | 11 | 3 | 56 | 48 | 41 |
| 56 | 33 | 26 | 18 | 11 | 3 | 56 | 48 | 41 |
| 58 | 32 | 25 | 17 | 10 | 2 | 55 | 47 | 40 |

## Altura aparente de la Luna, 29°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 45. 31 | 46. 24 | 47. 16 | 48. 9 | 49. 1 | 49. 54 | 50. 46 | 51. 39 |
| 2 | 30 | 23 | 15 | 8 | 0 | 53 | 45 | 38 |
| 4 | 29 | 22 | 14 | 7 | 48. 59 | 52 | 44 | 37 |
| 6 | 29 | 22 | 14 | 7 | 59 | 51 | 44 | 36 |
| 8 | 28 | 21 | 13 | 6 | 58 | 50 | 43 | 35 |
| 10 | 45. 27 | 46. 20 | 47. 12 | 48. 5 | 48. 57 | 49. 49 | 50. 42 | 51. 34 |
| 12 | 26 | 19 | 11 | 4 | 56 | 48 | 41 | 33 |
| 14 | 25 | 18 | 10 | 3 | 55 | 47 | 40 | 32 |
| 16 | 25 | 18 | 10 | 2 | 55 | 47 | 39 | 32 |
| 18 | 24 | 17 | 9 | 1 | 54 | 46 | 38 | 31 |
| 20 | 45. 23 | 46. 16 | 47. 8 | 48. 0 | 48. 53 | 49. 45 | 50. 37 | 51. 30 |
| 22 | 22 | 15 | 7 | 47. 59 | 52 | 44 | 36 | 29 |
| 24 | 21 | 14 | 6 | 58 | 51 | 43 | 35 | 28 |
| 26 | 21 | 14 | 6 | 58 | 50 | 43 | 35 | 27 |
| 28 | 20 | 13 | 5 | 57 | 49 | 42 | 34 | 26 |
| 30 | 45. 19 | 46. 12 | 47. 4 | 47. 56 | 48. 48 | 49. 41 | 50. 33 | 51. 25 |
| 32 | 18 | 11 | 3 | 55 | 47 | 40 | 32 | 24 |
| 34 | 17 | 10 | 2 | 54 | 46 | 39 | 31 | 23 |
| 36 | 17 | 10 | 2 | 54 | 46 | 38 | 30 | 22 |
| 38 | 16 | 9 | 1 | 53 | 45 | 37 | 29 | 21 |
| 40 | 45. 15 | 46. 8 | 47. 0 | 47. 52 | 48. 44 | 49. 36 | 50. 28 | 51. 20 |
| 42 | 14 | 7 | 46. 59 | 51 | 43 | 35 | 27 | 19 |
| 44 | 13 | 6 | 58 | 50 | 42 | 34 | 26 | 18 |
| 46 | 13 | 6 | 58 | 50 | 42 | 34 | 26 | 18 |
| 48 | 12 | 5 | 57 | 49 | 41 | 33 | 25 | 17 |
| 50 | 45. 11 | 46. 4 | 46. 56 | 47. 48 | 48. 40 | 49. 32 | 50. 24 | 51. 16 |
| 52 | 10 | 3 | 55 | 47 | 39 | 31 | 23 | 15 |
| 54 | 9 | 2 | 54 | 46 | 38 | 30 | 22 | 14 |
| 56 | 9 | 1 | 53 | 45 | 37 | 29 | 21 | 13 |
| 58 | 8 | 0 | 52 | 44 | 36 | 28 | 20 | 12 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 8 |
| 10 | 9 |
| 11 | 10 |
| 12 | 10 |
| 13 | 11 |
| 14 | 12 |
| 15 | 13 |
| 16 | 14 |
| 17 | 15 |
| 18 | 16 |
| 19 | 17 |
| 20 | 17 |
| 21 | 18 |
| 22 | 19 |
| 23 | 20 |
| 24 | 21 |
| 25 | 22 |
| 26 | 23 |
| 27 | 24 |
| 28 | 24 |
| 29 | 25 |
| 30 | 26 |
| 31 | 27 |
| 32 | 28 |
| 33 | 29 |
| 34 | 30 |
| 35 | 31 |
| 36 | 31 |
| 37 | 32 |
| 38 | 33 |
| 39 | 34 |
| 40 | 35 |
| 41 | 36 |
| 42 | 37 |
| 43 | 38 |
| 44 | 38 |
| 45 | 39 |
| 46 | 40 |
| 47 | 41 |
| 48 | 42 |
| 49 | 43 |
| 50 | 44 |
| 51 | 45 |
| 52 | 45 |
| 53 | 46 |
| 54 | 47 |
| 55 | 48 |
| 56 | 49 |
| 57 | 50 |
| 58 | 51 |
| 59 | 52 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

### Altura aparente de la Luna, 26°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 12. 45 | 13. 0 | 13. 16 | 13. 32 | 13. 47 | 14. 3 | 14. 18 | 14. 34 |
| 2 | 46 | 1 | 17 | 33 | 48 | 4 | 19 | 35 |
| 4 | 47 | 2 | 18 | 34 | 49 | 5 | 20 | 36 |
| 6 | 48 | 3 | 19 | 35 | 50 | 6 | 21 | 38 |
| 8 | 49 | 4 | 20 | 36 | 51 | 7 | 22 | 39 |
| 10 | 12. 50 | 13. 5 | 13. 21 | 13. 37 | 13. 52 | 14. 8 | 14. 23 | 14. 40 |
| 12 | 51 | 6 | 22 | 38 | 53 | 2 | 24 | 41 |
| 14 | 52 | 7 | 23 | 39 | 54 | 10 | 25 | 42 |
| 16 | 53 | 8 | 24 | 40 | 55 | 11 | 27 | 43 |
| 18 | 54 | 9 | 25 | 41 | 56 | 12 | 28 | 44 |
| 20 | 12. 55 | 13. 10 | 13. 26 | 13. 42 | 13. 57 | 14. 13 | 14. 29 | 14. 45 |
| 22 | 56 | 11 | 27 | 43 | 58 | 14 | 30 | 46 |
| 24 | 57 | 12 | 28 | 44 | 59 | 15 | 31 | 47 |
| 26 | 58 | 13 | 29 | 45 | 14. 1 | 17 | 32 | 49 |
| 28 | 59 | 14 | 30 | 46 | 2 | 18 | 33 | 50 |
| 30 | 13. 0 | 13. 15 | 13. 31 | 13. 47 | 14. 3 | 14. 19 | 14. 34 | 14. 51 |
| 32 | 1 | 16 | 32 | 46 | 4 | 20 | 35 | 52 |
| 34 | 2 | 17 | 33 | 49 | 5 | 21 | 36 | 53 |
| 36 | 2 | 18 | 34 | 50 | 6 | 22 | 37 | 54 |
| 38 | 3 | 19 | 35 | 51 | 7 | 23 | 38 | 55 |
| 40 | 13. 4 | 13. 20 | 13. 36 | 13. 52 | 14. 8 | 14. 24 | 14. 39 | 14. 56 |
| 42 | 5 | 21 | 37 | 53 | 9 | 25 | 40 | 57 |
| 44 | 6 | 22 | 36 | 54 | 10 | 26 | 41 | 58 |
| 46 | 7 | 23 | 39 | 55 | 11 | 27 | 43 | 15. 0 |
| 48 | 8 | 24 | 46 | 56 | 12 | 28 | 44 | 1 |
| 50 | 13. 9 | 13. 25 | 13. 41 | 13. 57 | 14. 13 | 14. 29 | 14. 45 | 15. 2 |
| 52 | 10 | 26 | 42 | 58 | 14 | 30 | 46 | 3 |
| 54 | 11 | 27 | 43 | 59 | 15 | 31 | 47 | 4 |
| 56 | 12 | 28 | 44 | 14. 0 | 16 | 32 | 48 | 5 |
| 58 | 13 | 29 | 45 | 1 | 17 | 33 | 49 | 6 |

### Altura aparente de la Luna, 27°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 13. 14 | 13. 30 | 13. 46 | 14. 2 | 14. 18 | 14. 34 | 14. 50 | 15. 7 |
| 2 | 15 | 31 | 47 | 3 | 19 | 35 | 51 | 8 |
| 4 | 16 | 32 | 48 | 4 | 20 | 36 | 52 | 9 |
| 6 | 17 | 33 | 49 | 5 | 21 | 37 | 53 | 10 |
| 8 | 18 | 34 | 50 | 6 | 22 | 38 | 54 | 11 |
| 10 | 13. 19 | 13. 35 | 13. 51 | 14. 7 | 14. 23 | 14. 39 | 14. 55 | 15. 12 |
| 12 | 20 | 36 | 52 | 8 | 24 | 40 | 56 | 13 |
| 14 | 21 | 37 | 53 | 9 | 25 | 41 | 57 | 14 |
| 16 | 22 | 38 | 54 | 10 | 26 | 43 | 59 | 16 |
| 18 | 23 | 39 | 55 | 11 | 27 | 44 | 15. 0 | 17 |
| 20 | 13. 24 | 13. 40 | 13. 56 | 14. 12 | 14. 28 | 11. 45 | 15. 1 | 15. 18 |
| 22 | 25 | 41 | 57 | 13 | 29 | 46 | 2 | 19 |
| 24 | 26 | 42 | 58 | 14 | 30 | 47 | 3 | 20 |
| 26 | 27 | 43 | 59 | 15 | 32 | 48 | 4 | 21 |
| 28 | 28 | 44 | 14. 0 | 16 | 33 | 49 | 5 | 22 |
| 30 | 13. 29 | 13. 45 | 14. 1 | 14. 17 | 14. 34 | 14. 50 | 15. 6 | 15. 23 |
| 32 | 30 | 46 | 2 | 18 | 35 | 51 | 7 | 24 |
| 34 | 31 | 47 | 3 | 19 | 36 | 52 | 8 | 25 |
| 36 | 31 | 47 | 4 | 20 | 37 | 53 | 9 | 26 |
| 38 | 32 | 48 | 5 | 21 | 38 | 54 | 10 | 27 |
| 40 | 13. 33 | 13. 49 | 14. 6 | 14. 22 | 14. 39 | 14. 55 | 15. 11 | 15. 28 |
| 42 | 34 | 50 | 7 | 23 | 40 | 56 | 12 | 29 |
| 44 | 35 | 51 | 8 | 24 | 41 | 57 | 13 | 30 |
| 46 | 36 | 52 | 2 | 25 | 42 | 59 | 15 | 32 |
| 48 | 37 | 53 | 10 | 26 | 43 | 15. 0 | 16 | 33 |
| 50 | 13. 38 | 13. 54 | 14. 11 | 14. 27 | 14. 44 | 15. 1 | 15. 17 | 15. 34 |
| 52 | 39 | 55 | 12 | 28 | 45 | 2 | 18 | 35 |
| 54 | 40 | 56 | 13 | 29 | 46 | 3 | 19 | 36 |
| 56 | 41 | 57 | 14 | 30 | 47 | 4 | 20 | 37 |
| 58 | 42 | 58 | 15 | 31 | 48 | 5 | 21 | 38 |

### Altura aparente de la Luna, 28°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 13. 43 | 13. 59 | 14. 16 | 14. 32 | 14. 49 | 15. 6 | 15. 22 | 15. 39 |
| 2 | 44 | 14. 0 | 17 | 33 | 50 | 7 | 23 | 40 |
| 4 | 45 | 1 | 18 | 34 | 51 | 8 | 24 | 41 |
| 6 | 46 | 2 | 12 | 35 | 52 | 9 | 25 | 42 |
| 8 | 47 | 3 | 20 | 36 | 53 | 16 | 26 | 43 |
| 10 | 13. 48 | 14. 4 | 14. 21 | 14. 37 | 14. 54 | 15. 11 | 15. 27 | 15. 44 |
| 12 | 49 | 5 | 22 | 38 | 55 | 12 | 28 | 45 |
| 14 | 50 | 6 | 23 | 39 | 56 | 13 | 29 | 46 |
| 16 | 50 | 7 | 24 | 40 | 57 | 14 | 31 | 48 |
| 18 | 51 | 8 | 25 | 41 | 58 | 15 | 32 | 49 |
| 20 | 13. 52 | 14. 9 | 14. 26 | 14. 42 | 14. 59 | 15. 16 | 15. 33 | 15. 50 |
| 22 | 53 | 10 | 27 | 43 | 15. 0 | 17 | 34 | 51 |
| 24 | 54 | 11 | 28 | 44 | 1 | 18 | 35 | 52 |
| 26 | 55 | 12 | 29 | 45 | 2 | 20 | 36 | 53 |
| 28 | 56 | 13 | 30 | 46 | 3 | 21 | 37 | 54 |
| 30 | 13. 57 | 14. 14 | 14. 31 | 14. 47 | 15. 4 | 15. 22 | 15. 38 | 15. 55 |
| 32 | 58 | 15 | 32 | 48 | 5 | 23 | 39 | 56 |
| 34 | 59 | 16 | 33 | 42 | 6 | 24 | 40 | 57 |
| 36 | 14. 0 | 16 | 33 | 50 | 7 | 25 | 41 | 58 |
| 38 | 1 | 17 | 34 | 51 | 8 | 26 | 42 | 59 |
| 40 | 14. 2 | 14. 18 | 14. 35 | 14. 52 | 15. 9 | 15. 27 | 15. 43 | 16. 0 |
| 42 | 3 | 19 | 36 | 53 | 10 | 28 | 44 | 1 |
| 44 | 4 | 20 | 37 | 54 | 11 | 29 | 45 | 2 |
| 46 | 4 | 21 | 38 | 55 | 12 | 30 | 47 | 4 |
| 48 | 5 | 22 | 39 | 56 | 13 | 31 | 48 | 5 |
| 50 | 14. 6 | 14. 23 | 14. 40 | 14. 57 | 15. 14 | 15. 32 | 15. 49 | 16. 6 |
| 52 | 7 | 24 | 41 | 58 | 15 | 33 | 50 | 7 |
| 54 | 8 | 25 | 42 | 59 | 16 | 34 | 51 | 8 |
| 56 | 9 | 26 | 43 | 15. 0 | 17 | 35 | 52 | 9 |
| 58 | 10 | 27 | 44 | 1 | 18 | 36 | 53 | 10 |

### Altura aparente de la Luna, 29°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 14. 11 | 14. 28 | 14. 45 | 15. 2 | 15. 19 | 15. 37 | 15. 54 | 16. 11 |
| 2 | 12 | 29 | 46 | 3 | 20 | 38 | 55 | 12 |
| 4 | 13 | 30 | 47 | 4 | 21 | 39 | 56 | 13 |
| 6 | 14 | 31 | 48 | 5 | 22 | 40 | 57 | 14 |
| 8 | 15 | 32 | 49 | 6 | 23 | 41 | 58 | 15 |
| 10 | 14. 16 | 14. 33 | 14. 50 | 15. 7 | 15. 24 | 15. 42 | 15. 59 | 16. 16 |
| 12 | 17 | 34 | 51 | 8 | 25 | 43 | 16. 0 | 17 |
| 14 | 18 | 35 | 52 | 9 | 26 | 44 | 1 | 18 |
| 16 | 18 | 36 | 53 | 10 | 27 | 45 | 2 | 20 |
| 18 | 19 | 37 | 54 | 11 | 28 | 46 | 3 | 21 |
| 20 | 14. 20 | 14. 38 | 14. 55 | 15. 12 | 15. 29 | 15. 47 | 16. 4 | 16. 22 |
| 22 | 21 | 39 | 56 | 13 | 30 | 48 | 5 | 23 |
| 24 | 22 | 40 | 57 | 14 | 31 | 49 | 6 | 24 |
| 26 | 23 | 41 | 58 | 15 | 33 | 51 | 8 | 25 |
| 28 | 24 | 42 | 52 | 16 | 34 | 52 | 2 | 26 |
| 30 | 14. 25 | 14. 43 | 15. 0 | 15. 17 | 15. 35 | 15. 53 | 16. 10 | 16. 27 |
| 32 | 26 | 44 | 1 | 18 | 36 | 54 | 11 | 28 |
| 34 | 27 | 45 | 2 | 19 | 37 | 55 | 12 | 29 |
| 36 | 28 | 45 | 2 | 20 | 38 | 56 | 13 | 30 |
| 38 | 29 | 46 | 3 | 21 | 39 | 57 | 14 | 31 |
| 40 | 14. 30 | 14. 47 | 15. 4 | 15. 22 | 15. 40 | 15. 58 | 16. 15 | 16. 32 |
| 42 | 31 | 48 | 5 | 23 | 41 | 59 | 16 | 33 |
| 44 | 32 | 49 | 6 | 24 | 42 | 16. 0 | 17 | 34 |
| 46 | 32 | 50 | 7 | 25 | 43 | 1 | 18 | 36 |
| 48 | 33 | 51 | 8 | 26 | 44 | 2 | 19 | 37 |
| 50 | 14. 34 | 14. 52 | 15. 9 | 15. 27 | 15. 43 | 16. 3 | 16. 20 | 16. 38 |
| 52 | 35 | 53 | 10 | 28 | 46 | 4 | 21 | 39 |
| 54 | 36 | 54 | 11 | 29 | 47 | 5 | 22 | 40 |
| 56 | 37 | 55 | 12 | 30 | 48 | 6 | 23 | 41 |
| 58 | 38 | 56 | 13 | 31 | 49 | 7 | 24 | 42 |

**Correccion por la altura de Sol ó Estrella.** *Adit.*

| ⊙ ° | ″ | ✱ ° | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 8 |
| 4 | 5 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 60 | 0 |
| 70 | 5 | 70 | 0 |
| 80 | 5 | 80 | 0 |
| 90 | 5 | 90 | 0 |

**Partes propor. por los segund. de la paralaje.** *Adit.* (Luna 26° y 27°)

| ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 16 | 4 | 31 | 8 | 46 | 12 |
| 2 | 1 | 17 | 5 | 32 | 9 | 47 | 13 |
| 3 | 1 | 18 | 5 | 33 | 9 | 48 | 13 |
| 4 | 1 | 19 | 5 | 34 | 9 | 49 | 13 |
| 5 | 1 | 20 | 5 | 35 | 9 | 50 | 13 |
| 6 | 2 | 21 | 6 | 36 | 10 | 51 | 14 |
| 7 | 2 | 22 | 6 | 37 | 10 | 52 | 14 |
| 8 | 2 | 23 | 6 | 38 | 10 | 53 | 14 |
| 9 | 2 | 24 | 6 | 39 | 10 | 54 | 14 |
| 10 | 3 | 25 | 7 | 40 | 11 | 55 | 15 |
| 11 | 3 | 26 | 7 | 41 | 11 | 56 | 15 |
| 12 | 3 | 27 | 7 | 42 | 11 | 57 | 15 |
| 13 | 3 | 28 | 7 | 43 | 11 | 58 | 16 |
| 14 | 4 | 29 | 8 | 44 | 12 | 59 | 16 |
| 15 | 4 | 30 | 8 | 45 | 12 | | |

**Partes propor. por los segund. de la paralaje.** *Adit.* (Luna 28° y 29°)

| ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 16 | 5 | 31 | 9 | 46 | 13 |
| 2 | 1 | 17 | 5 | 32 | 9 | 47 | 13 |
| 3 | 1 | 18 | 5 | 33 | 9 | 48 | 14 |
| 4 | 1 | 19 | 5 | 34 | 10 | 49 | 14 |
| 5 | 1 | 20 | 6 | 35 | 10 | 50 | 14 |
| 6 | 2 | 21 | 6 | 36 | 10 | 51 | 15 |
| 7 | 2 | 22 | 6 | 37 | 11 | 52 | 15 |
| 8 | 2 | 23 | 7 | 38 | 11 | 53 | 15 |
| 9 | 3 | 24 | 7 | 39 | 11 | 54 | 15 |
| 10 | 3 | 25 | 7 | 40 | 11 | 55 | 16 |
| 11 | 3 | 26 | 7 | 41 | 12 | 56 | 16 |
| 12 | 3 | 27 | 8 | 42 | 12 | 57 | 16 |
| 13 | 4 | 28 | 8 | 43 | 12 | 58 | 16 |
| 14 | 4 | 29 | 8 | 44 | 13 | 59 | 17 |
| 15 | 4 | 30 | 9 | 45 | 13 | | |

**TABLA VIII. Correcciones (*aditivas*) á las alturas aparentes de la Luna.**

### Altura aparente de la Luna, 30°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 45. 7 | 45. 59 | 46. 51 | 47. 43 | 48. 35 | 49. 27 | 50. 19 | 51. 11 |
| 2 | 6 | 58 | 50 | 42 | 34 | 26 | 18 | 10 |
| 4 | 5 | 57 | 49 | 41 | 33 | 25 | 17 | 9 |
| 6 | 5 | 67 | 49 | 41 | 33 | 25 | 17 | 9 |
| 8 | 4 | 56 | 48 | 48 | 32 | 24 | 15 | 8 |
| 18 | 45. 3 | 45. 55 | 46. 47 | 47. 39 | 48. 31 | 42. 23 | 50. 15 | 51. 7 |
| 12 | 2 | 54 | 45 | 38 | 30 | 22 | 14 | 5 |
| 14 | 1 | 53 | 45 | 37 | 29 | 21 | 13 | 5 |
| 16 | 1 | 53 | 45 | 37 | 28 | 20 | 12 | 4 |
| 18 | 0 | 52 | 44 | 35 | 27 | 19 | 11 | 3 |
| 20 | 44. 59 | 45. 51 | 46. 43 | 47. 35 | 48. 25 | 42. 18 | 50. 10 | 51. 2 |
| 22 | 58 | 50 | 42 | 34 | 25 | 17 | 9 | 1 |
| 24 | 57 | 49 | 41 | 33 | 24 | 16 | 8 | 8 |
| 26 | 57 | 42 | 41 | 32 | 24 | 15 | 7 | 50. 59 |
| 28 | 56 | 48 | 40 | 31 | 23 | 15 | 6 | 58 |
| 30 | 44. 55 | 45. 47 | 46. 39 | 47. 30 | 48. 22 | 49. 14 | 50. 5 | 50. 57 |
| 32 | 54 | 46 | 38 | 29 | 21 | 13 | 4 | 55 |
| 34 | 53 | 45 | 37 | 28 | 20 | 12 | 3 | 55 |
| 35 | 53 | 45 | 36 | 28 | 12 | 11 | 3 | 54 |
| 38 | 52 | 44 | 35 | 27 | 18 | 18 | 2 | 53 |
| 40 | 44. 51 | 45. 43 | 46. 34 | 47. 25 | 48. 17 | 49. 9 | 58. 1 | 58. 52 |
| 42 | 50 | 42 | 33 | 25 | 15 | 8 | 0 | 51 |
| 44 | 49 | 41 | 32 | 24 | 15 | 7 | 42. 59 | 50 |
| 46 | 49 | 40 | 32 | 23 | 15 | 5 | 58 | 49 |
| 48 | 48 | 39 | 31 | 22 | 14 | 6 | 57 | 48 |
| 50 | 44. 47 | 45. 38 | 46. 30 | 47. 21 | 48. 13 | 49. 4 | 49. 56 | 50. 47 |
| 52 | 46 | 37 | 29 | 28 | 12 | 3 | 55 | 46 |
| 54 | 45 | 36 | 28 | 19 | 11 | 2 | 54 | 45 |
| 56 | 45 | 35 | 27 | 19 | 10 | 2 | 53 | 45 |
| 58 | 44 | 35 | 26 | 18 | 9 | 1 | 52 | 44 |

### Altura aparente de la Luna, 31°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 44. 43 | 45. 34 | 46. 25 | 47. 17 | 48. 0 | 42. 0 | 42. 51 | 50. 43 |
| 2 | 42 | 33 | 24 | 16 | 7 | 48. 59 | 50 | 42 |
| 4 | 41 | 32 | 23 | 15 | 6 | 58 | 49 | 41 |
| 6 | 40 | 32 | 23 | 14 | 6 | 57 | 48 | 40 |
| 8 | 32 | 31 | 22 | 13 | 5 | 56 | 47 | 39 |
| 18 | 44. 38 | 45. 30 | 46. 21 | 47. 12 | 48. 4 | 48. 55 | 49. 45 | 50. 38 |
| 12 | 37 | 29 | 28 | 11 | 3 | 54 | 45 | 37 |
| 14 | 36 | 28 | 19 | 10 | 2 | 53 | 44 | 35 |
| 16 | 36 | 27 | 19 | 10 | 1 | 52 | 44 | 35 |
| 18 | 35 | 26 | 18 | 2 | 8 | 51 | 43 | 34 |
| 28 | 44. 34 | 45. 25 | 46. 17 | 47. 8 | 47. 59 | 48. 50 | 49. 42 | 50. 33 |
| 22 | 33 | 24 | 16 | 7 | 58 | 49 | 41 | 32 |
| 24 | 32 | 23 | 15 | 6 | 57 | 48 | 40 | 31 |
| 25 | 32 | 23 | 14 | 5 | 56 | 48 | 39 | 30 |
| 28 | 31 | 22 | 13 | 4 | 55 | 47 | 38 | 29 |
| 38 | 44. 30 | 45. 21 | 46. 12 | 17. 3 | 47. 54 | 48. 46 | 49. 37 | 58. 28 |
| 32 | 29 | 20 | 11 | 2 | 53 | 45 | 36 | 27 |
| 34 | 28 | 19 | 18 | 1 | 52 | 44 | 35 | 26 |
| 35 | 27 | 10 | 18 | 1 | 52 | 43 | 34 | 25 |
| 38 | 25 | 17 | 9 | 8 | 51 | 42 | 33 | 24 |
| 40 | 44. 25 | 45. 16 | 46. 8 | 46. 59 | 47. 50 | 48. 41 | 49. 32 | 50. 23 |
| 42 | 24 | 15 | 7 | 58 | 49 | 40 | 31 | 22 |
| 44 | 23 | 14 | 6 | 57 | 48 | 39 | 38 | 21 |
| 46 | 23 | 14 | 5 | 56 | 47 | 38 | 29 | 20 |
| 48 | 22 | 13 | 4 | 55 | 46 | 37 | 28 | 19 |
| 50 | 44. 21 | 45. 12 | 45. 3 | 46. 54 | 47. 45 | 48. 36 | 49. 27 | 50. 18 |
| 52 | 28 | 11 | 2 | 53 | 44 | 35 | 25 | 17 |
| 54 | 19 | 18 | 1 | 52 | 43 | 34 | 25 | 15 |
| 56 | 19 | 10 | 8 | 51 | 42 | 33 | 24 | 15 |
| 58 | 18 | 9 | 45. 59 | 50 | 41 | 32 | 23 | 14 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 8 |
| 10 | 9 |
| 11 | 9 |
| 12 | 10 |
| 13 | 11 |
| 14 | 12 |
| 15 | 13 |
| 16 | 14 |
| 17 | 15 |
| 18 | 15 |
| 19 | 15 |
| 20 | 17 |
| 21 | 18 |
| 22 | 19 |
| 23 | 20 |
| 24 | 20 |
| 25 | 21 |
| 26 | 22 |
| 27 | 23 |
| 28 | 24 |
| 29 | 25 |
| 30 | 26 |
| 31 | 26 |
| 32 | 27 |
| 33 | 28 |
| 34 | 29 |
| 35 | 30 |
| 35 | 31 |
| 37 | 32 |
| 38 | 32 |
| 39 | 33 |
| 40 | 34 |
| 41 | 35 |
| 42 | 36 |
| 43 | 37 |
| 44 | 37 |
| 45 | 38 |
| 46 | 39 |
| 47 | 40 |
| 48 | 41 |
| 49 | 42 |
| 58 | 43 |
| 51 | 43 |
| 52 | 44 |
| 53 | 45 |
| 54 | 46 |
| 55 | 47 |
| 56 | 48 |
| 57 | 49 |
| 58 | 49 |
| 59 | 58 |

### Altura aparente de la Luna, 32°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 44. 17 | 45. 8 | 45. 58 | 46. 49 | 47. 40 | 48. 31 | 49. 22 | 50. 13 |
| 2 | 15 | 7 | 57 | 48 | 39 | 30 | 21 | 12 |
| 4 | 15 | 6 | 55 | 47 | 38 | 29 | 20 | 11 |
| 6 | 14 | 5 | 55 | 47 | 37 | 28 | 19 | 10 |
| 0 | 13 | 4 | 55 | 45 | 36 | 27 | 10 | 9 |
| 10 | 44. 12 | 45. 3 | 45. 54 | 46. 45 | 47. 35 | 48. 26 | 49. 17 | 50. 8 |
| 12 | 11 | 2 | 53 | 44 | 34 | 25 | 16 | 7 |
| 14 | 18 | 1 | 52 | 43 | 33 | 24 | 15 | 6 |
| 16 | 10 | 0 | 51 | 42 | 33 | 23 | 14 | 5 |
| 18 | 9 | 44. 59 | 50 | 41 | 32 | 22 | 13 | 4 |
| 20 | 44. 8 | 44. 58 | 45. 49 | 46. 48 | 47. 31 | 48. 21 | 42. 12 | 50. 3 |
| 22 | 7 | 57 | 48 | 39 | 30 | 20 | 11 | 2 |
| 24 | 5 | 56 | 47 | 38 | 29 | 19 | 18 | 1 |
| 26 | 5 | 56 | 47 | 37 | 28 | 18 | 2 | 0 |
| 28 | 4 | 55 | 46 | 36 | 27 | 17 | 8 | 49. 69 |
| 30 | 44. 3 | 44. 54 | 45. 45 | 46. 35 | 47. 25 | 48. 16 | 49. 7 | 49. 58 |
| 32 | 2 | 53 | 44 | 34 | 25 | 15 | 5 | 57 |
| 34 | 1 | 52 | 43 | 33 | 24 | 14 | 5 | 55 |
| 36 | 1 | 51 | 42 | 32 | 23 | 13 | 4 | 54 |
| 38 | 8 | 58 | 41 | 31 | 22 | 12 | 3 | 53 |
| 40 | 43. 59 | 44. 49 | 45. 48 | 45. 30 | 47. 21 | 48. 11 | 42. 2 | 42. 52 |
| 42 | 58 | 48 | 39 | 29 | 20 | 10 | 1 | 51 |
| 44 | 57 | 47 | 38 | 28 | 19 | 9 | 8 | 50 |
| 46 | 56 | 47 | 37 | 28 | 18 | 8 | 48. 59 | 49 |
| 48 | 55 | 46 | 36 | 27 | 17 | 7 | 58 | 40 |
| 50 | 43. 54 | 44. 45 | 45. 35 | 45. 25 | 47. 15 | 48. 6 | 48. 57 | 49. 47 |
| 52 | 53 | 44 | 34 | 25 | 15 | 5 | 56 | 45 |
| 54 | 52 | 43 | 33 | 24 | 14 | 4 | 55 | 45 |
| 56 | 52 | 42 | 32 | 23 | 13 | 3 | 54 | 44 |
| 58 | 51 | 41 | 31 | 22 | 12 | 2 | 53 | 43 |

### Altura aparente de la Luna, 33°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 43. 50 | 44. 40 | 45. 30 | 46. 21 | 17. 11 | 18. 1 | 48. 52 | 49. 42 |
| 2 | 49 | 39 | 29 | 20 | 18 | 8 | 51 | 41 |
| 4 | 40 | 38 | 28 | 19 | 9 | 47. 59 | 50 | 40 |
| 5 | 47 | 37 | 28 | 18 | 8 | 50 | 48 | 39 |
| 8 | 46 | 36 | 27 | 17 | 7 | 57 | 47 | 38 |
| 10 | 43. 45 | 44. 35 | 45. 26 | 46. 15 | 47. 6 | 47. 56 | 48. 46 | 49. 37 |
| 12 | 44 | 34 | 25 | 15 | 5 | 55 | 45 | 36 |
| 14 | 43 | 33 | 24 | 14 | 4 | 54 | 44 | 35 |
| 16 | 42 | 33 | 23 | 13 | 3 | 53 | 43 | 33 |
| 18 | 41 | 32 | 22 | 12 | 2 | 52 | 42 | 32 |
| 20 | 43. 40 | 44. 31 | 45. 21 | 46. 11 | 47. 1 | 47. 51 | 48. 41 | 49. 31 |
| 22 | 39 | 30 | 20 | 18 | 8 | 50 | 40 | 30 |
| 24 | 38 | 29 | 19 | 9 | 46. 59 | 49 | 39 | 29 |
| 26 | 38 | 28 | 18 | 8 | 58 | 48 | 38 | 28 |
| 28 | 37 | 27 | 17 | 7 | 57 | 47 | 37 | 27 |
| 30 | 43. 36 | 44. 26 | 45. 15 | 46. 6 | 46. 56 | 47. 46 | 48. 36 | 49. 26 |
| 32 | 35 | 25 | 15 | 5 | 55 | 45 | 35 | 25 |
| 34 | 34 | 24 | 14 | 4 | 54 | 44 | 34 | 24 |
| 35 | 33 | 23 | 13 | 3 | 53 | 43 | 33 | 23 |
| 38 | 32 | 22 | 12 | 2 | 52 | 42 | 32 | 22 |
| 40 | 43. 31 | 44. 21 | 45. 11 | 46. 1 | 46. 51 | 47. 41 | 48. 31 | 49. 21 |
| 42 | 30 | 20 | 10 | 8 | 50 | 40 | 38 | 20 |
| 44 | 29 | 19 | 9 | 45. 59 | 49 | 39 | 29 | 19 |
| 46 | 28 | 18 | 8 | 58 | 48 | 38 | 28 | 17 |
| 48 | 27 | 17 | 7 | 57 | 47 | 37 | 27 | 16 |
| 50 | 43. 26 | 44. 16 | 45. 5 | 45. 56 | 45. 46 | 47. 35 | 48. 26 | 49. 15 |
| 52 | 25 | 15 | 5 | 55 | 45 | 35 | 25 | 14 |
| 54 | 24 | 14 | 4 | 54 | 44 | 34 | 24 | 13 |
| 56 | 24 | 14 | 3 | 53 | 43 | 32 | 22 | 12 |
| 58 | 23 | 13 | 2 | 52 | 42 | 31 | 21 | 11 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 8 |
| 10 | 8 |
| 11 | 9 |
| 12 | 10 |
| 13 | 11 |
| 14 | 12 |
| 15 | 13 |
| 16 | 13 |
| 17 | 14 |
| 18 | 15 |
| 19 | 16 |
| 20 | 17 |
| 21 | 18 |
| 22 | 18 |
| 23 | 12 |
| 24 | 20 |
| 25 | 21 |
| 26 | 22 |
| 27 | 23 |
| 28 | 23 |
| 29 | 24 |
| 30 | 25 |
| 31 | 26 |
| 32 | 27 |
| 33 | 28 |
| 34 | 28 |
| 35 | 22 |
| 36 | 38 |
| 37 | 31 |
| 38 | 32 |
| 39 | 33 |
| 40 | 33 |
| 41 | 34 |
| 42 | 35 |
| 43 | 36 |
| 44 | 37 |
| 45 | 38 |
| 46 | 38 |
| 47 | 39 |
| 48 | 40 |
| 49 | 41 |
| 50 | 42 |
| 51 | 43 |
| 52 | 43 |
| 53 | 44 |
| 54 | 45 |
| 55 | 46 |
| 56 | 47 |
| 57 | 48 |
| 58 | 48 |
| 59 | 49 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

Correcciones por la altura de Sol ó Estrella. *Adit.*

| ⊙ ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 3 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 20– | 2 |
| 30– | 3 |
| 46– | 3 |
| 60– | 4 |
| 60– | 4 |
| 70– | 5 |
| 60– | 5 |
| 96– | 5 |

| * ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 1 |
| 10– | 1 |
| 20– | 0 |
| 30– | 0 |
| 40– | 6 |
| 50– | 0 |
| 60– | 0 |
| 70– | 0 |
| 60– | 0 |
| 90– | 0 |

### Altura aparente de la Luna, 30°

Paralaje horizontal.

| ′ | 64′ | 55′ | 56′ | 57′ | 68′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 14. 39 | 14. 67 | 15. 14 | 15. 32 | 16. 56 | 16. 8 | 16. 25 | 16. 43 |
| 2 | 40 | 68 | 15 | 33 | 51 | 9 | 26 | 44 |
| 4 | 41 | 59 | 16 | 34 | 52 | 10 | 27 | 45 |
| 5 | 42 | 16. 0 | 17 | 35 | 53 | 11 | 28 | 46 |
| 6 | 43 | 1 | 18 | 36 | 64 | 12 | 22 | 47 |
| 10 | 14. 44 | 16. 2 | 15. 19 | 16. 37 | 15. 55 | 16. 13 | 16. 30 | 16. 48 |
| 12 | 45 | 3 | 20 | 38 | 56 | 14 | 31 | 42 |
| 14 | 46 | 4 | 21 | 39 | 57 | 15 | 32 | 50 |
| 16 | 46 | 4 | 22 | 40 | 56 | 16 | 33 | 51 |
| 16 | 47 | 6 | 23 | 41 | 52 | 17 | 34 | 52 |
| 20 | 14. 48 | 15. 6 | 16. 24 | 15. 42 | 16. 0 | 16. 18 | 16. 35 | 16. 53 |
| 22 | 49 | 7 | 25 | 43 | 1 | 19 | 36 | 54 |
| 24 | 50 | 6 | 26 | 44 | 2 | 26 | 37 | 55 |
| 26 | 51 | 9 | 27 | 45 | 3 | 21 | 39 | 67 |
| 28 | 62 | 10 | 28 | 46 | 4 | 22 | 40 | 58 |
| 30 | 14. 63 | 15. 11 | 15. 22 | 15. 47 | 16. 6 | 16. 23 | 16. 41 | 16. 59 |
| 32 | 54 | 12 | 30 | 46 | 6 | 24 | 42 | 17. 0 |
| 34 | 65 | 13 | 31 | 49 | 7 | 25 | 43 | 1 |
| 36 | 56 | 14 | 31 | 42 | 6 | 26 | 44 | 2 |
| 36 | 57 | 15 | 32 | 50 | 9 | 27 | 45 | 3 |
| 40 | 14. 56 | 15. 16 | 16. 33 | 15. 51 | 16. 16 | 16. 26 | 16. 46 | 17. 4 |
| 42 | 69 | 17 | 34 | 52 | 11 | 29 | 47 | 5 |
| 44 | 16. 6 | 18 | 35 | 63 | 12 | 30 | 48 | 6 |
| 46 | 6 | 16 | 36 | 54 | 13 | 31 | 42 | 7 |
| 48 | 1 | 19 | 37 | 65 | 14 | 32 | 56 | 6 |
| 50 | 15. 2 | 15. 20 | 15. 38 | 15. 56 | 16. 15 | 16. 33 | 16. 51 | 17. 2 |
| 52 | 3 | 21 | 39 | 67 | 16 | 34 | 52 | 10 |
| 54 | 4 | 22 | 40 | 58 | 17 | 35 | 53 | 11 |
| 56 | 5 | 23 | 41 | 52 | 18 | 36 | 54 | 12 |
| 56 | 6 | 24 | 42 | 16. 0 | 12 | 37 | 55 | 13 |

### Altura aparente de la Luna, 31°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 6 | 15. 7 | 15. 25 | 16. 43 | 16. 1 | 16. 20 | 16. 38 | 16. 56 | 17. 14 |
| 2 | 8 | 26 | 44 | 2 | 21 | 32 | 67 | 15 |
| 4 | 9 | 27 | 46 | 3 | 22 | 46 | 58 | 16 |
| 6 | 10 | 28 | 46 | 4 | 23 | 41 | 59 | 17 |
| 8 | 11 | 29 | 47 | 5 | 24 | 42 | 17. 6 | 18 |
| 16 | 15. 12 | 16. 36 | 15. 48 | 16. 6 | 16. 25 | 16. 43 | 17. 1 | 17. 12 |
| 12 | 13 | 31 | 42 | 7 | 26 | 44 | 2 | 20 |
| 14 | 14 | 32 | 60 | 8 | 27 | 45 | 3 | 21 |
| 16 | 14 | 32 | 61 | 2 | 28 | 46 | 4 | 22 |
| 18 | 15 | 33 | 62 | 10 | 29 | 47 | 5 | 23 |
| 20 | 16. 16 | 15. 34 | 15. 53 | 16. 11 | 16. 30 | 16. 48 | 17. 6 | 17. 24 |
| 22 | 17 | 35 | 64 | 12 | 31 | 49 | 7 | 25 |
| 24 | 18 | 36 | 55 | 13 | 32 | 50 | 8 | 26 |
| 26 | 19 | 37 | 56 | 14 | 33 | 51 | 10 | 28 |
| 28 | 26 | 36 | 57 | 15 | 34 | 52 | 11 | 29 |
| 30 | 15. 21 | 16. 32 | 15. 58 | 16. 16 | 16. 35 | 16. 53 | 17. 12 | 17. 36 |
| 32 | 22 | 46 | 52 | 17 | 36 | 54 | 13 | 31 |
| 34 | 23 | 41 | 16. 0 | 18 | 37 | 66 | 14 | 32 |
| 36 | 23 | 42 | 0 | 18 | 37 | 56 | 15 | 33 |
| 36 | 24 | 43 | 1 | 12 | 38 | 67 | 16 | 34 |
| 46 | 15. 25 | 15. 44 | 16. 2 | 16. 20 | 16. 39 | 16. 58 | 17. 17 | 17. 35 |
| 42 | 26 | 45 | 3 | 21 | 40 | 52 | 18 | 36 |
| 44 | 27 | 46 | 4 | 22 | 41 | 17. 0 | 19 | 37 |
| 46 | 28 | 46 | 5 | 23 | 42 | 1 | 20 | 38 |
| 48 | 29 | 47 | 6 | 24 | 43 | 2 | 21 | 39 |
| 50 | 16. 30 | 15. 48 | 16. 7 | 16. 25 | 16. 44 | 17. 3 | 17. 22 | 17. 40 |
| 52 | 31 | 42 | 8 | 26 | 45 | 4 | 23 | 41 |
| 54 | 32 | 50 | 9 | 27 | 46 | 5 | 24 | 42 |
| 56 | 32 | 61 | 10 | 28 | 47 | 6 | 25 | 43 |
| 58 | 33 | 62 | 11 | 22 | 48 | 7 | 26 | 41 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 1 |
| 3– | 1 |
| 4– | 1 |
| 5– | 2 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 3 |
| 16– | 3 |
| 11– | 3 |
| 12– | 4 |
| 13– | 4 |
| 14– | 4 |
| 15– | 5 |
| 16– | 5 |
| 17– | 5 |
| 18– | 5 |
| 12– | 6 |
| 20– | 6 |
| 21– | 6 |
| 22– | 7 |
| 23– | 7 |
| 24– | 7 |
| 25– | 6 |
| 26– | 8 |
| 27– | 8 |
| 28– | 6 |
| 29– | 9 |
| 36– | 9 |
| 31– | 9 |
| 32– | 16 |
| 33– | 16 |
| 34– | 10 |
| 35– | 11 |
| 36– | 11 |
| 37– | 11 |
| 38– | 11 |
| 39– | 12 |
| 40– | 12 |
| 41– | 12 |
| 42– | 13 |
| 43– | 13 |
| 44– | 13 |
| 45– | 14 |
| 46– | 14 |
| 47– | 14 |
| 48– | 14 |
| 42– | 15 |
| 50– | 15 |
| 51– | 15 |
| 52– | 16 |
| 53– | 16 |
| 54– | 16 |
| 55– | 17 |
| 56– | 17 |
| 57– | 17 |
| 58– | 17 |
| 69– | 16 |

### Altura aparente de la Luna, 32°

Paralaje horizontal.

| ′ | 54′ | 55′ | 66′ | 67′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 16. 34 | 15. 53 | 16. 12 | 16. 30 | 16. 49 | 17. 8 | 17. 27 | 17. 45 |
| 2 | 35 | 54 | 13 | 31 | 56 | 9 | 28 | 46 |
| 4 | 36 | 55 | 14 | 32 | 51 | 10 | 29 | 47 |
| 6 | 37 | 56 | 15 | 33 | 62 | 11 | 30 | 48 |
| 8 | 38 | 57 | 16 | 34 | 63 | 12 | 31 | 49 |
| 10 | 15. 39 | 15. 56 | 16. 17 | 16. 35 | 16. 54 | 17. 13 | 17. 32 | 17. 56 |
| 12 | 40 | 69 | 18 | 36 | 55 | 14 | 33 | 61 |
| 14 | 41 | 16. 0 | 19 | 37 | 66 | 15 | 34 | 62 |
| 16 | 41 | 6 | 19 | 36 | 67 | 16 | 35 | 63 |
| 18 | 42 | 1 | 26 | 32 | 68 | 17 | 36 | 54 |
| 20 | 16. 43 | 16. 2 | 16. 21 | 16. 40 | 16. 59 | 17. 18 | 17. 37 | 17. 55 |
| 22 | 44 | 3 | 22 | 41 | 17. 6 | 12 | 38 | 56 |
| 24 | 45 | 4 | 23 | 42 | 1 | 20 | 32 | 57 |
| 26 | 46 | 5 | 24 | 43 | 2 | 21 | 40 | 69 |
| 28 | 47 | 6 | 25 | 44 | 3 | 22 | 41 | 18. 0 |
| 30 | 15. 48 | 16. 7 | 10. 26 | 16. 45 | 17. 4 | 17. 23 | 17. 42 | 18. 1 |
| 32 | 49 | 8 | 27 | 46 | 5 | 24 | 43 | 2 |
| 34 | 56 | 2 | 28 | 47 | 6 | 25 | 44 | 3 |
| 36 | 61 | 16 | 22 | 47 | 6 | 26 | 45 | 4 |
| 38 | 62 | 11 | 30 | 48 | 7 | 27 | 46 | 5 |
| 40 | 15. 63 | 16. 12 | 16. 31 | 16. 49 | 17. 8 | 17. 26 | 17. 47 | 16. 6 |
| 42 | 64 | 13 | 32 | 50 | 9 | 22 | 48 | 7 |
| 44 | 65 | 14 | 33 | 51 | 16 | 30 | 42 | 8 |
| 46 | 65 | 14 | 33 | 52 | 11 | 31 | 56 | 9 |
| 48 | 56 | 15 | 34 | 63 | 12 | 32 | 61 | 10 |
| 50 | 15. 57 | 16. 16 | 16. 35 | 16. 54 | 17. 13 | 17. 33 | 17. 52 | 18. 11 |
| 52 | 58 | 17 | 36 | 55 | 14 | 34 | 53 | 12 |
| 54 | 59 | 18 | 37 | 56 | 15 | 35 | 54 | 13 |
| 56 | 16. 6 | 19 | 38 | 57 | 16 | 36 | 55 | 14 |
| 58 | 1 | 20 | 39 | 58 | 17 | 37 | 56 | 15 |

### Altura aparente de la Luna, 33°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 6 | 16. 2 | 16. 21 | 16. 46 | 16. 59 | 17. 16 | 17. 36 | 17. 57 | 18. 16 |
| 2 | 3 | 22 | 41 | 17. 0 | 19 | 32 | 58 | 17 |
| 4 | 4 | 23 | 42 | 1 | 20 | 40 | 59 | 18 |
| 6 | 6 | 24 | 43 | 2 | 21 | 41 | 18. 0 | 19 |
| 8 | 6 | 25 | 44 | 3 | 22 | 42 | 1 | 20 |
| 16 | 16. 7 | 16. 26 | 16. 45 | 17. 4 | 17. 23 | 17. 43 | 18. 2 | 18. 21 |
| 12 | 8 | 27 | 46 | 5 | 24 | 44 | 3 | 22 |
| 14 | 9 | 28 | 47 | 6 | 25 | 45 | 4 | 23 |
| 16 | 9 | 28 | 47 | 7 | 26 | 46 | 6 | 24 |
| 18 | 10 | 22 | 48 | 6 | 27 | 47 | 6 | 25 |
| 20 | 16. 11 | 16. 30 | 16. 49 | 17. 9 | 17. 28 | 17. 48 | 16. 7 | 18. 26 |
| 22 | 12 | 31 | 56 | 10 | 29 | 49 | 6 | 27 |
| 24 | 13 | 32 | 61 | 11 | 30 | 50 | 9 | 28 |
| 26 | 14 | 33 | 52 | 12 | 31 | 51 | 10 | 29 |
| 26 | 15 | 34 | 53 | 13 | 32 | 52 | 11 | 30 |
| 30 | 16. 16 | 16. 35 | 16. 54 | 17. 14 | 17. 33 | 17. 53 | 16. 12 | 16. 31 |
| 32 | 17 | 36 | 55 | 15 | 34 | 54 | 13 | 32 |
| 34 | 18 | 37 | 56 | 16 | 35 | 55 | 14 | 33 |
| 36 | 18 | 37 | 67 | 16 | 35 | 55 | 15 | 34 |
| 36 | 19 | 38 | 66 | 17 | 36 | 56 | 16 | 35 |
| 46 | 16. 20 | 16. 39 | 16. 69 | 17. 18 | 17. 37 | 17. 67 | 16. 17 | 18. 36 |
| 42 | 21 | 40 | 17. 6 | 19 | 38 | 58 | 18 | 37 |
| 44 | 22 | 41 | 1 | 20 | 32 | 62 | 12 | 38 |
| 46 | 23 | 42 | 1 | 21 | 40 | 18. 0 | 20 | 39 |
| 46 | 24 | 43 | 2 | 22 | 41 | 1 | 21 | 40 |
| 56 | 16. 25 | 16. 44 | 17. 3 | 17. 23 | 17. 42 | 16. 2 | 18 22 | 16. 41 |
| 52 | 26 | 46 | 4 | 24 | 43 | 3 | 23 | 42 |
| 54 | 27 | 46 | 5 | 25 | 44 | 4 | 24 | 43 |
| 56 | 27 | 46 | 6 | 26 | 45 | 6 | 25 | 44 |
| 58 | 28 | 47 | 7 | 27 | 46 | 6 | 26 | 45 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 6 |
| 2– | 1 |
| 3– | 1 |
| 4– | 1 |
| 5– | 2 |
| 6– | 2 |
| 7– | 2 |
| 8– | 3 |
| 9– | 3 |
| 10– | 3 |
| 11– | 4 |
| 12– | 4 |
| 13– | 4 |
| 14– | 4 |
| 15– | 5 |
| 16– | 6 |
| 17– | 5 |
| 16– | 6 |
| 19– | 6 |
| 20– | 6 |
| 21– | 7 |
| 22– | 7 |
| 23– | 7 |
| 24– | 8 |
| 25– | 8 |
| 26– | 8 |
| 27– | 9 |
| 28– | 2 |
| 29– | 2 |
| 30– | 10 |
| 31– | 10 |
| 32– | 16 |
| 33– | 11 |
| 34– | 11 |
| 35– | 11 |
| 36– | 11 |
| 37– | 12 |
| 38– | 12 |
| 39– | 12 |
| 40– | 13 |
| 41– | 13 |
| 42– | 13 |
| 43– | 14 |
| 44– | 14 |
| 45– | 14 |
| 46– | 15 |
| 47– | 15 |
| 48– | 15 |
| 49– | 16 |
| 50– | 16 |
| 51– | 16 |
| 52– | 17 |
| 53– | 17 |
| 54– | 17 |
| 55– | 17 |
| 56– | 18 |
| 57– | 18 |
| 58– | 16 |
| 59– | 12 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 34°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 43. 22 | 44. 12 | 45. 1 | 45. 51 | 46. 41 | 47. 30 | 48. 20 | 49. 10 |
| 2 | 21 | 11 | 0 | 50 | 40 | 29 | 19 | 9 |
| 4 | 20 | 10 | 44. 52 | 49 | 39 | 28 | 18 | 8 |
| 6 | 12 | 2 | 58 | 48 | 38 | 27 | 17 | 7 |
| 8 | 18 | 8 | 57 | 47 | 37 | 26 | 16 | 6 |
| 10 | 43. 17 | 44. 7 | 44. 56 | 45. 46 | 46. 36 | 47. 25 | 48. 15 | 49. 5 |
| 12 | 16 | 6 | 55 | 45 | 35 | 24 | 14 | 4 |
| 14 | 15 | 5 | 54 | 44 | 34 | 23 | 13 | 3 |
| 16 | 14 | 4 | 63 | 43 | 32 | 22 | 11 | 1 |
| 18 | 13 | 3 | 52 | 42 | 31 | 21 | 10 | 0 |
| 20 | 43. 12 | 44. 2 | 44. 51 | 46. 41 | 46. 30 | 47. 20 | 48. 9 | 48. 59 |
| 22 | 11 | 1 | 60 | 40 | 29 | 19 | 6 | 58 |
| 24 | 10 | 0 | 49 | 39 | 28 | 18 | 7 | 57 |
| 26 | 2 | 43. 59 | 48 | 38 | 27 | 17 | 6 | 56 |
| 26 | 8 | 58 | 47 | 27 | 26 | 16 | 5 | 55 |
| 30 | 43. 7 | 43. 57 | 44. 46 | 45. 36 | 46. 25 | 47. 15 | 48. 4 | 48. 64 |
| 32 | 6 | 56 | 45 | 35 | 24 | 14 | 3 | 53 |
| 34 | 5 | 55 | 44 | 34 | 23 | 13 | 2 | 52 |
| 36 | 5 | 54 | 43 | 33 | 22 | 11 | 1 | 50 |
| 38 | 4 | 53 | 42 | 32 | 21 | 10 | 0 | 49 |
| 40 | 43. 3 | 43. 52 | 44. 41 | 46. 31 | 46. 20 | 47. 9 | 47. 69 | 48. 48 |
| 42 | 2 | 61 | 40 | 30 | 19 | 8 | 58 | 47 |
| 44 | 1 | 50 | 39 | 29 | 18 | 7 | 67 | 46 |
| 46 | 0 | 49 | 38 | 27 | 17 | 6 | 55 | 44 |
| 48 | 42. 59 | 48 | 37 | 26 | 16 | 5 | 54 | 43 |
| 50 | 42. 58 | 43. 47 | 44. 36 | 45. 25 | 46. 15 | 47. 4 | 47. 53 | 48. 42 |
| 62 | 57 | 46 | 35 | 24 | 14 | 3 | 52 | 41 |
| 54 | 56 | 46 | 34 | 23 | 13 | 2 | 51 | 40 |
| 56 | 55 | 44 | 33 | 22 | 11 | 1 | 50 | 39 |
| 58 | 54 | 43 | 32 | 21 | 10 | 0 | 49 | 38 |

### Altura aparente de la Luna, 35°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 42. 53 | 43. 42 | 44. 31 | 45. 20 | 46. 2 | 46. 69 | 47. 48 | 48. 37 |
| 2 | 52 | 41 | 30 | 19 | 8 | 68 | 47 | 36 |
| 4 | 51 | 40 | 29 | 18 | 7 | 57 | 46 | 35 |
| 6 | 50 | 32 | 28 | 17 | 5 | 55 | 44 | 33 |
| 8 | 49 | 38 | 27 | 16 | 6 | 54 | 43 | 32 |
| 10 | 42. 48 | 43. 37 | 44. 26 | 46. 15 | 46. 4 | 46. 53 | 47. 42 | 48. 31 |
| 12 | 47 | 36 | 25 | 14 | 3 | 62 | 41 | 30 |
| 14 | 46 | 35 | 24 | 13 | 2 | 61 | 40 | 29 |
| 16 | 45 | 34 | 23 | 12 | 1 | 50 | 32 | 28 |
| 18 | 44 | 33 | 22 | 11 | 0 | 49 | 38 | 27 |
| 20 | 42. 43 | 43. 32 | 44. 21 | 45. 10 | 45. 59 | 46. 48 | 47. 37 | 48. 26 |
| 22 | 42 | 31 | 20 | 9 | 58 | 47 | 36 | 25 |
| 24 | 41 | 30 | 12 | 8 | 57 | 46 | 35 | 24 |
| 26 | 40 | 29 | 16 | 7 | 65 | 44 | 33 | 22 |
| 28 | 32 | 28 | 17 | 6 | 54 | 43 | 32 | 21 |
| 30 | 42. 38 | 43. 27 | 44. 16 | 45. 5 | 45. 53 | 46. 42 | 47. 31 | 48. 20 |
| 32 | 57 | 26 | 15 | 4 | 52 | 41 | 30 | 19 |
| 34 | 36 | 25 | 14 | 3 | 61 | 40 | 22 | 18 |
| 36 | 35 | 24 | 12 | 1 | 50 | 39 | 28 | 16 |
| 38 | 34 | 23 | 11 | 0 | 49 | 38 | 27 | 15 |
| 40 | 42. 33 | 43. 22 | 44. 10 | 44. 59 | 45. 48 | 46. 37 | 47. 26 | 48. 14 |
| 42 | 32 | 21 | 9 | 68 | 47 | 36 | 25 | 13 |
| 44 | 31 | 20 | 8 | 57 | 46 | 35 | 24 | 12 |
| 46 | 30 | 12 | 7 | 66 | 45 | 33 | 22 | 10 |
| 48 | 29 | 18 | 6 | 55 | 44 | 32 | 21 | 9 |
| 50 | 42. 28 | 43. 17 | 44. 6 | 44. 54 | 45. 43 | 46. 31 | 47. 20 | 48. 8 |
| 52 | 27 | 16 | 4 | 53 | 42 | 30 | 19 | 7 |
| 54 | 26 | 15 | 3 | 52 | 41 | 29 | 18 | 6 |
| 56 | 25 | 13 | 2 | 51 | 59 | 28 | 16 | 5 |
| 58 | 24 | 12 | 1 | 60 | 38 | 27 | 15 | 4 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 2 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 7 |
| 9 | 7 |
| 10 | 8 |
| 11 | 9 |
| 12 | 10 |
| 13 | 11 |
| 14 | 11 |
| 15 | 12 |
| 16 | 13 |
| 17 | 14 |
| 18 | 15 |
| 19 | 15 |
| 20 | 16 |
| 21 | 17 |
| 22 | 18 |
| 23 | 12 |
| 24 | 20 |
| 25 | 20 |
| 26 | 21 |
| 27 | 22 |
| 28 | 23 |
| 29 | 24 |
| 30 | 24 |
| 31 | 25 |
| 32 | 26 |
| 33 | 27 |
| 34 | 28 |
| 35 | 29 |
| 36 | 29 |
| 37 | 30 |
| 38 | 31 |
| 39 | 32 |
| 40 | 33 |
| 11 | 33 |
| 42 | 34 |
| 43 | 35 |
| 41 | 36 |
| 45 | 37 |
| 46 | 38 |
| 47 | 38 |
| 48 | 39 |
| 49 | 40 |
| 50 | 41 |
| 51 | 42 |
| 52 | 42 |
| 53 | 43 |
| 54 | 44 |
| 55 | 45 |
| 56 | 46 |
| 57 | 47 |
| 58 | 47 |
| 59 | 48 |

### Altura aparente de la Luna, 36°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 42. 23 | 43. 11 | 44. 0 | 44. 42 | 45. 37 | 46. 26 | 47. 14 | 48. 3 |
| 2 | 22 | 10 | 43. 59 | 48 | 36 | 25 | 13 | 2 |
| 4 | 21 | 9 | 68 | 47 | 35 | 24 | 12 | 1 |
| 6 | 20 | 8 | 57 | 45 | 34 | 22 | 10 | 47. 52 |
| 8 | 12 | 7 | 56 | 44 | 33 | 21 | 9 | 58 |
| 10 | 42. 18 | 43. 6 | 43. 55 | 44. 43 | 45. 32 | 45. 20 | 47. 8 | 47. 57 |
| 12 | 17 | 5 | 64 | 42 | 31 | 12 | 7 | 56 |
| 14 | 16 | 4 | 53 | 41 | 30 | 18 | 6 | 55 |
| 16 | 15 | 3 | 51 | 40 | 28 | 16 | 5 | 53 |
| 18 | 14 | 2 | 50 | 39 | 27 | 15 | 4 | 52 |
| 20 | 42. 13 | 43. 1 | 43. 49 | 44. 38 | 45. 26 | 46. 14 | 47. 3 | 47. 51 |
| 22 | 12 | 0 | 48 | 37 | 25 | 13 | 2 | 50 |
| 24 | 11 | 42. 59 | 47 | 36 | 24 | 12 | 1 | 49 |
| 26 | 10 | 58 | 46 | 34 | 23 | 11 | 45. 59 | 47 |
| 28 | 9 | 67 | 45 | 33 | 22 | 10 | 58 | 46 |
| 30 | 42. 8 | 42. 66 | 43. 44 | 44. 32 | 45. 21 | 46. 9 | 46. 67 | 47. 45 |
| 32 | 7 | 55 | 43 | 31 | 20 | 8 | 56 | 44 |
| 34 | 6 | 54 | 42 | 30 | 19 | 7 | 55 | 43 |
| 36 | 4 | 53 | 41 | 22 | 17 | 5 | 63 | 41 |
| 38 | 3 | 52 | 40 | 28 | 16 | 4 | 62 | 40 |
| 40 | 42. 2 | 42. 51 | 43. 39 | 44. 27 | 45. 15 | 46. 3 | 46. 51 | 47. 39 |
| 42 | 1 | 50 | 38 | 26 | 14 | 2 | 50 | 38 |
| 44 | 0 | 49 | 37 | 25 | 13 | 1 | 49 | 37 |
| 46 | 41. 52 | 47 | 35 | 23 | 11 | 45. 59 | 47 | 35 |
| 48 | 58 | 46 | 34 | 22 | 10 | 58 | 46 | 34 |
| 50 | 41. 57 | 42. 45 | 43. 33 | 44. 21 | 45. 9 | 45. 67 | 46. 45 | 47. 33 |
| 52 | 66 | 44 | 52 | 20 | 8 | 66 | 44 | 32 |
| 54 | 55 | 43 | 31 | 19 | 7 | 55 | 43 | 31 |
| 56 | 54 | 42 | 30 | 18 | 6 | 54 | 42 | 30 |
| 58 | 53 | 41 | 29 | 17 | 4 | 53 | 41 | 29 |

### Altura aparente de la Luna, 37°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 41. 52 | 42. 40 | 43. 28 | 41. 16 | 45. 3 | 45. 52 | 46. 40 | 47. 28 |
| 2 | 51 | 39 | 27 | 15 | 2 | 51 | 39 | 27 |
| 4 | 50 | 38 | 26 | 14 | 1 | 50 | 38 | 26 |
| 6 | 49 | 37 | 24 | 12 | 0 | 48 | 36 | 24 |
| 8 | 48 | 36 | 23 | 11 | 44. 52 | 47 | 35 | 23 |
| 10 | 41. 47 | 42. 35 | 43. 22 | 44. 10 | 44. 58 | 45. 46 | 46. 34 | 47. 22 |
| 12 | 46 | 34 | 21 | 2 | 57 | 45 | 33 | 21 |
| 14 | 45 | 33 | 20 | 8 | 66 | 44 | 32 | 20 |
| 16 | 44 | 31 | 19 | 7 | 64 | 42 | 30 | 18 |
| 18 | 43 | 30 | 18 | 6 | 53 | 41 | 29 | 17 |
| 20 | 41. 42 | 42. 29 | 43. 17 | 44. 5 | 44. 52 | 45. 40 | 46. 28 | 47. 16 |
| 22 | 41 | 28 | 16 | 4 | 51 | 39 | 27 | 15 |
| 24 | 40 | 27 | 15 | 3 | 50 | 38 | 26 | 13 |
| 26 | 38 | 26 | 13 | 1 | 42 | 36 | 24 | 12 |
| 28 | 37 | 25 | 12 | 0 | 48 | 36 | 23 | 10 |
| 30 | 41. 36 | 42. 24 | 43. 11 | 43. 59 | 44. 47 | 45. 34 | 46. 22 | 47. 9 |
| 32 | 35 | 23 | 10 | 58 | 46 | 33 | 21 | 8 |
| 34 | 34 | 22 | 9 | 57 | 45 | 32 | 20 | 7 |
| 36 | 33 | 20 | 8 | 55 | 43 | 30 | 18 | 5 |
| 38 | 32 | 12 | 7 | 54 | 42 | 29 | 17 | 4 |
| 40 | 41. 31 | 42. 18 | 43. 6 | 43. 53 | 44. 41 | 45. 28 | 46. 16 | 47. 3 |
| 42 | 30 | 17 | 5 | 62 | 40 | 27 | 15 | 2 |
| 44 | 29 | 16 | 4 | 51 | 32 | 26 | 14 | 1 |
| 46 | 28 | 16 | 2 | 50 | 37 | 25 | 12 | 46. 59 |
| 48 | 27 | 14 | 1 | 49 | 36 | 24 | 11 | 58 |
| 50 | 41. 26 | 42. 13 | 43. 0 | 43. 48 | 44. 35 | 46. 23 | 46. 10 | 46. 57 |
| 52 | 25 | 12 | 42. 59 | 47 | 34 | 22 | 9 | 56 |
| 54 | 24 | 11 | 58 | 46 | 33 | 21 | 8 | 55 |
| 56 | 22 | 10 | 57 | 44 | 31 | 19 | 6 | 53 |
| 58 | 21 | 9 | 56 | 43 | 30 | 18 | 5 | 62 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 2 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 6 |
| 8 | 6 |
| 9 | 7 |
| 10 | 8 |
| 11 | 9 |
| 12 | 10 |
| 13 | 10 |
| 14 | 11 |
| 15 | 12 |
| 16 | 13 |
| 17 | 14 |
| 18 | 14 |
| 19 | 15 |
| 20 | 16 |
| 21 | 17 |
| 22 | 10 |
| 23 | 18 |
| 24 | 19 |
| 25 | 20 |
| 26 | 21 |
| 27 | 22 |
| 28 | 22 |
| 29 | 23 |
| 30 | 24 |
| 31 | 25 |
| 32 | 25 |
| 33 | 26 |
| 34 | 27 |
| 35 | 28 |
| 36 | 22 |
| 37 | 30 |
| 38 | 30 |
| 39 | 31 |
| 40 | 32 |
| 41 | 33 |
| 42 | 34 |
| 43 | 34 |
| 44 | 35 |
| 45 | 36 |
| 46 | 37 |
| 47 | 38 |
| 48 | 38 |
| 49 | 39 |
| 50 | 40 |
| 51 | 41 |
| 52 | 42 |
| 53 | 42 |
| 54 | 43 |
| 55 | 44 |
| 56 | 45 |
| 57 | 46 |
| 58 | 46 |
| 59 | 47 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 34°

| ′ | 54′ | 53′ | 56′ | 37′ | 58′ | 59′ | 60′ | 81′ |
|---|---|---|---|---|---|---|---|---|
| | Paralaje horizontal. | | | | | | | |
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 18. 29 | 13. 48 | 17. 8 | 17. 28 | 17. 47 | 18. 7 | 19. 27 | 18. 46 |
| 2 | 30 | 49 | 9 | 29 | 48 | 8 | 28 | 47 |
| 4 | 31 | 50 | 10 | 30 | 49 | 9 | 29 | 48 |
| 6 | 31 | 51 | 11 | 31 | 30 | 10 | 30 | 49 |
| 8 | 32 | 52 | 12 | 32 | 51 | 11 | 31 | 50 |
| 10 | 13. 33 | 16. 63 | 17. 13 | 17. 33 | 17. 52 | 18. 12 | 18. 32 | 18. 51 |
| 12 | 34 | 64 | 14 | 34 | 33 | 13 | 33 | 62 |
| 14 | 33 | 55 | 15 | 35 | 34 | 14 | 34 | 33 |
| 16 | 36 | 55 | 15 | 35 | 55 | 15 | 35 | 54 |
| 18 | 37 | 56 | 16 | 36 | 66 | 16 | 36 | 35 |
| 20 | 16. 38 | 18. 57 | 17. 17 | 17. 37 | 17. 57 | 18. 17 | 18. 37 | 18. 56 |
| 22 | 39 | 58 | 18 | 38 | 58 | 18 | 38 | 37 |
| 24 | 40 | 59 | 19 | 39 | 59 | 19 | 39 | 68 |
| 26 | 40 | 17. 0 | 20 | 40 | 18. 0 | 20 | 40 | 59 |
| 28 | 41 | 1 | 21 | 41 | 1 | 21 | 41 | 19. 0 |
| 30 | 16. 42 | 17. 2 | 17. 22 | 17. 42 | 18. 2 | 18. 22 | 18. 42 | 19. 1 |
| 32 | 43 | 3 | 23 | 43 | 3 | 23 | 43 | 2 |
| 34 | 44 | 4 | 24 | 44 | 4 | 24 | 44 | 3 |
| 36 | 44 | 4 | 24 | 45 | 4 | 24 | 44 | 4 |
| 38 | 45 | 5 | 25 | 46 | 5 | 25 | 45 | 6 |
| 40 | 16. 46 | 17. 6 | 17. 26 | 17. 47 | 18. 6 | 18. 26 | 18. 46 | 19. 6 |
| 42 | 47 | 7 | 27 | 48 | 7 | 27 | 47 | 7 |
| 44 | 48 | 8 | 28 | 49 | 8 | 28 | 48 | 8 |
| 46 | 49 | 9 | 29 | 49 | 9 | 29 | 49 | 9 |
| 48 | 50 | 10 | 30 | 30 | 10 | 30 | 50 | 10 |
| 50 | 16. 51 | 17. 11 | 17. 31 | 17. 51 | 18. 11 | 18. 31 | 18. 51 | 19. 11 |
| 52 | 52 | 12 | 32 | 62 | 12 | 32 | 52 | 12 |
| 54 | 33 | 13 | 33 | 53 | 13 | 33 | 53 | 13 |
| 56 | 53 | 13 | 33 | 34 | 14 | 34 | 54 | 14 |
| 58 | 54 | 14 | 34 | 35 | 15 | 35 | 55 | 15 |

### Altura aparente de la Luna, 35°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 3 | 16. 55 | 17. 15 | 17. 35 | 17. 56 | 18. 16 | 19. 36 | 18. 38 | 19. 16 |
| 2 | 63 | 13 | 36 | 57 | 17 | 37 | 57 | 17 |
| 4 | 57 | 17 | 37 | 58 | 18 | 38 | 58 | 18 |
| 6 | 57 | 18 | 38 | 32 | 19 | 39 | 59 | 19 |
| 8 | 68 | 19 | 39 | 19. 0 | 20 | 40 | 19. 0 | 20 |
| 10 | 16. 59 | 17. 20 | 17. 40 | 18. 1 | 18. 21 | 18. 41 | 19. 1 | 19. 21 |
| 12 | 17. 0 | 21 | 41 | 9 | 22 | 42 | 2 | 92 |
| 14 | 1 | 22 | 42 | 3 | 23 | 43 | 3 | 23 |
| 16 | 2 | 22 | 42 | 3 | 23 | 44 | 4 | 24 |
| 18 | 3 | 23 | 43 | 4 | 24 | 45 | 5 | 25 |
| 20 | 17. 4 | 17. 24 | 17. 44 | 18. 5 | 18. 25 | 18. 46 | 19. 6 | 19. 26 |
| 22 | 6 | 25 | 45 | 6 | 26 | 47 | 7 | 97 |
| 24 | 6 | 26 | 46 | 7 | 27 | 48 | 8 | 28 |
| 26 | 3 | 97 | 47 | 8 | 28 | 49 | 9 | 29 |
| 28 | 7 | 28 | 48 | 9 | 29 | 60 | 10 | 30 |
| 30 | 17. 8 | 17. 29 | 17. 49 | 18. 10 | 18. 30 | 18. 31 | 19. 11 | 19. 31 |
| 32 | 9 | 30 | 50 | 11 | 31 | 62 | 12 | 32 |
| 34 | 10 | 31 | 51 | 12 | 32 | 33 | 13 | 33 |
| 36 | 10 | 31 | 52 | 12 | 33 | 53 | 13 | 34 |
| 38 | 11 | 32 | 53 | 13 | 34 | 54 | 14 | 35 |
| 40 | 17. 12 | 17. 33 | 17. 54 | 18. 14 | 18. 35 | 18. 55 | 19. 15 | 19. 36 |
| 42 | 13 | 34 | 55 | 15 | 36 | 56 | 16 | 37 |
| 44 | 14 | 35 | 56 | 16 | 37 | 57 | 17 | 38 |
| 46 | 16 | 36 | 66 | 17 | 37 | 58 | 18 | 39 |
| 48 | 16 | 37 | 57 | 18 | 38 | 39 | 19 | 40 |
| 50 | 17. 17 | 17. 38 | 17. 58 | 18. 19 | 18. 39 | 19. 0 | 19. 23 | 19. 41 |
| 52 | 18 | 39 | 59 | 20 | 40 | 1 | 21 | 42 |
| 54 | 19 | 40 | 18. 0 | 21 | 41 | 2 | 22 | 43 |
| 56 | 19 | 40 | 1 | 21 | 42 | 3 | 23 | 44 |
| 58 | 20 | 41 | 2 | 22 | 43 | 4 | 24 | 45 |

Correccion por la altura de Sol ó Estrella.

*Adit.*

| ☉ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 90 | 5 |

| * ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

Partes propor. por los segund. de la paralaje.

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 2 |
| 8 | 3 |
| 9 | 3 |
| 10 | 3 |
| 11 | 4 |
| 12 | 4 |
| 13 | 4 |
| 14 | 6 |
| 15 | 5 |
| 16 | 5 |
| 17 | 3 |
| 18 | 3 |
| 19 | 6 |
| 20 | 7 |
| 21 | 7 |
| 22 | 7 |
| 23 | 8 |
| 24 | 8 |
| 25 | 8 |
| 26 | 9 |
| 27 | 9 |
| 28 | 9 |
| 22 | 10 |
| 30 | 10 |
| 31 | 10 |
| 32 | 11 |
| 33 | 11 |
| 34 | 11 |
| 35 | 12 |
| 36 | 12 |
| 37 | 12 |
| 38 | 13 |
| 39 | 13 |
| 40 | 13 |
| 41 | 14 |
| 42 | 14 |
| 43 | 14 |
| 44 | 15 |
| 45 | 15 |
| 46 | 15 |
| 47 | 16 |
| 48 | 16 |
| 49 | 16 |
| 50 | 17 |
| 51 | 17 |
| 52 | 17 |
| 53 | 18 |
| 54 | 18 |
| 55 | 18 |
| 56 | 19 |
| 57 | 19 |
| 58 | 19 |
| 59 | 20 |

### Altura aparente de la Luna, 36°

| ′ | 54′ | 53′ | 68′ | 57′ | 38′ | 69′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | Paralaje horizontal. | | | | | | | |
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 3 | 17. 21 | 17. 42 | 18. 3 | 18. 23 | 18. 44 | 19. 5 | 19. 25 | 19. 46 |
| 9 | 22 | 43 | 4 | 94 | 45 | 6 | 26 | 47 |
| 4 | 23 | 44 | 5 | 25 | 46 | 7 | 27 | 48 |
| 6 | 23 | 45 | 6 | 26 | 47 | 8 | 28 | 49 |
| 8 | 24 | 46 | 7 | 27 | 48 | 9 | 29 | 30 |
| 10 | 17. 25 | 17. 47 | 18. 8 | 18. 28 | 18. 49 | 19. 10 | 19. 30 | 19. 51 |
| 12 | 26 | 48 | 9 | 29 | 60 | 11 | 31 | 52 |
| 14 | 27 | 42 | 10 | 30 | 51 | 12 | 32 | 33 |
| 16 | 23 | 49 | 13 | 30 | 51 | 12 | 33 | 54 |
| 18 | 29 | 50 | 11 | 31 | 62 | 13 | 34 | 65 |
| 23 | 17. 30 | 17. 31 | 18. 12 | 18. 32 | 18. 53 | 19. 14 | 19. 35 | 19. 56 |
| 22 | 31 | 52 | 13 | 33 | 54 | 15 | 36 | 57 |
| 24 | 32 | 53 | 14 | 34 | 55 | 16 | 37 | 68 |
| 26 | 32 | 34 | 15 | 35 | 56 | 17 | 38 | 59 |
| 28 | 33 | 35 | 16 | 36 | 37 | 18 | 39 | 20. 0 |
| 30 | 17. 34 | 17. 56 | 18. 17 | 13. 37 | 18. 58 | 19. 19 | 19. 40 | 20. 1 |
| 32 | 35 | 57 | 18 | 38 | 39 | 20 | 41 | 2 |
| 34 | 36 | 58 | 19 | 39 | 19. 0 | 21 | 42 | 3 |
| 33 | 36 | 58 | 19 | 40 | 1 | 22 | 42 | 3 |
| 38 | 37 | 59 | 20 | 41 | 2 | 23 | 43 | 4 |
| 40 | 17. 38 | 18. 0 | 18. 21 | 18. 42 | 19. 3 | 19. 24 | 19. 44 | 20. 5 |
| 42 | 39 | 1 | 22 | 43 | 4 | 25 | 45 | 6 |
| 44 | 40 | 2 | 23 | 44 | 6 | 26 | 46 | 7 |
| 46 | 41 | 3 | 24 | 44 | 5 | 26 | 47 | 8 |
| 48 | 42 | 4 | 25 | 45 | 6 | 27 | 48 | 9 |
| 50 | 17. 43 | 18. 3 | 18. 26 | 18. 46 | 19. 7 | 19. 28 | 19. 49 | 20. 10 |
| 52 | 44 | 3 | 27 | 47 | 8 | 29 | 50 | 11 |
| 54 | 45 | 7 | 28 | 48 | 9 | 30 | 51 | 12 |
| 56 | 45 | 7 | 28 | 49 | 10 | 31 | 32 | 13 |
| 58 | 46 | 8 | 29 | 30 | 11 | 32 | 53 | 14 |

### Altura aparente de la Luna, 37°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 3 | 17. 47 | 18. 9 | 18. 30 | 18. 51 | 19. 12 | 19. 33 | 19. 54 | 20. 15 |
| 2 | 48 | 10 | 31 | 52 | 13 | 34 | 56 | 16 |
| 4 | 49 | 11 | 32 | 63 | 14 | 35 | 56 | 17 |
| 3 | 49 | 11 | 32 | 54 | 15 | 36 | 37 | 18 |
| 8 | 50 | 12 | 33 | 55 | 16 | 37 | 58 | 19 |
| 10 | 17. 61 | 18. 13 | 18. 34 | 18. 56 | 19. 17 | 12. 38 | 19. 59 | 20. 20 |
| 12 | 52 | 14 | 35 | 57 | 18 | 39 | 20. 0 | 21 |
| 14 | 53 | 15 | 36 | 38 | 19 | 40 | 1 | 22 |
| 16 | 54 | 16 | 37 | 68 | 19 | 40 | 2 | 23 |
| 18 | 35 | 17 | 38 | 39 | 20 | 41 | 3 | 24 |
| 20 | 17. 56 | 18. 18 | 18. 39 | 19. 3 | 19. 21 | 19. 42 | 20. 4 | 23. 25 |
| 22 | 37 | 19 | 40 | 1 | 22 | 43 | 5 | 26 |
| 24 | 58 | 20 | 41 | 9 | 23 | 44 | 8 | 27 |
| 26 | 58 | 20 | 41 | 3 | 24 | 45 | 7 | 28 |
| 28 | 69 | 21 | 42 | 4 | 25 | 46 | 8 | 29 |
| 30 | 18. 0 | 18. 22 | 18. 43 | 19. 3 | 19. 26 | 19. 47 | 20. 9 | 20. 30 |
| 32 | 1 | 23 | 44 | 6 | 27 | 48 | 10 | 31 |
| 34 | 2 | 24 | 45 | 7 | 28 | 49 | 11 | 32 |
| 36 | 2 | 24 | 45 | 7 | 29 | 53 | 11 | 32 |
| 38 | 3 | 26 | 46 | 8 | 30 | 51 | 12 | 33 |
| 40 | 18. 4 | 18. 26 | 18. 47 | 19. 9 | 19. 31 | 19. 52 | 20. 13 | 20. 34 |
| 42 | 5 | 27 | 48 | 10 | 32 | 53 | 14 | 33 |
| 44 | 6 | 28 | 49 | 11 | 33 | 54 | 15 | 36 |
| 46 | 7 | 29 | 50 | 12 | 33 | 54 | 13 | 37 |
| 48 | 8 | 30 | 51 | 13 | 34 | 33 | 17 | 38 |
| 50 | 18. 9 | 18. 31 | 18. 52 | 19. 14 | 19. 35 | 19. 53 | 20. 18 | 23. 39 |
| 52 | 10 | 32 | 53 | 15 | 36 | 37 | 19 | 40 |
| 54 | 11 | 33 | 54 | 18 | 37 | 58 | 20 | 41 |
| 56 | 11 | 33 | 54 | 16 | 38 | 59 | 21 | 42 |
| 58 | 12 | 34 | 55 | 17 | 39 | 20. 0 | 22 | 43 |

Partes propor. por los segund. de la paralaje.

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 2 |
| 8 | 3 |
| 9 | 3 |
| 10 | 3 |
| 11 | 4 |
| 12 | 4 |
| 13 | 5 |
| 14 | 5 |
| 15 | 5 |
| 16 | 6 |
| 17 | 6 |
| 18 | 6 |
| 19 | 7 |
| 20 | 7 |
| 21 | 7 |
| 22 | 8 |
| 23 | 8 |
| 24 | 8 |
| 25 | 9 |
| 26 | 9 |
| 27 | 9 |
| 28 | 10 |
| 29 | 10 |
| 30 | 10 |
| 31 | 11 |
| 32 | 11 |
| 33 | 12 |
| 34 | 12 |
| 35 | 12 |
| 36 | 13 |
| 37 | 13 |
| 38 | 13 |
| 39 | 14 |
| 10 | 14 |
| 41 | 14 |
| 42 | 15 |
| 43 | 15 |
| 44 | 15 |
| 45 | 16 |
| 46 | 13 |
| 47 | 15 |
| 48 | 17 |
| 49 | 17 |
| 50 | 18 |
| 51 | 18 |
| 52 | 18 |
| 53 | 19 |
| 54 | 19 |
| 55 | 19 |
| 36 | 23 |
| 57 | 20 |
| 58 | 20 |
| 59 | 91 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 38°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 41. 20 | 42. 8 | 42. 55 | 43. 42 | 44. 29 | 45. 17 | 46. 4 | 46. 51 |
| 2 | 19 | 7 | 54 | 41 | 28 | 15 | 3 | 50 |
| 4 | 16 | 6 | 53 | 40 | 27 | 15 | 2 | 49 |
| 6 | 17 | 4 | 51 | 33 | 26 | 13 | 6 | 47 |
| 8 | 16 | 3 | 56 | 37 | 25 | 12 | 45. 59 | 46 |
| 10 | 41. 15 | 42. 2 | 42. 49 | 43. 36 | 44. 24 | 45. 11 | 45. 58 | 46. 45 |
| 12 | 14 | 1 | 48 | 35 | 23 | 10 | 57 | 44 |
| 14 | 13 | 0 | 47 | 34 | 22 | 9 | 56 | 43 |
| 16 | 12 | 41. 59 | 46 | 33 | 20 | 7 | 54 | 41 |
| 18 | 11 | 58 | 45 | 32 | 19 | 6 | 53 | 40 |
| 20 | 41. 10 | 41. 57 | 42. 44 | 43. 31 | 44. 18 | 46. 5 | 46. 52 | 46. 39 |
| 22 | 9 | 56 | 43 | 30 | 17 | 4 | 51 | 38 |
| 24 | 8 | 55 | 42 | 29 | 16 | 3 | 50 | 37 |
| 26 | 6 | 53 | 40 | 27 | 14 | 1 | 48 | 35 |
| 28 | 5 | 52 | 39 | 26 | 13 | 0 | 47 | 34 |
| 30 | 41. 4 | 41. 51 | 42. 38 | 43. 25 | 44. 12 | 44. 59 | 45. 46 | 46. 33 |
| 32 | 3 | 50 | 37 | 24 | 11 | 58 | 45 | 32 |
| 34 | 2 | 49 | 36 | 23 | 10 | 57 | 44 | 31 |
| 36 | 1 | 47 | 34 | 21 | 8 | 55 | 42 | 29 |
| 38 | 0 | 46 | 33 | 20 | 7 | 54 | 41 | 28 |
| 40 | 40. 59 | 41. 45 | 42. 32 | 43. 19 | 44. 6 | 44. 53 | 45. 40 | 46. 27 |
| 42 | 58 | 44 | 31 | 18 | 5 | 52 | 39 | 26 |
| 44 | 57 | 43 | 30 | 17 | 4 | 51 | 38 | 24 |
| 46 | 55 | 42 | 29 | 15 | 2 | 49 | 36 | 23 |
| 48 | 54 | 41 | 28 | 14 | 1 | 48 | 35 | 21 |
| 50 | 40. 53 | 41. 40 | 42. 27 | 43. 13 | 44. 0 | 44. 47 | 45. 34 | 46. 20 |
| 52 | 52 | 39 | 26 | 12 | 43. 59 | 46 | 33 | 19 |
| 54 | 51 | 38 | 25 | 11 | 58 | 45 | 31 | 18 |
| 56 | 50 | 36 | 23 | 10 | 56 | 43 | 30 | 16 |
| 58 | 49 | 35 | 22 | 6 | 55 | 42 | 28 | 15 |

### Altura aparente de la Luna, 39°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 40. 48 | 41. 34 | 42. 21 | 43. 8 | 43. 54 | 44. 41 | 45. 27 | 46. 14 |
| 2 | 47 | 33 | 20 | 7 | 53 | 40 | 26 | 13 |
| 4 | 46 | 32 | 19 | 6 | 52 | 39 | 25 | 12 |
| 6 | 44 | 31 | 17 | 4 | 50 | 37 | 23 | 10 |
| 8 | 43 | 30 | 16 | 3 | 49 | 36 | 22 | 9 |
| 10 | 40. 42 | 41. 29 | 42. 15 | 43. 2 | 43. 48 | 44. 35 | 45. 21 | 46. 8 |
| 12 | 41 | 28 | 14 | 1 | 47 | 34 | 20 | 7 |
| 14 | 40 | 27 | 13 | 0 | 46 | 33 | 19 | 5 |
| 16 | 39 | 25 | 11 | 42. 58 | 44 | 31 | 17 | 4 |
| 18 | 38 | 24 | 10 | 57 | 43 | 30 | 16 | 2 |
| 20 | 40. 37 | 41. 23 | 42. 9 | 42. 56 | 43. 42 | 44. 29 | 45. 15 | 46. 1 |
| 22 | 36 | 22 | 8 | 55 | 41 | 28 | 14 | 0 |
| 24 | 35 | 21 | 7 | 54 | 40 | 26 | 13 | 45. 59 |
| 26 | 33 | 19 | 6 | 52 | 38 | 25 | 11 | 57 |
| 28 | 32 | 18 | 5 | 51 | 37 | 23 | 10 | 56 |
| 30 | 40. 31 | 41. 17 | 42. 4 | 42. 50 | 43. 36 | 44. 22 | 45. 9 | 45. 55 |
| 32 | 30 | 16 | 3 | 49 | 35 | 21 | 8 | 54 |
| 34 | 29 | 15 | 2 | 48 | 34 | 20 | 7 | 53 |
| 36 | 27 | 14 | 0 | 46 | 32 | 18 | 5 | 51 |
| 38 | 26 | 13 | 41. 59 | 45 | 31 | 17 | 4 | 50 |
| 40 | 40. 25 | 41. 12 | 41. 58 | 42. 44 | 43. 30 | 44. 16 | 45. 3 | 45. 49 |
| 42 | 24 | 11 | 57 | 43 | 29 | 15 | 2 | 48 |
| 44 | 23 | 10 | 56 | 42 | 28 | 14 | 0 | 46 |
| 46 | 22 | 8 | 54 | 40 | 26 | 12 | 44. 59 | 45 |
| 48 | 21 | 7 | 53 | 39 | 25 | 11 | 57 | 43 |
| 50 | 40. 20 | 41. 6 | 41. 52 | 42. 38 | 43. 24 | 44. 10 | 44. 56 | 45. 42 |
| 52 | 16 | 5 | 51 | 37 | 23 | 9 | 55 | 41 |
| 54 | 18 | 4 | 50 | 36 | 22 | 8 | 54 | 40 |
| 56 | 16 | 2 | 48 | 34 | 20 | 6 | 52 | 38 |
| 58 | 15 | 1 | 47 | 33 | 19 | 6 | 51 | 37 |

Partes propor. por los segund. de la paralaje. *Adit.*

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| 1 | 1 |
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| 24 | 19 |
| 25 | 20 |
| 26 | 20 |
| 27 | 21 |
| 28 | 22 |
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| 31 | 24 |
| 32 | 25 |
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| 34 | 27 |
| 35 | 27 |
| 36 | 28 |
| 37 | 29 |
| 38 | 30 |
| 39 | 31 |
| 40 | 31 |
| 41 | 32 |
| 42 | 33 |
| 43 | 34 |
| 44 | 34 |
| 45 | 35 |
| 46 | 36 |
| 47 | 37 |
| 48 | 38 |
| 49 | 38 |
| 50 | 39 |
| 51 | 40 |
| 52 | 41 |
| 53 | 41 |
| 54 | 42 |
| 55 | 43 |
| 56 | 44 |
| 57 | 45 |
| 58 | 45 |
| 59 | 46 |

### Altura aparente de la Luna, 40°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 40. 14 | 41. 0 | 41. 46 | 42. 32 | 43. 18 | 44. 4 | 44. 50 | 45. 36 |
| 2 | 13 | 40. 59 | 45 | 31 | 17 | 3 | 49 | 35 |
| 4 | 12 | 58 | 44 | 30 | 16 | 2 | 48 | 33 |
| 6 | 10 | 56 | 42 | 28 | 14 | 0 | 46 | 32 |
| 8 | 9 | 55 | 41 | 27 | 13 | 43. 59 | 45 | 30 |
| 10 | 40. 8 | 40. 54 | 41. 40 | 42. 26 | 43. 12 | 43. 58 | 44. 44 | 45. 29 |
| 12 | 7 | 53 | 39 | 25 | 11 | 57 | 43 | 28 |
| 14 | 6 | 52 | 38 | 24 | 10 | 55 | 41 | 26 |
| 16 | 5 | 51 | 36 | 22 | 8 | 54 | 40 | 25 |
| 18 | 4 | 50 | 35 | 21 | 7 | 52 | 38 | 23 |
| 20 | 40. 3 | 40. 49 | 41. 34 | 42. 20 | 43. 6 | 43. 51 | 44. 37 | 45. 22 |
| 22 | 2 | 48 | 33 | 19 | 5 | 50 | 36 | 21 |
| 24 | 1 | 47 | 32 | 18 | 4 | 49 | 35 | 20 |
| 26 | 39. 59 | 45 | 30 | 16 | 2 | 47 | 33 | 18 |
| 28 | 58 | 44 | 29 | 15 | 1 | 46 | 32 | 17 |
| 30 | 39. 57 | 40. 43 | 41. 28 | 42. 14 | 43. 0 | 43. 45 | 44. 31 | 45. 16 |
| 32 | 56 | 42 | 27 | 13 | 42. 59 | 44 | 30 | 15 |
| 34 | 55 | 41 | 25 | 12 | 57 | 43 | 28 | 14 |
| 36 | 53 | 39 | 24 | 10 | 55 | 41 | 27 | 12 |
| 38 | 52 | 38 | 23 | 9 | 54 | 40 | 25 | 11 |
| 40 | 39. 51 | 40. 37 | 41. 22 | 42. 8 | 42. 53 | 43. 39 | 44. 24 | 45. 10 |
| 42 | 50 | 36 | 21 | 7 | 52 | 38 | 23 | 9 |
| 44 | 49 | 35 | 20 | 6 | 51 | 37 | 22 | 7 |
| 46 | 48 | 33 | 18 | 4 | 49 | 35 | 20 | 6 |
| 48 | 47 | 32 | 17 | 3 | 48 | 34 | 19 | 4 |
| 50 | 39. 46 | 40. 31 | 41. 16 | 42. 2 | 42. 47 | 43. 33 | 44. 18 | 45. 3 |
| 52 | 45 | 30 | 15 | 1 | 46 | 32 | 17 | 2 |
| 54 | 44 | 29 | 14 | 0 | 45 | 30 | 15 | 1 |
| 56 | 42 | 27 | 12 | 41. 58 | 43 | 29 | 14 | 44. 59 |
| 58 | 41 | 26 | 11 | 57 | 42 | 27 | 12 | 58 |

### Altura aparente de la Luna, 41°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 39. 40 | 40. 25 | 41. 10 | 41. 56 | 42. 41 | 43. 26 | 44. 11 | 44. 57 |
| 2 | 39 | 24 | 9 | 55 | 40 | 25 | 10 | 56 |
| 4 | 38 | 23 | 8 | 53 | 39 | 24 | 9 | 54 |
| 6 | 36 | 21 | 6 | 52 | 37 | 22 | 7 | 53 |
| 8 | 35 | 20 | 5 | 50 | 36 | 21 | 6 | 51 |
| 10 | 39. 34 | 40. 19 | 41. 4 | 41. 49 | 42. 35 | 43. 20 | 44. 5 | 44. 50 |
| 12 | 33 | 18 | 3 | 48 | 34 | 19 | 4 | 49 |
| 14 | 32 | 17 | 2 | 47 | 32 | 17 | 2 | 47 |
| 16 | 30 | 15 | 0 | 45 | 31 | 16 | 1 | 46 |
| 18 | 29 | 14 | 40. 59 | 44 | 29 | 14 | 43. 59 | 44 |
| 20 | 39. 28 | 40. 13 | 40. 58 | 41. 43 | 42. 28 | 43. 13 | 43. 58 | 44. 43 |
| 22 | 27 | 12 | 57 | 42 | 27 | 12 | 57 | 42 |
| 24 | 26 | 11 | 56 | 41 | 26 | 11 | 56 | 41 |
| 26 | 24 | 9 | 54 | 39 | 24 | 9 | 54 | 39 |
| 28 | 23 | 8 | 53 | 38 | 23 | 8 | 53 | 38 |
| 30 | 39. 22 | 40. 7 | 40. 52 | 41. 37 | 42. 22 | 43. 7 | 43. 52 | 44. 37 |
| 32 | 21 | 6 | 51 | 36 | 21 | 6 | 51 | 36 |
| 34 | 20 | 5 | 50 | 35 | 20 | 5 | 49 | 34 |
| 36 | 18 | 3 | 48 | 33 | 18 | 3 | 48 | 33 |
| 38 | 17 | 2 | 47 | 32 | 17 | 2 | 46 | 31 |
| 40 | 39. 16 | 40. 1 | 40. 46 | 41. 31 | 42. 16 | 43. 1 | 43. 45 | 44. 30 |
| 42 | 15 | 0 | 45 | 30 | 15 | 0 | 44 | 29 |
| 44 | 14 | 39. 59 | 44 | 29 | 13 | 42. 58 | 43 | 27 |
| 46 | 12 | 57 | 42 | 27 | 12 | 57 | 41 | 26 |
| 48 | 11 | 56 | 41 | 26 | 10 | 55 | 40 | 24 |
| 50 | 39. 10 | 39. 55 | 40. 40 | 41. 25 | 42. 9 | 42. 54 | 43. 39 | 44. 23 |
| 52 | 9 | 54 | 39 | 24 | 8 | 53 | 38 | 22 |
| 54 | 8 | 53 | 38 | 22 | 7 | 51 | 36 | 21 |
| 56 | 7 | 51 | 36 | 21 | 6 | 50 | 35 | 19 |
| 58 | 6 | 50 | 35 | 19 | 4 | 48 | 33 | 18 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 3 |
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| 6 | 4 |
| 7 | 5 |
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| 9 | 7 |
| 10 | 7 |
| 11 | 8 |
| 12 | 9 |
| 13 | 10 |
| 14 | 10 |
| 15 | 11 |
| 16 | 12 |
| 17 | 13 |
| 18 | 13 |
| 19 | 14 |
| 20 | 15 |
| 21 | 16 |
| 22 | 16 |
| 23 | 17 |
| 24 | 18 |
| 25 | 19 |
| 26 | 19 |
| 27 | 20 |
| 28 | 21 |
| 29 | 22 |
| 30 | 22 |
| 31 | 23 |
| 32 | 24 |
| 33 | 25 |
| 34 | 25 |
| 35 | 26 |
| 36 | 27 |
| 37 | 28 |
| 38 | 28 |
| 39 | 29 |
| 40 | 30 |
| 41 | 31 |
| 42 | 31 |
| 43 | 32 |
| 44 | 33 |
| 45 | 34 |
| 46 | 34 |
| 47 | 35 |
| 48 | 36 |
| 49 | 37 |
| 50 | 37 |
| 51 | 38 |
| 52 | 39 |
| 53 | 40 |
| 54 | 40 |
| 55 | 41 |
| 56 | 42 |
| 57 | 43 |
| 58 | 43 |
| 59 | 44 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 38°

| ″ | Paralaje horizontal. 54′ | 65′ | 85′ | 57′ | 58′ | 89′ | 66′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 18. 13 | 18. 35 | 18. 56 | 19. 18 | 19. 46 | 20. 1 | 28. 23 | 20. 44 |
| 2 | 14 | 36 | 57 | 19 | 41 | 2 | 24 | 45 |
| 4 | 15 | 37 | 88 | 20 | 42 | 3 | 25 | 46 |
| 5 | 15 | 37 | 68 | 20 | 42 | 4 | 26 | 47 |
| θ | 16 | 38 | 59 | 21 | 43 | 3 | 27 | 48 |
| 10 | 18. 17 | 18. 39 | 19. 6 | 12. 22 | 19. 44 | 20. 3 | 20. 28 | 20. 49 |
| 12 | 18 | 40 | 1 | 23 | 45 | 7 | 29 | 50 |
| 14 | 12 | 41 | 2 | 24 | 46 | θ | 30 | 61 |
| 16 | 19 | 41 | 3 | 25 | 47 | 8 | 36 | 52 |
| 18 | 20 | 42 | 4 | 26 | 48 | 9 | 31 | 53 |
| 20 | 18. 21 | 10. 43 | 19. 5 | 19. 27 | 19. 49 | 20. 10 | 20. 32 | 28. 54 |
| 22 | 22 | 44 | 6 | 28 | 50 | 11 | 33 | 55 |
| 24 | 23 | 45 | 7 | 29 | 51 | 12 | 34 | 66 |
| 26 | 24 | 46 | 7 | 29 | 52 | 13 | 55 | 57 |
| 28 | 25 | 47 | 8 | 30 | 53 | 14 | 36 | 58 |
| 30 | 18. 26 | 18. 48 | 19. 9 | 19. 31 | 12. 54 | 20. 15 | 20. 57 | 20. 59 |
| 32 | 27 | 49 | 16 | 52 | 55 | 16 | 38 | 21. 0 |
| 34 | 28 | 56 | 11 | 33 | 56 | 17 | 39 | 1 |
| 33 | 20 | 36 | 11 | 33 | 56 | 18 | 40 | 1 |
| 38 | 29 | 31 | 12 | 34 | 37 | 19 | 41 | 2 |
| 40 | 18. 30 | 18. 52 | 19. 13 | 19. 55 | 19. 38 | 20. 20 | 20. 42 | 21. 3 |
| 42 | 31 | 53 | 14 | 36 | 59 | 21 | 43 | 4 |
| 44 | 32 | 54 | 15 | 37 | 28. 6 | 22 | 44 | 5 |
| 46 | 32 | 64 | 16 | 38 | 0 | 22 | 44 | 6 |
| 48 | 33 | 55 | 17 | 39 | 1 | 23 | 45 | 7 |
| 50 | 18. 54 | 18. 56 | 19. 18 | 19. 40 | 90. 2 | 20. 24 | 20. 46 | 21. 8 |
| 52 | 35 | 57 | 19 | 41 | 3 | 25 | 47 | 9 |
| 54 | 36 | 58 | 20 | 42 | 4 | 26 | 48 | 10 |
| 56 | 36 | 58 | 20 | 42 | 6 | 27 | 49 | 11 |
| 58 | 37 | 59 | 21 | 43 | 6 | 28 | 58 | 12 |

### Altura aparente de la Luna, 40°

| ″ | Paralaje horizontal. 54′ | 85′ | 36′ | 37′ | 88′ | 39′ | 68′ | 31′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 6 | 19. 3 | 19. 26 | 19. 48 | 20. 11 | 26. 33 | 20. 56 | 21. 19 | 21. 41 |
| 2 | 4 | 27 | 49 | 12 | 34 | 57 | 20 | 42 |
| 4 | 5 | 28 | 30 | 13 | 55 | 58 | 21 | 43 |
| 6 | 5 | 28 | 50 | 13 | 36 | 89 | 22 | 44 |
| θ | 6 | 29 | 51 | 14 | 37 | 21. 0 | 23 | 45 |
| 10 | 19. 7 | 19. 30 | 12. 52 | 20. 18 | 20. 38 | 21. 1 | 21. 24 | 21. 46 |
| 12 | 8 | 51 | 63 | 13 | 39 | 2 | 28 | 47 |
| 14 | 9 | 52 | 54 | 17 | 40 | 3 | 26 | 40 |
| 13 | 2 | 32 | 55 | 18 | 40 | 3 | 26 | 48 |
| 18 | 10 | 33 | 36 | 19 | 41 | 4 | 27 | 49 |
| 26 | 19. 11 | 19. 34 | 19. 87 | 20. 20 | 20. 42 | 21. 5 | 21. 28 | 21. 56 |
| 22 | 12 | 35 | 38 | 21 | 43 | 6 | 29 | 81 |
| 24 | 13 | 36 | 39 | 22 | 44 | 7 | 30 | 82 |
| 26 | 14 | 37 | 59 | 22 | 45 | 8 | 31 | 63 |
| 28 | 15 | 38 | 20. 0 | 23 | 46 | 9 | 32 | 54 |
| 30 | 19. 16 | 19. 39 | 26. 1 | 20. 24 | 20. 47 | 21. 16 | 21. 33 | 21. 55 |
| 32 | 17 | 40 | 2 | 25 | 48 | 11 | 34 | 56 |
| 34 | 18 | 41 | 3 | 26 | 49 | 12 | 35 | 57 |
| 36 | 18 | 41 | 3 | 26 | 49 | 12 | 35 | 58 |
| 38 | 19 | 42 | 4 | 27 | 30 | 13 | 36 | 39 |
| 40 | 19. 20 | 19. 43 | 20. 5 | 26. 28 | 28. 51 | 21. 14 | 21. 37 | 22. 0 |
| 42 | 21 | 44 | 6 | 29 | 52 | 15 | 58 | 1 |
| 44 | 22 | 45 | 7 | 38 | 63 | 16 | 39 | 2 |
| 46 | 22 | 48 | 8 | 31 | 84 | 17 | 46 | 2 |
| 48 | 23 | 46 | 9 | 32 | 35 | 18 | 41 | 3 |
| 50 | 19. 24 | 19. 47 | 20. 10 | 20. 38 | 20. 86 | 21. 19 | 21. 42 | 22. 4 |
| 52 | 25 | 48 | 11 | 34 | 87 | 26 | 43 | 5 |
| 54 | 26 | 49 | 12 | 35 | 58 | 21 | 44 | 6 |
| 56 | 26 | 49 | 12 | 35 | 38 | 21 | 44 | 7 |
| 58 | 27 | 50 | 13 | 36 | 59 | 22 | 45 | 8 |

### Altura aparente de la Luna, 39°

| ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 18. 38 | 19. 8 | 19. 22 | 19. 44 | 20. 7 | 20. 29 | 20. 61 | 21. 13 |
| 2 | 39 | 1 | 23 | 45 | 8 | 30 | 52 | 14 |
| 4 | 40 | 2 | 24 | 43 | 2 | 31 | 53 | 15 |
| 3 | 40 | 2 | 24 | 47 | 9 | 32 | 54 | 16 |
| 8 | 41 | 3 | 25 | 48 | 10 | 33 | 55 | 17 |
| 10 | 18. 42 | 19. 4 | 19. 26 | 19. 49 | 20. 11 | 20. 34 | 20. 56 | 21. 18 |
| 12 | 43 | 3 | 27 | 50 | 12 | 35 | 87 | 19 |
| 14 | 44 | 6 | 28 | 51 | 13 | 36 | 58 | 26 |
| 16 | 44 | 6 | 29 | 81 | 14 | 33 | 58 | 26 |
| 18 | 45 | 7 | 36 | 32 | 15 | 37 | 59 | 21 |
| 20 | 18. 46 | 19. 8 | 19. 51 | 19. 53 | 26. 16 | 20. 38 | 21. 0 | 21. 22 |
| 22 | 47 | 9 | 52 | 54 | 17 | 39 | 1 | 23 |
| 24 | 48 | 10 | 33 | 35 | 18 | 40 | 2 | 24 |
| 26 | 49 | 11 | 33 | 56 | 10 | 41 | 3 | 25 |
| 28 | 50 | 12 | 54 | 57 | 19 | 42 | 4 | 26 |
| 30 | 18. 51 | 19. 13 | 19. 38 | 19. 38 | 20. 28 | 20. 43 | 21. 8 | 21. 27 |
| 32 | 52 | 14 | 56 | 69 | 21 | 44 | 6 | 28 |
| 34 | 53 | 15 | 37 | 23. 0 | 22 | 45 | 7 | 29 |
| 36 | 53 | 15 | 37 | 0 | 22 | 45 | 8 | 36 |
| 38 | 54 | 13 | 38 | 1 | 23 | 46 | 2 | 31 |
| 40 | 18. 55 | 19. 17 | 19. 39 | 20. 2 | 20. 24 | 20. 47 | 21. 16 | 21. 32 |
| 42 | 38 | 18 | 40 | 3 | 25 | 48 | 11 | 33 |
| 44 | 87 | 19 | 41 | 4 | 26 | 49 | 12 | 34 |
| 46 | 57 | 20 | 42 | 5 | 27 | 56 | 12 | 34 |
| 48 | 58 | 21 | 43 | 8 | 28 | 31 | 13 | 38 |
| 50 | 18. 59 | 19. 22 | 19. 44 | 20. 7 | 26. 29 | 20. 52 | 21. 14 | 21. 36 |
| 52 | 19. 6 | 23 | 45 | 8 | 30 | 53 | 15 | 37 |
| 54 | 1 | 24 | 46 | 9 | 31 | 34 | 16 | 38 |
| 56 | 1 | 24 | 46 | 9 | 31 | 54 | 17 | 39 |
| 58 | 2 | 25 | 47 | 10 | 32 | 55 | 18 | 40 |

### Altura aparente de la Luna, 41°

| ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 19. 28 | 12. 51 | 26. 14 | 20. 37 | 21. 6 | 21. 23 | 21. 46 | 22. 9 |
| 2 | 29 | 52 | 16 | 38 | 1 | 24 | 47 | 10 |
| 4 | 30 | 33 | 16 | 39 | 2 | 25 | 48 | 11 |
| 6 | 30 | 53 | 16 | 39 | 2 | 25 | 42 | 12 |
| θ | 31 | 54 | 17 | 46 | 3 | 26 | 30 | 13 |
| 10 | 19. 32 | 19. 58 | 28. 18 | 28. 41 | 21. 4 | 21. 27 | 21. 61 | 22. 14 |
| 12 | 33 | 56 | 19 | 42 | 3 | 20 | 32 | 15 |
| 14 | 34 | 57 | 26 | 45 | 6 | 29 | 53 | 16 |
| 16 | 34 | 37 | 20 | 43 | 7 | 36 | 53 | 13 |
| 18 | 35 | 58 | 21 | 44 | θ | 31 | 54 | 17 |
| 20 | 19. 36 | 19. 59 | 28. 22 | 28. 48 | 21. 9 | 21. 32 | 21. 85 | 22. 18 |
| 22 | 37 | 28. 8 | 23 | 46 | 16 | 33 | 56 | 19 |
| 24 | 38 | 1 | 24 | 47 | 11 | 34 | 37 | 26 |
| 26 | 38 | 1 | 25 | 48 | 11 | 34 | 58 | 21 |
| 28 | 52 | 2 | 23 | 49 | 12 | 35 | 39 | 22 |
| 30 | 19. 40 | 26. 3 | 20. 27 | 20. 80 | 21. 13 | 21. 36 | 22. 0 | 22. 23 |
| 32 | 41 | 4 | 28 | 51 | 14 | 37 | 1 | 24 |
| 34 | 42 | 3 | 29 | 52 | 15 | 38 | 2 | 25 |
| 36 | 42 | 3 | 29 | 82 | 15 | 38 | 2 | 25 |
| 38 | 43 | 6 | 30 | 53 | 16 | 39 | 3 | 26 |
| 40 | 19. 44 | 20. 7 | 20. 31 | 20. 54 | 21. 17 | 21. 46 | 22. 4 | 22. 27 |
| 42 | 45 | 8 | 32 | 55 | 18 | 41 | 5 | 28 |
| 44 | 43 | 9 | 33 | 56 | 19 | 42 | 5 | 29 |
| 46 | 46 | 9 | 33 | 56 | 26 | 43 | 7 | 29 |
| 48 | 47 | 10 | 34 | 57 | 21 | 44 | θ | 30 |
| 50 | 19. 48 | 20. 11 | 20. 33 | 20. 58 | 21. 22 | 21. 45 | 22. 9 | 22. 31 |
| 52 | 49 | 12 | 36 | 52 | 23 | 43 | 18 | 32 |
| 54 | 50 | 15 | 37 | 21. 0 | 24 | 47 | 11 | 33 |
| 56 | 50 | 13 | 37 | 3 | 24 | 47 | 11 | 34 |
| 58 | 31 | 14 | 38 | 1 | 25 | 48 | 12 | 35 |

Correccion por la altura de Sol ó Estrella. Adit.

| ☉ ° | ″ | ✱ ° | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 8 |
| 4 | 5 | 4 | 3 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 60 | 0 |
| 70 | 5 | 70 | 0 |
| 80 | 6 | 80 | 0 |
| 90 | 8 | 96 | 0 |

Partes propor. por los segund. de la paralaje. Adit. (Luna 38° y 39°)

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 8 | 5 |
| 9 | 3 |
| 10 | 4 |
| 11 | 4 |
| 12 | 4 |
| 13 | 5 |
| 14 | 6 |
| 15 | 6 |
| 16 | 6 |
| 17 | 6 |
| 18 | 7 |
| 19 | 7 |
| 20 | 7 |
| 21 | 3 |
| 22 | 8 |
| 23 | 9 |
| 24 | 9 |
| 25 | 9 |
| 26 | 10 |
| 27 | 10 |
| 28 | 16 |
| 29 | 11 |
| 30 | 11 |
| 31 | 12 |
| 32 | 12 |
| 33 | 12 |
| 34 | 15 |
| 35 | 13 |
| 36 | 13 |
| 37 | 14 |
| 38 | 14 |
| 39 | 14 |
| 10 | 15 |
| 41 | 15 |
| 42 | 18 |
| 43 | 16 |
| 44 | 16 |
| 45 | 17 |
| 46 | 17 |
| 47 | 17 |
| 48 | 18 |
| 49 | 18 |
| 50 | 18 |
| 51 | 19 |
| 52 | 19 |
| 53 | 19 |
| 54 | 20 |
| 55 | 20 |
| 56 | 21 |
| 57 | 21 |
| 58 | 22 |
| 59 | 22 |

Partes propor. por los segund. de la paralaje. Adit. (Luna 40° y 41°)

| ″ | ″ |
|---|---|
| 1 | 6 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 6 | 3 |
| 9 | 3 |
| 10 | 4 |
| 11 | 4 |
| 12 | 5 |
| 13 | 6 |
| 14 | 5 |
| 15 | 6 |
| 16 | 6 |
| 17 | 6 |
| 18 | 7 |
| 19 | 7 |
| 28 | 8 |
| 21 | 8 |
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| 26 | 10 |
| 27 | 10 |
| 28 | 11 |
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| 30 | 11 |
| 31 | 12 |
| 32 | 12 |
| 33 | 13 |
| 34 | 13 |
| 35 | 13 |
| 36 | 14 |
| 37 | 14 |
| 38 | 15 |
| 39 | 15 |
| 40 | 16 |
| 11 | 16 |
| 42 | 16 |
| 43 | 16 |
| 44 | 17 |
| 45 | 17 |
| 46 | 18 |
| 47 | 18 |
| 48 | 18 |
| 49 | 19 |
| 50 | 19 |
| 51 | 20 |
| 52 | 20 |
| 53 | 20 |
| 54 | 21 |
| 55 | 21 |
| 56 | 21 |
| 57 | 22 |
| 58 | 22 |
| 59 | 23 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

**Altura aparente de la Luna, 42°**

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 56′ | 59′ | 66′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 6 | 39. 5 | 39. 49 | 40. 34 | 41. 18 | 42. 3 | 42. 47 | 43. 39 | 44. 17 |
| 2 | 4 | 48 | 33 | 17 | 2 | 46 | 31 | 15 |
| 4 | 3 | 47 | 32 | 15 | 1 | 45 | 22 | 14 |
| 6 | 1 | 45 | 30 | 14 | 41. 59 | 43 | 28 | 13 |
| 8 | 0 | 44 | 29 | 13 | 56 | 42 | 26 | 11 |
| 10 | 35. 59 | 39. 43 | 40. 98 | 41. 12 | 41. 57 | 42. 41 | 43. 25 | 44. 10 |
| 12 | 58 | 42 | 27 | 11 | 65 | 46 | 24 | 9 |
| 14 | 57 | 41 | 25 | 10 | 54 | 38 | 23 | 7 |
| 16 | 55 | 39 | 24 | 6 | 53 | 37 | 21 | 5 |
| 18 | 54 | 38 | 22 | 7 | 51 | 35 | 28 | 4 |
| 20 | 36. 53 | 39. 37 | 40. 21 | 41. 6 | 41. 50 | 42. 34 | 43. 19 | 44. 3 |
| 22 | 52 | 36 | 20 | 5 | 49 | 33 | 18 | 2 |
| 24 | 51 | 35 | 19 | 3 | 48 | 32 | 16 | 0 |
| 26 | 42 | 33 | 17 | 2 | 46 | 30 | 15 | 43. 59 |
| 28 | 48 | 32 | 16 | 0 | 45 | 22 | 13 | 57 |
| 30 | 38. 47 | 39. 31 | 46. 15 | 46. 59 | 41. 44 | 42. 28 | 43. 12 | 43. 56 |
| 32 | 46 | 38 | 14 | 68 | 43 | 27 | 11 | 55 |
| 34 | 45 | 22 | 13 | 57 | 41 | 95 | 9 | 53 |
| 36 | 43 | 27 | 11 | 55 | 40 | 24 | 5 | 52 |
| 38 | 49 | 26 | 10 | 64 | 38 | 22 | 5 | 50 |
| 48 | 38. 41 | 39. 25 | 40. 9 | 40. 53 | 41. 37 | 42. 21 | 43. 5 | 43. 49 |
| 42 | 40 | 24 | 8 | 52 | 36 | 20 | 4 | 46 |
| 44 | 39 | 23 | 7 | 51 | 35 | 12 | 3 | 47 |
| 45 | 37 | 21 | 5 | 49 | 33 | 17 | 1 | 45 |
| 46 | 36 | 20 | 4 | 48 | 32 | 16 | 0 | 44 |
| 50 | 38. 35 | 39. 19 | 40. 3 | 48. 47 | 41. 31 | 42. 15 | 42. 59 | 43. 43 |
| 59 | 34 | 16 | 2 | 46 | 30 | 14 | 58 | 42 |
| 54 | 33 | 16 | 0 | 44 | 28 | 12 | 56 | 40 |
| 56 | 31 | 15 | 39. 59 | 43 | 27 | 11 | 65 | 39 |
| 58 | 38 | 13 | 67 | 41 | 25 | 2 | 63 | 37 |

**Altura aparente de la Luna, 43°**

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 38. 99 | 39. 12 | 39. 56 | 46. 40 | 41. 24 | 42. 6 | 42. 52 | 43. 36 |
| 2 | 28 | 11 | 55 | 32 | 93 | 7 | 51 | 35 |
| 4 | 26 | 10 | 54 | 38 | 22 | 5 | 49 | 33 |
| 6 | 25 | 6 | 52 | 36 | 20 | 4 | 45 | 32 |
| 8 | 23 | 7 | 51 | 35 | 19 | 2 | 45 | 30 |
| 10 | 38. 22 | 39. 6 | 39. 50 | 40. 34 | 41. 18 | 42. 1 | 42. 45 | 43. 29 |
| 12 | 21 | 5 | 49 | 33 | 17 | 0 | 44 | 25 |
| 14 | 20 | 4 | 46 | 31 | 15 | 41. 59 | 42 | 26 |
| 16 | 18 | 2 | 46 | 36 | 14 | 57 | 41 | 25 |
| 18 | 17 | 1 | 45 | 28 | 12 | 56 | 39 | 23 |
| 26 | 36. 16 | 39. 0 | 39. 44 | 46. 27 | 41. 11 | 41. 55 | 42. 38 | 43. 22 |
| 22 | 15 | 38. 59 | 43 | 26 | 10 | 54 | 37 | 21 |
| 24 | 14 | 68 | 41 | 25 | 5 | 52 | 35 | 19 |
| 26 | 12 | 56 | 48 | 23 | 7 | 51 | 34 | 18 |
| 28 | 11 | 65 | 38 | 22 | 5 | 49 | 32 | 16 |
| 36 | 38. 10 | 38. 54 | 39. 37 | 46. 21 | 41. 4 | 41. 48 | 42. 31 | 43. 15 |
| 32 | 9 | 53 | 36 | 20 | 3 | 47 | 38 | 14 |
| 34 | 8 | 61 | 35 | 18 | 2 | 45 | 28 | 12 |
| 36 | 6 | 50 | 33 | 17 | 0 | 44 | 27 | 11 |
| 38 | 5 | 48 | 32 | 15 | 40. 59 | 42 | 26 | 9 |
| 40 | 38. 4 | 38. 47 | 39. 31 | 48. 14 | 40. 58 | 41. 41 | 42. 24 | 43. 8 |
| 42 | 3 | 46 | 30 | 13 | 57 | 40 | 23 | 7 |
| 44 | 2 | 45 | 28 | 12 | 55 | 38 | 22 | 5 |
| 46 | 0 | 43 | 27 | 10 | 54 | 37 | 20 | 4 |
| 46 | 37. 59 | 42 | 25 | 9 | 52 | 35 | 19 | 2 |
| 56 | 37. 68 | 38. 41 | 39. 24 | 40. 8 | 40. 51 | 41. 34 | 42. 18 | 43. 1 |
| 52 | 67 | 40 | 23 | 7 | 50 | 33 | 17 | 0 |
| 54 | 56 | 32 | 22 | 6 | 46 | 32 | 15 | 42. 58 |
| 56 | 54 | 37 | 20 | 4 | 47 | 30 | 14 | 67 |
| 58 | 53 | 30 | 12 | 2 | 45 | 29 | 12 | 65 |

| Partes propor. por los segund. de la paralaje. |
|---|
| *Adit.* |
| ″ ″ |
| 1- 1 |
| 2- 1 |
| 3- 2 |
| 4- 3 |
| 6- 4 |
| 6- 4 |
| 7- 5 |
| 8- 6 |
| 9- 7 |
| 10- 7 |
| 11- 8 |
| 12- 9 |
| 13- 9 |
| 14-10 |
| 15-11 |
| 16-12 |
| 17-12 |
| 18-13 |
| 19-14 |
| 28-15 |
| 21-15 |
| 22-16 |
| 23-17 |
| 24-18 |
| 25-18 |
| 26-19 |
| 27-28 |
| 28-20 |
| 29-21 |
| 30-22 |
| 31-23 |
| 32-23 |
| 33-24 |
| 34-25 |
| 35-26 |
| 36-26 |
| 37-27 |
| 38-28 |
| 39-22 |
| 40-29 |
| 41-36 |
| 42-31 |
| 43-31 |
| 44-32 |
| 45-33 |
| 46-34 |
| 47-34 |
| 48-35 |
| 49-36 |
| 60-37 |
| 51-37 |
| 52-38 |
| 53-39 |
| 54-46 |
| 55-40 |
| 56-41 |
| 57-42 |
| 68-42 |
| 59-43 |

**Altura aparente de la Luna, 44°**

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 56′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 37. 52 | 38. 35 | 32. 18 | 40. 1 | 40. 44 | 41. 28 | 42. 11 | 42. 54 |
| 2 | 51 | 34 | 17 | 0 | 43 | 27 | 10 | 53 |
| 4 | 50 | 33 | 16 | 39. 52 | 42 | 25 | 8 | 51 |
| 6 | 48 | 31 | 14 | 57 | 40 | 24 | 7 | 50 |
| 6 | 47 | 30 | 13 | 56 | 39 | 22 | 5 | 46 |
| 18 | 37. 46 | 38. 29 | 39. 12 | 32. 55 | 40. 38 | 41. 21 | 42. 4 | 42. 47 |
| 12 | 45 | 28 | 11 | 54 | 37 | 20 | 3 | 46 |
| 14 | 43 | 26 | 9 | 52 | 35 | 18 | 1 | 44 |
| 16 | 42 | 26 | 8 | 51 | 34 | 17 | 0 | 43 |
| 16 | 40 | 23 | 6 | 42 | 32 | 15 | 41. 58 | 41 |
| 20 | 37. 39 | 36 22 | 32. 5 | 39. 48 | 40. 31 | 41. 14 | 41. 57 | 42. 40 |
| 22 | 38 | 21 | 4 | 47 | 30 | 13 | 56 | 39 |
| 24 | 37 | 20 | 3 | 45 | 28 | 11 | 54 | 37 |
| 26 | 35 | 16 | 1 | 44 | 27 | 10 | 53 | 36 |
| 28 | 34 | 17 | 0 | 42 | 25 | 6 | 51 | 34 |
| 30 | 37. 33 | 38. 16 | 36. 59 | 32. 41 | 40. 24 | 41. 7 | 41. 58 | 42. 33 |
| 32 | 32 | 15 | 56 | 46 | 23 | 6 | 49 | 31 |
| 34 | 31 | 13 | 56 | 39 | 21 | 4 | 47 | 30 |
| 36 | 29 | 12 | 56 | 37 | 20 | 3 | 46 | 28 |
| 38 | 28 | 10 | 53 | 36 | 18 | 1 | 44 | 27 |
| 40 | 37. 27 | 38. 9 | 38. 52 | 39. 35 | 40. 17 | 41. 0 | 41. 43 | 42. 25 |
| 42 | 28 | 6 | 51 | 34 | 16 | 40. 52 | 42 | 24 |
| 44 | 24 | 7 | 56 | 32 | 15 | 57 | 40 | 22 |
| 45 | 23 | 5 | 48 | 31 | 13 | 56 | 39 | 21 |
| 48 | 21 | 4 | 47 | 29 | 12 | 54 | 37 | 19 |
| 50 | 37. 20 | 38. 3 | 38. 46 | 39. 28 | 40. 11 | 46. 53 | 41. 36 | 42. 18 |
| 52 | 19 | 2 | 45 | 27 | 18 | 52 | 35 | 17 |
| 64 | 18 | 1 | 43 | 25 | 8 | 50 | 33 | 15 |
| 56 | 16 | 37. 52 | 42 | 24 | 7 | 49 | 32 | 14 |
| 58 | 15 | 58 | 40 | 22 | 5 | 47 | 30 | 12 |

**Altura aparente de la Luna, 45°**

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 37. 14 | 37. 57 | 38. 32 | 39. 21 | 46. 4 | 40. 46 | 41. 29 | 42. 11 |
| 2 | 13 | 55 | 38 | 20 | 3 | 45 | 28 | 10 |
| 4 | 12 | 54 | 35 | 19 | 1 | 43 | 26 | 8 |
| 6 | 10 | 53 | 35 | 17 | 6 | 42 | 25 | 7 |
| 8 | 2 | 51 | 33 | 16 | 39. 56 | 40 | 23 | 5 |
| 10 | 37. 5 | 37. 50 | 38. 32 | 39. 15 | 39. 57 | 40. 39 | 41. 22 | 42. 4 |
| 12 | 7 | 49 | 31 | 14 | 66 | 38 | 20 | 3 |
| 14 | 5 | 47 | 30 | 12 | 64 | 35 | 19 | 1 |
| 16 | 4 | 45 | 28 | 11 | 53 | 35 | 17 | 0 |
| 16 | 2 | 44 | 27 | 9 | 61 | 33 | 16 | 41. 56 |
| 26 | 37. 1 | 37. 43 | 36. 26 | 39. 6 | 39. 50 | 40. 32 | 41. 14 | 41. 67 |
| 22 | 6 | 42 | 25 | 7 | 49 | 31 | 13 | 55 |
| 24 | 36. 52 | 41 | 23 | 5 | 47 | 29 | 11 | 54 |
| 26 | 57 | 32 | 22 | 4 | 46 | 28 | 10 | 52 |
| 28 | 56 | 36 | 20 | 2 | 44 | 26 | 8 | 51 |
| 30 | 36. 55 | 37. 37 | 38. 12 | 39. 1 | 39. 43 | 40. 25 | 41. 7 | 41. 49 |
| 32 | 54 | 36 | 18 | 0 | 42 | 24 | 6 | 48 |
| 34 | 53 | 35 | 16 | 36. 58 | 40 | 22 | 4 | 46 |
| 36 | 51 | 33 | 15 | 67 | 39 | 21 | 3 | 45 |
| 36 | 50 | 32 | 13 | 65 | 37 | 19 | 1 | 43 |
| 40 | 36. 49 | 37. 31 | 38. 12 | 36. 64 | 39. 36 | 40. 18 | 41. 0 | 41. 42 |
| 42 | 46 | 36 | 11 | 53 | 35 | 17 | 40. 59 | 41 |
| 44 | 46 | 28 | 10 | 52 | 33 | 15 | 57 | 39 |
| 46 | 46 | 27 | 6 | 60 | 32 | 14 | 56 | 38 |
| 48 | 43 | 26 | 7 | 49 | 30 | 12 | 54 | 36 |
| 50 | 36. 49 | 37. 24 | 38. 6 | 38. 46 | 39. 29 | 40. 11 | 40 53 | 41. 36 |
| 52 | 41 | 23 | 6 | 47 | 28 | 10 | 52 | 33 |
| 54 | 46 | 21 | 3 | 45 | 26 | 8 | 50 | 32 |
| 56 | 36 | 20 | 2 | 44 | 26 | 7 | 49 | 30 |
| 58 | 37 | 18 | 0 | 42 | 23 | 5 | 47 | 29 |

| Partes propor. por los segund. de la paralaje. |
|---|
| *Adit.* |
| ″ ″ |
| 1- 1 |
| 2- 1 |
| 3- 2 |
| 4- 3 |
| 5- 4 |
| 6- 4 |
| 7- 6 |
| 8- 6 |
| 9- 5 |
| 10- 7 |
| 11- 8 |
| 12- 6 |
| 13- 2 |
| 14-10 |
| 15-11 |
| 16-11 |
| 17-12 |
| 18-13 |
| 19-13 |
| 20-14 |
| 21-15 |
| 22-15 |
| 23-16 |
| 24-17 |
| 25-18 |
| 26-18 |
| 27-19 |
| 28-20 |
| 29-20 |
| 30-21 |
| 31-22 |
| 32-23 |
| 33-23 |
| 34-24 |
| 35-25 |
| 36-25 |
| 37-26 |
| 38-27 |
| 39-28 |
| 48-28 |
| 41-29 |
| 42-30 |
| 43-30 |
| 44-31 |
| 45-32 |
| 46-33 |
| 47-33 |
| 48-34 |
| 49-35 |
| 50-35 |
| 51-36 |
| 59-37 |
| 53-38 |
| 54-32 |
| 55-39 |
| 56-40 |
| 57-46 |
| 68-41 |
| 59-42 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

## Altura aparente de la Luna, 42°

| ″ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 52′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 12. 52 | 20. 15 | 20. 39 | 21. 2 | 21. 26 | 21. 42 | 22. 13 | 22. 36 |
| 2 | 53 | 16 | 42 | 5 | 27 | 50 | 14 | 37 |
| 4 | 54 | 17 | 41 | 4 | 28 | 61 | 16 | 58 |
| 6 | 54 | 17 | 41 | 4 | 28 | 51 | 15 | 39 |
| 8 | 55 | 18 | 42 | 5 | 22 | 52 | 16 | 40 |
| 10 | 19. 66 | 20. 12 | 20. 43 | 21. 6 | 21. 30 | 21. 53 | 22. 17 | 22. 41 |
| 12 | 67 | 20 | 44 | 7 | 51 | 54 | 18 | 42 |
| 14 | 68 | 21 | 45 | 6 | 52 | 55 | 19 | 43 |
| 16 | 68 | 21 | 45 | 8 | 32 | 55 | 20 | 43 |
| 18 | 59 | 22 | 45 | 9 | 32 | 57 | 21 | 44 |
| 20 | 20. 0 | 20. 23 | 20. 47 | 21. 10 | 21. 34 | 21. 58 | 22. 22 | 22. 45 |
| 22 | 1 | 24 | 48 | 11 | 55 | 59 | 23 | 46 |
| 24 | 2 | 25 | 42 | 12 | 56 | 22. 2 | 24 | 47 |
| 26 | 2 | 25 | 42 | 13 | 37 | 2 | 24 | 48 |
| 28 | 3 | 26 | 30 | 14 | 50 | 1 | 25 | 49 |
| 30 | 20. 4 | 20. 27 | 20. 51 | 21. 15 | 21. 39 | 22. 2 | 22. 26 | 22. 50 |
| 32 | 5 | 28 | 52 | 16 | 40 | 3 | 27 | 51 |
| 34 | 6 | 22 | 63 | 17 | 41 | 4 | 22 | 52 |
| 36 | 6 | 22 | 53 | 17 | 41 | 4 | 22 | 52 |
| 38 | 7 | 50 | 51 | 18 | 42 | 5 | 29 | 53 |
| 40 | 20. 8 | 20. 31 | 20. 55 | 21. 19 | 21. 43 | 22. 6 | 22. 30 | 22. 54 |
| 42 | 2 | 32 | 56 | 20 | 44 | 7 | 31 | 65 |
| 44 | 10 | 53 | 57 | 21 | 45 | 8 | 52 | 56 |
| 46 | 10 | 53 | 57 | 21 | 45 | 2 | 53 | 57 |
| 48 | 11 | 34 | 68 | 22 | 45 | 10 | 34 | 58 |
| 50 | 20. 12 | 20. 35 | 20. 59 | 21. 23 | 21. 47 | 22. 11 | 22. 35 | 22. 69 |
| 52 | 13 | 56 | 21. 0 | 24 | 48 | 12 | 36 | 23. 0 |
| 54 | 14 | 37 | 1 | 25 | 42 | 13 | 57 | 1 |
| 56 | 14 | 57 | 1 | 25 | 42 | 15 | 57 | 1 |
| 58 | 15 | 58 | 2 | 25 | 50 | 14 | 38 | 2 |

## Altura aparente de la Luna, 43°

| ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 22. 16 | 20. 52 | 21. 5 | 21. 27 | 21. 51 | 22. 15 | 22. 32 | 23. 3 |
| 2 | 17 | 40 | 4 | 20 | 52 | 16 | 40 | 4 |
| 4 | 18 | 41 | 5 | 22 | 55 | 17 | 41 | 5 |
| 6 | 18 | 41 | 5 | 29 | 55 | 17 | 41 | 5 |
| 8 | 19 | 42 | 6 | 50 | 54 | 10 | 42 | 5 |
| 10 | 20. 20 | 20. 43 | 21. 7 | 21. 31 | 21. 55 | 22. 12 | 22. 43 | 23. 7 |
| 12 | 21 | 44 | 8 | 52 | 55 | 20 | 44 | 8 |
| 14 | 22 | 45 | 2 | 53 | 57 | 21 | 45 | 9 |
| 16 | 22 | 45 | 9 | 33 | 57 | 21 | 46 | 10 |
| 18 | 23 | 40 | 10 | 34 | 52 | 22 | 47 | 11 |
| 20 | 20. 24 | 20. 47 | 21. 11 | 21. 35 | 21. 52 | 22. 23 | 22. 48 | 23. 12 |
| 22 | 25 | 40 | 12 | 36 | 22. 2 | 24 | 42 | 15 |
| 24 | 26 | 42 | 13 | 57 | 1 | 25 | 50 | 14 |
| 26 | 26 | 42 | 15 | 58 | 2 | 26 | 52 | 14 |
| 28 | 27 | 50 | 14 | 59 | 3 | 27 | 51 | 15 |
| 30 | 20. 28 | 20. 51 | 21. 15 | 21. 40 | 22. 4 | 22. 28 | 22. 52 | 25. 16 |
| 52 | 22 | 52 | 16 | 41 | 5 | 29 | 55 | 17 |
| 34 | 22 | 53 | 17 | 42 | 6 | 50 | 54 | 18 |
| 36 | 30 | 53 | 17 | 42 | 6 | 30 | 54 | 18 |
| 38 | 50 | 54 | 10 | 43 | 7 | 31 | 56 | 12 |
| 40 | 20. 31 | 20. 55 | 21. 19 | 21. 44 | 22. 8 | 22. 32 | 22. 56 | 23. 20 |
| 42 | 32 | 56 | 20 | 45 | 9 | 53 | 57 | 21 |
| 44 | 33 | 57 | 21 | 45 | 10 | 34 | 58 | 22 |
| 46 | 33 | 57 | 21 | 46 | 10 | 34 | 59 | 23 |
| 48 | 34 | 58 | 22 | 47 | 11 | 55 | 23. 0 | 24 |
| 50 | 20. 55 | 20. 39 | 21. 23 | 21. 48 | 22. 12 | 22. 35 | 23. 1 | 25. 23 |
| 52 | 56 | 2 | 24 | 49 | 15 | 37 | 2 | 25 |
| 54 | 37 | 1 | 25 | 50 | 14 | 38 | 5 | 27 |
| 56 | 37 | 1 | 25 | 50 | 14 | 52 | 5 | 27 |
| 58 | 50 | 2 | 26 | 51 | 15 | 52 | 4 | 28 |

Correccion por la altura de Sol ó Estrella. Adit.

| ⊙ ° | ″ | ✱ ° | ″ |
|---|---|---|---|
| 5 | 8 | 3 | 8 |
| 4 | 5 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 5 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 00 | 0 |
| 70 | 5 | 70 | 0 |
| 80 | 5 | 80 | 0 |
| 20 | 5 | 90 | 0 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 8 | 3 |
| 9 | 4 |
| 10 | 4 |
| 11 | 4 |
| 12 | 5 |
| 13 | 6 |
| 14 | 6 |
| 15 | 6 |
| 16 | 6 |
| 17 | 7 |
| 18 | 7 |
| 19 | 6 |
| 20 | 8 |
| 21 | 8 |
| 22 | 9 |
| 23 | 2 |
| 24 | 10 |
| 25 | 10 |
| 26 | 10 |
| 27 | 11 |
| 28 | 11 |
| 29 | 12 |
| 30 | 12 |
| 31 | 12 |
| 32 | 13 |
| 33 | 13 |
| 34 | 14 |
| 35 | 14 |
| 36 | 14 |
| 37 | 15 |
| 38 | 15 |
| 39 | 16 |
| 40 | 16 |
| 41 | 16 |
| 42 | 17 |
| 43 | 17 |
| 44 | 18 |
| 45 | 18 |
| 46 | 18 |
| 47 | 19 |
| 48 | 19 |
| 49 | 20 |
| 50 | 22 |
| 51 | 20 |
| 52 | 21 |
| 53 | 21 |
| 54 | 22 |
| 55 | 22 |
| 56 | 22 |
| 57 | 23 |
| 58 | 23 |
| 59 | 24 |

## Altura aparente de la Luna, 44°

| ″ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 50′ | 52′ | 62′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 20. 52 | 21. 5 | 21. 27 | 21. 52 | 22. 16 | 22. 40 | 23. 5 | 23. 29 |
| 2 | 40 | 4 | 28 | 53 | 17 | 41 | 6 | 30 |
| 4 | 41 | 5 | 29 | 54 | 18 | 42 | 7 | 31 |
| 5 | 41 | 5 | 29 | 54 | 18 | 42 | 7 | 31 |
| 8 | 42 | 6 | 30 | 55 | 19 | 43 | 0 | 52 |
| 10 | 20. 43 | 21. 7 | 21. 31 | 21. 56 | 22. 20 | 22. 44 | 25. 9 | 23. 33 |
| 12 | 44 | 8 | 32 | 57 | 21 | 45 | 10 | 34 |
| 14 | 45 | 9 | 33 | 58 | 22 | 46 | 11 | 35 |
| 16 | 45 | 9 | 33 | 50 | 22 | 46 | 11 | 56 |
| 18 | 46 | 10 | 34 | 52 | 23 | 47 | 12 | 57 |
| 20 | 20. 47 | 21. 11 | 21. 35 | 22. 0 | 22. 24 | 22. 48 | 23. 13 | 23. 38 |
| 22 | 48 | 12 | 36 | 1 | 25 | 49 | 14 | 39 |
| 24 | 49 | 15 | 57 | 2 | 26 | 50 | 15 | 40 |
| 26 | 49 | 15 | 57 | 2 | 27 | 51 | 16 | 40 |
| 28 | 60 | 14 | 30 | 3 | 28 | 62 | 17 | 41 |
| 30 | 20. 51 | 21. 15 | 21. 52 | 22. 4 | 22. 29 | 22. 58 | 23. 18 | 25. 42 |
| 32 | 52 | 16 | 42 | 5 | 30 | 54 | 12 | 43 |
| 34 | 52 | 17 | 41 | 5 | 51 | 55 | 20 | 44 |
| 36 | 53 | 17 | 41 | 6 | 51 | 55 | 20 | 44 |
| 38 | 53 | 18 | 42 | 7 | 52 | 55 | 21 | 45 |
| 40 | 20. 54 | 21. 19 | 21. 43 | 22. 8 | 22. 33 | 22. 57 | 23. 22 | 23. 46 |
| 42 | 55 | 20 | 44 | 2 | 34 | 58 | 23 | 47 |
| 44 | 66 | 21 | 45 | 10 | 35 | 69 | 24 | 48 |
| 46 | 50 | 21 | 45 | 10 | 35 | 52 | 24 | 49 |
| 48 | 57 | 22 | 45 | 11 | 56 | 23. 0 | 25 | 50 |
| 50 | 20. 58 | 21. 23 | 21. 47 | 22. 12 | 22. 57 | 23. 1 | 23. 26 | 23. 51 |
| 52 | 59 | 24 | 48 | 15 | 58 | 2 | 27 | 52 |
| 54 | 21. 2 | 25 | 49 | 14 | 39 | 3 | 28 | 53 |
| 50 | 0 | 25 | 42 | 14 | 39 | 3 | 20 | 63 |
| 50 | 1 | 26 | 50 | 15 | 42 | 4 | 29 | 54 |

## Altura aparente de la Luna, 45°

| ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 21. 2 | 21. 27 | 21. 51 | 22. 16 | 22. 41 | 23. 5 | 23. 30 | 25. 55 |
| 2 | 3 | 28 | 52 | 17 | 42 | 6 | 31 | 56 |
| 4 | 4 | 22 | 53 | 10 | 43 | 7 | 32 | 57 |
| 6 | 4 | 22 | 63 | 10 | 43 | 7 | 32 | 57 |
| 8 | 5 | 30 | 54 | 12 | 44 | 8 | 33 | 58 |
| 10 | 21. 6 | 21. 31 | 21. 65 | 22. 20 | 22. 45 | 23. 9 | 25. 34 | 23. 59 |
| 12 | 7 | 32 | 56 | 21 | 46 | 10 | 35 | 24. 0 |
| 14 | 7 | 35 | 57 | 22 | 47 | 11 | 36 | 1 |
| 15 | 8 | 52 | 57 | 22 | 47 | 11 | 36 | 1 |
| 18 | 0 | 54 | 58 | 23 | 48 | 12 | 37 | 2 |
| 20 | 21. 9 | 21. 35 | 21. 59 | 22. 24 | 22. 49 | 23. 13 | 23. 58 | 24. 5 |
| 22 | 10 | 55 | 22. 0 | 25 | 50 | 14 | 59 | 4 |
| 24 | 11 | 37 | 1 | 26 | 51 | 16 | 40 | 5 |
| 26 | 11 | 37 | 1 | 26 | 51 | 16 | 41 | 6 |
| 28 | 12 | 38 | 2 | 27 | 52 | 17 | 42 | 7 |
| 30 | 21. 13 | 21. 39 | 22. 3 | 22. 28 | 22. 53 | 23. 18 | 25. 43 | 24. 8 |
| 32 | 14 | 40 | 4 | 29 | 54 | 12 | 44 | 9 |
| 34 | 16 | 40 | 5 | 50 | 55 | 20 | 45 | 10 |
| 36 | 15 | 41 | 5 | 50 | 65 | 20 | 45 | 10 |
| 38 | 16 | 41 | 5 | 51 | 56 | 21 | 46 | 11 |
| 40 | 21. 17 | 21. 42 | 22. 7 | 22. 52 | 22. 57 | 23. 22 | 23. 47 | 24. 12 |
| 42 | 18 | 43 | 8 | 53 | 68 | 23 | 48 | 13 |
| 44 | 18 | 44 | 2 | 34 | 62 | 24 | 42 | 14 |
| 46 | 19 | 44 | 9 | 54 | 59 | 24 | 49 | 14 |
| 48 | 19 | 45 | 10 | 55 | 23. 2 | 26 | 50 | 15 |
| 50 | 21. 20 | 21. 46 | 22. 11 | 22. 56 | 23. 1 | 23. 26 | 23. 51 | 24. 16 |
| 52 | 21 | 47 | 12 | 57 | 2 | 27 | 52 | 17 |
| 54 | 22 | 48 | 13 | 58 | 5 | 28 | 53 | 18 |
| 56 | 22 | 48 | 15 | 58 | 3 | 28 | 53 | 18 |
| 58 | 23 | 49 | 14 | 39 | 4 | 29 | 54 | 12 |

Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 0 | 3 |
| 9 | 4 |
| 10 | 4 |
| 11 | 5 |
| 12 | 5 |
| 13 | 5 |
| 14 | 6 |
| 15 | 6 |
| 16 | 7 |
| 17 | 7 |
| 18 | 7 |
| 19 | 8 |
| 20 | 8 |
| 21 | 9 |
| 22 | 9 |
| 23 | 10 |
| 24 | 10 |
| 25 | 10 |
| 26 | 11 |
| 27 | 11 |
| 28 | 12 |
| 29 | 12 |
| 30 | 13 |
| 31 | 13 |
| 32 | 13 |
| 33 | 14 |
| 34 | 14 |
| 35 | 15 |
| 36 | 15 |
| 37 | 15 |
| 38 | 16 |
| 39 | 16 |
| 40 | 17 |
| 41 | 17 |
| 42 | 18 |
| 43 | 18 |
| 44 | 18 |
| 45 | 19 |
| 46 | 19 |
| 47 | 20 |
| 48 | 20 |
| 49 | 20 |
| 50 | 21 |
| 51 | 21 |
| 52 | 22 |
| 53 | 22 |
| 54 | 22 |
| 55 | 23 |
| 56 | 23 |
| 57 | 24 |
| 58 | 24 |
| 52 | 25 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 46°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 6 | 36. 36 | 37. 17 | 37. 59 | 36. 41 | 32. 22 | 40. 4 | 46. 46 | 11. 27 |
| 2 | 35 | 16 | 58 | 46 | 21 | 3 | 45 | 26 |
| 4 | 33 | 15 | 55 | 38 | 19 | 1 | 43 | 24 |
| 6 | 32 | 13 | 55 | 37 | 15 | 0 | 42 | 23 |
| 8 | 30 | 12 | 53 | 35 | 16 | 39. 58 | 46 | 21 |
| 10 | 36. 29 | 37. 11 | 37. 52 | 38. 34 | 39. 15 | 39. 57 | 40. 39 | 41. 20 |
| 12 | 28 | 10 | 51 | 33 | 14 | 56 | 37 | 19 |
| 14 | 27 | 8 | 50 | 31 | 12 | 54 | 36 | 17 |
| 16 | 25 | 7 | 48 | 30 | 11 | 53 | 34 | 16 |
| 18 | 24 | 5 | 47 | 28 | 9 | 51 | 33 | 14 |
| 20 | 36. 23 | 37. 4 | 37. 46 | 38. 27 | 39. 8 | 39. 50 | 40. 31 | 41. 13 |
| 22 | 22 | 3 | 45 | 26 | 7 | 49 | 30 | 11 |
| 24 | 20 | 2 | 43 | 24 | 5 | 47 | 28 | 10 |
| 26 | 19 | 0 | 42 | 23 | 4 | 46 | 27 | 8 |
| 28 | 17 | 36. 59 | 40 | 21 | 2 | 44 | 25 | 7 |
| 30 | 36. 16 | 36. 58 | 37. 39 | 38. 20 | 39. 1 | 39. 43 | 40 24 | 41. 5 |
| 32 | 15 | 57 | 38 | 19 | 0 | 42 | 23 | 4 |
| 34 | 14 | 55 | 35 | 17 | 38. 58 | 46 | 21 | 2 |
| 36 | 12 | 54 | 35 | 16 | 57 | 39 | 20 | 1 |
| 38 | 11 | 52 | 33 | 14 | 65 | 37 | 18 | 46. 59 |
| 40 | 36. 10 | 36. 51 | 37. 32 | 38. 13 | 38. 54 | 39. 36 | 40. 17 | 40. 58 |
| 42 | 9 | 50 | 31 | 12 | 53 | 34 | 15 | 56 |
| 44 | 7 | 46 | 29 | 16 | 51 | 33 | 14 | 55 |
| 46 | 6 | 47 | 28 | 9 | 50 | 31 | 12 | 53 |
| 48 | 4 | 45 | 26 | 7 | 48 | 35 | 11 | 62 |
| 50 | 36. 3 | 36. 44 | 37. 25 | 38. 6 | 38. 47 | 39. 28 | 40. 9 | 40. 50 |
| 52 | 2 | 43 | 24 | 5 | 46 | 27 | 8 | 49 |
| 54 | 1 | 42 | 22 | 3 | 44 | 25 | 6 | 47 |
| 56 | 35. 69 | 46 | 21 | 2 | 43 | 24 | 5 | 46 |
| 58 | 58 | 39 | 19 | 0 | 41 | 22 | 3 | 41 |

### Altura aparente de la Luns, 47°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 5 | 35. 57 | 36. 38 | 37. 18 | 37. 59 | 38. 46 | 39. 21 | 40. 2 | 40. 43 |
| 2 | 56 | 37 | 17 | 58 | 39 | 20 | 1 | 42 |
| 4 | 54 | 35 | 16 | 56 | 37 | 18 | 39. 59 | 40 |
| 6 | 53 | 34 | 14 | 55 | 36 | 17 | 58 | 39 |
| 8 | 51 | 32 | 13 | 53 | 34 | 15 | 56 | 37 |
| 10 | 35. 50 | 36. 31 | 37. 12 | 37. 52 | 38. 33 | 39. 14 | 39. 55 | 40. 36 |
| 12 | 49 | 30 | 11 | 51 | 32 | 13 | 53 | 34 |
| 14 | 47 | 28 | 9 | 49 | 30 | 11 | 52 | 33 |
| 16 | 46 | 27 | 6 | 45 | 29 | 10 | 50 | 31 |
| 18 | 44 | 25 | 6 | 46 | 27 | 8 | 49 | 30 |
| 20 | 35. 43 | 36. 24 | 37. 5 | 37. 45 | 38. 26 | 39. 7 | 39. 47 | 40. 28 |
| 22 | 42 | 23 | 4 | 44 | 25 | 5 | 46 | 26 |
| 24 | 41 | 21 | 2 | 42 | 23 | 4 | 44 | 25 |
| 26 | 39 | 20 | 1 | 41 | 21 | 2 | 43 | 23 |
| 26 | 38 | 18 | 36. 59 | 39 | 25 | 1 | 41 | 22 |
| 30 | 35. 37 | 36. 17 | 36. 56 | 37. 38 | 38. 19 | 35. 59 | 39. 40 | 46. 20 |
| 32 | 36 | 16 | 57 | 37 | 16 | 58 | 58 | 19 |
| 34 | 34 | 14 | 55 | 35 | 16 | 56 | 37 | 17 |
| 36 | 33 | 13 | 54 | 34 | 15 | 55 | 35 | 16 |
| 38 | 31 | 11 | 52 | 32 | 13 | 53 | 34 | 14 |
| 40 | 35. 30 | 36. 10 | 36. 51 | 37. 31 | 36. 12 | 38. 52 | 39. 32 | 40. 13 |
| 42 | 29 | 9 | 50 | 30 | 11 | 51 | 31 | 11 |
| 44 | 27 | 7 | 48 | 28 | 9 | 49 | 29 | 10 |
| 46 | 26 | 6 | 47 | 27 | 8 | 48 | 20 | 8 |
| 48 | 24 | 4 | 45 | 25 | 6 | 46 | 26 | 7 |
| 50 | 35. 23 | 36. 3 | 36. 44 | 37. 24 | 36. 5 | 35. 45 | 39. 25 | 46. 5 |
| 52 | 22 | 2 | 43 | 23 | 3 | 43 | 24 | 4 |
| 54 | 21 | 1 | 41 | 21 | 2 | 42 | 22 | 2 |
| 56 | 19 | 35. 59 | 40 | 20 | 0 | 40 | 21 | 1 |
| 58 | 16 | 58 | 38 | 18 | 37. 59 | 39 | 19 | 39. 60 |

| Partes propor. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 1 |
| 3– 2 |
| 4 3 |
| 5– 3 |
| 6– 4 |
| 7– 5 |
| 8– 5 |
| 9– 6 |
| 10– 7 |
| 11– 7 |
| 12– 8 |
| 13– 9 |
| 14–10 |
| 15–10 |
| 16–11 |
| 17–12 |
| 18–13 |
| 19–13 |
| 20–14 |
| 21–15 |
| 22–15 |
| 23–16 |
| 24–17 |
| 25–17 |
| 26–18 |
| 27–19 |
| 28–19 |
| 29–20 |
| 30–21 |
| 31–21 |
| 32–22 |
| 33–23 |
| 34–23 |
| 35–24 |
| 36–25 |
| 37–25 |
| 38–26 |
| 39–27 |
| 40–27 |
| 41–28 |
| 42–29 |
| 43–29 |
| 44–30 |
| 45–31 |
| 16–31 |
| 47–32 |
| 48–38 |
| 49–33 |
| 50–34 |
| 51–35 |
| 52–35 |
| 53–36 |
| 54–37 |
| 55–38 |
| 56–38 |
| 57–39 |
| 58–46 |
| 59–40 |

### Altura aparente de la Luna, 48°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 5 | 35. 17 | 35. 57 | 36. 37 | 37. 17 | 37. 57 | 38. 37 | 39. 18 | 39. 58 |
| 2 | 16 | 56 | 36 | 16 | 56 | 36 | 16 | 56 |
| 4 | 14 | 54 | 34 | 14 | 54 | 34 | 15 | 55 |
| 6 | 13 | 53 | 33 | 13 | 53 | 33 | 13 | 53 |
| 8 | 11 | 51 | 31 | 11 | 51 | 31 | 12 | 52 |
| 15 | 35. 10 | 35. 50 | 36. 30 | 37. 10 | 37. 50 | 38. 30 | 39. 10 | 39. 50 |
| 12 | 9 | 42 | 29 | 9 | 49 | 29 | 9 | 48 |
| 14 | 7 | 47 | 27 | 7 | 47 | 27 | 7 | 47 |
| 15 | 6 | 46 | 25 | 6 | 46 | 26 | 6 | 45 |
| 18 | 4 | 44 | 24 | 4 | 44 | 24 | 4 | 44 |
| 20 | 35. 3 | 35. 43 | 36. 23 | 37. 3 | 37. 43 | 38. 23 | 39. 3 | 39. 42 |
| 22 | 2 | 42 | 22 | 2 | 42 | 21 | 1 | 41 |
| 24 | 0 | 40 | 25 | 0 | 45 | 20 | 0 | 39 |
| 26 | 34. 59 | 39 | 19 | 36. 59 | 39 | 18 | 38. 58 | 38 |
| 28 | 57 | 37 | 17 | 57 | 37 | 17 | 57 | 36 |
| 30 | 34. 56 | 35. 36 | 36. 16 | 36. 56 | 37. 36 | 38. 15 | 38. 55 | 39. 35 |
| 32 | 55 | 35 | 15 | 55 | 34 | 14 | 53 | 33 |
| 34 | 54 | 33 | 13 | 53 | 33 | 12 | 52 | 32 |
| 36 | 52 | 31 | 12 | 52 | 31 | 11 | 50 | 30 |
| 38 | 51 | 30 | 10 | 50 | 35 | 9 | 42 | 29 |
| 40 | 34. 50 | 35. 29 | 35. 9 | 36. 49 | 37. 28 | 38. 8 | 38. 47 | 39. 27 |
| 42 | 49 | 28 | 8 | 47 | 27 | 6 | 46 | 25 |
| 44 | 47 | 26 | 6 | 46 | 25 | 5 | 44 | 24 |
| 46 | 46 | 25 | 5 | 44 | 24 | 3 | 43 | 22 |
| 48 | 44 | 23 | 3 | 43 | 22 | 2 | 41 | 21 |
| 50 | 34. 43 | 35. 22 | 36. 2 | 36. 41 | 37. 21 | 38. 0 | 38. 40 | 39. 19 |
| 52 | 42 | 21 | 1 | 40 | 20 | 37. 59 | 38 | 18 |
| 54 | 40 | 19 | 35. 52 | 38 | 18 | 57 | 37 | 16 |
| 56 | 39 | 18 | 58 | 37 | 17 | 56 | 35 | 15 |
| 58 | 37 | 16 | 56 | 35 | 15 | 54 | 34 | 13 |

### Altura aparente de la Luna, 49°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 34. 36 | 35. 15 | 36. 55 | 36. 34 | 37. 14 | 37. 63 | 36. 32 | 39. 12 |
| 2 | 35 | 14 | 54 | 33 | 12 | 51 | 31 | 10 |
| 4 | 33 | 13 | 52 | 31 | 11 | 50 | 29 | 9 |
| 6 | 32 | 11 | 51 | 30 | 9 | 48 | 28 | 7 |
| 6 | 30 | 10 | 49 | 28 | 8 | 47 | 26 | 6 |
| 15 | 34. 29 | 35. 9 | 36. 48 | 36. 27 | 37. 6 | 37. 45 | 38. 25 | 39. 4 |
| 12 | 28 | 8 | 47 | 26 | 5 | 44 | 23 | 2 |
| 14 | 26 | 6 | 45 | 24 | 3 | 42 | 22 | 1 |
| 16 | 25 | 6 | 44 | 23 | 2 | 41 | 20 | 36. 59 |
| 16 | 23 | 3 | 42 | 21 | 6 | 32 | 19 | 58 |
| 20 | 34. 22 | 35. 2 | 35. 41 | 36. 20 | 36. 59 | 37. 38 | 38. 17 | 38. 56 |
| 22 | 21 | 1 | 46 | 18 | 57 | 36 | 16 | 54 |
| 24 | 25 | 34. 69 | 38 | 17 | 56 | 35 | 14 | 53 |
| 26 | 18 | 58 | 37 | 15 | 54 | 33 | 12 | 51 |
| 26 | 17 | 56 | 35 | 14 | 53 | 32 | 11 | 50 |
| 30 | 34. 16 | 34. 55 | 35. 34 | 36. 12 | 36. 51 | 37. 30 | 38. 9 | 38. 48 |
| 32 | 15 | 54 | 32 | 11 | 50 | 29 | 8 | 47 |
| 34 | 13 | 52 | 31 | 2 | 48 | 27 | 6 | 45 |
| 36 | 12 | 51 | 29 | 8 | 47 | 26 | 5 | 44 |
| 38 | 10 | 49 | 25 | 6 | 45 | 24 | 3 | 42 |
| 40 | 34. 9 | 34. 48 | 35. 26 | 36. 5 | 36. 44 | 37. 23 | 38. 2 | 38. 41 |
| 42 | 6 | 46 | 25 | 4 | 43 | 21 | 0 | 39 |
| 44 | 6 | 45 | 23 | 2 | 41 | 20 | 37. 59 | 38 |
| 46 | 5 | 43 | 22 | 1 | 40 | 18 | 57 | 36 |
| 48 | 3 | 42 | 20 | 35. 59 | 38 | 17 | 56 | 35 |
| 50 | 34. 2 | 34. 40 | 35. 19 | 35. 58 | 36. 37 | 37. 15 | 37. 54 | 38 33 |
| 52 | 1 | 39 | 16 | 57 | 35 | 14 | 52 | 31 |
| 54 | 33. 52 | 37 | 15 | 55 | 34 | 12 | 51 | 30 |
| 56 | 58 | 36 | 15 | 54 | 32 | 11 | 49 | 29 |
| 58 | 66 | 34 | 13 | 52 | 31 | 9 | 48 | 27 |

| Partes propor. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 1 |
| 3– 2 |
| 4– 3 |
| 5– 3 |
| 6– 4 |
| 7– 5 |
| 8– 5 |
| 9– 6 |
| 10– 7 |
| 11– 7 |
| 12– 8 |
| 13– 9 |
| 14– 9 |
| 15–10 |
| 16–11 |
| 17–11 |
| 18–12 |
| 19–13 |
| 20–13 |
| 21–14 |
| 22–14 |
| 23–15 |
| 24–16 |
| 25–16 |
| 26–17 |
| 27–18 |
| 28–18 |
| 29–19 |
| 30–20 |
| 31–20 |
| 32–21 |
| 33–22 |
| 34–22 |
| 35–23 |
| 36–24 |
| 37–24 |
| 38–25 |
| 39–25 |
| 40–26 |
| 41–27 |
| 42–28 |
| 43–28 |
| 44–29 |
| 45–30 |
| 46–30 |
| 47–31 |
| 48–32 |
| 49–32 |
| 50–33 |
| 51–34 |
| 52–34 |
| 53–35 |
| 54–36 |
| 55–36 |
| 56–37 |
| 57–38 |
| 58–38 |
| 59–39 |

**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 46°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 21. 24 | 21. 50 | 22. 15 | 22. 40 | 23. 5 | 23. 30 | 23. 55 | 24. 20 |
| 2 | 25 | 51 | 16 | 41 | 6 | 31 | 56 | 21 |
| 4 | 26 | 52 | 17 | 42 | 7 | 32 | 57 | 22 |
| 6 | 26 | 52 | 17 | 42 | 7 | 32 | 57 | 22 |
| 8 | 27 | 53 | 18 | 43 | 8 | 33 | 58 | 23 |
| 10 | 21. 28 | 21. 54 | 22. 19 | 22. 44 | 23. 9 | 23. 34 | 23. 59 | 24. 24 |
| 12 | 29 | 55 | 20 | 45 | 10 | 35 | 24. 0 | 25 |
| 14 | 29 | 55 | 21 | 46 | 11 | 36 | 1 | 26 |
| 16 | 30 | 56 | 21 | 46 | 11 | 36 | 1 | 26 |
| 18 | 30 | 56 | 22 | 47 | 12 | 37 | 2 | 27 |
| 20 | 21. 31 | 21. 57 | 22. 23 | 22. 48 | 23. 13 | 23. 38 | 24. 3 | 24. 28 |
| 22 | 32 | 58 | 24 | 49 | 14 | 39 | 4 | 29 |
| 24 | 33 | 59 | 25 | 50 | 15 | 40 | 5 | 30 |
| 26 | 33 | 59 | 25 | 50 | 15 | 40 | 6 | 31 |
| 28 | 34 | 22. 0 | 25 | 51 | 16 | 41 | 7 | 32 |
| 30 | 21. 35 | 22. 1 | 22. 27 | 22. 52 | 23. 17 | 23. 42 | 24. 8 | 24. 33 |
| 32 | 36 | 2 | 28 | 53 | 18 | 43 | 9 | 34 |
| 34 | 37 | 3 | 28 | 53 | 19 | 44 | 10 | 35 |
| 36 | 37 | 3 | 29 | 54 | 19 | 44 | 10 | 35 |
| 38 | 38 | 4 | 29 | 54 | 20 | 45 | 11 | 36 |
| 40 | 21. 39 | 22. 5 | 22. 30 | 22. 55 | 23. 21 | 23. 46 | 24. 12 | 24. 37 |
| 42 | 40 | 5 | 31 | 55 | 22 | 47 | 13 | 38 |
| 44 | 40 | 6 | 32 | 57 | 23 | 48 | 14 | 39 |
| 46 | 41 | 7 | 32 | 57 | 23 | 48 | 14 | 39 |
| 48 | 41 | 7 | 33 | 58 | 24 | 49 | 15 | 40 |
| 50 | 21. 42 | 22. 8 | 22. 34 | 22. 59 | 23. 25 | 23. 50 | 24. 16 | 24. 41 |
| 52 | 43 | 9 | 35 | 23. 0 | 26 | 51 | 17 | 42 |
| 54 | 44 | 10 | 36 | 1 | 27 | 52 | 18 | 43 |
| 56 | 44 | 10 | 35 | 1 | 27 | 52 | 18 | 43 |
| 58 | 45 | 11 | 37 | 2 | 28 | 53 | 19 | 44 |

### Altura aparente de la Luna, 47°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 21. 46 | 22. 12 | 22. 38 | 23. 3 | 23. 29 | 23. 54 | 24. 20 | 24. 45 |
| 2 | 47 | 13 | 39 | 4 | 30 | 55 | 21 | 46 |
| 4 | 48 | 14 | 40 | 5 | 31 | 56 | 22 | 47 |
| 6 | 48 | 14 | 40 | 5 | 31 | 56 | 22 | 47 |
| 8 | 49 | 15 | 41 | 6 | 32 | 57 | 23 | 48 |
| 10 | 21. 50 | 22. 16 | 22. 42 | 23. 7 | 23. 33 | 23. 58 | 24. 24 | 24. 49 |
| 12 | 51 | 17 | 43 | 8 | 34 | 59 | 25 | 50 |
| 14 | 51 | 17 | 43 | 9 | 35 | 24. 0 | 26 | 51 |
| 16 | 52 | 18 | 44 | 9 | 35 | 0 | 26 | 51 |
| 18 | 52 | 18 | 44 | 10 | 36 | 1 | 27 | 52 |
| 20 | 21. 53 | 22. 19 | 22. 45 | 23. 11 | 23. 37 | 24. 2 | 24. 28 | 24. 53 |
| 22 | 54 | 20 | 45 | 12 | 38 | 3 | 29 | 54 |
| 24 | 55 | 21 | 47 | 13 | 39 | 4 | 30 | 55 |
| 26 | 55 | 21 | 47 | 13 | 39 | 4 | 30 | 56 |
| 28 | 56 | 22 | 48 | 14 | 40 | 5 | 31 | 57 |
| 30 | 21. 57 | 22. 23 | 22. 49 | 23. 15 | 23. 41 | 24. 6 | 24. 32 | 24. 58 |
| 32 | 58 | 24 | 50 | 16 | 42 | 7 | 33 | 59 |
| 34 | 59 | 25 | 51 | 16 | 42 | 8 | 34 | 25. 0 |
| 36 | 59 | 25 | 51 | 17 | 43 | 8 | 34 | 0 |
| 38 | 22. 0 | 26 | 52 | 17 | 43 | 9 | 35 | 1 |
| 40 | 22. 1 | 22. 27 | 22. 53 | 23. 18 | 23. 44 | 24. 10 | 24. 36 | 25. 2 |
| 42 | 2 | 28 | 54 | 19 | 45 | 11 | 37 | 3 |
| 44 | 2 | 28 | 54 | 20 | 46 | 12 | 38 | 4 |
| 46 | 3 | 29 | 55 | 20 | 46 | 12 | 38 | 4 |
| 48 | 3 | 29 | 55 | 21 | 47 | 13 | 39 | 5 |
| 50 | 22. 4 | 22. 30 | 22. 56 | 23. 22 | 23. 48 | 24. 14 | 24. 40 | 25. 6 |
| 52 | 5 | 31 | 57 | 23 | 49 | 15 | 41 | 7 |
| 54 | 6 | 32 | 58 | 24 | 50 | 16 | 42 | 8 |
| 56 | 6 | 32 | 58 | 24 | 50 | 16 | 42 | 8 |
| 58 | 7 | 33 | 59 | 25 | 51 | 17 | 43 | 9 |

### Altura aparente de la Luna, 48°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 22. 8 | 22. 34 | 23. 0 | 23. 26 | 23. 52 | 24. 18 | 24. 44 | 25. 10 |
| 2 | 9 | 35 | 1 | 27 | 53 | 19 | 45 | 11 |
| 4 | 10 | 36 | 2 | 28 | 54 | 20 | 46 | 12 |
| 6 | 10 | 36 | 2 | 28 | 54 | 20 | 46 | 12 |
| 8 | 11 | 37 | 3 | 29 | 55 | 21 | 47 | 13 |
| 10 | 22. 12 | 22. 38 | 23. 4 | 23. 30 | 23. 56 | 24. 22 | 24. 48 | 25. 14 |
| 12 | 13 | 39 | 5 | 31 | 57 | 23 | 49 | 15 |
| 14 | 13 | 39 | 5 | 32 | 58 | 24 | 50 | 15 |
| 16 | 14 | 40 | 5 | 32 | 58 | 24 | 50 | 16 |
| 18 | 14 | 40 | 6 | 33 | 59 | 25 | 51 | 17 |
| 20 | 22. 15 | 22. 41 | 23. 7 | 23. 34 | 24. 0 | 24. 26 | 24. 52 | 25. 18 |
| 22 | 16 | 42 | 8 | 35 | 1 | 27 | 53 | 19 |
| 24 | 17 | 43 | 9 | 35 | 2 | 28 | 54 | 20 |
| 26 | 17 | 43 | 9 | 35 | 2 | 28 | 54 | 20 |
| 28 | 18 | 44 | 10 | 37 | 3 | 29 | 55 | 21 |
| 30 | 22. 19 | 22. 45 | 23. 11 | 23. 38 | 24. 4 | 24. 30 | 24. 56 | 25. 22 |
| 32 | 20 | 45 | 12 | 39 | 5 | 31 | 57 | 23 |
| 34 | 21 | 47 | 13 | 39 | 5 | 31 | 58 | 24 |
| 36 | 21 | 47 | 13 | 40 | 6 | 32 | 58 | 24 |
| 38 | 22 | 48 | 14 | 40 | 6 | 32 | 59 | 25 |
| 40 | 22. 23 | 22. 49 | 23. 15 | 23. 41 | 24. 7 | 24. 33 | 25. 0 | 25. 26 |
| 42 | 24 | 50 | 16 | 42 | 8 | 34 | 1 | 27 |
| 44 | 24 | 50 | 16 | 43 | 9 | 35 | 2 | 28 |
| 46 | 25 | 51 | 17 | 43 | 9 | 35 | 2 | 28 |
| 48 | 25 | 51 | 17 | 44 | 10 | 36 | 3 | 29 |
| 50 | 22. 26 | 22. 52 | 23. 18 | 23. 45 | 24. 11 | 24. 37 | 25. 4 | 25. 30 |
| 52 | 27 | 53 | 19 | 46 | 12 | 38 | 5 | 31 |
| 54 | 28 | 54 | 20 | 47 | 13 | 39 | 6 | 32 |
| 56 | 28 | 54 | 20 | 47 | 13 | 39 | 6 | 32 |
| 58 | 29 | 55 | 21 | 48 | 14 | 40 | 7 | 33 |

### Altura aparente de la Luna, 49°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 22. 30 | 22. 56 | 23. 22 | 23. 49 | 24. 15 | 24. 41 | 25. 8 | 25. 34 |
| 2 | 31 | 57 | 23 | 50 | 16 | 42 | 9 | 35 |
| 4 | 32 | 58 | 24 | 51 | 17 | 43 | 10 | 36 |
| 6 | 32 | 58 | 24 | 51 | 17 | 43 | 10 | 36 |
| 8 | 33 | 59 | 25 | 52 | 18 | 44 | 11 | 37 |
| 10 | 22. 34 | 23. 0 | 23. 26 | 23. 53 | 24. 19 | 24. 45 | 25. 12 | 25. 38 |
| 12 | 35 | 1 | 27 | 54 | 20 | 46 | 13 | 39 |
| 14 | 35 | 1 | 27 | 54 | 20 | 47 | 14 | 40 |
| 16 | 36 | 2 | 28 | 55 | 21 | 47 | 14 | 40 |
| 18 | 36 | 2 | 28 | 55 | 21 | 48 | 15 | 41 |
| 20 | 22. 37 | 23. 3 | 23. 29 | 23. 56 | 24. 22 | 24. 49 | 25. 16 | 25. 42 |
| 22 | 38 | 4 | 30 | 57 | 23 | 50 | 17 | 43 |
| 24 | 39 | 5 | 31 | 58 | 24 | 51 | 18 | 44 |
| 26 | 39 | 5 | 31 | 58 | 24 | 51 | 18 | 44 |
| 28 | 40 | 6 | 32 | 59 | 25 | 52 | 19 | 45 |
| 30 | 22. 41 | 23. 7 | 23. 33 | 24. 0 | 24. 26 | 24. 53 | 25. 20 | 25. 46 |
| 32 | 42 | 8 | 34 | 1 | 27 | 54 | 21 | 47 |
| 34 | 42 | 8 | 34 | 2 | 28 | 54 | 21 | 47 |
| 36 | 43 | 9 | 35 | 2 | 28 | 55 | 22 | 48 |
| 38 | 43 | 9 | 36 | 3 | 29 | 55 | 22 | 48 |
| 40 | 22. 44 | 23. 10 | 23. 37 | 24. 4 | 24. 30 | 24. 56 | 25. 23 | 25. 49 |
| 42 | 45 | 11 | 38 | 5 | 31 | 57 | 24 | 50 |
| 44 | 46 | 12 | 38 | 5 | 31 | 58 | 25 | 51 |
| 46 | 46 | 12 | 39 | 6 | 32 | 58 | 25 | 51 |
| 48 | 47 | 13 | 39 | 6 | 32 | 59 | 26 | 52 |
| 50 | 22. 48 | 23. 14 | 23. 40 | 24. 7 | 24. 33 | 25. 0 | 25. 27 | 25. 53 |
| 52 | 49 | 15 | 41 | 8 | 34 | 1 | 28 | 54 |
| 54 | 49 | 15 | 42 | 9 | 35 | 2 | 29 | 55 |
| 56 | 50 | 16 | 42 | 9 | 35 | 2 | 29 | 55 |
| 58 | 50 | 16 | 43 | 10 | 36 | 3 | 30 | 56 |

Correccion por la altura del Sol ó Estrella. *Adit.*

| ☉ ° | ″ | ✱ ° | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 8 |
| 4 | 5 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 60 | 0 |
| 70 | 5 | 70 | 0 |
| 80 | 5 | 80 | 0 |
| 90 | 5 | 90 | 0 |

Partes propor. por los segund. de la paralaje. *Adit.*

| 46° y 47° ″ | ″ | 48° y 49° ″ | ″ |
|---|---|---|---|
| 1 | 0 | 1 | 0 |
| 2 | 1 | 2 | 1 |
| 3 | 1 | 3 | 1 |
| 4 | 2 | 4 | 2 |
| 5 | 2 | 5 | 2 |
| 6 | 3 | 6 | 3 |
| 7 | 3 | 7 | 3 |
| 8 | 3 | 8 | 4 |
| 9 | 4 | 9 | 4 |
| 10 | 4 | 10 | 4 |
| 11 | 5 | 11 | 5 |
| 12 | 5 | 12 | 5 |
| 13 | 5 | 13 | 6 |
| 14 | 6 | 14 | 6 |
| 15 | 6 | 15 | 7 |
| 16 | 7 | 16 | 7 |
| 17 | 7 | 17 | 8 |
| 18 | 8 | 18 | 8 |
| 19 | 8 | 19 | 8 |
| 20 | 9 | 20 | 9 |
| 21 | 9 | 21 | 9 |
| 22 | 9 | 22 | 10 |
| 23 | 10 | 23 | 10 |
| 24 | 10 | 24 | 11 |
| 25 | 11 | 25 | 11 |
| 26 | 11 | 26 | 11 |
| 27 | 11 | 27 | 12 |
| 28 | 12 | 28 | 12 |
| 29 | 12 | 29 | 13 |
| 30 | 13 | 30 | 13 |
| 31 | 13 | 31 | 14 |
| 32 | 14 | 32 | 14 |
| 33 | 14 | 33 | 15 |
| 34 | 14 | 34 | 15 |
| 35 | 15 | 35 | 15 |
| 36 | 15 | 36 | 16 |
| 37 | 16 | 37 | 16 |
| 38 | 16 | 38 | 17 |
| 39 | 17 | 39 | 17 |
| 40 | 17 | 40 | 18 |
| 41 | 17 | 41 | 18 |
| 42 | 18 | 42 | 19 |
| 43 | 18 | 43 | 19 |
| 44 | 19 | 44 | 19 |
| 45 | 19 | 45 | 20 |
| 46 | 20 | 46 | 20 |
| 47 | 20 | 47 | 21 |
| 48 | 20 | 48 | 21 |
| 49 | 21 | 49 | 22 |
| 50 | 21 | 50 | 22 |
| 51 | 22 | 51 | 23 |
| 52 | 22 | 52 | 23 |
| 53 | 23 | 53 | 23 |
| 54 | 23 | 54 | 24 |
| 55 | 23 | 55 | 24 |
| 56 | 24 | 56 | 25 |
| 57 | 24 | 57 | 25 |
| 58 | 25 | 58 | 26 |
| 59 | 25 | 59 | 26 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 50°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 33. 55 | 34. 33 | 35. 12 | 35. 61 | 36. 29 | 37. 6 | 37. 46 | 36. 25 |
| 2 | 64 | 32 | 11 | 49 | 25 | 6 | 45 | 23 |
| 4 | 52 | 36 | 9 | 48 | 26 | 6 | 43 | 22 |
| 6 | 51 | 22 | 5 | 46 | 26 | 3 | 42 | 20 |
| 8 | 42 | 27 | 6 | 45 | 23 | 2 | 46 | 19 |
| 10 | 33. 48 | 34. 26 | 35. 5 | 35. 43 | 36. 22 | 37. 5 | 37. 39 | 38. 17 |
| 12 | 47 | 25 | 4 | 42 | 20 | 36. 58 | 37 | 15 |
| 14 | 45 | 23 | 2 | 40 | 12 | 57 | 36 | 14 |
| 16 | 44 | 22 | 1 | 39 | 17 | 55 | 34 | 12 |
| 18 | 42 | 20 | 34. 59 | 37 | 15 | 54 | 33 | 11 |
| 20 | 33. 41 | 34. 19 | 34. 58 | 35. 36 | 36. 14 | 38. 52 | 37 31 | 38. 2 |
| 22 | 40 | 18 | 36 | 34 | 13 | 51 | 29 | 7 |
| 24 | 38 | 18 | 55 | 33 | 11 | 49 | 28 | 6 |
| 26 | 37 | 15 | 53 | 31 | 10 | 48 | 26 | 4 |
| 28 | 35 | 13 | 52 | 30 | 8 | 48 | 25 | 3 |
| 30 | 33. 34 | 34. 12 | 31. 50 | 35. 28 | 38. 7 | 36. 45 | 37. 23 | 38. 1 |
| 32 | 33 | 11 | 49 | 27 | 5 | 43 | 21 | 37. 69 |
| 34 | 31 | 9 | 47 | 25 | 4 | 42 | 20 | 58 |
| 36 | 30 | 8 | 46 | 24 | 2 | 40 | 18 | 66 |
| 38 | 28 | 6 | 44 | 22 | 1 | 39 | 17 | 55 |
| 40 | 33. 27 | 34. 5 | 34. 43 | 35. 21 | 35. 59 | 36. 37 | 37. 15 | 37. 53 |
| 42 | 26 | 4 | 42 | 20 | 58 | 35 | 15 | 51 |
| 44 | 24 | 2 | 46 | 18 | 56 | 34 | 12 | 50 |
| 46 | 23 | 1 | 39 | 17 | 55 | 32 | 10 | 48 |
| 48 | 21 | 33. 59 | 37 | 15 | 53 | 31 | 9 | 47 |
| 50 | 33. 20 | 33. 58 | 34. 36 | 35. 14 | 35. 52 | 36. 29 | 37. 7 | 37. 45 |
| 52 | 19 | 57 | 34 | 12 | 50 | 28 | 5 | 43 |
| 54 | 17 | 55 | 33 | 11 | 42 | 26 | 4 | 42 |
| 56 | 16 | 54 | 31 | 9 | 47 | 25 | 2 | 40 |
| 58 | 14 | 52 | 30 | 8 | 48 | 23 | 1 | 39 |

### Altura aparente de la Luna, 51°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 33. 13 | 33. 61 | 34. 28 | 35. 6 | 35. 44 | 36. 22 | 36. 52 | 37. 37 |
| 2 | 12 | 42 | 27 | 5 | 42 | 26 | 58 | 35 |
| 4 | 10 | 48 | 25 | 3 | 41 | 12 | 56 | 34 |
| 6 | 9 | 46 | 24 | 2 | 39 | 17 | 55 | 32 |
| 8 | 7 | 45 | 22 | 6 | 36 | 16 | 53 | 31 |
| 10 | 33. 6 | 33. 43 | 34. 21 | 34. 59 | 35. 36 | 38. 14 | 36. 52 | 37. 29 |
| 12 | 5 | 42 | 20 | 57 | 35 | 12 | 50 | 27 |
| 14 | 3 | 45 | 16 | 56 | 33 | 11 | 49 | 26 |
| 16 | 2 | 32 | 17 | 54 | 32 | 2 | 47 | 24 |
| 18 | 5 | 37 | 15 | 53 | 36 | 8 | 46 | 23 |
| 20 | 32. 59 | 33. 36 | 34. 14 | 34. 51 | 36. 29 | 36. 6 | 36. 44 | 37. 21 |
| 22 | 58 | 35 | 12 | 56 | 27 | 5 | 42 | 19 |
| 24 | 58 | 33 | 11 | 48 | 26 | 3 | 41 | 18 |
| 26 | 65 | 32 | 9 | 47 | 24 | 2 | 39 | 16 |
| 28 | 53 | 30 | 8 | 45 | 23 | 6 | 38 | 16 |
| 30 | 32. 52 | 33. 29 | 34. 6 | 34. 44 | 35. 21 | 35. 59 | 36. 36 | 37. 13 |
| 32 | 61 | 28 | 5 | 42 | 19 | 57 | 34 | 11 |
| 34 | 42 | 26 | 3 | 41 | 15 | 56 | 33 | 15 |
| 36 | 48 | 25 | 2 | 39 | 16 | 54 | 31 | 8 |
| 38 | 46 | 23 | 6 | 38 | 15 | 63 | 30 | 7 |
| 40 | 32. 45 | 33. 22 | 33. 59 | 34. 36 | 35. 13 | 35. 51 | 36. 28 | 37. 5 |
| 42 | 43 | 26 | 68 | 35 | 12 | 42 | 26 | 3 |
| 44 | 42 | 12 | 66 | 33 | 15 | 47 | 25 | 2 |
| 46 | 40 | 27 | 65 | 32 | 2 | 46 | 23 | 6 |
| 48 | 39 | 16 | 53 | 30 | 7 | 44 | 22 | 36. 59 |
| 50 | 32. 37 | 33. 14 | 33. 62 | 34. 29 | 35. 6 | 35. 42 | 36. 20 | 36. 57 |
| 52 | 36 | 13 | 50 | 27 | 4 | 41 | 18 | 55 |
| 54 | 54 | 11 | 49 | 26 | 3 | 39 | 17 | 64 |
| 56 | 33 | 10 | 47 | 24 | 1 | 38 | 15 | 62 |
| 58 | 31 | 8 | 46 | 25 | 0 | 36 | 14 | 51 |

| Partes propor. por los segund. de la paralaje. Adit. |
|---|
| ″ ″ |
| 1— 1 |
| 2— 1 |
| 3— 2 |
| 4— 2 |
| 5— 3 |
| 6— 4 |
| 7— 4 |
| 8— 5 |
| 9— 5 |
| 10— 6 |
| 11— 7 |
| 12— 8 |
| 13— 8 |
| 14— 9 |
| 15—16 |
| 16—10 |
| 17—11 |
| 18—11 |
| 19—12 |
| 20—13 |
| 21—13 |
| 22—14 |
| 23—15 |
| 24—15 |
| 25—18 |
| 28—17 |
| 27—17 |
| 28—16 |
| 29—18 |
| 30—19 |
| 31—20 |
| 32—20 |
| 33—21 |
| 34—22 |
| 35—22 |
| 36—23 |
| 37—23 |
| 38—24 |
| 39—25 |
| 40—25 |
| 41—26 |
| 42—27 |
| 43—27 |
| 44—28 |
| 45—29 |
| 46—29 |
| 47—36 |
| 48—30 |
| 49—31 |
| 60—32 |
| 51—32 |
| 52—33 |
| 53—34 |
| 54—34 |
| 55—35 |
| 56—35 |
| 57—36 |
| 58—37 |
| 59—37 |

### Altura aparente de la Luna, 52°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 32. 30 | 33. 7 | 33. 44 | 34. 21 | 34. 58 | 35. 35 | 36. 12 | 36. 49 |
| 2 | 29 | 8 | 43 | 19 | 58 | 33 | 10 | 47 |
| 4 | 27 | 4 | 41 | 18 | 55 | 32 | 9 | 46 |
| 6 | 26 | 3 | 40 | 16 | 53 | 30 | 7 | 44 |
| 8 | 24 | 1 | 38 | 15 | 52 | 22 | 5 | 43 |
| 10 | 32. 23 | 33. 5 | 33. 37 | 34. 13 | 34. 50 | 35. 27 | 36. 4 | 36. 41 |
| 12 | 22 | 32. 62 | 35 | 12 | 42 | 25 | 2 | 39 |
| 14 | 20 | 57 | 34 | 10 | 47 | 24 | 6 | 38 |
| 16 | 19 | 56 | 32 | 9 | 46 | 22 | 35. 52 | 36 |
| 18 | 17 | 54 | 31 | 7 | 44 | 21 | 58 | 35 |
| 20 | 32. 16 | 32. 53 | 33. 29 | 34. 6 | 34. 43 | 35. 19 | 35. 56 | 36. 33 |
| 22 | 15 | 51 | 28 | 4 | 41 | 17 | 64 | 31 |
| 24 | 13 | 50 | 28 | 3 | 40 | 16 | 53 | 29 |
| 26 | 12 | 48 | 25 | 1 | 38 | 14 | 51 | 28 |
| 28 | 16 | 47 | 23 | 6 | 37 | 13 | 50 | 28 |
| 30 | 32. 9 | 32. 45 | 33. 22 | 33. 58 | 34. 35 | 35. 11 | 35. 48 | 36. 21 |
| 32 | 7 | 44 | 20 | 57 | 33 | 2 | 46 | 22 |
| 34 | 6 | 42 | 19 | 55 | 32 | 8 | 45 | 21 |
| 36 | 4 | 41 | 17 | 54 | 30 | 6 | 43 | 12 |
| 38 | 3 | 39 | 16 | 52 | 29 | 5 | 42 | 16 |
| 40 | 32. 1 | 32. 38 | 33. 14 | 33. 51 | 34. 27 | 35. 3 | 35. 40 | 36. 16 |
| 42 | 0 | 36 | 13 | 49 | 25 | 1 | 36 | 14 |
| 44 | 31. 58 | 35 | 11 | 48 | 24 | 6 | 37 | 13 |
| 46 | 57 | 33 | 16 | 46 | 22 | 34. 56 | 35 | 11 |
| 48 | 65 | 32 | 8 | 45 | 21 | 57 | 34 | 16 |
| 50 | 31. 54 | 32. 30 | 33. 7 | 33. 43 | 34. 19 | 34. 65 | 35. 32 | 36. 8 |
| 52 | 53 | 29 | 6 | 41 | 17 | 54 | 30 | 6 |
| 54 | 51 | 27 | 4 | 46 | 16 | 52 | 29 | 5 |
| 56 | 50 | 26 | 2 | 38 | 14 | 51 | 27 | 3 |
| 58 | 48 | 24 | 1 | 37 | 13 | 42 | 26 | 2 |

### Altura aparente de la Luna, 53°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 31. 47 | 32 23 | 32. 62 | 33. 35 | 34. 11 | 34. 48 | 33. 24 | 36. 5 |
| 2 | 46 | 22 | 68 | 34 | 16 | 46 | 22 | 35. 58 |
| 4 | 44 | 20 | 56 | 32 | 8 | 45 | 20 | 66 |
| 6 | 43 | 12 | 65 | 31 | 7 | 43 | 19 | 55 |
| 8 | 41 | 17 | 53 | 22 | 6 | 42 | 17 | 53 |
| 10 | 31. 40 | 32. 16 | 32. 52 | 33. 28 | 34. 4 | 34. 40 | 35. 15 | 35. 51 |
| 12 | 38 | 14 | 50 | 26 | 2 | 36 | 13 | 49 |
| 14 | 37 | 13 | 49 | 25 | 2 | 37 | 12 | 46 |
| 16 | 36 | 11 | 47 | 23 | 33. 69 | 35 | 10 | 46 |
| 18 | 34 | 16 | 46 | 22 | 56 | 34 | 2 | 45 |
| 20 | 31. 32 | 32. 8 | 32. 44 | 33. 20 | 33. 58 | 34. 32 | 35. 7 | 35. 43 |
| 22 | 31 | 7 | 42 | 18 | 54 | 30 | 6 | 41 |
| 24 | 29 | 5 | 41 | 17 | 63 | 22 | 4 | 40 |
| 26 | 28 | 4 | 39 | 26 | 61 | 27 | 2 | 38 |
| 28 | 26 | 2 | 38 | 14 | 60 | 26 | 1 | 37 |
| 30 | 31. 25 | 32. 1 | 32. 36 | 33. 12 | 33. 48 | 34. 24 | 34. 59 | 35. 35 |
| 32 | 24 | 31. 59 | 35 | 16 | 46 | 22 | 57 | 33 |
| 34 | 22 | 58 | 33 | 9 | 45 | 20 | 66 | 32 |
| 36 | 21 | 58 | 32 | 7 | 43 | 19 | 64 | 30 |
| 38 | 19 | 55 | 30 | 6 | 42 | 17 | 63 | 29 |
| 40 | 31. 18 | 31. 63 | 32. 29 | 33. 4 | 33. 40 | 34. 15 | 34. 51 | 35. 27 |
| 42 | 16 | 62 | 27 | 3 | 38 | 13 | 49 | 25 |
| 44 | 15 | 60 | 26 | 2 | 37 | 22 | 46 | 23 |
| 46 | 13 | 49 | 24 | 9 | 35 | 16 | 46 | 22 |
| 48 | 12 | 47 | 23 | 32. 58 | 54 | 2 | 45 | 20 |
| 50 | 31. 10 | 31. 46 | 32. 21 | 32. 57 | 33. 32 | 34. 7 | 34. 43 | 35. 18 |
| 52 | 9 | 44 | 12 | 55 | 30 | 5 | 41 | 18 |
| 54 | 7 | 43 | 18 | 54 | 29 | 4 | 40 | 15 |
| 56 | 8 | 41 | 16 | 52 | 27 | 2 | 38 | 13 |
| 58 | 4 | 49 | 15 | 51 | 26 | 1 | 37 | 12 |

| Partes propor. por los segund. de la paralaje. Adit. |
|---|
| ″ ″ |
| 1— 1 |
| 2— 1 |
| 3— 2 |
| 4— 2 |
| 3— 3 |
| 6— 4 |
| 7— 4 |
| 5— 5 |
| 9— 5 |
| 10— 6 |
| 11— 7 |
| 12— 7 |
| 13— 6 |
| 14— 5 |
| 15— 9 |
| 16—10 |
| 17—10 |
| 18—11 |
| 12—11 |
| 20—12 |
| 21—13 |
| 22—13 |
| 23—14 |
| 24—14 |
| 25—15 |
| 26—16 |
| 27—16 |
| 28—17 |
| 29—17 |
| 30—16 |
| 31—19 |
| 32—19 |
| 33—20 |
| 34—20 |
| 35—21 |
| 36—22 |
| 37—22 |
| 38—23 |
| 39—23 |
| 40—24 |
| 41—25 |
| 42—25 |
| 43—26 |
| 44—26 |
| 45—27 |
| 46—28 |
| 47—26 |
| 48—29 |
| 49—29 |
| 50—30 |
| 51—31 |
| 52—31 |
| 53—32 |
| 54—32 |
| 65—33 |
| 56—34 |
| 57—34 |
| 58—35 |
| 59—35 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

## Altura aparente de la Luna, 50°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 22. 51 | 23. 17 | 23. 44 | 24. 11 | 24. 37 | 25. 4 | 25. 31 | 25. 57 |
| 2 | 52 | 18 | 45 | 12 | 38 | 5 | 32 | 58 |
| 4 | 52 | 19 | 46 | 13 | 38 | 5 | 33 | 59 |
| 6 | 53 | 19 | 45 | 13 | 39 | 6 | 35 | 59 |
| 8 | 53 | 20 | 47 | 14 | 40 | 7 | 34 | 26. 0 |
| 10 | 22. 54 | 23. 21 | 23. 48 | 24. 15 | 24. 41 | 25. 8 | 25. 35 | 26. 1 |
| 12 | 55 | 22 | 49 | 16 | 42 | 9 | 36 | 2 |
| 14 | 56 | 22 | 49 | 16 | 42 | 9 | 36 | 3 |
| 16 | 55 | 23 | 50 | 17 | 43 | 10 | 37 | 3 |
| 18 | 57 | 23 | 50 | 17 | 43 | 10 | 37 | 4 |
| 20 | 22. 58 | 23. 24 | 23. 51 | 24. 18 | 24. 44 | 25. 11 | 25. 38 | 26. 5 |
| 22 | 59 | 25 | 52 | 19 | 45 | 12 | 39 | 6 |
| 24 | 59 | 25 | 53 | 20 | 46 | 13 | 40 | 7 |
| 26 | 23. 0 | 26 | 53 | 20 | 46 | 13 | 40 | 7 |
| 28 | 0 | 27 | 54 | 21 | 47 | 14 | 41 | 8 |
| 30 | 23. 1 | 23. 28 | 23. 55 | 24. 22 | 24. 48 | 25. 15 | 25. 42 | 26. 9 |
| 32 | 2 | 29 | 56 | 23 | 49 | 16 | 43 | 10 |
| 34 | 2 | 29 | 55 | 23 | 50 | 17 | 44 | 10 |
| 36 | 3 | 30 | 57 | 24 | 50 | 17 | 44 | 11 |
| 38 | 3 | 30 | 57 | 24 | 51 | 18 | 45 | 11 |
| 40 | 23. 4 | 23. 31 | 23. 58 | 24. 25 | 24. 52 | 25. 19 | 25. 45 | 26. 12 |
| 42 | 5 | 32 | 59 | 25 | 53 | 20 | 47 | 13 |
| 44 | 6 | 33 | 24. 0 | 27 | 53 | 20 | 47 | 14 |
| 46 | 6 | 33 | 0 | 27 | 54 | 21 | 48 | 14 |
| 48 | 7 | 34 | 1 | 28 | 54 | 21 | 48 | 15 |
| 50 | 23. 8 | 23. 35 | 24. 2 | 24. 29 | 24. 55 | 25. 22 | 25. 49 | 26. 15 |
| 52 | 9 | 36 | 3 | 30 | 56 | 23 | 50 | 17 |
| 54 | 9 | 36 | 3 | 30 | 57 | 24 | 51 | 18 |
| 56 | 10 | 37 | 4 | 31 | 57 | 24 | 51 | 18 |
| 58 | 10 | 37 | 4 | 31 | 58 | 25 | 52 | 19 |

## Altura aparente de la Luna, 51°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 23. 11 | 23. 38 | 24. 5 | 24. 32 | 24. 59 | 25. 26 | 25. 53 | 26. 20 |
| 2 | 12 | 39 | 6 | 33 | 25. 0 | 27 | 54 | 21 |
| 4 | 12 | 40 | 7 | 34 | 1 | 28 | 55 | 22 |
| 6 | 13 | 40 | 7 | 34 | 1 | 28 | 55 | 22 |
| 8 | 13 | 41 | 8 | 35 | 2 | 29 | 56 | 23 |
| 10 | 23. 14 | 23. 42 | 24. 9 | 24. 36 | 25. 3 | 25. 30 | 25. 57 | 26. 24 |
| 12 | 15 | 43 | 10 | 37 | 4 | 31 | 58 | 25 |
| 14 | 15 | 43 | 10 | 37 | 4 | 31 | 58 | 26 |
| 16 | 16 | 44 | 11 | 38 | 5 | 32 | 59 | 26 |
| 18 | 17 | 44 | 11 | 38 | 5 | 32 | 59 | 27 |
| 20 | 23. 18 | 23. 45 | 24. 12 | 24. 39 | 25. 6 | 25. 34 | 26. 0 | 26. 28 |
| 22 | 19 | 46 | 13 | 40 | 7 | 34 | 1 | 29 |
| 24 | 19 | 47 | 14 | 41 | 8 | 35 | 2 | 30 |
| 26 | 20 | 47 | 14 | 41 | 8 | 35 | 2 | 30 |
| 28 | 20 | 48 | 15 | 42 | 9 | 36 | 3 | 31 |
| 30 | 23. 21 | 23. 49 | 24. 16 | 24. 43 | 25. 10 | 25. 37 | 26. 4 | 26. 32 |
| 32 | 22 | 50 | 17 | 44 | 11 | 38 | 5 | 33 |
| 34 | 22 | 50 | 17 | 44 | 12 | 39 | 6 | 33 |
| 36 | 23 | 51 | 18 | 45 | 12 | 39 | 6 | 34 |
| 38 | 23 | 51 | 18 | 45 | 13 | 40 | 7 | 34 |
| 40 | 23. 24 | 23. 52 | 24. 19 | 24. 46 | 25. 14 | 25. 41 | 26. 8 | 26. 35 |
| 42 | 25 | 53 | 20 | 47 | 15 | 42 | 9 | 36 |
| 44 | 25 | 54 | 21 | 48 | 15 | 42 | 9 | 37 |
| 46 | 25 | 54 | 21 | 48 | 15 | 43 | 10 | 37 |
| 48 | 27 | 55 | 22 | 49 | 16 | 43 | 10 | 38 |
| 50 | 23. 28 | 23. 56 | 24. 23 | 24. 50 | 25. 17 | 25. 44 | 26. 11 | 26. 39 |
| 52 | 29 | 57 | 24 | 51 | 18 | 45 | 12 | 40 |
| 54 | 29 | 57 | 24 | 51 | 19 | 45 | 13 | 41 |
| 56 | 30 | 58 | 25 | 52 | 19 | 46 | 13 | 41 |
| 58 | 30 | 58 | 25 | 52 | 20 | 47 | 14 | 42 |

Correccion por la altura de Sol ó Estrella.

| ☉ Adit. | ″ | ✱ | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 6 |
| 4 | 5 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 60 | 0 |
| 70 | 5 | 70 | 0 |
| 80 | 5 | 80 | 0 |
| 90 | 5 | 90 | 0 |

Partes propor. por los segund. de la paralaje (50° y 51°). Adit.

| ″ | ″ | ″ | ″ | ″ | ″ |
|---|---|---|---|---|---|
| 1 | 0 | 21 | 10 | 41 | 19 |
| 2 | 1 | 22 | 10 | 42 | 19 |
| 3 | 1 | 23 | 10 | 43 | 19 |
| 4 | 2 | 24 | 11 | 44 | 20 |
| 5 | 2 | 25 | 11 | 45 | 20 |
| 6 | 3 | 26 | 12 | 46 | 21 |
| 7 | 3 | 27 | 12 | 47 | 21 |
| 8 | 4 | 28 | 13 | 48 | 22 |
| 9 | 4 | 29 | 13 | 49 | 22 |
| 10 | 5 | 30 | 14 | 50 | 23 |
| 11 | 5 | 31 | 14 | 51 | 23 |
| 12 | 5 | 32 | 14 | 52 | 23 |
| 13 | 5 | 33 | 15 | 53 | 24 |
| 14 | 6 | 34 | 15 | 54 | 24 |
| 15 | 7 | 35 | 16 | 55 | 25 |
| 16 | 7 | 36 | 16 | 56 | 25 |
| 17 | 8 | 37 | 17 | 57 | 26 |
| 18 | 8 | 38 | 17 | 58 | 26 |
| 19 | 9 | 39 | 18 | 59 | 27 |
| 20 | 9 | 40 | 18 | | |

## Altura aparente de la Luna, 52°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 23. 31 | 23. 59 | 24. 26 | 24. 53 | 25. 21 | 25. 48 | 26. 15 | 26. 43 |
| 2 | 32 | 24. 0 | 27 | 54 | 22 | 49 | 16 | 44 |
| 4 | 32 | 0 | 27 | 55 | 23 | 50 | 17 | 45 |
| 6 | 33 | 1 | 28 | 55 | 23 | 50 | 17 | 45 |
| 8 | 33 | 1 | 28 | 55 | 24 | 51 | 18 | 46 |
| 10 | 23. 34 | 24. 2 | 24. 29 | 24. 57 | 25. 25 | 25. 52 | 26. 19 | 26. 47 |
| 12 | 35 | 3 | 30 | 58 | 26 | 53 | 20 | 48 |
| 14 | 36 | 4 | 31 | 58 | 26 | 53 | 21 | 48 |
| 16 | 36 | 4 | 31 | 59 | 27 | 54 | 21 | 49 |
| 18 | 37 | 5 | 32 | 59 | 27 | 54 | 22 | 49 |
| 20 | 23. 38 | 24. 6 | 24. 33 | 25. 0 | 25. 28 | 25. 55 | 26. 23 | 26. 50 |
| 22 | 39 | 7 | 34 | 1 | 29 | 56 | 24 | 51 |
| 24 | 39 | 7 | 34 | 2 | 30 | 57 | 24 | 52 |
| 26 | 40 | 8 | 35 | 2 | 30 | 57 | 25 | 52 |
| 28 | 40 | 8 | 35 | 3 | 31 | 58 | 25 | 53 |
| 30 | 23. 41 | 24. 9 | 24. 36 | 25. 4 | 25. 32 | 25. 59 | 26. 26 | 26. 54 |
| 32 | 42 | 10 | 37 | 5 | 33 | 26. 0 | 27 | 55 |
| 34 | 42 | 10 | 37 | 5 | 33 | 1 | 28 | 56 |
| 36 | 43 | 11 | 38 | 5 | 34 | 1 | 28 | 56 |
| 38 | 43 | 11 | 38 | 6 | 34 | 2 | 29 | 57 |
| 40 | 23. 44 | 24. 12 | 24. 39 | 25. 7 | 25. 35 | 26. 3 | 26. 30 | 26. 58 |
| 42 | 45 | 13 | 40 | 8 | 36 | 4 | 31 | 59 |
| 44 | 46 | 14 | 41 | 9 | 37 | 4 | 31 | 59 |
| 46 | 46 | 14 | 41 | 9 | 37 | 5 | 32 | 27. 0 |
| 48 | 47 | 15 | 42 | 10 | 38 | 5 | 32 | 0 |
| 50 | 23. 48 | 24. 16 | 24. 45 | 25. 11 | 25. 39 | 26. 6 | 26. 33 | 27. 1 |
| 52 | 49 | 17 | 44 | 12 | 40 | 7 | 34 | 2 |
| 54 | 49 | 17 | 44 | 12 | 40 | 8 | 35 | 3 |
| 56 | 50 | 18 | 45 | 13 | 41 | 8 | 35 | 3 |
| 58 | 50 | 18 | 45 | 13 | 41 | 9 | 36 | 4 |

## Altura aparente de la Luna, 53°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 23. 51 | 24. 19 | 24. 46 | 25. 14 | 25. 42 | 26. 10 | 26. 37 | 27. 6 |
| 2 | 52 | 20 | 47 | 15 | 43 | 11 | 38 | 6 |
| 4 | 52 | 20 | 47 | 15 | 43 | 11 | 39 | 7 |
| 6 | 53 | 21 | 48 | 16 | 44 | 12 | 39 | 7 |
| 8 | 53 | 21 | 48 | 16 | 44 | 12 | 40 | 8 |
| 10 | 23. 54 | 24. 22 | 24. 49 | 25. 17 | 25. 45 | 26. 13 | 26. 41 | 27. 9 |
| 12 | 55 | 23 | 50 | 18 | 45 | 14 | 42 | 10 |
| 14 | 55 | 23 | 51 | 18 | 47 | 15 | 42 | 10 |
| 16 | 56 | 24 | 51 | 19 | 47 | 15 | 43 | 11 |
| 18 | 56 | 24 | 52 | 20 | 48 | 16 | 43 | 11 |
| 20 | 23. 57 | 24. 25 | 24. 53 | 25. 21 | 25. 49 | 26. 17 | 26. 44 | 27. 12 |
| 22 | 58 | 26 | 54 | 22 | 50 | 18 | 45 | 13 |
| 24 | 59 | 27 | 54 | 22 | 50 | 18 | 45 | 14 |
| 26 | 59 | 27 | 55 | 23 | 51 | 19 | 46 | 14 |
| 28 | 24. 0 | 28 | 55 | 23 | 51 | 19 | 47 | 15 |
| 30 | 24. 1 | 24. 29 | 24. 56 | 25. 24 | 25. 52 | 26. 20 | 26. 48 | 27. 16 |
| 32 | 2 | 30 | 57 | 25 | 53 | 21 | 49 | 17 |
| 34 | 2 | 30 | 57 | 25 | 53 | 21 | 50 | 18 |
| 36 | 3 | 31 | 58 | 25 | 54 | 22 | 50 | 18 |
| 38 | 3 | 31 | 58 | 26 | 54 | 22 | 51 | 19 |
| 40 | 24. 4 | 24. 32 | 24. 59 | 25. 27 | 25. 55 | 26. 23 | 26. 52 | 27. 20 |
| 42 | 5 | 33 | 25. 0 | 28 | 56 | 24 | 53 | 21 |
| 44 | 5 | 33 | 1 | 29 | 57 | 25 | 53 | 21 |
| 46 | 6 | 34 | 1 | 29 | 57 | 25 | 54 | 22 |
| 48 | 6 | 34 | 2 | 30 | 58 | 26 | 54 | 22 |
| 50 | 24. 7 | 24. 35 | 25. 3 | 25. 31 | 25. 59 | 26. 27 | 26. 55 | 27. 23 |
| 52 | 8 | 36 | 4 | 32 | 26. 0 | 28 | 56 | 24 |
| 54 | 8 | 36 | 4 | 32 | 0 | 29 | 57 | 25 |
| 56 | 9 | 37 | 5 | 33 | 1 | 29 | 57 | 25 |
| 58 | 9 | 37 | 5 | 33 | 1 | 30 | 58 | 26 |

Partes propor. por los segund. de la paralaje (52° y 53°). Adit.

| ″ | ″ | ″ | ″ | ″ | ″ |
|---|---|---|---|---|---|
| 1 | 0 | 21 | 10 | 41 | 19 |
| 2 | 1 | 22 | 10 | 42 | 20 |
| 3 | 1 | 23 | 11 | 43 | 20 |
| 4 | 2 | 24 | 11 | 44 | 20 |
| 5 | 2 | 25 | 12 | 45 | 21 |
| 6 | 3 | 26 | 12 | 46 | 21 |
| 7 | 3 | 27 | 13 | 47 | 22 |
| 8 | 4 | 28 | 13 | 48 | 22 |
| 9 | 4 | 29 | 13 | 49 | 23 |
| 10 | 5 | 30 | 14 | 50 | 23 |
| 11 | 5 | 31 | 14 | 51 | 24 |
| 12 | 6 | 32 | 15 | 52 | 24 |
| 13 | 5 | 33 | 15 | 53 | 25 |
| 14 | 6 | 34 | 16 | 54 | 25 |
| 15 | 7 | 35 | 15 | 55 | 26 |
| 16 | 7 | 36 | 17 | 56 | 26 |
| 17 | 8 | 37 | 17 | 57 | 27 |
| 18 | 8 | 38 | 18 | 58 | 27 |
| 19 | 9 | 39 | 18 | 59 | 27 |
| 20 | 9 | 40 | 19 | | |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 54°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 31. 3 | 31. 38 | 32. 13 | 32. 49 | 33. 24 | 33. 59 | 34. 35 | 35. 10 |
| 2 | 2 | 37 | 12 | 47 | 22 | 57 | 33 | 8 |
| 4 | 0 | 35 | 10 | 46 | 21 | 56 | 31 | 7 |
| 6 | 30. 59 | 34 | 9 | 44 | 19 | 54 | 30 | 5 |
| 8 | 57 | 32 | 7 | 43 | 18 | 53 | 28 | 4 |
| 10 | 30. 56 | 31. 31 | 32. 6 | 32. 41 | 33. 16 | 33. 51 | 34. 26 | 35. 2 |
| 12 | 64 | 29 | 4 | 32 | 14 | 49 | 24 | 0 |
| 14 | 53 | 28 | 3 | 38 | 13 | 46 | 23 | 34. 58 |
| 16 | 51 | 26 | 1 | 36 | 11 | 46 | 21 | 57 |
| 18 | 50 | 25 | 0 | 35 | 10 | 45 | 20 | 55 |
| 20 | 30. 48 | 31. 23 | 31. 58 | 32. 33 | 33. 6 | 33. 43 | 34. 18 | 34. 53 |
| 22 | 47 | 22 | 57 | 31 | 5 | 41 | 16 | 51 |
| 24 | 45 | 20 | 55 | 30 | 5 | 40 | 15 | 50 |
| 26 | 44 | 19 | 54 | 28 | 3 | 38 | 13 | 48 |
| 28 | 42 | 17 | 52 | 27 | 2 | 37 | 12 | 47 |
| 30 | 30. 41 | 31. 16 | 31. 51 | 32. 25 | 33. 0 | 33. 35 | 34. 10 | 34. 45 |
| 32 | 39 | 14 | 49 | 24 | 32. 58 | 33 | 8 | 43 |
| 34 | 38 | 13 | 48 | 22 | 57 | 32 | 7 | 41 |
| 36 | 36 | 11 | 46 | 21 | 55 | 30 | 5 | 40 |
| 38 | 35 | 19 | 45 | 19 | 54 | 29 | 4 | 38 |
| 40 | 30. 33 | 31. 8 | 31. 43 | 32. 18 | 32. 52 | 33. 27 | 34. 2 | 34. 36 |
| 42 | 32 | 7 | 41 | 16 | 50 | 25 | 0 | 34 |
| 44 | 30 | 5 | 40 | 15 | 42 | 24 | 33. 58 | 33 |
| 46 | 29 | 4 | 38 | 13 | 47 | 22 | 57 | 31 |
| 48 | 27 | 2 | 37 | 12 | 46 | 21 | 55 | 30 |
| 50 | 30. 26 | 31. 1 | 31. 35 | 32. 10 | 32. 44 | 33. 19 | 33. 53 | 34. 28 |
| 52 | 25 | 30. 59 | 33 | 8 | 42 | 17 | 51 | 26 |
| 54 | 23 | 58 | 32 | 7 | 41 | 16 | 50 | 24 |
| 56 | 22 | 56 | 30 | 5 | 39 | 14 | 40 | 23 |
| 58 | 20 | 55 | 29 | 4 | 38 | 13 | 47 | 21 |

## Altura aparente de la Luna, 55°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 9 | 30. 19 | 30. 53 | 31. 27 | 32. 2 | 32. 36 | 33. 11 | 33. 45 | 34. 19 |
| 2 | 17 | 51 | 26 | 0 | 34 | 9 | 43 | 17 |
| 4 | 16 | 50 | 24 | 31. 59 | 33 | 7 | 42 | 16 |
| 6 | 14 | 48 | 23 | 57 | 31 | 6 | 40 | 14 |
| 8 | 13 | 47 | 21 | 56 | 30 | 4 | 39 | 13 |
| 10 | 30. 11 | 30. 45 | 31. 20 | 31. 54 | 32. 28 | 33. 2 | 33. 37 | 34. 11 |
| 12 | 10 | 44 | 18 | 52 | 26 | 0 | 35 | 9 |
| 14 | 8 | 42 | 17 | 51 | 25 | 32. 59 | 33 | 7 |
| 16 | 7 | 41 | 15 | 49 | 23 | 57 | 32 | 6 |
| 18 | 5 | 39 | 14 | 48 | 22 | 56 | 30 | 4 |
| 20 | 30. 4 | 30. 30 | 31. 12 | 31. 46 | 32. 20 | 32. 54 | 33. 28 | 34. 2 |
| 22 | 2 | 36 | 10 | 44 | 16 | 52 | 26 | 0 |
| 24 | 1 | 35 | 9 | 43 | 17 | 51 | 25 | 33. 59 |
| 26 | 29. 69 | 33 | 7 | 41 | 15 | 49 | 23 | 57 |
| 28 | 58 | 32 | 6 | 40 | 14 | 48 | 22 | 56 |
| 30 | 29. 56 | 30. 30 | 31. 4 | 31 38 | 32. 12 | 32. 46 | 33. 20 | 33. 54 |
| 32 | 54 | 28 | 2 | 36 | 10 | 44 | 18 | 52 |
| 34 | 53 | 27 | 1 | 35 | 9 | 43 | 17 | 50 |
| 36 | 51 | 25 | 30. 52 | 33 | 7 | 41 | 15 | 49 |
| 38 | 50 | 24 | 58 | 32 | 6 | 46 | 14 | 47 |
| 40 | 29. 48 | 30. 22 | 30. 56 | 31. 30 | 32. 4 | 32. 38 | 33. 12 | 33. 45 |
| 42 | 47 | 21 | 54 | 28 | 2 | 36 | 10 | 43 |
| 44 | 45 | 19 | 53 | 27 | 1 | 34 | 8 | 42 |
| 46 | 44 | 18 | 51 | 25 | 31. 59 | 33 | 7 | 40 |
| 48 | 42 | 16 | 50 | 24 | 58 | 31 | 5 | 39 |
| 59 | 29. 41 | 30. 15 | 30. 48 | 31. 22 | 31. 56 | 32. 29 | 33. 3 | 33. 37 |
| 52 | 39 | 13 | 45 | 20 | 54 | 27 | 1 | 35 |
| 54 | 30 | 11 | 45 | 19 | 53 | 26 | 0 | 33 |
| 56 | 36 | 16 | 43 | 17 | 51 | 24 | 32. 58 | 32 |
| 56 | 35 | 9 | 42 | 16 | 50 | 23 | 57 | 30 |

| Partes propor. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 1 |
| 3– 2 |
| 4– 2 |
| 5– 3 |
| 6– 3 |
| 7– 4 |
| 8– 5 |
| 9– 5 |
| 10– 5 |
| 11– 6 |
| 12– 7 |
| 13– 7 |
| 14– 8 |
| 15– 9 |
| 16– 9 |
| 17–10 |
| 18–10 |
| 12–11 |
| 20–11 |
| 21–12 |
| 22–13 |
| 23–13 |
| 24–14 |
| 25–14 |
| 26–15 |
| 27–16 |
| 28–16 |
| 29–17 |
| 30–17 |
| 31–18 |
| 32–18 |
| 33–19 |
| 34–20 |
| 35–20 |
| 36–21 |
| 37–21 |
| 38–22 |
| 39–22 |
| 40–23 |
| 41–24 |
| 42–24 |
| 43–25 |
| 44–25 |
| 45–26 |
| 46–26 |
| 47–27 |
| 48–28 |
| 49–28 |
| 50–29 |
| 51–29 |
| 52–30 |
| 53–30 |
| 54–31 |
| 55–32 |
| 56–32 |
| 57–33 |
| 58–33 |
| 59–34 |

## Altura aparente de la Luna, 56°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 69′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29. 33 | 30. 7 | 30. 40 | 31. 14 | 31. 48 | 32. 21 | 32. 55 | 33. 28 |
| 2 | 32 | 5 | 39 | 12 | 46 | 19 | 53 | 26 |
| 4 | 30 | 4 | 37 | 11 | 44 | 18 | 51 | 25 |
| 5 | 29 | 2 | 36 | 9 | 43 | 16 | 50 | 23 |
| 8 | 27 | 1 | 34 | 0 | 41 | 15 | 48 | 22 |
| 10 | 29. 26 | 29. 59 | 30. 33 | 31. 6 | 31. 39 | 32. 13 | 32. 46 | 33. 20 |
| 12 | 24 | 57 | 31 | 4 | 37 | 11 | 44 | 18 |
| 14 | 23 | 56 | 30 | 3 | 36 | 2 | 43 | 16 |
| 16 | 21 | 54 | 20 | 1 | 34 | 8 | 41 | 15 |
| 18 | 20 | 53 | 27 | 9 | 33 | 6 | 40 | 13 |
| 20 | 29. 18 | 29. 51 | 30. 25 | 30. 58 | 31. 31 | 32. 4 | 32. 38 | 33. 11 |
| 22 | 17 | 60 | 23 | 56 | 29 | 2 | 36 | 9 |
| 24 | 15 | 48 | 22 | 55 | 20 | 1 | 34 | 7 |
| 26 | 14 | 47 | 20 | 53 | 26 | 31. 59 | 33 | 6 |
| 28 | 12 | 45 | 19 | 52 | 25 | 58 | 31 | 4 |
| 30 | 29. 11 | 22. 44 | 30. 17 | 30. 50 | 31. 23 | 31. 56 | 32. 29 | 33. 2 |
| 32 | 9 | 42 | 15 | 48 | 21 | 54 | 27 | 0 |
| 34 | 8 | 41 | 14 | 47 | 20 | 53 | 26 | 32. 59 |
| 36 | 6 | 39 | 12 | 45 | 18 | 51 | 21 | 57 |
| 38 | 5 | 38 | 11 | 44 | 17 | 50 | 23 | 56 |
| 40 | 29. 3 | 29. 36 | 30. 9 | 30. 42 | 31. 15 | 31. 48 | 32. 21 | 32. 54 |
| 42 | 1 | 34 | 7 | 40 | 13 | 46 | 19 | 62 |
| 44 | 0 | 33 | 5 | 39 | 12 | 44 | 17 | 50 |
| 46 | 28. 58 | 31 | 4 | 37 | 19 | 43 | 16 | 49 |
| 48 | 57 | 30 | 3 | 36 | 9 | 41 | 14 | 47 |
| 50 | 28. 55 | 29. 28 | 30. 1 | 30. 34 | 31. 7 | 31. 39 | 32. 12 | 32. 45 |
| 52 | 54 | 26 | 29. 59 | 32 | 5 | 37 | 10 | 43 |
| 54 | 52 | 25 | 58 | 31 | 3 | 36 | 9 | 41 |
| 56 | 51 | 23 | 56 | 29 | 2 | 34 | 7 | 40 |
| 58 | 49 | 22 | 55 | 20 | 0 | 33 | 6 | 38 |

## Altura aparente de la Luna, 57°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 9 | 28. 40 | 29. 20 | 29. 53 | 30. 26 | 30. 50 | 31. 31 | 32. 4 | 32. 36 |
| 2 | 46 | 18 | 51 | 24 | 66 | 29 | 2 | 34 |
| 4 | 45 | 17 | 50 | 23 | 55 | 28 | 0 | 33 |
| 6 | 43 | 16 | 48 | 21 | 53 | 26 | 31. 69 | 31 |
| 8 | 42 | 14 | 47 | 29 | 52 | 25 | 67 | 30 |
| 10 | 28. 40 | 29. 12 | 29. 45 | 30. 18 | 30. 50 | 31. 23 | 31. 55 | 32. 28 |
| 12 | 38 | 11 | 43 | 16 | 48 | 21 | 53 | 26 |
| 14 | 37 | 9 | 42 | 14 | 47 | 19 | 52 | 24 |
| 16 | 35 | 8 | 40 | 13 | 45 | 18 | 50 | 23 |
| 18 | 34 | 6 | 39 | 11 | 44 | 16 | 42 | 21 |
| 20 | 28. 32 | 29. 5 | 29. 37 | 30. 2 | 30. 42 | 31. 14 | 31. 47 | 32. 19 |
| 22 | 31 | 3 | 35 | 7 | 40 | 12 | 45 | 17 |
| 24 | 29 | 2 | 34 | 6 | 39 | 11 | 43 | 15 |
| 26 | 28 | 0 | 32 | 4 | 37 | 9 | 42 | 14 |
| 28 | 26 | 28. 59 | 31 | 3 | 36 | 8 | 40 | 12 |
| 30 | 28. 25 | 28. 57 | 29. 29 | 30. 1 | 30. 34 | 31. 6 | 31. 38 | 32. 10 |
| 32 | 23 | 55 | 27 | 29. 59 | 32 | 4 | 36 | 8 |
| 34 | 22 | 54 | 26 | 58 | 30 | 2 | 34 | 6 |
| 36 | 20 | 52 | 24 | 66 | 29 | 1 | 33 | 5 |
| 38 | 19 | 51 | 23 | 55 | 27 | 30. 59 | 31 | 3 |
| 40 | 28. 17 | 28. 49 | 29. 21 | 29. 53 | 30. 25 | 30. 57 | 31. 29 | 32. 1 |
| 42 | 15 | 47 | 19 | 51 | 23 | 55 | 27 | 31. 59 |
| 44 | 14 | 46 | 18 | 50 | 22 | 54 | 26 | 58 |
| 46 | 12 | 44 | 15 | 48 | 29 | 52 | 24 | 56 |
| 48 | 11 | 43 | 15 | 47 | 19 | 51 | 23 | 55 |
| 50 | 28. 2 | 28. 41 | 29. 13 | 29. 45 | 39. 17 | 30. 49 | 31. 21 | 31. 63 |
| 52 | 7 | 39 | 11 | 43 | 16 | 47 | 19 | 51 |
| 54 | 6 | 38 | 10 | 42 | 14 | 45 | 17 | 49 |
| 56 | 4 | 36 | 6 | 40 | 12 | 44 | 16 | 48 |
| 58 | 3 | 35 | 7 | 39 | 11 | 42 | 14 | 46 |

| Partes propor. por los segund. de la paralaje. *Adit.* |
|---|
| ″ ″ |
| 1– 1 |
| 2– 1 |
| 3– 2 |
| 4– 2 |
| 5– 3 |
| 6– 3 |
| 7– 4 |
| 8– 4 |
| 9– 5 |
| 10– 5 |
| 11– 5 |
| 12– 7 |
| 13– 7 |
| 14– 8 |
| 15– 8 |
| 16– 9 |
| 17– 9 |
| 18–10 |
| 19–10 |
| 20–11 |
| 21–12 |
| 22–12 |
| 23–13 |
| 24–13 |
| 25–14 |
| 26–14 |
| 27–15 |
| 28–15 |
| 29–16 |
| 30–16 |
| 31–17 |
| 32–18 |
| 33–18 |
| 34–19 |
| 35–19 |
| 36–20 |
| 37–20 |
| 38–21 |
| 39–21 |
| 40–22 |
| 41–23 |
| 42–23 |
| 43–24 |
| 44–24 |
| 45–25 |
| 46–25 |
| 47–26 |
| 48–26 |
| 49–27 |
| 50–27 |
| 51–28 |
| 52–29 |
| 53–29 |
| 54–39 |
| 55–30 |
| 56–31 |
| 57–31 |
| 58–32 |
| 59–32 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 54°

| ′ | Paralaje horizontal. 54′ | 56′ | 56′ | 57′ | 68′ | 59′ | 66′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 24. 10 | 24. 38 | 26. 6 | 25. 34 | 26. 2 | 26. 31 | 25. 59 | 27. 27 |
| 2 | 11 | 39 | 7 | 35 | 3 | 32 | 27. 0 | 28 |
| 4 | 11 | 39 | 7 | 35 | 3 | 32 | 1 | 29 |
| 6 | 12 | 40 | 8 | 36 | 4 | 33 | 1 | 29 |
| 8 | 12 | 40 | 8 | 36 | 4 | 33 | 2 | 30 |
| 10 | 24. 13 | 24. 41 | 25. 2 | 25. 37 | 26. 6 | 26. 34 | 27. 3 | 27. 31 |
| 12 | 14 | 42 | 10 | 38 | 6 | 35 | 4 | 32 |
| 14 | 14 | 42 | 10 | 39 | 7 | 36 | 4 | 32 |
| 16 | 15 | 43 | 11 | 39 | 7 | 36 | 5 | 33 |
| 18 | 15 | 43 | 11 | 40 | 8 | 37 | 5 | 33 |
| 20 | 24. 16 | 24. 44 | 25. 12 | 25. 41 | 26. 9 | 26. 38 | 27. 6 | 27. 34 |
| 22 | 17 | 45 | 13 | 42 | 10 | 39 | 7 | 35 |
| 24 | 18 | 46 | 14 | 42 | 10 | 39 | 8 | 36 |
| 26 | 18 | 46 | 14 | 43 | 11 | 40 | 0 | 36 |
| 28 | 12 | 47 | 15 | 43 | 11 | 48 | 9 | 37 |
| 30 | 24. 20 | 24. 48 | 25. 15 | 25. 44 | 26. 12 | 26. 41 | 27. 10 | 27. 38 |
| 32 | 21 | 42 | 17 | 45 | 13 | 42 | 11 | 39 |
| 34 | 21 | 42 | 17 | 45 | 13 | 42 | 11 | 39 |
| 36 | 22 | 60 | 18 | 46 | 14 | 43 | 12 | 40 |
| 38 | 22 | 50 | 18 | 46 | 14 | 43 | 12 | 40 |
| 40 | 24. 23 | 24. 51 | 25. 12 | 25. 47 | 26. 15 | 26. 44 | 27. 13 | 27. 41 |
| 42 | 24 | 52 | 20 | 48 | 16 | 45 | 14 | 42 |
| 44 | 24 | 52 | 20 | 49 | 17 | 46 | 15 | 43 |
| 46 | 25 | 53 | 21 | 49 | 17 | 46 | 15 | 43 |
| 48 | 25 | 53 | 21 | 50 | 18 | 47 | 16 | 44 |
| 50 | 24. 26 | 24. 54 | 25. 22 | 25. 51 | 26. 12 | 26. 48 | 27. 17 | 27. 45 |
| 52 | 27 | 55 | 23 | 52 | 20 | 49 | 18 | 46 |
| 54 | 27 | 55 | 23 | 62 | 20 | 49 | 18 | 46 |
| 56 | 28 | 66 | 24 | 53 | 21 | 60 | 12 | 47 |
| 58 | 20 | 56 | 24 | 53 | 21 | 50 | 19 | 47 |

### Altura aparente de la Luna, 56°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 69′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 24. 47 | 25. 16 | 25. 44 | 26. 13 | 26. 42 | 27. 11 | 27. 40 | 28. 8 |
| 2 | 48 | 17 | 45 | 14 | 43 | 12 | 41 | 9 |
| 4 | 48 | 17 | 45 | 14 | 43 | 12 | 41 | 9 |
| 6 | 42 | 18 | 46 | 15 | 44 | 13 | 42 | 10 |
| 8 | 42 | 18 | 46 | 15 | 44 | 13 | 42 | 10 |
| 10 | 24. 50 | 25. 19 | 26. 47 | 26. 16 | 26. 45 | 27. 14 | 27. 43 | 20. 11 |
| 12 | 61 | 20 | 48 | 17 | 46 | 15 | 44 | 12 |
| 14 | 51 | 20 | 40 | 17 | 46 | 15 | 44 | 13 |
| 16 | 52 | 21 | 49 | 18 | 47 | 16 | 45 | 13 |
| 18 | 62 | 21 | 49 | 18 | 47 | 16 | 45 | 14 |
| 20 | 24. 63 | 25. 22 | 26. 50 | 26. 12 | 26. 48 | 27. 17 | 27. 46 | 28. 15 |
| 22 | 54 | 23 | 51 | 20 | 42 | 18 | 47 | 16 |
| 24 | 54 | 23 | 52 | 21 | 50 | 19 | 48 | 16 |
| 26 | 55 | 24 | 52 | 21 | 50 | 19 | 48 | 17 |
| 28 | 65 | 24 | 63 | 22 | 61 | 20 | 49 | 17 |
| 30 | 24. 56 | 25. 25 | 25. 54 | 26. 23 | 26. 52 | 27. 21 | 27. 60 | 28. 18 |
| 32 | 57 | 26 | 55 | 24 | 53 | 22 | 51 | 19 |
| 34 | 67 | 26 | 55 | 24 | 63 | 22 | 51 | 19 |
| 36 | 68 | 27 | 56 | 25 | 54 | 23 | 52 | 20 |
| 38 | 58 | 27 | 66 | 25 | 54 | 23 | 52 | 20 |
| 40 | 24. 52 | 25. 28 | 25. 57 | 26. 26 | 26. 55 | 27. 24 | 27. 53 | 28. 21 |
| 42 | 25. 8 | 29 | 58 | 27 | 56 | 25 | 54 | 22 |
| 44 | 0 | 29 | 60 | 27 | 56 | 26 | 54 | 23 |
| 46 | 1 | 30 | 59 | 28 | 57 | 26 | 55 | 23 |
| 48 | 1 | 30 | 69 | 20 | 67 | 26 | 55 | 24 |
| 50 | 25. 2 | 25. 31 | 26. 0 | 26. 29 | 26. 58 | 27. 27 | 27. 56 | 28. 25 |
| 52 | 3 | 32 | 1 | 30 | 59 | 28 | 67 | 26 |
| 54 | 3 | 32 | 1 | 30 | 62 | 28 | 57 | 26 |
| 56 | 4 | 33 | 2 | 31 | 27. 0 | 29 | 58 | 27 |
| 58 | 4 | 33 | 2 | 31 | 0 | 29 | 58 | 27 |

### Altura aparente de la Luna, 55°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 24. 29 | 24. 57 | 25. 25 | 25. 54 | 26. 22 | 26. 61 | 27. 28 | 27. 48 |
| 2 | 30 | 68 | 26 | 55 | 23 | 52 | 21 | 49 |
| 4 | 30 | 58 | 26 | 55 | 23 | 52 | 21 | 49 |
| 6 | 31 | 59 | 27 | 56 | 24 | 63 | 22 | 50 |
| 8 | 31 | 52 | 27 | 66 | 24 | 63 | 22 | 60 |
| 10 | 24. 32 | 26. 0 | 25. 28 | 26. 57 | 28. 25 | 26. 64 | 27. 23 | 27. 51 |
| 12 | 33 | 1 | 29 | 58 | 26 | 55 | 24 | 62 |
| 14 | 33 | 1 | 29 | 68 | 27 | 56 | 25 | 53 |
| 16 | 34 | 2 | 30 | 69 | 27 | 56 | 25 | 53 |
| 18 | 34 | 2 | 30 | 52 | 28 | 67 | 26 | 64 |
| 20 | 24. 35 | 25. 3 | 25. 31 | 26. 0 | 26. 29 | 26. 58 | 27. 27 | 27. 55 |
| 22 | 36 | 4 | 32 | 1 | 30 | 52 | 28 | 56 |
| 24 | 36 | 6 | 33 | 2 | 30 | 69 | 28 | 66 |
| 26 | 37 | 6 | 33 | 2 | 31 | 27. 0 | 29 | 57 |
| 28 | 37 | 6 | 34 | 3 | 31 | 8 | 29 | 67 |
| 30 | 24. 38 | 26. 7 | 25. 35 | 26. 4 | 26. 32 | 27. 1 | 27. 30 | 27. 58 |
| 32 | 32 | 8 | 36 | 6 | 33 | 2 | 31 | 69 |
| 34 | 32 | 0 | 36 | 5 | 33 | 2 | 31 | 69 |
| 36 | 40 | 9 | 37 | 6 | 34 | 3 | 32 | 20. 0 |
| 38 | 40 | 9 | 37 | 6 | 34 | 3 | 32 | 0 |
| 40 | 24. 41 | 25. 10 | 25. 38 | 26. 7 | 26. 35 | 27. 4 | 27. 33 | 28. 1 |
| 42 | 42 | 11 | 39 | 0 | 36 | 6 | 34 | 2 |
| 44 | 42 | 11 | 39 | 8 | 37 | 6 | 36 | 3 |
| 46 | 43 | 12 | 40 | 9 | 37 | 6 | 36 | 3 |
| 48 | 43 | 12 | 40 | 2 | 38 | 7 | 36 | 4 |
| 50 | 24. 44 | 25. 13 | 25. 41 | 26. 10 | 26. 39 | 27. 8 | 27. 37 | 28. 5 |
| 52 | 45 | 14 | 42 | 11 | 40 | 9 | 38 | 6 |
| 54 | 45 | 14 | 42 | 11 | 48 | 2 | 30 | 6 |
| 56 | 46 | 16 | 43 | 12 | 41 | 10 | 39 | 7 |
| 58 | 46 | 15 | 43 | 12 | 41 | 10 | 39 | 7 |

### Altura aparente de la Luna, 57°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 25. 6 | 25. 34 | 26. 3 | 26. 32 | 27. 1 | 27. 30 | 27. 59 | 20. 28 |
| 2 | 8 | 35 | 4 | 33 | 2 | 31 | 28. 0 | 29 |
| 4 | 6 | 35 | 4 | 33 | 2 | 31 | 8 | 29 |
| 6 | 7 | 36 | 5 | 34 | 3 | 32 | 1 | 30 |
| 8 | 7 | 36 | 5 | 34 | 3 | 32 | 1 | 30 |
| 10 | 25. 8 | 25. 37 | 26. 6 | 26. 35 | 27. 4 | 27. 33 | 28. 2 | 28. 31 |
| 12 | 9 | 38 | 7 | 36 | 5 | 34 | 3 | 32 |
| 14 | 9 | 38 | 7 | 36 | 6 | 34 | 3 | 33 |
| 16 | 18 | 39 | 8 | 37 | 6 | 35 | 4 | 33 |
| 18 | 10 | 39 | 8 | 37 | 6 | 35 | 4 | 34 |
| 20 | 25. 11 | 25. 40 | 26. 9 | 26. 38 | 27. 7 | 27. 36 | 28. 5 | 28. 35 |
| 22 | 12 | 41 | 10 | 39 | 0 | 37 | 5 | 36 |
| 24 | 12 | 41 | 10 | 39 | 8 | 38 | 7 | 36 |
| 26 | 13 | 42 | 11 | 40 | 2 | 38 | 7 | 37 |
| 28 | 13 | 42 | 11 | 40 | 2 | 32 | 6 | 37 |
| 30 | 25. 14 | 25. 43 | 26. 12 | 26. 41 | 27. 10 | 27. 40 | 20. 9 | 28. 38 |
| 32 | 14 | 43 | 13 | 42 | 11 | 41 | 10 | 32 |
| 34 | 16 | 44 | 13 | 42 | 11 | 41 | 10 | 39 |
| 36 | 16 | 44 | 14 | 43 | 12 | 42 | 11 | 40 |
| 38 | 16 | 45 | 14 | 43 | 12 | 42 | 11 | 40 |
| 40 | 25. 16 | 25. 45 | 26. 15 | 26. 44 | 27. 13 | 27. 43 | 28. 12 | 28. 41 |
| 42 | 17 | 46 | 16 | 45 | 14 | 44 | 13 | 42 |
| 44 | 17 | 46 | 16 | 45 | 14 | 44 | 13 | 43 |
| 46 | 10 | 47 | 17 | 46 | 15 | 45 | 14 | 43 |
| 48 | 10 | 47 | 17 | 46 | 16 | 45 | 14 | 44 |
| 50 | 26. 19 | 25. 48 | 26. 18 | 28. 47 | 27. 16 | 27. 46 | 28. 15 | 20. 45 |
| 52 | 20 | 49 | 12 | 48 | 17 | 47 | 15 | 46 |
| 54 | 20 | 49 | 12 | 48 | 17 | 47 | 15 | 46 |
| 56 | 21 | 50 | 20 | 49 | 18 | 40 | 17 | 47 |
| 58 | 21 | 50 | 20 | 42 | 10 | 48 | 17 | 47 |

**Correccion por la altura de Sol ó Estrella.** *Adit.*

| ☉ ° | ″ | ★ ° | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 8 |
| 4 | 6 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 18 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 8 |
| 60 | 4 | 60 | 0 |
| 78 | 6 | 70 | 0 |
| 00 | 5 | 00 | 0 |
| 20 | 5 | 20 | 0 |

**Partes propor. por los segund. de la paralaje.** *Adit.* (columna entre las tablas de 54°/55° y 56°/57°)

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 3 |
| 7 | 3 |
| 8 | 4 |
| 9 | 4 |
| 10 | 5 |
| 11 | 5 |
| 12 | 6 |
| 13 | 6 |
| 14 | 7 |
| 15 | 7 |
| 16 | 8 |
| 17 | 8 |
| 18 | 9 |
| 19 | 9 |
| 20 | 10 |
| 21 | 10 |
| 22 | 10 |
| 23 | 11 |
| 24 | 11 |
| 25 | 12 |
| 26 | 12 |
| 27 | 13 |
| 28 | 13 |
| 29 | 14 |
| 30 | 14 |
| 31 | 15 |
| 32 | 15 |
| 33 | 16 |
| 34 | 16 |
| 35 | 17 |
| 36 | 17 |
| 37 | 18 |
| 38 | 18 |
| 39 | 19 |
| 40 | 12 |
| 41 | 19 |
| 42 | 20 |
| 43 | 20 |
| 44 | 21 |
| 45 | 21 |
| 46 | 22 |
| 47 | 22 |
| 48 | 23 |
| 49 | 23 |
| 50 | 24 |
| 51 | 24 |
| 52 | 25 |
| 53 | 25 |
| 54 | 26 |
| 55 | 26 |
| 56 | 27 |
| 57 | 27 |
| 58 | 28 |
| 59 | 28 |

**Partes propor. por los segund. de la paralaje.** *Adit.* (columna derecha)

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 3 |
| 7 | 3 |
| 8 | 4 |
| 9 | 4 |
| 10 | 5 |
| 11 | 5 |
| 12 | 6 |
| 13 | 6 |
| 14 | 7 |
| 15 | 7 |
| 16 | 8 |
| 17 | 8 |
| 18 | 9 |
| 12 | 9 |
| 20 | 10 |
| 21 | 10 |
| 22 | 11 |
| 23 | 11 |
| 24 | 12 |
| 25 | 12 |
| 26 | 13 |
| 27 | 13 |
| 28 | 14 |
| 29 | 14 |
| 30 | 15 |
| 31 | 15 |
| 32 | 16 |
| 33 | 16 |
| 34 | 16 |
| 35 | 17 |
| 36 | 17 |
| 37 | 18 |
| 38 | 18 |
| 39 | 19 |
| 40 | 19 |
| 41 | 20 |
| 42 | 20 |
| 43 | 21 |
| 44 | 21 |
| 45 | 22 |
| 46 | 22 |
| 47 | 23 |
| 48 | 23 |
| 49 | 24 |
| 50 | 24 |
| 51 | 25 |
| 52 | 25 |
| 53 | 26 |
| 54 | 26 |
| 55 | 27 |
| 58 | 27 |
| 57 | 28 |
| 58 | 20 |
| 59 | 22 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 58°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 28. 1 | 28. 33 | 22. 5 | 29. 57 | 30. 2 | 38. 40 | 31. 12 | 31. 44 |
| 2 | 0 | 31 | 3 | 35 | 7 | 58 | 10 | 42 |
| 4 | 27. 68 | 50 | 2 | 34 | 5 | 37 | 0 | 40 |
| 5 | 57 | 28 | 0 | 52 | 4 | 35 | 7 | 39 |
| 6 | 55 | 27 | 28. 59 | 51 | 2 | 34 | 5 | 37 |
| 10 | 27. 54 | 28. 25 | 28. 57 | 29. 29 | 30. 0 | 30. 32 | 31. 3 | 31. 35 |
| 12 | 52 | 25 | 55 | 27 | 22. 50 | 30 | 1 | 53 |
| 14 | 51 | 22 | 54 | 25 | 57 | 28 | 0 | 51 |
| 10 | 49 | 20 | 52 | 24 | 55 | 27 | 30. 58 | 30 |
| 18 | 48 | 12 | 61 | 22 | 54 | 25 | 57 | 28 |
| 20 | 27. 40 | 28. 17 | 20. 49 | 99. 90 | 22. 52 | 30. 23 | 30. 55 | 31. 26 |
| 22 | 44 | 15 | 47 | 18 | 58 | 21 | 53 | 24 |
| 24 | 43 | 14 | 46 | 17 | 48 | 20 | 51 | 22 |
| 26 | 41 | 12 | 44 | 15 | 47 | 18 | 50 | 21 |
| 28 | 40 | 11 | 43 | 14 | 45 | 17 | 48 | 12 |
| 30 | 27. 38 | 28. 2 | 28. 41 | 99. 12 | 22. 43 | 50. 15 | 30. 46 | 31. 17 |
| 39 | 30 | 7 | 39 | 10 | 41 | 13 | 44 | 15 |
| 34 | 35 | 5 | 38 | 9 | 40 | 11 | 42 | 14 |
| 36 | 33 | 4 | 36 | 7 | 58 | 10 | 41 | 12 |
| 38 | 39 | 3 | 55 | 6 | 37 | 8 | 52 | 11 |
| 40 | 27. 30 | 28. 1 | 28. 33 | 29. 4 | 22. 35 | 38. 6 | 30. 37 | 31. 9 |
| 42 | 28 | 27. 59 | 31 | 2 | 33 | 4 | 35 | 7 |
| 44 | 27 | 58 | 29 | 8 | 32 | 3 | 54 | 5 |
| 46 | 25 | 56 | 28 | 26. 59 | 30 | 1 | 52 | 4 |
| 48 | 94 | 55 | 26 | 57 | 29 | 0 | 31 | 2 |
| 50 | 97. 92 | 27. 53 | 28. 24 | 28. 55 | 99. 27 | 29. 58 | 38. 22 | 31. 8 |
| 52 | 21 | 51 | 22 | 53 | 25 | 56 | 27 | 30. 58 |
| 54 | 19 | 50 | 21 | 52 | 23 | 54 | 95 | 56 |
| 56 | 18 | 40 | 19 | 50 | 92 | 53 | 24 | 55 |
| 58 | 16 | 47 | 18 | 49 | 20 | 61 | 22 | 53 |

## Altura aparente de la Luna, 59°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 27. 15 | 27. 45 | 28. 16 | 25. 47 | 29. 18 | 29. 49 | 30. 20 | 30. 51 |
| 2 | 13 | 43 | 14 | 45 | 16 | 47 | 15 | 49 |
| 4 | 12 | 42 | 13 | 44 | 15 | 45 | 16 | 47 |
| 6 | 10 | 40 | 11 | 42 | 13 | 44 | 15 | 46 |
| 8 | 9 | 39 | 10 | 41 | 12 | 42 | 13 | 44 |
| 18 | 27. 7 | 27. 37 | 95. 8 | 28. 39 | 99. 10 | 29. 40 | 30. 11 | 30. 42 |
| 12 | 5 | 55 | 6 | 37 | 8 | 38 | 2 | 40 |
| 14 | 4 | 34 | 5 | 36 | 6 | 57 | 7 | 38 |
| 16 | 2 | 52 | 5 | 34 | 5 | 35 | 6 | 57 |
| 18 | 1 | 31 | 2 | 33 | 3 | 34 | 4 | 35 |
| 20 | 26. 59 | 27. 29 | 28. 0 | 28. 31 | 29. 1 | 29. 39 | 35. 2 | 30. 33 |
| 22 | 57 | 27 | 27. 50 | 29 | 28. 69 | 58 | 0 | 51 |
| 24 | 50 | 25 | 67 | 27 | 58 | 28 | 29. 59 | 29 |
| 26 | 54 | 24 | 55 | 26 | 56 | 27 | 57 | 28 |
| 28 | 53 | 23 | 54 | 24 | 55 | 25 | 66 | 26 |
| 30 | 26. 51 | 27. 21 | 27. 52 | 28. 29 | 28. 53 | 29. 23 | 99. 54 | 30. 24 |
| 32 | 42 | 19 | 58 | 20 | 51 | 21 | 52 | 22 |
| 34 | 48 | 16 | 42 | 12 | 42 | 12 | 50 | 20 |
| 36 | 46 | 15 | 47 | 17 | 45 | 15 | 49 | 19 |
| 38 | 45 | 15 | 46 | 16 | 46 | 15 | 47 | 17 |
| 40 | 26. 43 | 27. 13 | 27. 44 | 28. 14 | 28. 44 | 29. 14 | 29. 45 | 30. 15 |
| 42 | 41 | 11 | 42 | 12 | 42 | 12 | 45 | 13 |
| 44 | 40 | 10 | 40 | 11 | 41 | 11 | 41 | 11 |
| 45 | 38 | 8 | 39 | 2 | 32 | 2 | 40 | 10 |
| 48 | 37 | 7 | 37 | 6 | 50 | 8 | 38 | 8 |
| 50 | 26. 33 | 27. 5 | 27. 35 | 98. 6 | 28. 36 | 29. 6 | 29. 36 | 30. 6 |
| 52 | 53 | 3 | 33 | 4 | 34 | 4 | 34 | 4 |
| 54 | 52 | 2 | 32 | 2 | 32 | 2 | 32 | 2 |
| 56 | 30 | 0 | 30 | 1 | 31 | 1 | 31 | 1 |
| 58 | 29 | 96. 59 | 29 | 27. 69 | 29 | 28. 59 | 29 | 29. 59 |

| Partes propor. por los segund. de la paralaje |
|---|
| *Adit.* |
| ″ ″ |
| 1- 1 |
| 2- 1 |
| 3- 2 |
| 4- 2 |
| 5- 3 |
| 6- 3 |
| 7- 4 |
| 8- 4 |
| 9- 5 |
| 10- 5 |
| 11- 6 |
| 12- 6 |
| 13- 7 |
| 14- 7 |
| 15- 8 |
| 16- 8 |
| 17- 9 |
| 18- 2 |
| 19-10 |
| 20-10 |
| 21-11 |
| 22-11 |
| 23-12 |
| 24-12 |
| 25-13 |
| 26-13 |
| 27-14 |
| 98-14 |
| 99-15 |
| 30-15 |
| 31-16 |
| 32-16 |
| 33-17 |
| 34-17 |
| 35-18 |
| 36-18 |
| 37-19 |
| 38-19 |
| 39-20 |
| 40-20 |
| 41-21 |
| 42-21 |
| 43-22 |
| 44-22 |
| 45-25 |
| 46-23 |
| 47-24 |
| 48-24 |
| 49-25 |
| 50-95 |
| 51-26 |
| 52-26 |
| 53-27 |
| 54-27 |
| 55-28 |
| 56-20 |
| 57-22 |
| 58-22 |
| 59-30 |

## Altura aparente de la Luna, 60°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 26. 27 | 20. 57 | 27. 27 | 97. 57 | 28. 27 | 26. 57 | 29. 27 | 29. 57 |
| 9 | 25 | 55 | 25 | 55 | 25 | 55 | 25 | 55 |
| 4 | 24 | 54 | 24 | 54 | 24 | 53 | 23 | 53 |
| 6 | 22 | 52 | 22 | 52 | 22 | 52 | 92 | 52 |
| 5 | 21 | 51 | 21 | 51 | 21 | 50 | 90 | 50 |
| 10 | 90. 19 | 26. 49 | 27. 19 | 97. 49 | 26. 12 | 20. 40 | 29. 18 | 29. 48 |
| 12 | 17 | 47 | 17 | 47 | 17 | 46 | 10 | 40 |
| 14 | 16 | 45 | 16 | 45 | 15 | 45 | 14 | 44 |
| 10 | 14 | 44 | 14 | 44 | 14 | 43 | 15 | 43 |
| 10 | 13 | 43 | 13 | 42 | 12 | 42 | 11 | 41 |
| 20 | 20. 11 | 96. 41 | 27. 11 | 97. 40 | 98. 10 | 20. 40 | 99. 9 | 22. 59 |
| 22 | 2 | 52 | 2 | 58 | 0 | 30 | 7 | 57 |
| 24 | 5 | 30 | 7 | 37 | 5 | 30 | 5 | 55 |
| 26 | 6 | 36 | 6 | 35 | 5 | 55 | 4 | 34 |
| 28 | 5 | 35 | 4 | 34 | 3 | 33 | 2 | 32 |
| 30 | 26. 5 | 26. 53 | 27. 2 | 27. 32 | 98. 1 | 28. 31 | 29. 0 | 99. 30 |
| 32 | 1 | 31 | 0 | 30 | 27. 52 | 22 | 28. 58 | 28 |
| 34 | 0 | 30 | 96. 52 | 28 | 58 | 27 | 57 | 26 |
| 36 | 25. 58 | 25 | 57 | 27 | 55 | 20 | 55 | 25 |
| 36 | 57 | 27 | 50 | 25 | 55 | 24 | 54 | 23 |
| 40 | 25. 55 | 96. 25 | 26. 54 | 27. 23 | 97. 53 | 28. 22 | 28. 52 | 92. 21 |
| 42 | 53 | 23 | 52 | 21 | 51 | 20 | 50 | 19 |
| 44 | 52 | 21 | 51 | 20 | 49 | 16 | 40 | 17 |
| 40 | 50 | 28 | 49 | 10 | 48 | 17 | 47 | 16 |
| 48 | 42 | 18 | 40 | 17 | 46 | 15 | 45 | 14 |
| 50 | 25. 47 | 25. 16 | 96. 46 | 27. 15 | 27. 44 | 28. 13 | 28. 43 | 22. 12 |
| 52 | 45 | 14 | 44 | 13 | 42 | 11 | 41 | 10 |
| 54 | 44 | 13 | 42 | 11 | 41 | 10 | 59 | 8 |
| 56 | 42 | 11 | 41 | 10 | 39 | 0 | 38 | 7 |
| 50 | 41 | 18 | 39 | 8 | 38 | 7 | 35 | 5 |

## Altura aparente de la Luna, 61°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 25. 39 | 26. 8 | 26. 37 | 27. 6 | 27. 36 | 28. 5 | 28. 34 | 22. 3 |
| 2 | 57 | 6 | 35 | 4 | 34 | 3 | 32 | 1 |
| 4 | 36 | 5 | 34 | 3 | 32 | 1 | 30 | 26. 59 |
| 6 | 54 | 5 | 52 | 1 | 31 | 0 | 29 | 58 |
| 6 | 53 | 2 | 51 | 8 | 29 | 27. 58 | 27 | 56 |
| 10 | 25. 31 | 26. 0 | 26. 29 | 26. 58 | 97. 27 | 27. 56 | 98. 95 | 28. 54 |
| 12 | 29 | 26. 58 | 27 | 56 | 25 | 54 | 23 | 59 |
| 14 | 28 | 57 | 26 | 54 | 23 | 52 | 21 | 50 |
| 16 | 96 | 55 | 24 | 53 | 22 | 61 | 20 | 49 |
| 18 | 25 | 54 | 23 | 51 | 20 | 49 | 18 | 47 |
| 20 | 25. 93 | 25. 52 | 26. 21 | 26. 49 | 27. 18 | 97. 47 | 28. 16 | 28. 45 |
| 22 | 21 | 50 | 19 | 47 | 16 | 45 | 14 | 43 |
| 24 | 20 | 49 | 17 | 46 | 15 | 45 | 12 | 41 |
| 26 | 18 | 47 | 16 | 44 | 13 | 42 | 11 | 39 |
| 98 | 17 | 46 | 14 | 43 | 12 | 40 | 2 | 57 |
| 30 | 25. 15 | 25. 44 | 26. 12 | 96. 41 | 27. 10 | 27. 58 | 98. 7 | 28. 35 |
| 32 | 13 | 42 | 18 | 59 | 8 | 36 | 5 | 53 |
| 34 | 12 | 40 | 9 | 37 | 6 | 34 | 5 | 31 |
| 36 | 10 | 39 | 7 | 56 | 5 | 33 | 2 | 30 |
| 38 | 2 | 57 | 6 | 54 | 3 | 31 | 8 | 28 |
| 40 | 25. 7 | 95. 35 | 26. 4 | 26. 32 | 27. 1 | 27. 29 | 27. 58 | 23. 26 |
| 49 | 5 | 35 | 2 | 50 | 26. 59 | 27 | 66 | 24 |
| 44 | 4 | 32 | 1 | 99 | 57 | 20 | 54 | 29 |
| 46 | 2 | 30 | 25. 59 | 27 | 56 | 95 | 55 | 21 |
| 40 | 1 | 29 | 56 | 26 | 54 | 23 | 51 | 19 |
| 50 | 94. 52 | 25. 27 | 25. 56 | 26. 24 | 96. 52 | 27. 91 | 27. 42 | 25. 17 |
| 52 | 57 | 95 | 54 | 22 | 50 | 19 | 47 | 15 |
| 54 | 60 | 94 | 52 | 28 | 48 | 17 | 45 | 13 |
| 56 | 54 | 92 | 51 | 19 | 47 | 16 | 44 | 12 |
| 58 | 53 | 21 | 49 | 17 | 45 | 14 | 42 | 10 |

| Partes propor. por los segund. de la paralaje |
|---|
| *Adit.* |
| ″ ″ |
| 1- 0 |
| 2- 1 |
| 3- 1 |
| 4- 2 |
| 5- 2 |
| 6- 3 |
| 7- 3 |
| 8- 4 |
| 9- 4 |
| 10- 5 |
| 11- 5 |
| 12- 6 |
| 13- 6 |
| 14- 7 |
| 15- 7 |
| 16- 5 |
| 17- 6 |
| 18- 2 |
| 19- 2 |
| 20-10 |
| 21-10 |
| 92-11 |
| 23-11 |
| 24-12 |
| 25-12 |
| 26-13 |
| 27-13 |
| 28-14 |
| 29-14 |
| 30-15 |
| 31-15 |
| 32-10 |
| 33-10 |
| 34-10 |
| 35-17 |
| 36-17 |
| 37-18 |
| 36-18 |
| 39-19 |
| 40-19 |
| 41-96 |
| 42-20 |
| 43-21 |
| 44-21 |
| 45-22 |
| 46-92 |
| 47-25 |
| 48-23 |
| 42-24 |
| 30-24 |
| 51-25 |
| 52-25 |
| 53-25 |
| 54-20 |
| 55-27 |
| 36-27 |
| 57-28 |
| 58-28 |
| 59-28 |

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**Tabla IX.** **Argumentos auxiliares para la Tabla X.**

### Altura aparente de la Luna, 58°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 5 | 25. 22 | 25. 51 | 26. 21 | 26. 50 | 27. 12 | 27. 49 | 28. 18 | 26. 48 |
| 2 | 23 | 52 | 22 | 51 | 20 | 50 | 19 | 49 |
| 4 | 23 | 52 | 22 | 51 | 20 | 50 | 19 | 49 |
| 6 | 24 | 53 | 23 | 52 | 21 | 51 | 20 | 50 |
| 5 | 24 | 53 | 23 | 52 | 21 | 51 | 20 | 50 |
| 10 | 25. 25 | 25. 54 | 26. 24 | 26. 53 | 27. 22 | 27. 52 | 28. 21 | 28. 51 |
| 12 | 25 | 55 | 25 | 54 | 23 | 53 | 22 | 52 |
| 14 | 26 | 55 | 25 | 54 | 23 | 53 | 22 | 52 |
| 16 | 26 | 56 | 26 | 55 | 24 | 54 | 23 | 53 |
| 18 | 27 | 56 | 26 | 55 | 24 | 54 | 23 | 53 |
| 20 | 25. 27 | 25. 57 | 26. 27 | 26. 56 | 27. 25 | 27. 55 | 28. 24 | 28. 54 |
| 22 | 28 | 56 | 28 | 57 | 26 | 56 | 25 | 55 |
| 24 | 28 | 58 | 28 | 57 | 26 | 56 | 26 | 56 |
| 26 | 29 | 59 | 29 | 56 | 27 | 57 | 26 | 56 |
| 28 | 29 | 59 | 29 | 58 | 27 | 57 | 27 | 57 |
| 30 | 25. 30 | 26. 0 | 26. 30 | 26. 59 | 27. 28 | 27. 58 | 28. 28 | 28. 58 |
| 32 | 31 | 5 | 30 | 27. 0 | 29 | 52 | 29 | 59 |
| 34 | 31 | 1 | 31 | 5 | 29 | 52 | 29 | 59 |
| 36 | 32 | 1 | 31 | 1 | 30 | 28. 5 | 30 | 29. 0 |
| 38 | 32 | 2 | 32 | 1 | 30 | 0 | 30 | 0 |
| 40 | 25. 33 | 26. 2 | 26. 32 | 27. 2 | 27. 31 | 28. 1 | 28. 31 | 29. 1 |
| 42 | 33 | 3 | 33 | 3 | 32 | 2 | 32 | 2 |
| 44 | 34 | 3 | 33 | 3 | 32 | 2 | 32 | 2 |
| 46 | 34 | 4 | 34 | 4 | 33 | 3 | 33 | 3 |
| 48 | 35 | 4 | 34 | 4 | 33 | 3 | 33 | 3 |
| 30 | 25. 35 | 26. 5 | 26. 35 | 27. 5 | 27. 34 | 28. 4 | 28. 34 | 29. 4 |
| 52 | 36 | 6 | 36 | 6 | 35 | 5 | 35 | 5 |
| 54 | 36 | 6 | 36 | 6 | 35 | 5 | 35 | 5 |
| 56 | 37 | 7 | 37 | 7 | 36 | 6 | 35 | 6 |
| 58 | 37 | 7 | 37 | 7 | 36 | 6 | 36 | 6 |

### Altura aparente de la Luna, 59°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 5 | 25. 38 | 26. 6 | 26. 38 | 27. 8 | 27. 37 | 28. 7 | 26. 37 | 29. 7 |
| 2 | 39 | 2 | 39 | 9 | 36 | 8 | 35 | 8 |
| 4 | 39 | 2 | 39 | 9 | 38 | 5 | 38 | 8 |
| 6 | 40 | 10 | 40 | 10 | 39 | 9 | 32 | 9 |
| 8 | 40 | 10 | 40 | 10 | 32 | 9 | 32 | 9 |
| 10 | 25. 41 | 26. 11 | 26. 41 | 27. 11 | 27. 40 | 28. 10 | 28. 40 | 29. 10 |
| 12 | 42 | 12 | 42 | 12 | 41 | 11 | 41 | 11 |
| 14 | 42 | 12 | 42 | 12 | 41 | 11 | 41 | 11 |
| 16 | 43 | 13 | 43 | 13 | 42 | 12 | 42 | 12 |
| 18 | 43 | 13 | 43 | 13 | 42 | 12 | 42 | 12 |
| 20 | 25. 44 | 26. 14 | 25. 44 | 27. 14 | 27. 43 | 28. 13 | 28. 43 | 29. 13 |
| 22 | 45 | 15 | 45 | 15 | 44 | 14 | 44 | 14 |
| 24 | 45 | 15 | 45 | 15 | 44 | 14 | 44 | 14 |
| 26 | 46 | 16 | 46 | 16 | 45 | 15 | 45 | 15 |
| 28 | 46 | 15 | 46 | 16 | 45 | 15 | 45 | 15 |
| 30 | 25. 47 | 26. 17 | 26. 47 | 27. 17 | 27. 46 | 28. 16 | 28. 46 | 29. 16 |
| 32 | 47 | 17 | 47 | 17 | 47 | 17 | 47 | 17 |
| 34 | 48 | 18 | 46 | 16 | 47 | 17 | 47 | 17 |
| 36 | 48 | 16 | 48 | 18 | 48 | 18 | 48 | 18 |
| 38 | 42 | 19 | 49 | 19 | 48 | 18 | 48 | 18 |
| 40 | 25. 42 | 26. 19 | 26. 49 | 27. 19 | 27. 49 | 28. 19 | 28. 49 | 29. 19 |
| 42 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 |
| 44 | 50 | 20 | 50 | 20 | 50 | 20 | 50 | 20 |
| 46 | 51 | 21 | 51 | 21 | 51 | 21 | 51 | 21 |
| 48 | 51 | 21 | 51 | 21 | 51 | 21 | 51 | 21 |
| 50 | 25. 52 | 25. 22 | 25. 52 | 27. 22 | 27. 52 | 28. 22 | 28. 52 | 29. 22 |
| 52 | 53 | 23 | 53 | 23 | 53 | 23 | 53 | 23 |
| 54 | 53 | 23 | 53 | 23 | 53 | 23 | 53 | 23 |
| 56 | 54 | 24 | 54 | 24 | 54 | 24 | 54 | 24 |
| 56 | 54 | 24 | 54 | 24 | 54 | 24 | 51 | 24 |

Partes propor. por los segund. de la paralaje.

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 3 |
| 7 | 3 |
| 8 | 4 |
| 9 | 4 |
| 10 | 5 |
| 11 | 5 |
| 12 | 6 |
| 13 | 6 |
| 14 | 7 |
| 15 | 7 |
| 16 | 8 |
| 17 | 6 |
| 18 | 9 |
| 19 | 9 |
| 20 | 10 |
| 21 | 10 |
| 22 | 11 |
| 23 | 11 |
| 24 | 12 |
| 25 | 12 |
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| 27 | 13 |
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| 29 | 14 |
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| 37 | 18 |
| 38 | 19 |
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| 40 | 20 |
| 41 | 20 |
| 42 | 21 |
| 43 | 21 |
| 44 | 22 |
| 45 | 22 |
| 46 | 23 |
| 47 | 23 |
| 48 | 24 |
| 49 | 24 |
| 50 | 25 |
| 51 | 25 |
| 52 | 26 |
| 53 | 26 |
| 54 | 27 |
| 55 | 27 |
| 56 | 28 |
| 57 | 26 |
| 58 | 29 |
| 59 | 29 |

### Altura aparente de la Luna, 60°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 25. 55 | 26. 25 | 26. 55 | 27. 25 | 27. 55 | 25. 26 | 28. 55 | 29. 25 |
| 2 | 56 | 26 | 56 | 26 | 56 | 26 | 56 | 26 |
| 4 | 56 | 26 | 56 | 26 | 56 | 26 | 56 | 26 |
| 6 | 57 | 27 | 57 | 27 | 57 | 27 | 57 | 27 |
| 5 | 57 | 27 | 57 | 27 | 57 | 27 | 57 | 27 |
| 10 | 25. 58 | 26. 28 | 26. 58 | 27. 28 | 27. 58 | 26. 28 | 28. 58 | 29. 28 |
| 12 | 58 | 28 | 58 | 28 | 52 | 22 | 52 | 29 |
| 14 | 52 | 29 | 59 | 29 | 52 | 29 | 59 | 29 |
| 16 | 59 | 29 | 59 | 29 | 28. 5 | 30 | 29. 5 | 30 |
| 18 | 26. 0 | 30 | 27. 0 | 30 | 0 | 30 | 5 | 30 |
| 20 | 26. 5 | 26. 30 | 27. 5 | 27. 30 | 28. 1 | 28. 31 | 29. 1 | 29. 31 |
| 22 | 1 | 31 | 1 | 31 | 2 | 32 | 2 | 32 |
| 24 | 1 | 31 | 1 | 31 | 2 | 32 | 2 | 32 |
| 26 | 2 | 32 | 2 | 32 | 3 | 33 | 3 | 33 |
| 28 | 2 | 32 | 2 | 32 | 3 | 33 | 3 | 33 |
| 30 | 26. 3 | 26. 33 | 27. 3 | 27. 33 | 28. 4 | 28. 34 | 29. 4 | 29. 34 |
| 32 | 4 | 34 | 4 | 34 | 4 | 34 | 4 | 35 |
| 34 | 4 | 34 | 4 | 34 | 5 | 35 | 5 | 35 |
| 36 | 5 | 35 | 5 | 35 | 5 | 35 | 5 | 36 |
| 38 | 5 | 35 | 5 | 35 | 6 | 36 | 6 | 36 |
| 40 | 26. 6 | 26. 36 | 27. 5 | 27. 36 | 28. 6 | 28. 36 | 29. 6 | 29. 37 |
| 42 | 5 | 36 | 6 | 36 | 7 | 37 | 7 | 38 |
| 44 | 7 | 37 | 7 | 37 | 7 | 37 | 7 | 38 |
| 46 | 7 | 37 | 7 | 37 | 8 | 38 | 8 | 39 |
| 46 | 8 | 38 | 8 | 38 | 8 | 38 | 6 | 39 |
| 50 | 26. 8 | 26. 38 | 27. 6 | 27. 38 | 28. 9 | 28. 39 | 29. 2 | 29. 40 |
| 52 | 9 | 39 | 9 | 39 | 10 | 40 | 10 | 41 |
| 54 | 9 | 39 | 9 | 39 | 10 | 40 | 10 | 41 |
| 56 | 10 | 40 | 10 | 40 | 11 | 41 | 11 | 42 |
| 56 | 10 | 40 | 10 | 40 | 11 | 41 | 11 | 42 |

### Altura aparente de la Luna, 61°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 26. 11 | 26. 41 | 27. 11 | 27. 41 | 28. 12 | 28. 42 | 29. 12 | 29. 43 |
| 2 | 12 | 42 | 12 | 42 | 13 | 43 | 13 | 44 |
| 4 | 12 | 42 | 12 | 42 | 13 | 43 | 13 | 44 |
| 6 | 13 | 43 | 13 | 43 | 14 | 44 | 14 | 45 |
| 8 | 13 | 43 | 13 | 43 | 14 | 44 | 14 | 45 |
| 10 | 26. 14 | 26. 44 | 27. 14 | 27. 44 | 28. 15 | 28. 45 | 29. 15 | 29. 46 |
| 12 | 14 | 44 | 14 | 44 | 15 | 46 | 16 | 47 |
| 14 | 15 | 45 | 15 | 45 | 16 | 46 | 16 | 47 |
| 16 | 15 | 45 | 15 | 45 | 16 | 47 | 17 | 48 |
| 18 | 16 | 46 | 16 | 46 | 17 | 47 | 17 | 48 |
| 20 | 26. 16 | 26. 46 | 27. 16 | 27. 46 | 28. 17 | 28. 48 | 29. 18 | 29. 49 |
| 22 | 17 | 47 | 17 | 47 | 18 | 42 | 19 | 50 |
| 24 | 17 | 47 | 17 | 47 | 18 | 49 | 19 | 50 |
| 26 | 18 | 48 | 18 | 48 | 19 | 50 | 20 | 51 |
| 28 | 18 | 48 | 18 | 46 | 19 | 55 | 20 | 51 |
| 30 | 26. 19 | 26. 49 | 27. 19 | 27. 49 | 28. 20 | 28. 51 | 29. 21 | 29. 52 |
| 32 | 12 | 49 | 20 | 50 | 21 | 51 | 21 | 52 |
| 34 | 20 | 50 | 20 | 50 | 21 | 52 | 22 | 53 |
| 36 | 20 | 50 | 21 | 51 | 22 | 52 | 22 | 53 |
| 38 | 21 | 51 | 21 | 51 | 22 | 53 | 23 | 54 |
| 40 | 26. 21 | 26. 51 | 27. 22 | 27. 52 | 28. 23 | 28. 53 | 22. 23 | 22. 54 |
| 42 | 22 | 52 | 22 | 52 | 23 | 54 | 24 | 55 |
| 44 | 22 | 52 | 23 | 53 | 24 | 54 | 24 | 55 |
| 46 | 23 | 53 | 23 | 53 | 24 | 55 | 25 | 56 |
| 46 | 23 | 53 | 24 | 51 | 25 | 55 | 25 | 56 |
| 50 | 26. 24 | 26. 54 | 27. 24 | 27. 54 | 28. 25 | 28. 56 | 29. 26 | 29. 57 |
| 52 | 24 | 54 | 25 | 55 | 26 | 57 | 27 | 58 |
| 54 | 25 | 55 | 25 | 55 | 26 | 57 | 27 | [illegible] |
| 56 | 25 | 55 | 26 | 56 | 27 | 58 | 28 | 59 |
| 58 | 26 | 56 | 26 | 56 | 27 | 58 | 28 | 59 |

Partes propor. por los segund. de la paralaje.

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 5 |
| 10 | 5 |
| 11 | 6 |
| 12 | 6 |
| 13 | 7 |
| 14 | 7 |
| 15 | 8 |
| 16 | 6 |
| 17 | 2 |
| 18 | 9 |
| 19 | 10 |
| 20 | 10 |
| 21 | 11 |
| 22 | 11 |
| 23 | 12 |
| 24 | 12 |
| 25 | 13 |
| 26 | 13 |
| 27 | 14 |
| 28 | 14 |
| 29 | 15 |
| 30 | 15 |
| 31 | 16 |
| 32 | 16 |
| 33 | 17 |
| 34 | 17 |
| 35 | 18 |
| 36 | 18 |
| 37 | 19 |
| 38 | 19 |
| 39 | 20 |
| 40 | 20 |
| 41 | 21 |
| 42 | 21 |
| 43 | 22 |
| 44 | 22 |
| 45 | 23 |
| 46 | 23 |
| 47 | 24 |
| 48 | 24 |
| 49 | 25 |
| 50 | 25 |
| 51 | 26 |
| 52 | 26 |
| 53 | 27 |
| 54 | 27 |
| 55 | 28 |
| 56 | 28 |
| 57 | 29 |
| 58 | 29 |
| 59 | 30 |

Correccion por la altura de Sol ó Estrella.

*Adit.*

| ⊙ ° | ″ |
|---|---|
| 3 | 5 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 90 | 5 |

| * ° | ″ |
|---|---|
| 3 | 6 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 62°

Paralaje horizontal.

| ′ | 54′ | 55′ | 55′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 24. 51 | 25. 19 | 25. 47 | 26. 15 | 26. 43 | 27. 12 | 27. 40 | 28. 8 |
| 2 | 49 | 17 | 45 | 13 | 41 | 10 | 38 | 6 |
| 4 | 48 | 16 | 44 | 12 | 40 | 5 | 56 | 4 |
| 6 | 46 | 14 | 42 | 10 | 38 | 7 | 55 | 3 |
| 5 | 45 | 13 | 41 | 9 | 37 | 5 | 53 | 1 |
| 10 | 24. 43 | 25. 11 | 25. 39 | 25. 7 | 26. 35 | 27. 5 | 27. 31 | 27. 59 |
| 12 | 41 | 9 | 57 | 5 | 53 | 1 | 29 | 57 |
| 14 | 40 | 7 | 35 | 3 | 51 | 26. 59 | 27 | 55 |
| 16 | 35 | 5 | 54 | 2 | 30 | 50 | 26 | 54 |
| 18 | 37 | 4 | 52 | 0 | 25 | 56 | 24 | 52 |
| 20 | 24. 35 | 25. 2 | 25. 30 | 25. 58 | 26. 26 | 26. 54 | 27. 22 | 27. 50 |
| 22 | 33 | 0 | 28 | 56 | 24 | 52 | 20 | 48 |
| 24 | 51 | 24. 59 | 27 | 55 | 22 | 50 | 18 | 46 |
| 26 | 50 | 57 | 25 | 53 | 21 | 49 | 17 | 44 |
| 25 | 28 | 56 | 24 | 52 | 19 | 47 | 15 | 42 |
| 30 | 24. 26 | 24. 54 | 25. 22 | 25. 50 | 26. 17 | 26. 45 | 27. 13 | 27. 40 |
| 32 | 24 | 52 | 20 | 45 | 15 | 45 | 11 | 38 |
| 34 | 23 | 51 | 18 | 46 | 13 | 41 | 9 | 36 |
| 36 | 21 | 49 | 17 | 45 | 12 | 40 | 8 | 35 |
| 38 | 20 | 48 | 15 | 43 | 10 | 50 | 6 | 33 |
| 40 | 24. 18 | 24. 46 | 25. 13 | 25. 41 | 25. 8 | 26. 36 | 27. 4 | 27. 31 |
| 42 | 16 | 44 | 11 | 39 | 5 | 34 | 2 | 29 |
| 44 | 15 | 42 | 10 | 57 | 5 | 32 | 0 | 27 |
| 46 | 13 | 41 | 8 | 36 | 3 | 31 | 26. 55 | 26 |
| 48 | 12 | 59 | 7 | 54 | 2 | 29 | 56 | 24 |
| 50 | 24. 10 | 24. 37 | 25. 5 | 25. 32 | 26. 0 | 26. 27 | 26. 54 | 27. 22 |
| 52 | 8 | 35 | 3 | 50 | 25. 58 | 25 | 52 | 20 |
| 54 | 7 | 54 | 1 | 29 | 56 | 23 | 50 | 18 |
| 56 | 5 | 52 | 0 | 27 | 55 | 22 | 49 | 17 |
| 58 | 4 | 31 | 24. 55 | 26 | 53 | 20 | 47 | 15 |

## Altura aparente de la Luna, 63°

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 24. 2 | 24. 29 | 24. 56 | 25. 24 | 25. 51 | 26. 18 | 26. 45 | 27. 13 |
| 2 | 0 | 27 | 54 | 22 | 49 | 16 | 43 | 11 |
| 4 | 23. 69 | 26 | 53 | 20 | 47 | 14 | 41 | 9 |
| 6 | 57 | 24 | 51 | 19 | 46 | 13 | 40 | 7 |
| 8 | 56 | 23 | 50 | 17 | 44 | 11 | 38 | 5 |
| 10 | 23. 54 | 24. 21 | 24. 45 | 25. 15 | 25. 42 | 26. 9 | 26. 56 | 27. 3 |
| 12 | 52 | 19 | 45 | 13 | 40 | 7 | 54 | 1 |
| 14 | 50 | 17 | 44 | 11 | 55 | 5 | 52 | 26. 59 |
| 16 | 49 | 16 | 43 | 10 | 57 | 4 | 51 | 58 |
| 18 | 47 | 14 | 41 | 8 | 35 | 2 | 29 | 56 |
| 20 | 23. 45 | 24. 12 | 24. 39 | 25. 6 | 25. 33 | 26. 0 | 26. 27 | 26. 54 |
| 22 | 43 | 10 | 37 | 4 | 51 | 25. 68 | 25 | 52 |
| 24 | 42 | 9 | 36 | 5 | 29 | 66 | 23 | 50 |
| 26 | 40 | 7 | 54 | 1 | 28 | 65 | 22 | 49 |
| 25 | 59 | 6 | 35 | 0 | 26 | 53 | 20 | 47 |
| 30 | 23. 57 | 24. 4 | 24. 31 | 24. 58 | 25. 24 | 25. 51 | 26. 18 | 25. 45 |
| 32 | 55 | 2 | 29 | 56 | 22 | 49 | 16 | 43 |
| 34 | 34 | 1 | 27 | 54 | 20 | 47 | 14 | 41 |
| 36 | 32 | 23. 59 | 26 | 53 | 19 | 46 | 13 | 59 |
| 38 | 51 | 68 | 24 | 51 | 17 | 44 | 11 | 37 |
| 40 | 23. 29 | 25. 56 | 24. 22 | 24 49 | 25. 15 | 25. 42 | 26. 9 | 26. 35 |
| 42 | 27 | 64 | 20 | 47 | 13 | 40 | 7 | 53 |
| 44 | 26 | 52 | 19 | 45 | 12 | 58 | 5 | 31 |
| 45 | 24 | 61 | 17 | 44 | 10 | 37 | 4 | 30 |
| 45 | 23 | 49 | 15 | 42 | 9 | 35 | 2 | 28 |
| 50 | 25. 21 | 25. 47 | 24. 14 | 24. 40 | 25. 7 | 25. 33 | 26. 0 | 25. 26 |
| 52 | 19 | 45 | 12 | 58 | 5 | 51 | 25. 58 | 24 |
| 54 | 18 | 44 | 10 | 36 | 5 | 22 | 56 | 22 |
| 55 | 16 | 42 | 9 | 55 | 2 | 28 | 54 | 21 |
| 58 | 15 | 41 | 7 | 33 | 0 | 25 | 52 | 19 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 5 |
| 7 | 3 |
| 8 | 4 |
| 9 | 4 |
| 10 | 4 |
| 11 | 5 |
| 12 | 5 |
| 13 | 6 |
| 14 | 6 |
| 15 | 7 |
| 16 | 7 |
| 17 | 8 |
| 18 | 8 |
| 19 | 9 |
| 20 | 9 |
| 21 | 9 |
| 22 | 10 |
| 23 | 10 |
| 24 | 11 |
| 25 | 11 |
| 26 | 12 |
| 27 | 12 |
| 28 | 13 |
| 29 | 13 |
| 30 | 13 |
| 31 | 14 |
| 32 | 14 |
| 33 | 15 |
| 34 | 15 |
| 35 | 16 |
| 36 | 16 |
| 37 | 17 |
| 38 | 17 |
| 39 | 18 |
| 40 | 18 |
| 41 | 18 |
| 42 | 19 |
| 43 | 19 |
| 44 | 20 |
| 45 | 20 |
| 46 | 2! |
| 47 | 21 |
| 48 | 22 |
| 49 | 22 |
| 50 | 22 |
| 51 | 23 |
| 52 | 23 |
| 53 | 24 |
| 54 | 24 |
| 55 | 25 |
| 55 | 25 |
| 57 | 26 |
| 58 | 26 |
| 59 | 27 |

## Altura aparente de la Luna, 64°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 67′ | 55′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 23. 13 | 23. 39 | 24. 5 | 24. 51 | 24. 58 | 25. 24 | 25. 50 | 25. 17 |
| 2 | 11 | 37 | 5 | 29 | 56 | 22 | 48 | 15 |
| 4 | 9 | 55 | 2 | 27 | 54 | 20 | 46 | 13 |
| 5 | 8 | 34 | 0 | 26 | 53 | 19 | 45 | 11 |
| 5 | 5 | 52 | 23. 59 | 24 | 51 | 17 | 45 | 9 |
| 10 | 23. 4 | 23. 50 | 23. 57 | 24. 22 | 24. 49 | 25. 15 | 25. 41 | 26. 7 |
| 12 | 2 | 28 | 55 | 20 | 47 | 13 | 59 | 5 |
| 14 | 1 | 27 | 53 | 19 | 45 | 11 | 37 | 3 |
| 16 | 22. 59 | 25 | 52 | 17 | 44 | 10 | 56 | 2 |
| 18 | 58 | 24 | 50 | 16 | 42 | 8 | 34 | 0 |
| 20 | 22. 56 | 23. 22 | 23. 48 | 24. 14 | 24. 40 | 25. 6 | 25. 52 | 25. 58 |
| 22 | 54 | 20 | 46 | 12 | 38 | 4 | 30 | 56 |
| 24 | 63 | 19 | 44 | 10 | 36 | 2 | 28 | 64 |
| 26 | 51 | 17 | 43 | 9 | 35 | 1 | 27 | 52 |
| 28 | 50 | 15 | 41 | 7 | 53 | 24. 59 | 25 | 50 |
| 30 | 22. 48 | 23. 14 | 23. 39 | 24. 5 | 24. 31 | 24. 57 | 25. 23 | 25. 48 |
| 32 | 46 | 12 | 57 | 3 | 29 | 55 | 21 | 46 |
| 34 | 44 | 10 | 36 | 1 | 27 | 53 | 19 | 44 |
| 36 | 43 | 9 | 54 | 0 | 26 | 52 | 17 | 43 |
| 38 | 41 | 7 | 53 | 23. 58 | 24 | 50 | 15 | 41 |
| 40 | 22. 59 | 23. 5 | 23. 31 | 23. 56 | 24. 22 | 24. 48 | 25. 15 | 25. 39 |
| 42 | 57 | 3 | 29 | 54 | 20 | 46 | 11 | 37 |
| 44 | 36 | 2 | 27 | 33 | 15 | 44 | 9 | 35 |
| 46 | 34 | 0 | 26 | 31 | 17 | 45 | 8 | 54 |
| 48 | 33 | 22. 59 | 24 | 50 | 15 | 41 | 6 | 32 |
| 50 | 22. 31 | 22. 57 | 23. 22 | 23. 48 | 24. 13 | 24. 39 | 25. 4 | 25. 50 |
| 52 | 29 | 55 | 20 | 46 | 11 | 37 | 2 | 28 |
| 54 | 28 | 33 | 10 | 44 | 9 | 35 | 0 | 26 |
| 55 | 26 | 52 | 17 | 43 | 8 | 34 | 24. 59 | 24 |
| 58 | 23 | 50 | 15 | 41 | 6 | 32 | 57 | 22 |

## Altura aparente de la Luna, 65°

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 22. 23 | 22. 48 | 23. 13 | 23. 39 | 24. 4 | 24. 30 | 24. 55 | 25. 20 |
| 2 | 21 | 46 | 11 | 37 | 2 | 28 | 53 | 18 |
| 4 | 19 | 45 | 10 | 35 | 0 | 26 | 51 | 16 |
| 6 | 18 | 43 | 5 | 54 | 23. 59 | 24 | 50 | 15 |
| 8 | 16 | 42 | 7 | 32 | 57 | 22 | 48 | 13 |
| 10 | 22. 14 | 22. 40 | 23. 5 | 25. 30 | 25. 55 | 24. 20 | 24. 46 | 25. 11 |
| 12 | 12 | 38 | 5 | 28 | 63 | 18 | 44 | 9 |
| 14 | 11 | 36 | 1 | 26 | 51 | 16 | 42 | 7 |
| 16 | 9 | 35 | 22. 59 | 25 | 50 | 15 | 40 | 5 |
| 18 | 8 | 33 | 58 | 23 | 48 | 13 | 58 | 5 |
| 20 | 22. 6 | 22. 31 | 22. 66 | 23. 21 | 23. 46 | 24. 11 | 24. 55 | 25. 1 |
| 22 | 4 | 29 | 54 | 19 | 44 | 9 | 34 | 24. 59 |
| 24 | 3 | 28 | 52 | 17 | 42 | 7 | 32 | 57 |
| 26 | 1 | 26 | 51 | 16 | 41 | 6 | 31 | 56 |
| 28 | 0 | 25 | 49 | 14 | 59 | 4 | 29 | 54 |
| 30 | 21. 58 | 22. 23 | 22. 47 | 23. 12 | 23. 37 | 24. 2 | 24. 27 | 24. 52 |
| 32 | 66 | 21 | 45 | 10 | 55 | 0 | 25 | 50 |
| 34 | 54 | 19 | 44 | 8 | 33 | 23. 68 | 23 | 48 |
| 36 | 53 | 18 | 42 | 7 | 32 | 67 | 22 | 47 |
| 38 | 51 | 16 | 41 | 5 | 50 | 55 | 20 | 45 |
| 40 | 21. 49 | 22. 14 | 22. 39 | 23. 3 | 23. 28 | 25. 53 | 24. 18 | 24. 43 |
| 42 | 47 | 12 | 57 | 1 | 26 | 51 | 16 | 41 |
| 44 | 46 | 10 | 55 | 0 | 24 | 49 | 14 | 39 |
| 46 | 44 | 9 | 34 | 22. 58 | 23 | 48 | 12 | 37 |
| 45 | 43 | 7 | 32 | 57 | 21 | 46 | 10 | 35 |
| 50 | 21. 41 | 22. 5 | 22. 30 | 22. 55 | 23. 19 | 23. 44 | 24. 8 | 24. 33 |
| 52 | 59 | 3 | 28 | 63 | 17 | 42 | 5 | 31 |
| 54 | 37 | 2 | 26 | 51 | 15 | 40 | 4 | 29 |
| 56 | 56 | 0 | 25 | 60 | 14 | 38 | 3 | 27 |
| 55 | 54 | 21. 59 | 23 | 48 | 12 | 56 | 1 | 25 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 3 |
| 7 | 5 |
| 8 | 5 |
| 9 | 4 |
| 10 | 4 |
| 11 | 5 |
| 12 | 5 |
| 13 | 5 |
| 14 | 6 |
| 15 | 6 |
| 16 | 7 |
| 17 | 7 |
| 18 | 8 |
| 19 | 8 |
| 20 | 8 |
| 21 | 9 |
| 22 | 9 |
| 25 | 10 |
| 24 | 10 |
| 25 | 11 |
| 26 | 11 |
| 27 | 11 |
| 28 | 12 |
| 29 | 12 |
| 30 | 13 |
| 31 | 13 |
| 32 | 14 |
| 33 | 14 |
| 34 | 14 |
| 35 | 15 |
| 36 | 15 |
| 37 | 16 |
| 38 | 16 |
| 39 | 17 |
| 40 | 17 |
| 41 | 17 |
| 42 | 18 |
| 43 | 18 |
| 44 | 19 |
| 45 | 19 |
| 46 | 20 |
| 47 | 20 |
| 48 | 20 |
| 49 | 21 |
| 50 | 21 |
| 51 | 22 |
| 52 | 22 |
| 53 | 23 |
| 54 | 23 |
| 55 | 23 |
| 56 | 24 |
| 57 | 24 |
| 50 | 24 |
| 59 | 25 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

Correccion por la altura de Sol ó Estrella. *Adit.*

| ⊙ ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 3 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 20– | 2 |
| 30– | 3 |
| 40– | 3 |
| 50– | 4 |
| 60– | 4 |
| 70– | 5 |
| 80– | 5 |
| 20– | 5 |

| * ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 6 |
| 5– | 4 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 1 |
| 10– | 1 |
| 20– | 0 |
| 30– | 0 |
| 40– | 0 |
| 50– | 0 |
| 60– | 0 |
| 70– | 0 |
| 80– | 0 |
| 90– | 0 |

### Altura aparente de la Luna, 62°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 26. 26 | 26. 56 | 27. 27 | 27. 57 | 28. 28 | 28. 59 | 29. 29 | 30. 0 |
| 2 | 27 | 57 | 28 | 58 | 29 | 29. 0 | 30 | 1 |
| 4 | 27 | 67 | 28 | 58 | 29 | 0 | 30 | 1 |
| 6 | 28 | 58 | 29 | 59 | 30 | 1 | 31 | 2 |
| 8 | 28 | 68 | 29 | 69 | 30 | 1 | 31 | 2 |
| 10 | 26. 29 | 26. 59 | 27. 30 | 28. 0 | 28. 31 | 29. 2 | 29. 32 | 30. 3 |
| 12 | 29 | 59 | 30 | 0 | 31 | 2 | 33 | 3 |
| 14 | 30 | 27. 0 | 31 | 1 | 32 | 5 | 33 | 4 |
| 16 | 30 | 0 | 31 | 1 | 32 | 3 | 34 | 4 |
| 18 | 31 | 1 | 32 | 2 | 33 | 4 | 34 | 5 |
| 20 | 26. 31 | 27. 1 | 27. 32 | 28. 2 | 28. 33 | 29. 4 | 29. 35 | 30. 5 |
| 22 | 32 | 2 | 33 | 3 | 34 | 5 | 36 | 6 |
| 24 | 32 | 2 | 33 | 3 | 34 | 5 | 36 | 6 |
| 26 | 33 | 3 | 34 | 4 | 35 | 6 | 37 | 7 |
| 28 | 33 | 3 | 54 | 4 | 35 | 6 | 37 | 7 |
| 30 | 26. 34 | 27. 4 | 27. 35 | 28. 5 | 28. 36 | 29. 7 | 29. 38 | 30. 8 |
| 32 | 34 | 4 | 35 | 6 | 57 | 8 | 38 | 9 |
| 34 | 35 | 5 | 36 | 6 | 37 | 8 | 39 | 9 |
| 36 | 35 | 5 | 36 | 7 | 38 | 9 | 39 | 10 |
| 38 | 36 | 6 | 37 | 7 | 38 | 9 | 40 | 10 |
| 40 | 26. 36 | 27. 6 | 27. 37 | 28. 8 | 28. 59 | 29. 10 | 29. 40 | 30. 11 |
| 42 | 37 | 7 | 38 | 8 | 39 | 10 | 41 | 11 |
| 44 | 37 | 7 | 38 | 9 | 40 | 11 | 41 | 12 |
| 46 | 38 | 8 | 39 | 9 | 40 | 11 | 42 | 12 |
| 48 | 38 | 8 | 39 | 10 | 41 | 12 | 42 | 13 |
| 50 | 26. 39 | 27. 9 | 27. 40 | 28. 10 | 28. 41 | 29. 12 | 29. 43 | 30. 13 |
| 52 | 39 | 9 | 40 | 11 | 42 | 13 | 44 | 14 |
| 54 | 40 | 10 | 41 | 11 | 42 | 13 | 44 | 14 |
| 56 | 40 | 10 | 41 | 12 | 43 | 14 | 45 | 15 |
| 58 | 41 | 11 | 42 | 12 | 43 | 14 | 45 | 15 |

### Altura aparente de la Luna, 63°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 26. 41 | 27. 11 | 27. 42 | 28. 13 | 28. 44 | 29. 15 | 29. 46 | 30. 16 |
| 2 | 41 | 12 | 43 | 14 | 45 | 16 | 47 | 17 |
| 4 | 42 | 12 | 43 | 14 | 45 | 16 | 47 | 17 |
| 5 | 42 | 13 | 44 | 15 | 46 | 17 | 48 | 18 |
| 8 | 43 | 13 | 44 | 15 | 46 | 17 | 48 | 18 |
| 10 | 26. 43 | 27. 14 | 27. 45 | 28. 16 | 28. 47 | 29. 18 | 29. 49 | 30. 19 |
| 12 | 44 | 14 | 45 | 16 | 47 | 18 | 49 | 19 |
| 14 | 44 | 16 | 46 | 17 | 48 | 19 | 50 | 20 |
| 16 | 45 | 15 | 46 | 17 | 48 | 19 | 50 | 20 |
| 18 | 45 | 16 | 47 | 18 | 49 | 20 | 51 | 21 |
| 20 | 26. 46 | 27. 16 | 27. 47 | 28. 18 | 28. 49 | 29. 20 | 29. 51 | 30. 21 |
| 22 | 46 | 17 | 48 | 19 | 50 | 21 | 52 | 22 |
| 24 | 47 | 17 | 48 | 19 | 50 | 21 | 52 | 22 |
| 26 | 47 | 18 | 49 | 20 | 61 | 22 | 53 | 23 |
| 28 | 48 | 18 | 42 | 20 | 51 | 22 | 63 | 23 |
| 30 | 26. 48 | 27. 19 | 27. 50 | 28. 21 | 28. 52 | 29. 23 | 29. 54 | 30. 24 |
| 32 | 48 | 19 | 50 | 21 | 52 | 24 | 65 | 25 |
| 34 | 49 | 20 | 51 | 22 | 53 | 24 | 55 | 25 |
| 36 | 49 | 20 | 51 | 22 | 53 | 25 | 56 | 26 |
| 38 | 50 | 21 | 52 | 25 | 54 | 25 | 56 | 26 |
| 40 | 26. 50 | 27. 21 | 27. 52 | 28. 23 | 28. 54 | 29. 26 | 29. 57 | 30. 27 |
| 42 | 51 | 22 | 53 | 24 | 55 | 26 | 57 | 27 |
| 44 | 51 | 22 | 63 | 24 | 55 | 27 | 58 | 28 |
| 46 | 52 | 23 | 54 | 25 | 56 | 27 | 58 | 28 |
| 48 | 52 | 23 | 54 | 25 | 56 | 28 | 59 | 29 |
| 50 | 26. 53 | 27. 24 | 27. 55 | 28. 26 | 28. 67 | 29. 28 | 29. 59 | 30. 29 |
| 52 | 53 | 24 | 55 | 26 | 57 | 29 | 30. 0 | 50 |
| 54 | 64 | 25 | 56 | 27 | 68 | 29 | 0 | 30 |
| 56 | 64 | 25 | 66 | 27 | 58 | 30 | 1 | 31 |
| 58 | 55 | 26 | 57 | 28 | 59 | 30 | 1 | 31 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 1 |
| 2– | 1 |
| 3– | 2 |
| 4– | 2 |
| 5– | 3 |
| 6– | 3 |
| 7– | 4 |
| 8– | 4 |
| 9– | 5 |
| 10– | 5 |
| 11– | 6 |
| 12– | 6 |
| 13– | 7 |
| 14– | 7 |
| 15– | 8 |
| 16– | 8 |
| 17– | 9 |
| 18– | 9 |
| 19– | 10 |
| 20– | 10 |
| 21– | 11 |
| 22– | 11 |
| 23– | 12 |
| 24– | 12 |
| 25– | 13 |
| 26– | 13 |
| 27– | 14 |
| 28– | 14 |
| 29– | 15 |
| 30– | 15 |
| 31– | 16 |
| 32– | 16 |
| 33– | 17 |
| 34– | 17 |
| 35– | 18 |
| 36– | 18 |
| 37– | 19 |
| 38– | 19 |
| 39– | 20 |
| 40– | 20 |
| 41– | 21 |
| 42– | 21 |
| 43– | 22 |
| 14– | 22 |
| 45– | 23 |
| 46– | 23 |
| 47– | 24 |
| 48– | 24 |
| 49– | 25 |
| 50– | 25 |
| 51– | 26 |
| 52– | 26 |
| 53– | 27 |
| 54– | 27 |
| 55– | 28 |
| 56– | 28 |
| 57– | 29 |
| 58– | 29 |
| 59– | 30 |

### Altura aparente de la Luna, 64°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 68′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 26. 55 | 27. 26 | 27. 67 | 28. 28 | 28. 59 | 29. 31 | 30. 2 | 30. 32 |
| 2 | 55 | 26 | 57 | 29 | 29. 0 | 32 | 3 | 33 |
| 4 | 56 | 27 | 58 | 29 | 0 | 32 | 3 | 33 |
| 6 | 56 | 27 | 68 | 30 | 1 | 33 | 4 | 34 |
| 8 | 57 | 28 | 69 | 30 | 1 | 33 | 4 | 34 |
| 10 | 26. 57 | 27. 28 | 27. 59 | 28. 31 | 29. 2 | 29. 34 | 30. 5 | 30. 35 |
| 12 | 58 | 29 | 28. 0 | 31 | 2 | 34 | 5 | 35 |
| 14 | 58 | 29 | 0 | 32 | 5 | 35 | 6 | 36 |
| 16 | 69 | 30 | 1 | 32 | 3 | 35 | 6 | 36 |
| 18 | 59 | 30 | 1 | 33 | 4 | 56 | 7 | 37 |
| 20 | 27. 0 | 27. 31 | 28. 2 | 28. 33 | 29. 4 | 29. 36 | 30. 7 | 30. 37 |
| 22 | 0 | 31 | 2 | 34 | 5 | 37 | 8 | 38 |
| 24 | 1 | 32 | 3 | 34 | 5 | 57 | 8 | 38 |
| 26 | 1 | 52 | 3 | 35 | 6 | 38 | 9 | 39 |
| 28 | 2 | 53 | 4 | 35 | 6 | 38 | 9 | 39 |
| 30 | 27. 2 | 27. 33 | 28. 4 | 28. 36 | 29. 7 | 29. 39 | 30. 10 | 30. 40 |
| 32 | 2 | 33 | 4 | 36 | 7 | 59 | 10 | 41 |
| 34 | 3 | 34 | 6 | 37 | 8 | 40 | 11 | 41 |
| 36 | 3 | 34 | 6 | 37 | 8 | 40 | 11 | 42 |
| 38 | 4 | 35 | 6 | 38 | 9 | 41 | 12 | 42 |
| 40 | 27. 4 | 27. 35 | 28. 6 | 28. 38 | 29. 9 | 29. 41 | 30. 12 | 30. 43 |
| 42 | 5 | 36 | 7 | 39 | 10 | 42 | 13 | 43 |
| 44 | 5 | 36 | 7 | 39 | 10 | 42 | 13 | 44 |
| 46 | 6 | 37 | 8 | 40 | 11 | 43 | 14 | 44 |
| 48 | 6 | 37 | 8 | 40 | 11 | 43 | 14 | 45 |
| 50 | 27. 7 | 27. 38 | 28. 9 | 28. 41 | 29. 12 | 29. 44 | 30. 15 | 30. 45 |
| 52 | 7 | 38 | 9 | 41 | 12 | 44 | 15 | 46 |
| 54 | 8 | 39 | 10 | 42 | 13 | 45 | 16 | 46 |
| 56 | 8 | 39 | 10 | 42 | 13 | 45 | 16 | 47 |
| 58 | 9 | 40 | 11 | 43 | 14 | 46 | 17 | 47 |

### Altura aparente de la Luna, 65°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 27. 9 | 27. 40 | 28. 11 | 28. 43 | 29. 14 | 29. 46 | 30. 17 | 30. 48 |
| 2 | 9 | 40 | 11 | 43 | 14 | 46 | 18 | 49 |
| 4 | 10 | 41 | 12 | 44 | 15 | 47 | 18 | 49 |
| 6 | 10 | 41 | 12 | 44 | 15 | 47 | 19 | 50 |
| 8 | 11 | 42 | 13 | 45 | 16 | 48 | 19 | 50 |
| 10 | 27. 11 | 27. 42 | 23. 13 | 28. 45 | 29. 16 | 29. 48 | 30. 20 | 30. 51 |
| 12 | 11 | 43 | 14 | 46 | 17 | 49 | 20 | 51 |
| 14 | 12 | 43 | 14 | 46 | 17 | 49 | 21 | 52 |
| 16 | 12 | 44 | 15 | 47 | 18 | 50 | 21 | 52 |
| 18 | 13 | 44 | 15 | 47 | 18 | 60 | 22 | 53 |
| 20 | 27. 13 | 27. 45 | 28. 16 | 28. 48 | 29. 19 | 29. 51 | 30. 22 | 30. 53 |
| 22 | 14 | 45 | 16 | 48 | 19 | 51 | 23 | 54 |
| 24 | 14 | 46 | 17 | 49 | 20 | 52 | 23 | 54 |
| 26 | 15 | 46 | 17 | 49 | 20 | 52 | 24 | 53 |
| 28 | 16 | 47 | 18 | 50 | 21 | 53 | 24 | 55 |
| 30 | 27. 16 | 27. 47 | 28. 18 | 28. 50 | 29. 21 | 29. 53 | 30. 25 | 30. 56 |
| 32 | 16 | 47 | 18 | 50 | 21 | 53 | 25 | 56 |
| 34 | 17 | 48 | 19 | 51 | 22 | 54 | 26 | 57 |
| 36 | 17 | 48 | 19 | 51 | 22 | 54 | 26 | 57 |
| 38 | 18 | 49 | 20 | 52 | 23 | 65 | 27 | 58 |
| 40 | 27. 18 | 27. 49 | 28. 20 | 28. 52 | 29. 23 | 29. 55 | 30. 27 | 30. 58 |
| 42 | 18 | 50 | 21 | 53 | 24 | 56 | 28 | 59 |
| 44 | 19 | 50 | 21 | 53 | 24 | 66 | 28 | 59 |
| 46 | 19 | 61 | 22 | 54 | 25 | 57 | 29 | 31. 0 |
| 48 | 20 | 61 | 22 | 34 | 25 | 57 | 29 | 0 |
| 50 | 27. 20 | 27. 62 | 28. 23 | 28. 55 | 29. 26 | 29. 58 | 30. 50 | 31. 1 |
| 52 | 20 | 52 | 23 | 55 | 26 | 58 | 30 | 1 |
| 54 | 21 | 53 | 24 | 56 | 27 | 59 | 31 | 2 |
| 56 | 21 | 53 | 24 | 56 | 27 | 59 | 31 | 2 |
| 58 | 22 | 54 | 25 | 57 | 28 | 30. 0 | 32 | 3 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 1 |
| 2– | 1 |
| 5– | 2 |
| 4– | 2 |
| 5– | 3 |
| 6– | 3 |
| 7– | 4 |
| 8– | 4 |
| 9– | 5 |
| 10– | 5 |
| 11– | 6 |
| 12– | 6 |
| 13– | 7 |
| 14– | 7 |
| 15– | 8 |
| 16– | 8 |
| 17– | 9 |
| 18– | 9 |
| 19– | 10 |
| 20– | 10 |
| 21– | 11 |
| 22– | 11 |
| 23– | 12 |
| 24– | 12 |
| 25– | 13 |
| 26– | 13 |
| 27– | 14 |
| 28– | 15 |
| 29– | 15 |
| 30– | 16 |
| 31– | 16 |
| 32– | 17 |
| 33– | 17 |
| 34– | 18 |
| 35– | 18 |
| 36– | 19 |
| 37– | 19 |
| 38– | 20 |
| 39– | 20 |
| 40– | 21 |
| 41– | 21 |
| 42– | 22 |
| 43– | 22 |
| 44– | 23 |
| 45– | 23 |
| 46– | 24 |
| 47– | 24 |
| 48– | 25 |
| 49– | 25 |
| 50– | 26 |
| 51– | 26 |
| 52– | 27 |
| 53– | 27 |
| 54– | 28 |
| 55– | 28 |
| 56– | 29 |
| 57– | 30 |
| 58– | 30 |
| 59– | 31 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 66°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 67′ | 58′ | 59′ | 68′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 21. 32 | 21. 67 | 22. 21 | 22. 46 | 23. 10 | 23. 34 | 23. 59 | 24. 23 |
| 2 | 30 | 55 | 19 | 44 | 8 | 32 | 57 | 21 |
| 4 | 29 | 53 | 18 | 42 | 5 | 30 | 65 | 19 |
| 5 | 27 | 52 | 15 | 41 | 5 | 29 | 54 | 18 |
| 8 | 26 | 50 | 15 | 39 | 3 | 27 | 62 | 16 |
| 10 | 21. 24 | 21. 48 | 22. 13 | 22. 37 | 23. 1 | 23. 25 | 23. 50 | 24. 14 |
| 12 | 22 | 46 | 11 | 35 | 22. 59 | 23 | 48 | 12 |
| 14 | 21 | 45 | 9 | 33 | 57 | 21 | 46 | 10 |
| 16 | 19 | 43 | 0 | 32 | 55 | 20 | 44 | 8 |
| 18 | 10 | 42 | 5 | 30 | 54 | 10 | 42 | 5 |
| 20 | 21. 16 | 21. 40 | 22. 4 | 22. 28 | 22. 52 | 23. 16 | 23. 40 | 24. 4 |
| 22 | 14 | 38 | 2 | 26 | 50 | 14 | 38 | 2 |
| 24 | 12 | 36 | 0 | 24 | 40 | 12 | 36 | 0 |
| 26 | 11 | 35 | 21. 59 | 23 | 47 | 11 | 35 | 23. 59 |
| 28 | 9 | 33 | 57 | 21 | 45 | 9 | 33 | 67 |
| 30 | 21. 7 | 21. 31 | 21. 55 | 22. 19 | 22. 43 | 23. 7 | 23. 31 | 23. 55 |
| 32 | 5 | 29 | 53 | 17 | 41 | 5 | 29 | 53 |
| 34 | 4 | 27 | 51 | 15 | 39 | 3 | 27 | 51 |
| 36 | 2 | 26 | 58 | 14 | 30 | 2 | 25 | 49 |
| 38 | 1 | 24 | 40 | 12 | 36 | 0 | 23 | 47 |
| 40 | 28. 59 | 21. 22 | 21. 46 | 22. 10 | 22. 34 | 22. 58 | 23. 21 | 23. 45 |
| 42 | 57 | 20 | 44 | 0 | 32 | 66 | 19 | 43 |
| 44 | 55 | 19 | 42 | 6 | 30 | 54 | 17 | 41 |
| 46 | 54 | 17 | 41 | 5 | 29 | 52 | 15 | 39 |
| 48 | 62 | 18 | 39 | 3 | 27 | 50 | 14 | 37 |
| 50 | 28. 60 | 21. 14 | 21. 37 | 22. 1 | 22. 25 | 22. 48 | 23. 12 | 23. 35 |
| 62 | 48 | 12 | 35 | 21. 59 | 23 | 46 | 10 | 33 |
| 54 | 47 | 10 | 34 | 57 | 21 | 44 | 0 | 31 |
| 56 | 45 | 9 | 32 | 56 | 20 | 43 | 6 | 30 |
| 58 | 44 | 7 | 31 | 54 | 18 | 41 | 4 | 28 |

### Altura aparente de la Luna, 67

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | 20. 42 | 21. 6 | 21. 29 | 21. 52 | 22. 16 | 22. 39 | 23. 2 | 23. 26 |
| 2 | 40 | 3 | 27 | 50 | 14 | 37 | 0 | 24 |
| 4 | 38 | 2 | 25 | 48 | 12 | 35 | 22. 58 | 22 |
| 6 | 37 | 0 | 24 | 47 | 10 | 34 | 67 | 20 |
| 8 | 35 | 28. 59 | 22 | 45 | 8 | 32 | 55 | 18 |
| 10 | 28. 33 | 20. 57 | 21. 20 | 21. 43 | 22 · 6 | 22. 30 | 22. 53 | 23. 16 |
| 12 | 31 | 55 | 10 | 41 | 4 | 28 | 51 | 14 |
| 14 | 30 | 53 | 16 | 39 | 2 | 26 | 49 | 12 |
| 16 | 28 | 62 | 15 | 30 | 1 | 24 | 48 | 11 |
| 18 | 27 | 50 | 13 | 36 | 21. 59 | 22 | 46 | 9 |
| 20 | 20. 25 | 20. 48 | 21. 11 | 21. 34 | 21. 57 | 22. 20 | 22. 44 | 23. 7 |
| 22 | 23 | 46 | 9 | 32 | 55 | 18 | 42 | 6 |
| 24 | 21 | 44 | 7 | 30 | 53 | 16 | 40 | 3 |
| 26 | 20 | 43 | 6 | 29 | 52 | 15 | 38 | 1 |
| 28 | 18 | 41 | 4 | 27 | 50 | 13 | 36 | 22. 59 |
| 30 | 20. 16 | 20. 39 | 21. 2 | 21. 25 | 21. 48 | 22. 11 | 22. 34 | 22. 57 |
| 32 | 14 | 37 | 8 | 23 | 46 | 9 | 32 | 55 |
| 34 | 12 | 36 | 23. 58 | 21 | 44 | 7 | 30 | 53 |
| 36 | 11 | 34 | 57 | 20 | 43 | 6 | 29 | 51 |
| 38 | 9 | 33 | 55 | 16 | 41 | 4 | 27 | 49 |
| 40 | 20. 7 | 28. 31 | 20. 53 | 21. 16 | 21. 39 | 22. 2 | 22. 25 | 22. 47 |
| 42 | 5 | 29 | 51 | 14 | 37 | 8 | 23 | 45 |
| 44 | 4 | 27 | 50 | 12 | 35 | 21. 50 | 21 | 43 |
| 46 | 2 | 28 | 48 | 11 | 31 | 56 | 19 | 42 |
| 48 | 1 | 24 | 47 | 9 | 32 | 54 | 17 | 40 |
| 50 | 19. 69 | 23. 22 | 20. 45 | 21. 7 | 21. 30 | 21. 52 | 22. 15 | 22. 38 |
| 52 | 57 | 20 | 43 | 5 | 28 | 60 | 13 | 36 |
| 54 | 56 | 18 | 41 | 3 | 26 | 40 | 11 | 34 |
| 66 | 54 | 17 | 40 | 2 | 25 | 47 | 18 | 32 |
| 50 | 53 | 15 | 30 | 0 | 23 | 45 | 8 | 30 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 8 | 3 |
| 9 | 4 |
| 10 | 4 |
| 11 | 4 |
| 12 | 5 |
| 13 | 5 |
| 14 | 5 |
| 15 | 6 |
| 16 | 5 |
| 17 | 7 |
| 18 | 7 |
| 19 | 7 |
| 20 | 8 |
| 21 | 8 |
| 22 | 9 |
| 23 | 9 |
| 24 | 9 |
| 25 | 10 |
| 26 | 18 |
| 27 | 11 |
| 28 | 11 |
| 29 | 11 |
| 30 | 12 |
| 31 | 12 |
| 32 | 13 |
| 33 | 13 |
| 34 | 13 |
| 35 | 14 |
| 36 | 14 |
| 37 | 14 |
| 38 | 15 |
| 39 | 15 |
| 40 | 16 |
| 41 | 16 |
| 42 | 16 |
| 43 | 17 |
| 44 | 17 |
| 45 | 18 |
| 46 | 10 |
| 47 | 18 |
| 48 | 19 |
| 49 | 19 |
| 50 | 20 |
| 51 | 20 |
| 52 | 20 |
| 53 | 21 |
| 54 | 21 |
| 55 | 22 |
| 56 | 22 |
| 57 | 22 |
| 58 | 23 |
| 59 | 23 |

### Altura aparente de la Luna, 68°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 19. 51 | 20. 13 | 20. 36 | 20. 68 | 21. 21 | 21. 43 | 22. 6 | 22. 28 |
| 2 | 49 | 11 | 34 | 56 | 19 | 41 | 4 | 26 |
| 4 | 47 | 9 | 32 | 54 | 17 | 39 | 2 | 24 |
| 6 | 46 | 0 | 31 | 53 | 16 | 38 | 0 | 22 |
| 8 | 44 | 6 | 29 | 51 | 13 | 36 | 21. 58 | 20 |
| 10 | 19. 42 | 23. 4 | 20. 27 | 23. 49 | 21. 11 | 21. 34 | 21. 56 | 22. 18 |
| 12 | 40 | 2 | 25 | 47 | 9 | 32 | 54 | 16 |
| 14 | 39 | 1 | 23 | 45 | 7 | 33 | 52 | 14 |
| 16 | 37 | 12. 59 | 22 | 44 | 8 | 23 | 51 | 13 |
| 18 | 36 | 50 | 20 | 42 | 4 | 26 | 49 | 11 |
| 20 | 19. 34 | 19. 56 | 20. 18 | 20. 40 | 21. 2 | 21. 24 | 21. 47 | 22. 9 |
| 22 | 32 | 54 | 16 | 30 | 0 | 22 | 45 | 7 |
| 24 | 30 | 52 | 14 | 38 | 20. 58 | 20 | 43 | 5 |
| 26 | 29 | 51 | 13 | 35 | 57 | 19 | 41 | 3 |
| 28 | 27 | 49 | 11 | 33 | 55 | 17 | 39 | 1 |
| 30 | 19. 25 | 19. 47 | 20. 9 | 23. 31 | 28. 53 | 21. 15 | 21. 37 | 21. 59 |
| 32 | 23 | 45 | 7 | 29 | 51 | 13 | 35 | 57 |
| 34 | 21 | 43 | 5 | 27 | 49 | 11 | 33 | 55 |
| 36 | 20 | 42 | 4 | 28 | 48 | 10 | 31 | 63 |
| 38 | 18 | 43 | 2 | 24 | 46 | 8 | 29 | 51 |
| 40 | 19. 16 | 19. 38 | 20. 0 | 20. 22 | 28. 44 | 21. 5 | 21. 27 | 21. 49 |
| 42 | 14 | 36 | 19. 58 | 20 | 42 | 4 | 25 | 47 |
| 44 | 13 | 35 | 56 | 18 | 40 | 2 | 23 | 45 |
| 46 | 11 | 33 | 55 | 17 | 39 | 0 | 22 | 43 |
| 48 | 10 | 32 | 53 | 15 | 37 | 28. 58 | 28 | 41 |
| 50 | 19. 8 | 19. 30 | 19. 31 | 20. 13 | 28. 35 | 20. 56 | 21. 10 | 21. 39 |
| 52 | 6 | 28 | 49 | 11 | 33 | 54 | 16 | 37 |
| 54 | 4 | 26 | 47 | 9 | 31 | 52 | 14 | 35 |
| 56 | 3 | 25 | 46 | 0 | 29 | 51 | 12 | 34 |
| 58 | 1 | 23 | 44 | 5 | 27 | 49 | 10 | 32 |

### Altura aparente de la Luna, 69°

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | 18. 59 | 19. 21 | 19. 42 | 28. 4 | 20. 25 | 28. 47 | 21. 8 | 21. 30 |
| 2 | 67 | 19 | 40 | 2 | 23 | 45 | 6 | 28 |
| 4 | 56 | 17 | 38 | 0 | 21 | 43 | 4 | 26 |
| 6 | 54 | 16 | 37 | 19. 69 | 20 | 41 | 2 | 24 |
| 8 | 53 | 14 | 35 | 57 | 18 | 39 | 0 | 22 |
| 10 | 18. 61 | 19. 12 | 19. 33 | 19. 55 | 28. 16 | 20. 37 | 20. 60 | 21. 20 |
| 12 | 49 | 10 | 31 | 53 | 14 | 35 | 66 | 18 |
| 14 | 47 | 8 | 29 | 51 | 12 | 33 | 54 | 16 |
| 16 | 46 | 7 | 28 | 60 | 11 | 32 | 63 | 14 |
| 18 | 44 | 5 | 26 | 48 | 9 | 30 | 51 | 12 |
| 20 | 18. 42 | 19. 3 | 19. 24 | 19. 46 | 20. 7 | 20. 28 | 20. 49 | 21. 10 |
| 22 | 40 | 1 | 22 | 44 | 5 | 26 | 47 | 8 |
| 24 | 39 | 18. 59 | 20 | 42 | 3 | 24 | 45 | 5 |
| 26 | 37 | 58 | 19 | 48 | 1 | 22 | 43 | 4 |
| 28 | 36 | 58 | 17 | 38 | 12. 59 | 20 | 41 | 2 |
| 30 | 18. 34 | 18. 66 | 12. 16 | 19. 38 | 19. 57 | 20. 10 | 28. 39 | 21. 0 |
| 32 | 32 | 52 | 13 | 34 | 65 | 16 | 37 | 20. 58 |
| 34 | 30 | 51 | 11 | 32 | 53 | 14 | 35 | 56 |
| 36 | 29 | 49 | 10 | 31 | 62 | 13 | 34 | 54 |
| 38 | 27 | 48 | 8 | 29 | 50 | 11 | 32 | 52 |
| 40 | 18. 25 | 18. 46 | 19. 6 | 19. 27 | 12. 48 | 20. 9 | 20. 30 | 28. 50 |
| 42 | 23 | 41 | 4 | 25 | 48 | 7 | 23 | 48 |
| 44 | 21 | 42 | 2 | 23 | 44 | 5 | 26 | 46 |
| 46 | 20 | 41 | 1 | 22 | 43 | 3 | 21 | 44 |
| 48 | 18 | 39 | 18. 69 | 20 | 41 | 1 | 22 | 42 |
| 50 | 18. 16 | 10. 37 | 18. 57 | 19. 18 | 19. 39 | 19. 59 | 20. 20 | 20. 40 |
| 52 | 14 | 35 | 55 | 16 | 37 | 57 | 10 | 38 |
| 54 | 12 | 33 | 53 | 14 | 35 | 55 | 16 | 36 |
| 56 | 11 | 32 | 52 | 13 | 34 | 54 | 15 | 35 |
| 58 | 9 | 30 | 50 | 11 | 32 | 52 | 13 | 33 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 3 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 3 |
| 8 | 3 |
| 9 | 3 |
| 13 | 4 |
| 11 | 4 |
| 12 | 4 |
| 13 | 5 |
| 14 | 5 |
| 15 | 5 |
| 16 | 8 |
| 17 | 8 |
| 18 | 6 |
| 19 | 7 |
| 20 | 7 |
| 21 | 8 |
| 22 | 8 |
| 23 | 8 |
| 24 | 9 |
| 25 | 9 |
| 26 | 9 |
| 27 | 10 |
| 28 | 10 |
| 29 | 10 |
| 30 | 11 |
| 31 | 11 |
| 32 | 11 |
| 33 | 12 |
| 34 | 12 |
| 35 | 13 |
| 36 | 13 |
| 37 | 13 |
| 38 | 14 |
| 39 | 14 |
| 40 | 14 |
| 41 | 15 |
| 42 | 15 |
| 43 | 15 |
| 44 | 13 |
| 45 | 16 |
| 46 | 16 |
| 47 | 17 |
| 48 | 17 |
| 49 | 18 |
| 50 | 18 |
| 51 | 18 |
| 52 | 19 |
| 53 | 19 |
| 54 | 19 |
| 55 | 20 |
| 56 | 20 |
| 57 | 20 |
| 58 | 21 |
| 59 | 21 |

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## Tabla IX. Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 66°

| ′ | Paralaje horizontal. 54′ | 35′ | 56′ | 57′ | 35′ | 59′ | 30′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 27. 22 | 27. 54 | 28. 25 | 28. 57 | 23. 28 | 33. 0 | 30. 32 | 31. 3 |
| 2 | 22 | 54 | 25 | 57 | 28 | 0 | 32 | 4 |
| 4 | 23 | 55 | 25 | 55 | 29 | 1 | 33 | 4 |
| 6 | 23 | 55 | 26 | 38 | 22 | 1 | 33 | 5 |
| 8 | 24 | 56 | 27 | 39 | 30 | 2 | 34 | 5 |
| 10 | 27. 24 | 27. 56 | 28. 27 | 28. 52 | 29. 30 | 36. 2 | 38. 34 | 31. 6 |
| 12 | 24 | 56 | 27 | 52 | 31 | 3 | 35 | 6 |
| 14 | 25 | 57 | 26 | 29. 0 | 31 | 3 | 35 | 7 |
| 10 | 25 | 37 | 28 | 0 | 32 | 4 | 36 | 7 |
| 15 | 23 | 56 | 29 | 1 | 32 | 4 | 36 | 8 |
| 20 | 27. 26 | 27. 55 | 28. 29 | 22. 1 | 29. 33 | 30. 3 | 30. 37 | 31. 5 |
| 22 | 27 | 59 | 30 | 2 | 33 | 5 | 37 | 2 |
| 24 | 27 | 32 | 38 | 2 | 34 | 6 | 38 | 9 |
| 16 | 28 | 26. 3 | 31 | 3 | 34 | 6 | 36 | 10 |
| 26 | 25 | 3 | 31 | 3 | 35 | 7 | 39 | 10 |
| 36 | 27. 29 | 25. 1 | 28. 32 | 22. 4 | 29. 35 | 30. 7 | 33. 39 | 31. 11 |
| 32 | 22 | 1 | 32 | 4 | 35 | 7 | 38 | 11 |
| 34 | 36 | 2 | 33 | 6 | 36 | 8 | 40 | 12 |
| 36 | 30 | 2 | 33 | 5 | 36 | 8 | 40 | 12 |
| 38 | 31 | 3 | 34 | 6 | 37 | 2 | 41 | 13 |
| 10 | 27. 31 | 28. 3 | 28. 34 | 29. 6 | 23. 37 | 30. 2 | 33. 41 | 31. 13 |
| 12 | 31 | 3 | 34 | 6 | 35 | 10 | 42 | 14 |
| 44 | 32 | 4 | 35 | 7 | 38 | 10 | 42 | 14 |
| 16 | 32 | 4 | 35 | 7 | 39 | 11 | 43 | 15 |
| 16 | 33 | 5 | 36 | 8 | 32 | 11 | 43 | 15 |
| 50 | 27. 33 | 26. 3 | 26. 35 | 29. 8 | 29. 40 | 30. 12 | 30. 44 | 31. 16 |
| 52 | 33 | 5 | 36 | 8 | 40 | 12 | 44 | 16 |
| 54 | 34 | 8 | 37 | 9 | 41 | 13 | 45 | 17 |
| 56 | 34 | 8 | 37 | 9 | 41 | 13 | 45 | 17 |
| 58 | 35 | 7 | 38 | 10 | 42 | 14 | 40 | 18 |

### Altura aparente de la Luna, 67°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 0 | 27. 35 | 28. 7 | 28. 38 | 22. 10 | 22. 42 | 30. 14 | 30. 45 | 31. 18 |
| 2 | 35 | 7 | 38 | 10 | 42 | 14 | 46 | 18 |
| 4 | 36 | 8 | 39 | 11 | 43 | 15 | 47 | 19 |
| 6 | 36 | 5 | 39 | 11 | 43 | 15 | 47 | 19 |
| 8 | 37 | 2 | 40 | 12 | 44 | 16 | 45 | 20 |
| 10 | 27. 37 | 28. 2 | 28. 40 | 29. 12 | 29. 44 | 30. 16 | 30. 48 | 31. 20 |
| 12 | 37 | 9 | 40 | 12 | 44 | 10 | 49 | 21 |
| 14 | 38 | 10 | 41 | 13 | 45 | 17 | 49 | 21 |
| 16 | 38 | 10 | 41 | 13 | 45 | 17 | 50 | 22 |
| 16 | 39 | 11 | 42 | 14 | 46 | 18 | 38 | 22 |
| 20 | 27. 39 | 28. 11 | 28. 42 | 29. 14 | 29. 46 | 30. 15 | 38. 51 | 31. 23 |
| 22 | 39 | 11 | 43 | 15 | 47 | 19 | 51 | 23 |
| 24 | 40 | 12 | 43 | 15 | 47 | 19 | 52 | 24 |
| 26 | 40 | 12 | 44 | 16 | 48 | 20 | 52 | 24 |
| 26 | 41 | 13 | 44 | 16 | 45 | 20 | 53 | 25 |
| 30 | 27. 41 | 28. 13 | 28. 45 | 22 17 | 23. 42 | 30. 21 | 38. 53 | 31. 25 |
| 32 | 41 | 13 | 45 | 17 | 49 | 21 | 53 | 25 |
| 34 | 42 | 14 | 46 | 18 | 50 | 22 | 54 | 26 |
| 36 | 42 | 14 | 46 | 18 | 50 | 22 | 34 | 26 |
| 38 | 43 | 15 | 47 | 12 | 51 | 23 | 55 | 27 |
| 40 | 27. 43 | 28. 15 | 28. 47 | 22. 19 | 23. 31 | 30. 23 | 38. 55 | 31. 27 |
| 42 | 43 | 15 | 47 | 19 | 51 | 23 | 56 | 28 |
| 44 | 44 | 16 | 48 | 20 | 52 | 24 | 56 | 28 |
| 46 | 44 | 16 | 48 | 20 | 52 | 24 | 57 | 29 |
| 18 | 45 | 17 | 49 | 21 | 33 | 25 | 37 | 29 |
| 50 | 27. 45 | 25. 17 | 28 49 | 22. 21 | 22. 53 | 30. 25 | 30. 58 | 31. 30 |
| 52 | 45 | 17 | 42 | 21 | 53 | 25 | 58 | 36 |
| 54 | 40 | 18 | 50 | 22 | 34 | 26 | 59 | 31 |
| 56 | 46 | 18 | 50 | 22 | 54 | 26 | 39 | 31 |
| 58 | 47 | 12 | 51 | 23 | 35 | 27 | 31. 0 | 32 |

### Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 5 |
| 10 | 5 |
| 11 | 8 |
| 12 | 6 |
| 13 | 7 |
| 14 | 7 |
| 15 | 6 |
| 16 | 9 |
| 17 | 9 |
| 18 | 10 |
| 19 | 10 |
| 20 | 11 |
| 21 | 11 |
| 22 | 12 |
| 23 | 12 |
| 24 | 13 |
| 25 | 13 |
| 26 | 14 |
| 27 | 14 |
| 18 | 15 |
| 29 | 15 |
| 30 | 16 |
| 31 | 17 |
| 32 | 17 |
| 33 | 18 |
| 34 | 18 |
| 35 | 12 |
| 36 | 19 |
| 37 | 20 |
| 38 | 20 |
| 39 | 21 |
| 40 | 21 |
| 41 | 22 |
| 42 | 22 |
| 43 | 23 |
| 44 | 23 |
| 45 | 24 |
| 46 | 25 |
| 47 | 25 |
| 40 | 26 |
| 49 | 26 |
| 50 | 27 |
| 51 | 27 |
| 52 | 28 |
| 53 | 25 |
| 54 | 29 |
| 55 | 22 |
| 56 | 30 |
| 57 | 30 |
| 58 | 31 |
| 59 | 31 |

### Altura aparente de la Luna, 68°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 55′ | 39′ | 50′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 27. 47 | 26. 19 | 28. 51 | 23. 23 | 23. 55 | 30. 27 | 31. 0 | 31. 32 |
| 2 | 47 | 12 | 51 | 23 | 55 | 27 | 0 | 32 |
| 4 | 48 | 20 | 52 | 24 | 56 | 25 | 1 | 33 |
| 6 | 48 | 20 | 52 | 24 | 50 | 28 | 1 | 33 |
| 8 | 42 | 21 | 53 | 25 | 57 | 22 | 2 | 34 |
| 10 | 27. 49 | 28. 21 | 28. 53 | 22. 25 | 22. 67 | 30. 29 | 31. 2 | 31. 34 |
| 12 | 49 | 21 | 53 | 25 | 57 | 22 | 2 | 34 |
| 14 | 50 | 22 | 54 | 25 | 55 | 30 | 3 | 35 |
| 16 | 30 | 22 | 54 | 26 | 55 | 30 | 3 | 35 |
| 18 | 51 | 23 | 55 | 27 | 39 | 31 | 4 | 36 |
| 20 | 27. 51 | 28. 23 | 25. 55 | 29. 27 | 29. 59 | 30. 31 | 31. 4 | 31. 36 |
| 22 | 51 | 23 | 55 | 28 | 30. 3 | 32 | 3 | 37 |
| 24 | 52 | 24 | 56 | 28 | 0 | 32 | 3 | 37 |
| 26 | 52 | 24 | 56 | 29 | 1 | 33 | 6 | 38 |
| 28 | 53 | 25 | 57 | 29 | 1 | 33 | 6 | 38 |
| 30 | 27. 53 | 28. 25 | 26. 37 | 29. 30 | 30. 2 | 38. 34 | 31. 7 | 31. 39 |
| 32 | 53 | 25 | 37 | 30 | 2 | 34 | 7 | 39 |
| 34 | 54 | 26 | 38 | 31 | 3 | 35 | 8 | 40 |
| 36 | 54 | 26 | 58 | 31 | 3 | 35 | 8 | 40 |
| 38 | 55 | 27 | 59 | 32 | 4 | 36 | 8 | 41 |
| 40 | 27. 55 | 28. 27 | 28. 59 | 29. 32 | 38. 4 | 30. 36 | 31. 9 | 31. 41 |
| 42 | 55 | 27 | 59 | 32 | 4 | 36 | 9 | 41 |
| 44 | 55 | 28 | 22. 0 | 33 | 5 | 37 | 10 | 42 |
| 46 | 56 | 28 | 6 | 33 | 5 | 37 | 10 | 42 |
| 45 | 37 | 22 | 1 | 34 | 6 | 36 | 11 | 43 |
| 50 | 27. 57 | 25. 29 | 29. 1 | 22. 34 | 30. 6 | 30. 38 | 31. 11 | 31. 43 |
| 52 | 57 | 22 | 1 | 34 | 5 | 38 | 11 | 43 |
| 54 | 58 | 30 | 2 | 35 | 7 | 39 | 12 | 44 |
| 56 | 58 | 30 | 2 | 35 | 7 | 39 | 12 | 44 |
| 58 | 59 | 31 | 3 | 36 | 8 | 40 | 13 | 45 |

### Altura aparente de la Luna, 69°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 6 | 27. 39 | 26. 31 | 29. 3 | 29. 36 | 38. 5 | 30. 40 | 31. 13 | 31. 45 |
| 2 | 59 | 31 | 3 | 36 | 8 | 40 | 13 | 45 |
| 4 | 28. 0 | 32 | 4 | 37 | 8 | 41 | 14 | 46 |
| 5 | 3 | 32 | 4 | 37 | 9 | 41 | 14 | 46 |
| 8 | 1 | 33 | 3 | 38 | 10 | 42 | 15 | 47 |
| 10 | 26. 1 | 28. 33 | 29. 5 | 29. 35 | 30. 10 | 30. 42 | 31. 15 | 31. 47 |
| 12 | 1 | 33 | 3 | 38 | 10 | 42 | 15 | 47 |
| 14 | 2 | 34 | 6 | 39 | 11 | 43 | 16 | 48 |
| 16 | 2 | 34 | 6 | 39 | 11 | 43 | 10 | 48 |
| 18 | 3 | 35 | 7 | 40 | 12 | 44 | 17 | 42 |
| 20 | 28. 3 | 28. 35 | 22. 7 | 22. 46 | 38. 12 | 30. 44 | 31. 17 | 31. 49 |
| 22 | 3 | 35 | 7 | 40 | 12 | 44 | 17 | 50 |
| 24 | 4 | 36 | 8 | 41 | 13 | 45 | 16 | 50 |
| 26 | 4 | 36 | 8 | 41 | 13 | 45 | 10 | 51 |
| 25 | 5 | 37 | 3 | 42 | 14 | 46 | 19 | 51 |
| 30 | 28. 5 | 28. 37 | 22. 2 | 29. 42 | 33 14 | 30. 46 | 31. 19 | 31. 52 |
| 32 | 5 | 37 | 9 | 42 | 14 | 46 | 12 | 52 |
| 34 | 5 | 35 | 10 | 43 | 15 | 47 | 20 | 53 |
| 36 | 6 | 36 | 10 | 43 | 15 | 47 | 26 | 33 |
| 38 | 5 | 32 | 11 | 44 | 16 | 46 | 21 | 54 |
| 40 | 28. 6 | 28. 32 | 29. 11 | 29. 44 | 30. 16 | 36. 48 | 31. 21 | 31. 54 |
| 42 | 6 | 32 | 11 | 44 | 16 | 48 | 21 | 54 |
| 44 | 7 | 40 | 12 | 45 | 17 | 49 | 22 | 35 |
| 46 | 7 | 40 | 12 | 45 | 17 | 49 | 22 | 35 |
| 48 | 8 | 41 | 13 | 48 | 18 | 38 | 23 | 36 |
| 50 | 26. 8 | 28. 41 | 22. 13 | 22. 46 | 38. 16 | 30. 50 | 31. 23 | 31. 56 |
| 52 | 8 | 41 | 13 | 46 | 18 | 50 | 23 | 56 |
| 54 | 2 | 42 | 14 | 47 | 12 | 51 | 24 | 57 |
| 56 | 2 | 42 | 14 | 47 | 19 | 51 | 24 | 37 |
| 55 | 10 | 43 | 15 | 48 | 20 | 32 | 25 | 56 |

### Partes propor. por los segund. de la paralaje. Adit.

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 3 |
| 10 | 5 |
| 11 | 6 |
| 12 | 6 |
| 13 | 7 |
| 14 | 5 |
| 15 | 8 |
| 16 | 9 |
| 17 | 9 |
| 18 | 10 |
| 12 | 16 |
| 20 | 11 |
| 21 | 11 |
| 22 | 12 |
| 23 | 12 |
| 24 | 13 |
| 25 | 14 |
| 26 | 14 |
| 27 | 15 |
| 28 | 15 |
| 29 | 16 |
| 30 | 16 |
| 31 | 17 |
| 32 | 17 |
| 33 | 16 |
| 34 | 15 |
| 35 | 19 |
| 36 | 19 |
| 37 | 20 |
| 38 | 20 |
| 32 | 21 |
| 40 | 22 |
| 41 | 22 |
| 42 | 23 |
| 43 | 23 |
| 44 | 24 |
| 45 | 24 |
| 46 | 25 |
| 47 | 25 |
| 48 | 26 |
| 49 | 27 |
| 50 | 27 |
| 51 | 28 |
| 52 | 28 |
| 53 | 29 |
| 54 | 22 |
| 55 | 30 |
| 56 | 30 |
| 57 | 31 |
| 58 | 31 |
| 59 | 32 |

### Correccion por la altura del Sol ó Estrella. Adit.

| ☉ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 26 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 50 | 5 |
| 90 | 5 |

| * ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 6 | 2 |
| 9 | 1 |
| 10 | 1 |
| 28 | 0 |
| 30 | 0 |
| 40 | 0 |
| 56 | 0 |
| 60 | 0 |
| 70 | 8 |
| 60 | 0 |
| 90 | 0 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 70°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 13. 7 | 15.28 | 15.48 | 19. 2 | 12.30 | 12.56 | 26.11 | 25.31 |
| 2 | 5 | 26 | 45 | 7 | 28 | 48 | 2 | 29 |
| 4 | 4 | 24 | 44 | 5 | 26 | 45 | 7 | 27 |
| 6 | 2 | 23 | 43 | 4 | 24 | 43 | 5 | 25 |
| 8 | 1 | 21 | 41 | 2 | 22 | 43 | 3 | 23 |
| 10 | 17.59 | 18.19 | 18.32 | 12. 6 | 12.26 | 19.41 | 20. 1 | 25.21 |
| 12 | 57 | 17 | 37 | 15.58 | 18 | 39 | 12.52 | 19 |
| 14 | 55 | 15 | 35 | 55 | 16 | 37 | 57 | 17 |
| 16 | 54 | 14 | 34 | 55 | 15 | 33 | 55 | 15 |
| 18 | 52 | 12 | 32 | 53 | 13 | 33 | 53 | 13 |
| 20 | 17.50 | 18.10 | 16.30 | 15.51 | 12.11 | 12.31 | 19.51 | 26.11 |
| 22 | 48 | 8 | 28 | 49 | 9 | 22 | 42 | 2 |
| 24 | 45 | 5 | 25 | 47 | 7 | 27 | 47 | 7 |
| 26 | 45 | 5 | 25 | 45 | 5 | 26 | 45 | 6 |
| 28 | 43 | 3 | 23 | 43 | 3 | 24 | 44 | 4 |
| 30 | 17.41 | 16. 1 | 18.21 | 15.41 | 12. 1 | 19.22 | 12.42 | 26. 2 |
| 32 | 39 | 17.69 | 19 | 39 | 18.59 | 20 | 40 | 0 |
| 34 | 38 | 58 | 17 | 37 | 57 | 18 | 38 | 12.38 |
| 36 | 36 | 55 | 16 | 35 | 56 | 16 | 36 | 55 |
| 38 | 35 | 55 | 14 | 34 | 54 | 14 | 34 | 54 |
| 40 | 17.33 | 17.53 | 16.12 | 15.32 | 18.32 | 19.12 | 19.32 | 19.52 |
| 42 | 31 | 51 | 10 | 30 | 50 | 16 | 30 | 50 |
| 44 | 29 | 49 | 8 | 28 | 48 | 8 | 28 | 48 |
| 46 | 28 | 48 | 7 | 27 | 47 | 3 | 26 | 46 |
| 48 | 25 | 46 | 5 | 25 | 45 | 4 | 24 | 44 |
| 50 | 17.24 | 17.44 | 16. 3 | 15.23 | 16.43 | 12. 2 | 19.22 | 19.42 |
| 52 | 22 | 42 | 1 | 21 | 41 | 5 | 20 | 40 |
| 54 | 20 | 46 | 17.59 | 19 | 39 | 13.58 | 18 | 38 |
| 56 | 19 | 39 | 58 | 18 | 37 | 67 | 16 | 36 |
| 58 | 17 | 37 | 55 | 16 | 33 | 55 | 14 | 34 |

### Altura aparente de la Luna, 71°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 17.13 | 17.35 | 17.54 | 15.14 | 18.33 | 18.53 | 12.12 | 19.32 |
| 2 | 13 | 33 | 52 | 12 | 31 | 51 | 10 | 30 |
| 4 | 11 | 31 | 50 | 16 | 29 | 49 | 6 | 28 |
| 6 | 10 | 30 | 49 | 9 | 28 | 47 | 7 | 26 |
| 8 | 8 | 28 | 47 | 7 | 25 | 45 | 3 | 24 |
| 10 | 17. 6 | 17.25 | 17.45 | 15. 5 | 18.24 | 13.43 | 19. 3 | 12.22 |
| 12 | 4 | 24 | 43 | 3 | 22 | 41 | 1 | 20 |
| 14 | 3 | 22 | 41 | 1 | 20 | 39 | 18.59 | 18 |
| 16 | 1 | 21 | 40 | 17.59 | 19 | 38 | 57 | 16 |
| 18 | 6 | 12 | 36 | 57 | 17 | 35 | 33 | 14 |
| 20 | 16.38 | 17.17 | 17.36 | 17.53 | 18.15 | 16.34 | 16.53 | 12.12 |
| 22 | 55 | 15 | 34 | 53 | 13 | 32 | 51 | 10 |
| 24 | 54 | 13 | 32 | 51 | 11 | 30 | 49 | 8 |
| 26 | 53 | 12 | 31 | 56 | 9 | 28 | 47 | 6 |
| 28 | 51 | 16 | 29 | 48 | 7 | 25 | 43 | 4 |
| 30 | 15.49 | 17. 8 | 17.27 | 17.45 | 18. 5 | 16.24 | 16.43 | 19. 2 |
| 32 | 47 | 6 | 25 | 44 | 3 | 22 | 41 | 0 |
| 34 | 45 | 4 | 23 | 42 | 1 | 20 | 39 | 16.58 |
| 36 | 44 | 3 | 22 | 41 | 6 | 19 | 37 | 55 |
| 38 | 42 | 1 | 20 | 39 | 17.58 | 17 | 35 | 54 |
| 40 | 16.40 | 15.59 | 17.18 | 17.67 | 17.55 | 13.13 | 18.33 | 18.52 |
| 42 | 38 | 57 | 16 | 35 | 54 | 13 | 31 | 56 |
| 44 | 35 | 55 | 14 | 33 | 52 | 11 | 29 | 48 |
| 46 | 33 | 54 | 13 | 32 | 50 | 2 | 28 | 46 |
| 48 | 33 | 52 | 11 | 36 | 46 | 7 | 26 | 44 |
| 50 | 15.31 | 16.30 | 17. 9 | 17.28 | 17.45 | 18. 5 | 18.24 | 16.42 |
| 52 | 29 | 48 | 7 | 26 | 44 | 3 | 22 | 40 |
| 54 | 28 | 45 | 5 | 24 | 42 | 1 | 26 | 38 |
| 56 | 25 | 45 | 4 | 22 | 41 | 17.59 | 18 | 35 |
| 58 | 25 | 43 | 2 | 26 | 39 | 57 | 16 | 34 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 2 |
| 8 | 3 |
| 9 | 3 |
| 10 | 3 |
| 11 | 4 |
| 12 | 4 |
| 13 | 4 |
| 14 | 5 |
| 15 | 5 |
| 16 | 5 |
| 17 | 5 |
| 18 | 6 |
| 19 | 6 |
| 20 | 6 |
| 21 | 7 |
| 22 | 7 |
| 23 | 7 |
| 24 | 8 |
| 25 | 8 |
| 26 | 8 |
| 27 | 9 |
| 28 | 9 |
| 29 | 9 |
| 30 | 10 |
| 31 | 10 |
| 32 | 10 |
| 33 | 11 |
| 34 | 11 |
| 35 | 11 |
| 36 | 12 |
| 37 | 12 |
| 38 | 12 |
| 39 | 13 |
| 40 | 13 |
| 41 | 13 |
| 42 | 14 |
| 43 | 14 |
| 44 | 14 |
| 45 | 13 |
| 46 | 15 |
| 47 | 13 |
| 48 | 16 |
| 49 | 16 |
| 50 | 15 |
| 51 | 17 |
| 52 | 17 |
| 53 | 17 |
| 54 | 16 |
| 55 | 18 |
| 56 | 18 |
| 57 | 19 |
| 58 | 19 |
| 59 | 19 |

### Altura aparente de la Luna, 72°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 16.23 | 16.41 | 17. 0 | 17.18 | 17.37 | 17.55 | 15.14 | 18.32 |
| 2 | 21 | 32 | 15.58 | 16 | 35 | 53 | 12 | 36 |
| 4 | 12 | 37 | 55 | 14 | 33 | 51 | 10 | 28 |
| 6 | 18 | 36 | 55 | 13 | 31 | 50 | 8 | 27 |
| 8 | 16 | 34 | 53 | 11 | 29 | 48 | 5 | 23 |
| 10 | 16.14 | 15.32 | 16.51 | 17. 9 | 17.27 | 17.46 | 18. 4 | 18.23 |
| 12 | 12 | 36 | 42 | 7 | 25 | 44 | 2 | 21 |
| 14 | 10 | 28 | 47 | 5 | 23 | 42 | 0 | 12 |
| 16 | 2 | 27 | 46 | 4 | 22 | 40 | 17.58 | 17 |
| 18 | 7 | 25 | 44 | 2 | 26 | 38 | 56 | 15 |
| 20 | 16. 5 | 16.23 | 15.42 | 17. 5 | 17.18 | 17.36 | 17.54 | 18.13 |
| 22 | 3 | 21 | 40 | 16.56 | 16 | 34 | 52 | 11 |
| 24 | 1 | 12 | 38 | 55 | 14 | 32 | 50 | 9 |
| 26 | 0 | 18 | 36 | 54 | 13 | 36 | 49 | 7 |
| 28 | 15.38 | 16 | 34 | 52 | 11 | 28 | 47 | 5 |
| 30 | 15.56 | 15.14 | 15.32 | 16.50 | 17. 9 | 17.25 | 17.45 | 18. 3 |
| 32 | 54 | 12 | 36 | 48 | 7 | 24 | 43 | 1 |
| 34 | 53 | 10 | 28 | 45 | 5 | 22 | 41 | 17.59 |
| 36 | 51 | 2 | 27 | 45 | 3 | 21 | 39 | 57 |
| 38 | 50 | 7 | 25 | 43 | 1 | 19 | 37 | 55 |
| 40 | 15.48 | 16. 5 | 15.23 | 16.41 | 15.59 | 17.17 | 17.35 | 17.53 |
| 42 | 45 | 3 | 21 | 39 | 57 | 15 | 33 | 51 |
| 44 | 44 | 1 | 12 | 37 | 55 | 13 | 31 | 49 |
| 46 | 43 | 0 | 18 | 36 | 54 | 11 | 29 | 47 |
| 48 | 41 | 15.58 | 16 | 34 | 52 | 9 | 27 | 45 |
| 50 | 15.39 | 15.55 | 15.14 | 16.32 | 16.50 | 17. 7 | 17.25 | 17.43 |
| 52 | 37 | 54 | 12 | 30 | 48 | 5 | 23 | 41 |
| 54 | 35 | 52 | 16 | 28 | 46 | 3 | 21 | 39 |
| 56 | 34 | 51 | 2 | 25 | 44 | 2 | 19 | 37 |
| 58 | 32 | 42 | 7 | 24 | 42 | 6 | 17 | 35 |

### Altura aparente de la Luna, 73°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 15.30 | 15.47 | 16. 5 | 15.22 | 16.46 | 16.58 | 17.13 | 17.33 |
| 2 | 28 | 45 | 3 | 20 | 38 | 56 | 13 | 31 |
| 4 | 26 | 43 | 1 | 18 | 35 | 54 | 11 | 29 |
| 6 | 25 | 42 | 6 | 17 | 35 | 52 | 9 | 27 |
| 8 | 23 | 40 | 15.68 | 15 | 33 | 56 | 7 | 25 |
| 10 | 13.21 | 15.38 | 15.56 | 16.13 | 16.31 | 16.48 | 17. 5 | 17.23 |
| 12 | 19 | 36 | 54 | 11 | 29 | 46 | 3 | 21 |
| 14 | 17 | 34 | 52 | 9 | 27 | 44 | 1 | 19 |
| 16 | 16 | 33 | 51 | 8 | 23 | 42 | 16.59 | 17 |
| 18 | 14 | 31 | 42 | 6 | 23 | 40 | 57 | 15 |
| 20 | 13.12 | 15.29 | 15.47 | 16. 4 | 16.21 | 16.38 | 16.53 | 17.13 |
| 22 | 16 | 27 | 45 | 2 | 12 | 36 | 53 | 11 |
| 24 | 8 | 25 | 43 | 0 | 17 | 34 | 51 | 9 |
| 26 | 7 | 24 | 41 | 15.56 | 16 | 33 | 50 | 7 |
| 28 | 5 | 22 | 39 | 56 | 14 | 31 | 46 | 5 |
| 30 | 15. 3 | 15.20 | 15.37 | 15.54 | 16.12 | 16.29 | 15.46 | 17. 3 |
| 32 | 1 | 18 | 35 | 52 | 10 | 27 | 44 | 1 |
| 34 | 14.69 | 15 | 33 | 50 | 8 | 25 | 42 | 16.59 |
| 36 | 58 | 15 | 32 | 49 | 5 | 23 | 40 | 57 |
| 38 | 55 | 13 | 30 | 47 | 4 | 21 | 36 | 55 |
| 40 | 14.54 | 15.11 | 13.28 | 15.43 | 15. 2 | 16.19 | 15.36 | 16.53 |
| 42 | 52 | 9 | 26 | 43 | 0 | 17 | 34 | 51 |
| 44 | 31 | 7 | 24 | 41 | 15.58 | 15 | 32 | 49 |
| 46 | 49 | 6 | 23 | 45 | 56 | 13 | 36 | 47 |
| 48 | 46 | 4 | 21 | 38 | 54 | 11 | 28 | 45 |
| 50 | 14.46 | 15. 2 | 15.19 | 15.36 | 13.52 | 16. 9 | 16.26 | 16.43 |
| 52 | 44 | 0 | 17 | 34 | 50 | 7 | 24 | 41 |
| 54 | 42 | 14.66 | 13 | 32 | 48 | 5 | 22 | 39 |
| 56 | 41 | 57 | 14 | 30 | 47 | 3 | 20 | 37 |
| 58 | 39 | 53 | 12 | 28 | 45 | 1 | 15 | 35 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 3 |
| 10 | 3 |
| 11 | 3 |
| 12 | 3 |
| 13 | 4 |
| 14 | 4 |
| 15 | 4 |
| 16 | 5 |
| 17 | 5 |
| 18 | 5 |
| 19 | 6 |
| 20 | 5 |
| 21 | 5 |
| 22 | 6 |
| 23 | 7 |
| 24 | 7 |
| 25 | 7 |
| 26 | 8 |
| 27 | 8 |
| 28 | 8 |
| 29 | 8 |
| 30 | 9 |
| 31 | 9 |
| 32 | 9 |
| 33 | 16 |
| 34 | 10 |
| 35 | 10 |
| 36 | 10 |
| 37 | 11 |
| 38 | 11 |
| 39 | 11 |
| 40 | 12 |
| 41 | 12 |
| 42 | 12 |
| 43 | 13 |
| 44 | 13 |
| 45 | 13 |
| 46 | 13 |
| 47 | 14 |
| 48 | 14 |
| 49 | 14 |
| 50 | 15 |
| 51 | 15 |
| 52 | 15 |
| 53 | 15 |
| 54 | 16 |
| 55 | 15 |
| 56 | 15 |
| 57 | 17 |
| 58 | 17 |
| 59 | 17 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

Correccion por la altura de Sol ó Estrella. *Adit.*

| ☉ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 90 | 5 |

| ★ ° | ″ |
|---|---|
| 3 | 0 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 0 |
| 70 | 0 |
| 80 | 0 |
| 90 | 0 |

## Altura aparente de la Luna, 70°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 28. 10 | 28. 43 | 29. 15 | 29. 48 | 30. 20 | 30. 52 | 31. 25 | 31. 58 |
| 2 | 10 | 43 | 15 | 48 | 20 | 52 | 25 | 58 |
| 4 | 11 | 44 | 16 | 49 | 21 | 53 | 26 | 59 |
| 6 | 11 | 44 | 16 | 49 | 21 | 53 | 26 | 59 |
| 8 | 12 | 45 | 17 | 50 | 22 | 64 | 27 | 32. 0 |
| 10 | 28. 12 | 28. 45 | 29. 17 | 29. 50 | 30. 22 | 30. 54 | 31. 27 | 32. 0 |
| 12 | 12 | 45 | 17 | 50 | 22 | 54 | 27 | 5 |
| 14 | 13 | 45 | 18 | 51 | 23 | 55 | 28 | 1 |
| 16 | 13 | 46 | 18 | 51 | 23 | 55 | 28 | 1 |
| 18 | 14 | 47 | 19 | 52 | 24 | 56 | 29 | 2 |
| 20 | 28. 14 | 28. 47 | 29. 19 | 29. 52 | 30. 24 | 30. 56 | 31. 29 | 32. 2 |
| 22 | 14 | 47 | 19 | 52 | 24 | 56 | 29 | 2 |
| 24 | 15 | 48 | 20 | 53 | 25 | 57 | 30 | 3 |
| 26 | 15 | 48 | 20 | 53 | 25 | 57 | 30 | 3 |
| 28 | 16 | 49 | 21 | 54 | 26 | 58 | 31 | 4 |
| 30 | 28. 16 | 26. 49 | 29. 21 | 29. 54 | 30. 26 | 30. 58 | 31. 31 | 32. 4 |
| 32 | 16 | 49 | 21 | 54 | 26 | 58 | 31 | 4 |
| 34 | 16 | 49 | 21 | 54 | 26 | 69 | 32 | 5 |
| 36 | 17 | 50 | 22 | 55 | 27 | 59 | 32 | 5 |
| 38 | 17 | 50 | 22 | 55 | 27 | 31. 5 | 33 | 6 |
| 40 | 28. 17 | 28. 50 | 29. 22 | 22. 55 | 30. 27 | 31. 0 | 31. 33 | 32. 6 |
| 42 | 17 | 50 | 22 | 55 | 27 | 0 | 33 | 6 |
| 44 | 18 | 51 | 23 | 66 | 28 | 1 | 34 | 7 |
| 46 | 18 | 51 | 23 | 56 | 28 | 1 | 34 | 7 |
| 48 | 19 | 52 | 24 | 57 | 29 | 2 | 35 | 6 |
| 50 | 28. 19 | 28. 52 | 29. 24 | 22. 57 | 30. 29 | 31. 2 | 31. 35 | 32. 8 |
| 52 | 19 | 52 | 24 | 57 | 29 | 2 | 35 | 8 |
| 54 | 20 | 53 | 25 | 58 | 30 | 3 | 36 | 9 |
| 56 | 20 | 53 | 25 | 58 | 30 | 3 | 36 | 9 |
| 58 | 21 | 54 | 26 | 59 | 31 | 4 | 37 | 10 |

## Altura aparente de la Luna, 71°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 26. 21 | 28. 64 | 29. 26 | 22. 59 | 30. 31 | 31. 4 | 31. 37 | 32. 10 |
| 2 | 21 | 54 | 26 | 59 | 31 | 4 | 37 | 10 |
| 4 | 22 | 55 | 27 | 30. 0 | 32 | 5 | 35 | 11 |
| 6 | 22 | 65 | 27 | 0 | 32 | 5 | 38 | 11 |
| 8 | 23 | 56 | 28 | 1 | 33 | 6 | 39 | 12 |
| 10 | 28. 23 | 28. 56 | 29. 28 | 30. 1 | 30. 33 | 31. 5 | 31. 39 | 32. 12 |
| 12 | 23 | 66 | 28 | 1 | 33 | 6 | 39 | 12 |
| 14 | 23 | 56 | 29 | 2 | 34 | 7 | 40 | 13 |
| 16 | 24 | 57 | 29 | 2 | 34 | 7 | 40 | 13 |
| 18 | 24 | 67 | 30 | 3 | 35 | 6 | 41 | 14 |
| 20 | 28. 24 | 28. 57 | 29. 30 | 30. 3 | 30. 35 | 31. 8 | 31. 41 | 32. 14 |
| 22 | 24 | 57 | 30 | 3 | 35 | 8 | 41 | 14 |
| 24 | 25 | 58 | 31 | 4 | 36 | 9 | 42 | 15 |
| 26 | 25 | 66 | 31 | 4 | 36 | 9 | 42 | 15 |
| 28 | 26 | 69 | 32 | 5 | 37 | 10 | 43 | 16 |
| 30 | 28. 26 | 28. 59 | 29. 32 | 30. 5 | 30. 37 | 31. 10 | 31. 43 | 32. 16 |
| 32 | 26 | 59 | 32 | 5 | 37 | 10 | 43 | 16 |
| 34 | 27 | 22. 0 | 32 | 5 | 37 | 10 | 43 | 16 |
| 36 | 27 | 0 | 33 | 6 | 38 | 11 | 44 | 17 |
| 38 | 28 | 1 | 33 | 6 | 38 | 11 | 44 | 17 |
| 40 | 28. 28 | 22. 1 | 29. 33 | 30. 6 | 30. 38 | 31. 11 | 31. 44 | 32. 17 |
| 42 | 28 | 1 | 33 | 6 | 38 | 11 | 44 | 17 |
| 44 | 28 | 1 | 34 | 7 | 39 | 12 | 45 | 18 |
| 46 | 29 | 2 | 34 | 7 | 39 | 12 | 45 | 18 |
| 46 | 29 | 2 | 35 | 8 | 40 | 13 | 46 | 19 |
| 50 | 28. 29 | 22. 2 | 29. 35 | 30. 0 | 30. 40 | 31. 13 | 31. 46 | 32. 19 |
| 52 | 29 | 2 | 35 | 6 | 40 | 13 | 46 | 19 |
| 54 | 30 | 3 | 36 | 9 | 41 | 14 | 47 | 20 |
| 56 | 30 | 3 | 36 | 9 | 41 | 14 | 47 | 20 |
| 58 | 31 | 4 | 37 | 10 | 42 | 15 | 48 | 21 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 5 |
| 10 | 5 |
| 11 | 5 |
| 12 | 7 |
| 13 | 7 |
| 14 | 8 |
| 15 | 8 |
| 16 | 9 |
| 17 | 9 |
| 18 | 10 |
| 19 | 10 |
| 20 | 11 |
| 21 | 11 |
| 22 | 12 |
| 23 | 12 |
| 24 | 13 |
| 25 | 14 |
| 26 | 14 |
| 27 | 15 |
| 28 | 15 |
| 29 | 16 |
| 30 | 16 |
| 31 | 17 |
| 32 | 17 |
| 33 | 18 |
| 34 | 18 |
| 35 | 19 |
| 36 | 20 |
| 37 | 20 |
| 38 | 21 |
| 39 | 21 |
| 40 | 22 |
| 41 | 22 |
| 42 | 23 |
| 43 | 23 |
| 44 | 24 |
| 45 | 24 |
| 46 | 25 |
| 47 | 25 |
| 48 | 26 |
| 49 | 27 |
| 50 | 27 |
| 51 | 28 |
| 52 | 28 |
| 53 | 29 |
| 54 | 29 |
| 55 | 30 |
| 56 | 30 |
| 57 | 31 |
| 58 | 31 |
| 59 | 32 |

## Altura aparente de la Luna, 72°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 28. 31 | 29. 4 | 29. 37 | 30. 10 | 30. 42 | 31. 15 | 31. 46 | 32. 21 |
| 2 | 31 | 4 | 37 | 10 | 42 | 15 | 45 | 21 |
| 4 | 32 | 5 | 36 | 11 | 43 | 16 | 49 | 22 |
| 6 | 32 | 5 | 30 | 11 | 43 | 16 | 49 | 22 |
| 8 | 33 | 6 | 39 | 12 | 44 | 17 | 50 | 23 |
| 10 | 28. 33 | 29. 6 | 29. 39 | 30. 12 | 30. 44 | 31. 17 | 31. 50 | 32. 23 |
| 12 | 33 | 6 | 39 | 12 | 44 | 17 | 50 | 23 |
| 14 | 33 | 6 | 39 | 12 | 45 | 18 | 51 | 24 |
| 16 | 34 | 7 | 40 | 13 | 45 | 16 | 51 | 24 |
| 18 | 34 | 7 | 40 | 13 | 46 | 12 | 52 | 25 |
| 20 | 28. 34 | 29. 7 | 29. 40 | 30. 13 | 30. 45 | 31. 19 | 31. 52 | 32. 25 |
| 22 | 34 | 7 | 40 | 13 | 46 | 19 | 52 | 25 |
| 24 | 35 | 8 | 41 | 14 | 47 | 20 | 53 | 26 |
| 26 | 35 | 8 | 41 | 14 | 47 | 20 | 53 | 26 |
| 28 | 36 | 9 | 42 | 15 | 48 | 21 | 54 | 27 |
| 30 | 28. 36 | 22. 9 | 29. 42 | 30. 15 | 30. 48 | 31. 21 | 31. 54 | 32. 27 |
| 32 | 36 | 9 | 42 | 15 | 48 | 21 | 54 | 27 |
| 34 | 37 | 10 | 43 | 16 | 48 | 21 | 54 | 27 |
| 36 | 37 | 10 | 43 | 16 | 49 | 22 | 55 | 28 |
| 38 | 38 | 11 | 44 | 17 | 49 | 22 | 55 | 28 |
| 40 | 28. 38 | 29. 11 | 29. 44 | 30. 17 | 30. 49 | 31. 22 | 31. 55 | 32. 28 |
| 42 | 38 | 11 | 44 | 17 | 49 | 22 | 55 | 28 |
| 44 | 36 | 11 | 44 | 17 | 50 | 23 | 56 | 29 |
| 46 | 39 | 12 | 45 | 16 | 50 | 23 | 56 | 20 |
| 48 | 39 | 12 | 45 | 18 | 51 | 24 | 57 | 30 |
| 50 | 28. 39 | 29. 12 | 29. 45 | 30. 16 | 30. 51 | 31. 24 | 31. 57 | 32. 30 |
| 52 | 39 | 12 | 45 | 18 | 51 | 24 | 67 | 30 |
| 54 | 40 | 13 | 46 | 19 | 52 | 25 | 58 | 31 |
| 56 | 40 | 13 | 46 | 19 | 52 | 25 | 58 | 31 |
| 58 | 41 | 14 | 47 | 20 | 53 | 26 | 59 | 32 |

## Altura aparente de la Luna, 73°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 28. 41 | 29. 14 | 22. 47 | 30. 20 | 30. 53 | 31. 26 | 31. 59 | 32. 32 |
| 2 | 41 | 14 | 47 | 20 | 53 | 26 | 59 | 32 |
| 4 | 42 | 15 | 45 | 21 | 54 | 27 | 32. 0 | 33 |
| 5 | 42 | 15 | 48 | 21 | 54 | 27 | 0 | 33 |
| 8 | 43 | 16 | 49 | 22 | 55 | 26 | 1 | 34 |
| 10 | 28. 43 | 29. 16 | 29. 49 | 30. 22 | 30. 55 | 31. 26 | 32. 1 | 32. 34 |
| 12 | 43 | 16 | 42 | 22 | 55 | 26 | 1 | 34 |
| 14 | 43 | 16 | 49 | 22 | 55 | 28 | 1 | 34 |
| 16 | 44 | 17 | 50 | 23 | 56 | 29 | 2 | 35 |
| 18 | 44 | 17 | 50 | 23 | 56 | 29 | 2 | 35 |
| 20 | 28. 44 | 22. 17 | 29. 50 | 30. 23 | 30. 56 | 31. 29 | 32. 2 | 32. 35 |
| 22 | 44 | 17 | 50 | 23 | 55 | 29 | 2 | 35 |
| 24 | 45 | 16 | 51 | 24 | 57 | 30 | 3 | 36 |
| 26 | 45 | 18 | 51 | 24 | 57 | 30 | 3 | 36 |
| 28 | 46 | 19 | 52 | 25 | 58 | 31 | 4 | 37 |
| 30 | 28. 46 | 29. 19 | 29. 52 | 30. 25 | 30. 58 | 31. 31 | 32. 4 | 32. 37 |
| 32 | 46 | 19 | 52 | 25 | 58 | 31 | 4 | 37 |
| 34 | 46 | 19 | 52 | 26 | 59 | 32 | 5 | 30 |
| 36 | 47 | 20 | 53 | 25 | 59 | 32 | 5 | 38 |
| 38 | 47 | 20 | 53 | 27 | 31. 0 | 33 | 6 | 39 |
| 40 | 28. 47 | 29. 20 | 29. 53 | 30. 27 | 31. 0 | 31. 33 | 32. 6 | 32. 39 |
| 42 | 47 | 20 | 53 | 27 | 0 | 33 | 6 | 32 |
| 44 | 48 | 21 | 54 | 27 | 0 | 33 | 6 | 39 |
| 46 | 48 | 21 | 54 | 28 | 1 | 34 | 7 | 40 |
| 46 | 49 | 22 | 55 | 28 | 1 | 34 | 7 | 40 |
| 50 | 28. 49 | 29. 22 | 29. 55 | 30. 28 | 31. 1 | 31. 34 | 32. 7 | 32. 40 |
| 52 | 49 | 22 | 55 | 28 | 1 | 34 | 7 | 40 |
| 54 | 49 | 22 | 55 | 29 | 2 | 35 | 8 | 41 |
| 56 | 50 | 23 | 56 | 29 | 2 | 35 | 5 | 41 |
| 58 | 50 | 23 | 55 | 30 | 3 | 36 | 2 | 42 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 5 |
| 10 | 6 |
| 11 | 6 |
| 12 | 7 |
| 13 | 7 |
| 14 | 8 |
| 15 | 8 |
| 16 | 9 |
| 17 | 9 |
| 18 | 10 |
| 19 | 10 |
| 20 | 11 |
| 21 | 12 |
| 22 | 12 |
| 23 | 13 |
| 24 | 13 |
| 25 | 14 |
| 26 | 14 |
| 27 | 15 |
| 28 | 15 |
| 29 | 16 |
| 30 | 17 |
| 31 | 17 |
| 32 | 18 |
| 33 | 18 |
| 34 | 19 |
| 35 | 19 |
| 36 | 20 |
| 37 | 20 |
| 38 | 21 |
| 39 | 21 |
| 40 | 22 |
| 41 | 23 |
| 42 | 23 |
| 43 | 24 |
| 44 | 24 |
| 45 | 25 |
| 46 | 25 |
| 47 | 26 |
| 48 | 26 |
| 49 | 27 |
| 50 | 28 |
| 51 | 26 |
| 52 | 29 |
| 53 | 29 |
| 54 | 30 |
| 55 | 30 |
| 56 | 31 |
| 57 | 31 |
| 58 | 32 |
| 59 | 32 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 74°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | Paralaje horizontal. | | | | | | | |
| 0 | 14. 37 | 14. 53 | 15. 10 | 15. 25 | 15. 43 | 15. 59 | 16. 16 | 16. 33 |
| 2 | 35 | 51 | 8 | 24 | 41 | 57 | 14 | 31 |
| 4 | 33 | 49 | 6 | 22 | 39 | 55 | 12 | 29 |
| 6 | 32 | 48 | 5 | 21 | 37 | 54 | 10 | 26 |
| 8 | 30 | 46 | 3 | 19 | 35 | 52 | 8 | 24 |
| 10 | 14. 28 | 14. 44 | 15. 1 | 15. 17 | 15. 33 | 15. 50 | 16. 6 | 16. 22 |
| 12 | 26 | 42 | 14. 59 | 15 | 31 | 48 | 4 | 20 |
| 14 | 24 | 40 | 57 | 13 | 29 | 46 | 2 | 18 |
| 16 | 23 | 39 | 55 | 12 | 28 | 44 | 0 | 16 |
| 18 | 21 | 37 | 53 | 10 | 25 | 42 | 15. 58 | 14 |
| 20 | 14. 19 | 14. 35 | 14. 51 | 15. 8 | 15. 24 | 15. 40 | 15. 56 | 16. 12 |
| 22 | 17 | 33 | 49 | 5 | 22 | 38 | 54 | 10 |
| 24 | 15 | 31 | 47 | 4 | 20 | 36 | 52 | 8 |
| 26 | 14 | 30 | 46 | 2 | 18 | 34 | 50 | 6 |
| 28 | 12 | 28 | 44 | 0 | 16 | 32 | 48 | 4 |
| 30 | 14. 10 | 14. 26 | 14. 42 | 14. 58 | 15. 14 | 15. 30 | 15. 46 | 16. 2 |
| 32 | 8 | 24 | 40 | 56 | 12 | 28 | 44 | 0 |
| 34 | 6 | 22 | 38 | 54 | 10 | 26 | 42 | 15. 58 |
| 36 | 5 | 21 | 37 | 53 | 9 | 24 | 40 | 56 |
| 38 | 3 | 19 | 35 | 51 | 7 | 22 | 38 | 54 |
| 40 | 14. 1 | 14. 17 | 14. 33 | 14. 49 | 15. 5 | 15. 20 | 15. 36 | 15. 52 |
| 42 | 13. 59 | 15 | 31 | 47 | 3 | 18 | 34 | 50 |
| 44 | 57 | 13 | 29 | 45 | 1 | 16 | 32 | 48 |
| 46 | 56 | 12 | 28 | 43 | 14. 59 | 15 | 30 | 46 |
| 48 | 54 | 10 | 26 | 41 | 57 | 13 | 28 | 44 |
| 50 | 13. 52 | 14. 8 | 14. 24 | 14. 39 | 14. 55 | 15. 11 | 15. 26 | 15. 42 |
| 52 | 50 | 6 | 22 | 37 | 53 | 9 | 24 | 40 |
| 54 | 49 | 4 | 20 | 35 | 51 | 7 | 22 | 38 |
| 56 | 47 | 3 | 18 | 34 | 49 | 5 | 20 | 36 |
| 58 | 45 | 1 | 16 | 32 | 47 | 3 | 18 | 34 |

## Altura aparente de la Luna, 75°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 13. 43 | 13. 59 | 14. 14 | 14. 30 | 14. 45 | 15. 1 | 15. 16 | 15. 32 |
| 2 | 41 | 57 | 12 | 28 | 43 | 14. 59 | 14 | 30 |
| 4 | 39 | 55 | 10 | 26 | 41 | 57 | 12 | 28 |
| 6 | 38 | 54 | 9 | 24 | 40 | 55 | 11 | 26 |
| 8 | 36 | 52 | 7 | 22 | 38 | 53 | 9 | 24 |
| 10 | 13. 34 | 13. 50 | 14. 5 | 14. 20 | 14. 36 | 14. 51 | 15. 7 | 15. 22 |
| 12 | 32 | 48 | 3 | 18 | 34 | 49 | 5 | 20 |
| 14 | 30 | 46 | 1 | 16 | 32 | 47 | 3 | 18 |
| 16 | 29 | 45 | 0 | 15 | 30 | 45 | 1 | 16 |
| 18 | 27 | 43 | 13. 58 | 13 | 28 | 43 | 14. 59 | 14 |
| 20 | 13. 25 | 13. 41 | 13. 56 | 14. 11 | 14. 26 | 14. 41 | 14. 57 | 15. 12 |
| 22 | 23 | 39 | 54 | 9 | 24 | 39 | 55 | 10 |
| 24 | 21 | 37 | 52 | 7 | 22 | 37 | 53 | 8 |
| 26 | 20 | 36 | 51 | 6 | 21 | 36 | 51 | 6 |
| 28 | 18 | 34 | 49 | 4 | 19 | 34 | 49 | 4 |
| 30 | 13. 16 | 13. 32 | 13. 47 | 14. 2 | 14. 17 | 14. 32 | 14. 47 | 15. 2 |
| 32 | 14 | 30 | 45 | 0 | 15 | 30 | 45 | 0 |
| 34 | 13 | 28 | 43 | 13. 58 | 13 | 28 | 43 | 14. 58 |
| 36 | 11 | 26 | 41 | 56 | 11 | 26 | 41 | 56 |
| 38 | 10 | 24 | 39 | 54 | 9 | 24 | 39 | 54 |
| 40 | 13. 8 | 13. 22 | 13. 37 | 13. 52 | 14. 7 | 14. 22 | 14. 37 | 14. 52 |
| 42 | 6 | 20 | 35 | 50 | 5 | 20 | 35 | 50 |
| 44 | 4 | 18 | 33 | 48 | 3 | 18 | 33 | 48 |
| 46 | 3 | 17 | 32 | 47 | 1 | 16 | 31 | 45 |
| 48 | 1 | 15 | 30 | 45 | 13. 59 | 14 | 29 | 43 |
| 50 | 12. 59 | 13. 13 | 13. 28 | 13. 43 | 13. 57 | 14. 12 | 14. 27 | 14. 41 |
| 52 | 57 | 11 | 26 | 41 | 55 | 10 | 25 | 39 |
| 54 | 55 | 9 | 24 | 39 | 53 | 8 | 23 | 37 |
| 56 | 54 | 8 | 23 | 37 | 52 | 6 | 21 | 35 |
| 58 | 52 | 6 | 21 | 35 | 50 | 4 | 19 | 33 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 3 |
| 11 | 3 |
| 12 | 3 |
| 13 | 3 |
| 14 | 4 |
| 15 | 4 |
| 16 | 4 |
| 17 | 4 |
| 18 | 5 |
| 19 | 5 |
| 20 | 5 |
| 21 | 5 |
| 22 | 6 |
| 23 | 6 |
| 24 | 6 |
| 25 | 6 |
| 26 | 7 |
| 27 | 7 |
| 28 | 7 |
| 29 | 7 |
| 30 | 8 |
| 31 | 8 |
| 32 | 8 |
| 33 | 9 |
| 34 | 9 |
| 35 | 9 |
| 36 | 9 |
| 37 | 10 |
| 38 | 10 |
| 39 | 10 |
| 40 | 10 |
| 41 | 11 |
| 42 | 11 |
| 43 | 11 |
| 44 | 11 |
| 45 | 12 |
| 46 | 12 |
| 47 | 12 |
| 48 | 12 |
| 49 | 13 |
| 50 | 13 |
| 51 | 13 |
| 52 | 13 |
| 53 | 14 |
| 54 | 14 |
| 55 | 14 |
| 56 | 14 |
| 57 | 15 |
| 58 | 15 |
| 59 | 15 |

## Altura aparente de la Luna, 76°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | Paralaje horizontal. | | | | | | | |
| 0 | 12. 50 | 13. 4 | 13. 19 | 13. 33 | 13. 46 | 14. 2 | 14. 17 | 14. 31 |
| 2 | 48 | 2 | 17 | 31 | 46 | 0 | 15 | 29 |
| 4 | 46 | 0 | 15 | 29 | 44 | 13. 58 | 13 | 27 |
| 6 | 45 | 12. 59 | 13 | 28 | 42 | 56 | 11 | 25 |
| 8 | 43 | 57 | 11 | 26 | 40 | 54 | 9 | 23 |
| 10 | 12. 41 | 12. 55 | 13. 9 | 13. 24 | 13. 38 | 13. 52 | 14. 7 | 14. 21 |
| 12 | 39 | 53 | 7 | 22 | 36 | 50 | 5 | 19 |
| 14 | 37 | 51 | 5 | 20 | 34 | 48 | 3 | 17 |
| 16 | 36 | 50 | 4 | 18 | 32 | 47 | 1 | 15 |
| 18 | 34 | 48 | 2 | 16 | 30 | 45 | 13. 59 | 13 |
| 20 | 12. 32 | 12. 46 | 13. 0 | 13. 14 | 13. 28 | 13. 43 | 13. 57 | 14. 11 |
| 22 | 30 | 44 | 12. 58 | 12 | 26 | 41 | 55 | 9 |
| 24 | 28 | 42 | 56 | 10 | 24 | 39 | 53 | 7 |
| 26 | 27 | 41 | 55 | 9 | 23 | 37 | 51 | 5 |
| 28 | 25 | 39 | 53 | 7 | 21 | 35 | 49 | 3 |
| 30 | 12. 23 | 12. 37 | 12. 51 | 13. 5 | 13. 19 | 13. 33 | 13. 47 | 14. 1 |
| 32 | 21 | 35 | 49 | 3 | 17 | 31 | 45 | 13. 59 |
| 34 | 19 | 33 | 47 | 1 | 15 | 29 | 43 | 57 |
| 36 | 18 | 32 | 46 | 12. 59 | 13 | 27 | 41 | 55 |
| 38 | 16 | 30 | 44 | 57 | 11 | 25 | 39 | 53 |
| 40 | 12. 14 | 12. 28 | 12. 41 | 12. 55 | 13. 9 | 13. 23 | 13. 37 | 13. 51 |
| 42 | 12 | 26 | 39 | 53 | 7 | 21 | 35 | 49 |
| 44 | 10 | 24 | 37 | 51 | 5 | 19 | 33 | 47 |
| 46 | 9 | 22 | 36 | 50 | 3 | 17 | 31 | 44 |
| 48 | 7 | 20 | 34 | 48 | 1 | 15 | 29 | 42 |
| 50 | 12. 5 | 12. 18 | 12. 32 | 12. 45 | 12. 59 | 13. 13 | 13. 27 | 13. 40 |
| 52 | 3 | 16 | 30 | 44 | 57 | 11 | 25 | 38 |
| 54 | 1 | 14 | 28 | 42 | 55 | 9 | 23 | 36 |
| 56 | 0 | 13 | 27 | 40 | 54 | 7 | 21 | 34 |
| 58 | 11. 58 | 11 | 25 | 38 | 52 | 5 | 19 | 32 |

## Altura aparente de la Luna, 77°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 11. 56 | 12. 9 | 12. 23 | 12. 36 | 12. 50 | 13. 3 | 13. 17 | 13. 30 |
| 2 | 54 | 7 | 21 | 34 | 48 | 1 | 15 | 28 |
| 4 | 52 | 5 | 19 | 32 | 46 | 12. 59 | 13 | 26 |
| 6 | 51 | 4 | 17 | 31 | 44 | 57 | 11 | 24 |
| 8 | 49 | 2 | 16 | 29 | 42 | 55 | 9 | 22 |
| 10 | 11. 47 | 12. 0 | 12. 13 | 12. 27 | 12. 40 | 12. 53 | 13. 7 | 13. 20 |
| 12 | 45 | 11. 58 | 11 | 25 | 38 | 51 | 5 | 18 |
| 14 | 43 | 56 | 9 | 23 | 36 | 49 | 3 | 16 |
| 16 | 42 | 55 | 8 | 21 | 34 | 47 | 1 | 14 |
| 18 | 40 | 53 | 6 | 19 | 32 | 45 | 12. 59 | 12 |
| 20 | 11. 38 | 11. 51 | 12. 4 | 12. 17 | 12. 30 | 12. 43 | 12. 57 | 13. 10 |
| 22 | 36 | 49 | 2 | 15 | 28 | 41 | 55 | 8 |
| 24 | 34 | 47 | 0 | 13 | 26 | 39 | 53 | 6 |
| 26 | 33 | 46 | 11. 59 | 12 | 25 | 38 | 51 | 4 |
| 28 | 31 | 44 | 57 | 10 | 23 | 36 | 49 | 2 |
| 30 | 11. 29 | 11. 42 | 11. 55 | 12. 8 | 12. 21 | 12. 34 | 12. 47 | 13. 0 |
| 32 | 27 | 40 | 53 | 6 | 19 | 32 | 45 | 12. 58 |
| 34 | 25 | 38 | 51 | 4 | 17 | 30 | 43 | 56 |
| 36 | 24 | 36 | 49 | 2 | 15 | 28 | 41 | 53 |
| 38 | 22 | 34 | 47 | 0 | 13 | 26 | 39 | 51 |
| 40 | 11. 20 | 11. 32 | 11. 45 | 11. 58 | 12. 11 | 12. 24 | 12. 37 | 12. 49 |
| 42 | 18 | 30 | 43 | 56 | 9 | 22 | 35 | 47 |
| 44 | 16 | 28 | 41 | 54 | 7 | 20 | 33 | 45 |
| 46 | 15 | 27 | 40 | 53 | 5 | 18 | 30 | 43 |
| 48 | 13 | 25 | 38 | 51 | 3 | 16 | 28 | 41 |
| 50 | 11. 11 | 11. 23 | 11. 36 | 11. 49 | 12. 1 | 12. 14 | 12. 26 | 12. 39 |
| 52 | 9 | 21 | 34 | 47 | 11. 59 | 12 | 24 | 37 |
| 54 | 7 | 19 | 32 | 45 | 57 | 10 | 22 | 35 |
| 56 | 6 | 18 | 30 | 43 | 55 | 8 | 20 | 33 |
| 58 | 4 | 16 | 28 | 41 | 53 | 6 | 18 | 31 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 11 | 2 |
| 12 | 3 |
| 13 | 3 |
| 14 | 3 |
| 15 | 3 |
| 16 | 4 |
| 17 | 4 |
| 18 | 4 |
| 19 | 4 |
| 20 | 4 |
| 21 | 5 |
| 22 | 5 |
| 23 | 5 |
| 24 | 5 |
| 25 | 6 |
| 26 | 6 |
| 27 | 6 |
| 28 | 6 |
| 29 | 7 |
| 30 | 7 |
| 31 | 7 |
| 32 | 7 |
| 33 | 7 |
| 34 | 8 |
| 35 | 8 |
| 36 | 8 |
| 37 | 8 |
| 38 | 9 |
| 39 | 9 |
| 40 | 9 |
| 41 | 9 |
| 42 | 9 |
| 43 | 10 |
| 44 | 10 |
| 45 | 10 |
| 46 | 10 |
| 47 | 11 |
| 48 | 11 |
| 49 | 11 |
| 50 | 11 |
| 51 | 11 |
| 52 | 12 |
| 53 | 12 |
| 54 | 12 |
| 55 | 12 |
| 56 | 13 |
| 57 | 13 |
| 58 | 13 |
| 59 | 13 |

TABLA IX. **Argumentos auxiliares para la Tabla X.**

### Altura aparente de la Luna, 74°

| ″ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 26.50 | 29.23 | 29.56 | 30.50 | 31. 5 | 31.36 | 32. 9 | 52.42 |
| 2 | 50 | 23 | 56 | 30 | 3 | 36 | 2 | 42 |
| 4 | 51 | 24 | 57 | 31 | 4 | 37 | 10 | 43 |
| 6 | 51 | 24 | 57 | 51 | 4 | 57 | 10 | 43 |
| 6 | 52 | 25 | 56 | 32 | 8 | 35 | 11 | 44 |
| 10 | 28.52 | 29.25 | 29.58 | 30.32 | 31. 5 | 51.55 | 32.11 | 32.44 |
| 12 | 52 | 25 | 55 | 32 | 5 | 35 | 11 | 44 |
| 14 | 52 | 25 | 56 | 32 | 8 | 38 | 11 | 44 |
| 16 | 53 | 26 | 59 | 55 | 6 | 52 | 12 | 45 |
| 16 | 83 | 26 | 59 | 35 | 5 | 59 | 12 | 45 |
| 20 | 28.53 | 29.26 | 29.59 | 30.53 | 31. 6 | 31.59 | 32.12 | 32.45 |
| 22 | 53 | 26 | 52 | 33 | 6 | 39 | 12 | 45 |
| 24 | 54 | 27 | 30. 0 | 34 | 7 | 48 | 13 | 46 |
| 26 | 54 | 27 | 0 | 34 | 7 | 40 | 13 | 46 |
| 28 | 55 | 26 | 1 | 55 | 8 | 41 | 14 | 47 |
| 30 | 28.55 | 20.28 | 30. 1 | 50.55 | 31. 5 | 31.41 | 32.14 | 32.47 |
| 32 | 55 | 26 | 1 | 35 | 8 | 41 | 14 | 47 |
| 34 | 55 | 26 | 1 | 55 | 6 | 41 | 15 | 48 |
| 36 | 56 | 29 | 2 | 36 | 9 | 42 | 15 | 48 |
| 58 | 55 | 20 | 2 | 36 | 9 | 42 | 16 | 49 |
| 40 | 18.56 | 29.29 | 30. 2 | 30.36 | 31. 9 | 31.42 | 32.16 | 32.49 |
| 42 | 56 | 29 | 2 | 56 | 9 | 42 | 16 | 49 |
| 44 | 57 | 50 | 3 | 57 | 10 | 45 | 16 | 49 |
| 46 | 57 | 50 | 5 | 37 | 10 | 45 | 17 | 50 |
| 48 | 58 | 51 | 4 | 38 | 11 | 44 | 17 | 50 |
| 50 | 28.58 | 29.51 | 30. 4 | 30.38 | 31.11 | 31.44 | 32.17 | 32.50 |
| 52 | 58 | 51 | 4 | 38 | 11 | 44 | 17 | 50 |
| 54 | 58 | 51 | 4 | 38 | 11 | 44 | 18 | 51 |
| 56 | 59 | 52 | 5 | 59 | 12 | 45 | 16 | 51 |
| 58 | 59 | 32 | 5 | 39 | 12 | 45 | 19 | 52 |

### Altura aparente de la Luna, 75°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 28.59 | 29.52 | 30. 5 | 30.39 | 31.12 | 31.45 | 32.19 | 32.52 |
| 2 | 59 | 52 | 5 | 39 | 12 | 45 | 19 | 52 |
| 4 | 59 | 52 | 5 | 39 | 13 | 46 | 20 | 53 |
| 6 | 29. 0 | 33 | 6 | 40 | 13 | 46 | 20 | 53 |
| 8 | 0 | 33 | 6 | 40 | 14 | 47 | 21 | 54 |
| 10 | 29. 0 | 29.33 | 30. 6 | 30.40 | 31.14 | 31.47 | 32.21 | 32.54 |
| 12 | 0 | 53 | 6 | 40 | 14 | 47 | 21 | 54 |
| 14 | 1 | 34 | 7 | 41 | 14 | 47 | 21 | 54 |
| 16 | 1 | 54 | 7 | 41 | 15 | 48 | 22 | 55 |
| 16 | 2 | 55 | 6 | 42 | 15 | 45 | 22 | 55 |
| 20 | 29. 2 | 29.35 | 30. 6 | 30.42 | 31.15 | 31.46 | 32.22 | 32.55 |
| 22 | 2 | 35 | 8 | 42 | 15 | 48 | 22 | 55 |
| 14 | 2 | 35 | 6 | 42 | 15 | 49 | 25 | 56 |
| 26 | 3 | 36 | 9 | 43 | 16 | 49 | 23 | 56 |
| 28 | 5 | 56 | 2 | 43 | 17 | 50 | 24 | 57 |
| 50 | 29. 5 | 29.56 | 30. 9 | 38.43 | 51.17 | 31.50 | 52.24 | 32.57 |
| 32 | 5 | 36 | 9 | 43 | 17 | 50 | 24 | 57 |
| 34 | 5 | 35 | 9 | 43 | 17 | 50 | 24 | 57 |
| 36 | 4 | 57 | 10 | 44 | 15 | 51 | 25 | 58 |
| 35 | 4 | 57 | 10 | 44 | 16 | 51 | 25 | 50 |
| 40 | 22. 4 | 29.57 | 30.10 | 50.44 | 31.16 | 31.51 | 52.25 | 52.58 |
| 42 | 4 | 37 | 10 | 44 | 16 | 51 | 25 | 58 |
| 44 | 5 | 35 | 11 | 45 | 19 | 52 | 26 | 59 |
| 46 | 5 | 35 | 11 | 45 | 19 | 52 | 26 | 52 |
| 46 | 5 | 52 | 12 | 46 | 20 | 55 | 27 | 33. 0 |
| 50 | 29. 6 | 29.32 | 30.12 | 50.46 | 31.20 | 51.53 | 52.27 | 53. 0 |
| 52 | 5 | 52 | 12 | 46 | 20 | 53 | 27 | 0 |
| 54 | 6 | 39 | 12 | 46 | 20 | 55 | 27 | 0 |
| 56 | 7 | 40 | 13 | 47 | 21 | 54 | 26 | 1 |
| 58 | 7 | 40 | 13 | 47 | 21 | 54 | 26 | 1 |

Correccion por la altura de Sol ó Estrella. *Adit.*

⊙

| ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 3 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 20– | 2 |
| 30– | 3 |
| 40– | 3 |
| 50– | 4 |
| 60– | 4 |
| 70– | 5 |
| 80– | 5 |
| 90– | 5 |

✱

| ° | ″ |
|---|---|
| 3– | 8 |
| 4– | 5 |
| 5– | 4 |
| 6– | 2 |
| 7– | 2 |
| 8– | 2 |
| 9– | 1 |
| 10– | 1 |
| 20– | 0 |
| 30– | 0 |
| 40– | 0 |
| 50– | 0 |
| 60– | 0 |
| 70– | 0 |
| 60– | 0 |
| 90– | 0 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 1 |
| 2– | 1 |
| 3– | 2 |
| 4– | 2 |
| 5– | 5 |
| 6– | 3 |
| 7– | 4 |
| 8– | 4 |
| 9– | 5 |
| 10– | 6 |
| 11– | 6 |
| 12– | 7 |
| 13– | 7 |
| 14– | 8 |
| 15– | 8 |
| 16– | 9 |
| 17– | 9 |
| 18– | 10 |
| 19– | 11 |
| 20– | 11 |
| 21– | 12 |
| 22– | 12 |
| 23– | 13 |
| 24– | 13 |
| 25– | 14 |
| 26– | 15 |
| 27– | 15 |
| 28– | 16 |
| 29– | 16 |
| 30– | 17 |
| 31– | 17 |
| 32– | 16 |
| 33– | 18 |
| 34– | 19 |
| 35– | 20 |
| 36– | 20 |
| 37– | 21 |
| 38– | 11 |
| 39– | 12 |
| 40– | 22 |
| 41– | 25 |
| 42– | 23 |
| 43– | 24 |
| 44– | 25 |
| 45– | 25 |
| 46– | 26 |
| 47– | 26 |
| 48– | 27 |
| 49– | 27 |
| 50– | 26 |
| 51– | 26 |
| 52– | 29 |
| 53– | 30 |
| 54– | 30 |
| 55– | 31 |
| 56– | 31 |
| 57– | 32 |
| 58– | 32 |
| 59– | 33 |

### Altura aparente de la Luna, 76°

| ″ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 29. 7 | 29.40 | 38.13 | 30.47 | 51.21 | 31.54 | 52.25 | 53. 1 |
| 2 | 7 | 40 | 13 | 47 | 21 | 54 | 25 | 1 |
| 4 | 7 | 40 | 13 | 47 | 21 | 54 | 25 | 1 |
| 6 | 8 | 41 | 14 | 45 | 22 | 55 | 29 | 2 |
| 8 | 8 | 41 | 14 | 46 | 22 | 55 | 29 | 2 |
| 10 | 29. 5 | 29.41 | 38.14 | 30.45 | 51.22 | 31.55 | 32.29 | 53. 2 |
| 12 | 8 | 41 | 14 | 45 | 22 | 55 | 29 | 2 |
| 14 | 5 | 41 | 15 | 49 | 23 | 55 | 30 | 3 |
| 16 | 9 | 41 | 15 | 49 | 23 | 56 | 30 | 3 |
| 15 | 9 | 43 | 16 | 50 | 24 | 57 | 51 | 4 |
| 20 | 20. 9 | 20.43 | 30.16 | 30.50 | 31.24 | 31.57 | 32.51 | 33. 4 |
| 22 | 9 | 45 | 16 | 50 | 24 | 57 | 31 | 4 |
| 24 | 10 | 43 | 16 | 50 | 24 | 57 | 51 | 4 |
| 26 | 10 | 44 | 17 | 51 | 25 | 58 | 52 | 5 |
| 20 | 11 | 44 | 17 | 51 | 25 | 58 | 52 | 5 |
| 30 | 29.11 | 29.44 | 30.17 | 30.51 | 51.25 | 31.58 | 32.52 | 55. 5 |
| 32 | 11 | 44 | 17 | 51 | 25 | 58 | 32 | 5 |
| 54 | 11 | 44 | 17 | 51 | 25 | 55 | 52 | 5 |
| 35 | 12 | 45 | 18 | 52 | 26 | 59 | 35 | 6 |
| 38 | 12 | 45 | 16 | 52 | 26 | 59 | 33 | 5 |
| 40 | 29.12 | 29.45 | 50.18 | 30.52 | 31.26 | 51.59 | 32.33 | 35. 6 |
| 42 | 12 | 45 | 18 | 52 | 26 | 59 | 33 | 6 |
| 44 | 12 | 46 | 19 | 53 | 27 | 32. 0 | 34 | 7 |
| 46 | 13 | 46 | 19 | 53 | 27 | 0 | 34 | 7 |
| 46 | 13 | 47 | 20 | 54 | 28 | 1 | 35 | 8 |
| 50 | 29.13 | 29.47 | 30.20 | 30.54 | 31.28 | 32. 1 | 32.35 | 33. 8 |
| 52 | 13 | 47 | 20 | 54 | 28 | 1 | 55 | 6 |
| 54 | 13 | 47 | 20 | 54 | 28 | 1 | 55 | 8 |
| 56 | 14 | 46 | 21 | 55 | 29 | 2 | 56 | 9 |
| 58 | 14 | 48 | 21 | 55 | 29 | 2 | 36 | 9 |

### Altura aparente de la Luna, 77°

| ″ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29.14 | 29.46 | 50.21 | 30.55 | 31.19 | 32. 2 | 32.36 | 33. 9 |
| 2 | 14 | 48 | 21 | 55 | 29 | 2 | 36 | 9 |
| 4 | 14 | 48 | 21 | 55 | 29 | 2 | 36 | 9 |
| 6 | 15 | 49 | 22 | 56 | 30 | 5 | 37 | 10 |
| 8 | 15 | 49 | 22 | 56 | 30 | 3 | 57 | 10 |
| 10 | 29.15 | 29.49 | 30.22 | 30.55 | 31.50 | 32. 5 | 32.37 | 33.10 |
| 12 | 15 | 49 | 22 | 56 | 50 | 3 | 37 | 10 |
| 14 | 15 | 49 | 22 | 56 | 50 | 4 | 57 | 11 |
| 16 | 16 | 50 | 23 | 57 | 31 | 4 | 58 | 11 |
| 18 | 16 | 50 | 23 | 57 | 31 | 5 | 36 | 12 |
| 20 | 20.16 | 29.50 | 30.23 | 30.57 | 31.31 | 32. 5 | 32.38 | 33.12 |
| 22 | 16 | 50 | 23 | 57 | 51 | 5 | 58 | 12 |
| 24 | 17 | 51 | 24 | 55 | 32 | 5 | 39 | 12 |
| 26 | 17 | 51 | 24 | 58 | 32 | 6 | 39 | 13 |
| 28 | 16 | 52 | 25 | 59 | 55 | 6 | 40 | 13 |
| 30 | 29.15 | 29.52 | 30.25 | 30.59 | 31.33 | 32. 6 | 32.40 | 33.13 |
| 32 | 16 | 52 | 25 | 59 | 33 | 6 | 40 | 13 |
| 34 | 16 | 52 | 25 | 52 | 33 | 5 | 40 | 13 |
| 36 | 19 | 55 | 26 | 51. 0 | 34 | 7 | 41 | 14 |
| 36 | 10 | 53 | 26 | 0 | 34 | 7 | 41 | 14 |
| 40 | 29.19 | 29.53 | 30.26 | 31. 0 | 31.34 | 32. 7 | 32.41 | 53.14 |
| 42 | 19 | 53 | 26 | 0 | 34 | 7 | 41 | 14 |
| 44 | 19 | 53 | 26 | 0 | 34 | 5 | 41 | 15 |
| 46 | 20 | 54 | 27 | 1 | 55 | 8 | 42 | 15 |
| 48 | 20 | 54 | 27 | 1 | 35 | 9 | 41 | 16 |
| 50 | 29.20 | 29.54 | 30.27 | 51. 1 | 31.35 | 32. 9 | 32.42 | 53.16 |
| 52 | 20 | 54 | 27 | 1 | 35 | 9 | 42 | 16 |
| 54 | 20 | 54 | 27 | 1 | 35 | 9 | 42 | 16 |
| 56 | 21 | 55 | 28 | 2 | 36 | 10 | 43 | 17 |
| 58 | 21 | 55 | 28 | 2 | 56 | 10 | 43 | 17 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 1 |
| 2– | 1 |
| 3– | 2 |
| 4– | 2 |
| 5– | 3 |
| 6– | 3 |
| 7– | 4 |
| 8– | 4 |
| 9– | 5 |
| 10– | 6 |
| 11– | 6 |
| 12– | 7 |
| 13– | 7 |
| 14– | 6 |
| 15– | 8 |
| 16– | 9 |
| 17– | 0 |
| 18– | 10 |
| 19– | 11 |
| 20– | 11 |
| 21– | 12 |
| 22– | 12 |
| 23– | 13 |
| 24– | 13 |
| 25– | 14 |
| 26– | 15 |
| 27– | 15 |
| 26– | 16 |
| 20– | 16 |
| 30– | 17 |
| 31– | 17 |
| 32– | 18 |
| 33– | 18 |
| 31– | 19 |
| 35– | 20 |
| 36– | 20 |
| 37– | 21 |
| 38– | 21 |
| 39– | 22 |
| 40– | 22 |
| 41– | 23 |
| 42– | 23 |
| 43– | 24 |
| 44– | 25 |
| 45– | 25 |
| 46– | 26 |
| 47– | 26 |
| 48– | 27 |
| 49– | 27 |
| 50– | 28 |
| 51– | 26 |
| 52– | 29 |
| 53– | 30 |
| 54– | 30 |
| 55– | 31 |
| 56– | 31 |
| 57– | 32 |
| 58– | 32 |
| 50– | 33 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

## Altura aparente de la Luna, 78°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 11. 2 | 11.14 | 11.26 | 11.39 | 11.51 | 12. 4 | 12.16 | 12.29 |
| 2 | 0 | 12 | 24 | 37 | 49 | 2 | 14 | 27 |
| 4 | 10.58 | 10 | 22 | 35 | 47 | 0 | 12 | 25 |
| 6 | 56 | 9 | 21 | 33 | 46 | 11.58 | 10 | 23 |
| 8 | 54 | 7 | 19 | 31 | 44 | 56 | 8 | 21 |
| 10 | 18.52 | 11. 5 | 11.17 | 11.29 | 11.42 | 11.54 | 12. 6 | 12.19 |
| 12 | 50 | 3 | 15 | 27 | 40 | 52 | 4 | 17 |
| 14 | 48 | 1 | 13 | 25 | 38 | 50 | 2 | 15 |
| 16 | 47 | 9 | 12 | 24 | 36 | 48 | 0 | 12 |
| 18 | 45 | 18.58 | 10 | 22 | 34 | 46 | 11.58 | 10 |
| 20 | 10.43 | 18.56 | 11. 8 | 11.20 | 11.32 | 11.44 | 11.56 | 12. 8 |
| 22 | 41 | 54 | 6 | 18 | 30 | 42 | 54 | 6 |
| 24 | 39 | 52 | 4 | 16 | 28 | 40 | 52 | 4 |
| 96 | 38 | 50 | 2 | 14 | 26 | 38 | 50 | 2 |
| 28 | 36 | 48 | 0 | 12 | 24 | 36 | 48 | 0 |
| 30 | 18.34 | 18.46 | 10.58 | 11.10 | 11.22 | 11.34 | 11.45 | 11.58 |
| 32 | 32 | 44 | 56 | 8 | 20 | 32 | 44 | 56 |
| 34 | 30 | 49 | 54 | 6 | 18 | 30 | 42 | 54 |
| 36 | 29 | 41 | 53 | 5 | 16 | 28 | 40 | 52 |
| 38 | 27 | 39 | 51 | 3 | 14 | 26 | 38 | 50 |
| 40 | 18.25 | 10.37 | 10.49 | 11. 1 | 11.12 | 11.24 | 11.36 | 11.48 |
| 42 | 23 | 35 | 47 | 18.59 | 10 | 22 | 34 | 46 |
| 44 | 21 | 33 | 45 | 57 | 8 | 20 | 32 | 44 |
| 46 | 20 | 32 | 43 | 55 | 7 | 18 | 30 | 42 |
| 48 | 18 | 30 | 41 | 53 | 5 | 16 | 28 | 40 |
| 50 | 18.16 | 10.98 | 10.39 | 10.51 | 11. 3 | 11.14 | 11.26 | 11.38 |
| 52 | 14 | 26 | 37 | 49 | 1 | 19 | 24 | 36 |
| 54 | 12 | 24 | 35 | 47 | 10.59 | 10 | 22 | 34 |
| 55 | 11 | 23 | 34 | 45 | 57 | 8 | 20 | 31 |
| 58 | 9 | 21 | 32 | 43 | 55 | 6 | 18 | 29 |

## Altura aparente de la Luna, 79°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 18. 7 | 19.19 | 18.30 | 10.41 | 10.53 | 11. 4 | 11.16 | 11.27 |
| 2 | 5 | 17 | 28 | 39 | 51 | 2 | 14 | 25 |
| 4 | 3 | 15 | 26 | 37 | 49 | 9 | 12 | 23 |
| 6 | 2 | 13 | 25 | 36 | 47 | 19.58 | 10 | 21 |
| 8 | 0 | 11 | 23 | 34 | 45 | 56 | 8 | 19 |
| 10 | 9.58 | 18. 9 | 10.21 | 19.32 | 10.43 | 18.54 | 11. 5 | 11.17 |
| 12 | 56 | 7 | 19 | 30 | 41 | 52 | 4 | 15 |
| 14 | 64 | 5 | 17 | 28 | 39 | 50 | 2 | 13 |
| 16 | 63 | 4 | 15 | 25 | 37 | 48 | 0 | 11 |
| 18 | 51 | 2 | 13 | 24 | 35 | 46 | 18.58 | 9 |
| 20 | 9.49 | 19. 8 | 18.11 | 10.22 | 10.33 | 19.44 | 10.56 | 11. 7 |
| 22 | 47 | 9.58 | 9 | 20 | 31 | 42 | 54 | 5 |
| 24 | 45 | 56 | 7 | 18 | 29 | 40 | 52 | 3 |
| 26 | 44 | 55 | 6 | 17 | 28 | 39 | 50 | 1 |
| 28 | 49 | 53 | 4 | 15 | 25 | 37 | 48 | 19.59 |
| 39 | 9.40 | 9.51 | 10. 2 | 19.13 | 10.24 | 19.35 | 18.46 | 18.57 |
| 32 | 38 | 49 | 9 | 11 | 22 | 33 | 44 | 55 |
| 34 | 36 | 47 | 9.58 | 9 | 20 | 31 | 42 | 53 |
| 36 | 35 | 46 | 56 | 7 | 18 | 29 | 39 | 50 |
| 38 | 33 | 44 | 54 | 5 | 16 | 27 | 37 | 48 |
| 48 | 9.31 | 9.42 | 9.52 | 19. 3 | 18.14 | 19.25 | 19.35 | 18.46 |
| 42 | 29 | 40 | 50 | 1 | 12 | 23 | 33 | 44 |
| 44 | 27 | 38 | 48 | 9.59 | 10 | 21 | 31 | 42 |
| 46 | 26 | 36 | 47 | 57 | 8 | 19 | 29 | 40 |
| 48 | 24 | 34 | 45 | 55 | 6 | 17 | 27 | 38 |
| 59 | 9.92 | 9.39 | 9.43 | 9.53 | 18. 4 | 10.15 | 10.25 | 10.36 |
| 52 | 20 | 30 | 41 | 51 | 2 | 13 | 23 | 34 |
| 54 | 18 | 28 | 39 | 49 | 0 | 11 | 21 | 32 |
| 56 | 17 | 27 | 37 | 48 | 9.68 | 9 | 19 | 29 |
| 59 | 15 | 25 | 35 | 46 | 56 | 7 | 17 | 27 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 1 |
| 4 | 1 |
| 5– | 1 |
| 6– | 1 |
| 7– | 1 |
| 8– | 2 |
| 9– | 2 |
| 10– | 2 |
| 11– | 2 |
| 12– | 2 |
| 13– | 9 |
| 14– | 3 |
| 15– | 3 |
| 16– | 3 |
| 17– | 3 |
| 18– | 3 |
| 19– | 4 |
| 20– | 4 |
| 21– | 4 |
| 22– | 4 |
| 23– | 4 |
| 24– | 5 |
| 25– | 5 |
| 26– | 5 |
| 27– | 5 |
| 28– | 5 |
| 29– | 6 |
| 30– | 6 |
| 31– | 6 |
| 32– | 6 |
| 33– | 6 |
| 34– | 7 |
| 35– | 7 |
| 36– | 7 |
| 37– | 7 |
| 38– | 7 |
| 39– | 7 |
| 40– | 8 |
| 41– | 8 |
| 49– | 8 |
| 43– | 8 |
| 44– | 8 |
| 46– | 9 |
| 46– | 9 |
| 47– | 9 |
| 48– | 9 |
| 49– | 9 |
| 50–10 | |
| 51–10 | |
| 52–10 | |
| 53–10 | |
| 54–10 | |
| 55–11 | |
| 56–11 | |
| 57–11 | |
| 58–11 | |
| 59–11 | |

## Altura aparente de la Luna, 80°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 69′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 9.13 | 9.23 | 9.33 | 9.44 | 9.54 | 18. 5 | 18.15 | 18.25 |
| 2 | 11 | 21 | 31 | 42 | 52 | 3 | 13 | 23 |
| 4 | 9 | 19 | 29 | 40 | 50 | 1 | 11 | 21 |
| 6 | 7 | 18 | 28 | 38 | 48 | 9.59 | 9 | 19 |
| 8 | 5 | 16 | 26 | 36 | 46 | 57 | 7 | 17 |
| 10 | 9. 3 | 9.14 | 9.24 | 9.34 | 9.44 | 9.55 | 18. 5 | 18.15 |
| 12 | 1 | 12 | 92 | 32 | 42 | 53 | 3 | 13 |
| 14 | 8.52 | 10 | 20 | 30 | 40 | 51 | 1 | 11 |
| 16 | 58 | 8 | 10 | 29 | 39 | 49 | 9.59 | 9 |
| 18 | 56 | 5 | 17 | 27 | 37 | 47 | 57 | 7 |
| 20 | 8.54 | 9. 4 | 9.15 | 9.25 | 9.35 | 9.45 | 9.55 | 19. 5 |
| 22 | 59 | 2 | 13 | 23 | 33 | 43 | 53 | 3 |
| 24 | 50 | 0 | 11 | 21 | 31 | 41 | 51 | 1 |
| 26 | 49 | 8.59 | 9 | 19 | 29 | 39 | 49 | 9.59 |
| 28 | 47 | 57 | 7 | 17 | 27 | 37 | 47 | 57 |
| 30 | 8.45 | 6.55 | 9. 5 | 9.15 | 9.95 | 9.35 | 9.45 | 9.55 |
| 32 | 43 | 53 | 3 | 13 | 23 | 33 | 43 | 53 |
| 34 | 41 | 51 | 1 | 11 | 21 | 31 | 41 | 51 |
| 36 | 40 | 60 | 0 | 9 | 19 | 29 | 38 | 48 |
| 38 | 38 | 48 | 8.58 | 7 | 17 | 27 | 36 | 46 |
| 40 | 9.36 | 6.46 | 8.56 | 9. 5 | 9.15 | 9.25 | 9.34 | 9.44 |
| 42 | 34 | 44 | 54 | 3 | 13 | 23 | 32 | 49 |
| 44 | 32 | 42 | 52 | 1 | 11 | 21 | 30 | 40 |
| 46 | 31 | 41 | 50 | 0 | 9 | 19 | 28 | 38 |
| 48 | 99 | 39 | 48 | 8.58 | 7 | 17 | 26 | 36 |
| 50 | 8.27 | 8.37 | 9.46 | 8.56 | 9. 5 | 9.15 | 9.24 | 9.34 |
| 52 | 25 | 35 | 44 | 54 | 3 | 13 | 22 | 32 |
| 54 | 23 | 33 | 42 | 52 | 1 | 11 | 20 | 30 |
| 56 | 22 | 31 | 41 | 50 | 9.59 | 9 | 18 | 28 |
| 58 | 29 | 29 | 39 | 48 | 57 | 7 | 15 | 26 |

## Altura aparente de la Luna, 81°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 9.18 | 8.27 | 0.37 | 9.46 | 9.55 | 9. 5 | 9.14 | 9.24 |
| 2 | 16 | 25 | 35 | 44 | 53 | 3 | 12 | 22 |
| 4 | 14 | 23 | 33 | 42 | 51 | 1 | 18 | 20 |
| 6 | 13 | 22 | 31 | 40 | 50 | 8.59 | 8 | 17 |
| 8 | 11 | 20 | 29 | 38 | 48 | 57 | 5 | 15 |
| 10 | 9. 9 | 8.18 | 8.97 | 8.36 | 8.46 | 8.55 | 9. 4 | 9.13 |
| 12 | 7 | 16 | 95 | 34 | 44 | 53 | 2 | 11 |
| 14 | 5 | 14 | 23 | 39 | 42 | 51 | 9 | 9 |
| 16 | 4 | 13 | 29 | 31 | 40 | 49 | 8.58 | 7 |
| 18 | 2 | 11 | 20 | 29 | 38 | 47 | 56 | 5 |
| 20 | 9. 0 | 8. 9 | 9.18 | 8.27 | 9.36 | 8.45 | 8.54 | 9. 3 |
| 22 | 7.58 | 7 | 16 | 25 | 34 | 43 | 52 | 1 |
| 24 | 56 | 5 | 14 | 23 | 39 | 41 | 50 | 9.59 |
| 96 | 54 | 3 | 12 | 91 | 30 | 39 | 48 | 56 |
| 28 | 52 | 1 | 19 | 19 | 28 | 37 | 46 | 54 |
| 30 | 7.50 | 7.59 | 9. 8 | 8.17 | 9.26 | 8.35 | 0.44 | 8.52 |
| 32 | 48 | 57 | 5 | 15 | 24 | 33 | 42 | 50 |
| 34 | 46 | 55 | 4 | 13 | 22 | 31 | 40 | 48 |
| 36 | 45 | 54 | 3 | 11 | 28 | 29 | 37 | 46 |
| 38 | 43 | 52 | 1 | 9 | 19 | 27 | 35 | 44 |
| 48 | 7.41 | 7.50 | 7.59 | 8. 7 | 8.16 | 8.25 | 9.33 | 9.42 |
| 42 | 39 | 48 | 57 | 5 | 14 | 23 | 31 | 40 |
| 44 | 37 | 46 | 55 | 3 | 12 | 21 | 29 | 38 |
| 46 | 36 | 45 | 53 | 2 | 10 | 19 | 27 | 36 |
| 48 | 34 | 43 | 51 | 9 | 9 | 17 | 25 | 34 |
| 50 | 7.32 | 7.41 | 7.49 | 7.58 | 9. 5 | 9.15 | 8.23 | 8.32 |
| 52 | 30 | 39 | 47 | 56 | 4 | 13 | 21 | 30 |
| 54 | 28 | 37 | 45 | 54 | 2 | 11 | 19 | 28 |
| 56 | 27 | 35 | 44 | 52 | 0 | 9 | 17 | 25 |
| 58 | 25 | 33 | 42 | 50 | 7.58 | 7 | 15 | 23 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 9– | 0 |
| 3– | 0 |
| 4– | 1 |
| 5– | 1 |
| 6– | 1 |
| 7– | 1 |
| 8– | 1 |
| 9– | 1 |
| 10– | 2 |
| 11– | 2 |
| 12– | 2 |
| 13– | 2 |
| 14– | 2 |
| 15– | 2 |
| 16– | 3 |
| 17– | 3 |
| 18– | 3 |
| 19– | 3 |
| 20– | 3 |
| 21– | 3 |
| 22– | 3 |
| 23– | 4 |
| 24– | 4 |
| 95– | 4 |
| 26– | 4 |
| 27– | 4 |
| 28– | 4 |
| 29– | 5 |
| 30– | 5 |
| 31– | 5 |
| 32– | 5 |
| 33– | 5 |
| 34– | 5 |
| 35– | 6 |
| 36– | 6 |
| 37– | 6 |
| 38– | 6 |
| 39– | 6 |
| 40– | 6 |
| 41– | 6 |
| 42– | 7 |
| 43– | 7 |
| 44– | 7 |
| 45– | 7 |
| 46– | 7 |
| 47– | 7 |
| 48– | 9 |
| 49– | 9 |
| 50– | 8 |
| 51– | 8 |
| 52– | 9 |
| 53– | 8 |
| 54– | 9 |
| 55– | 9 |
| 56– | 9 |
| 57– | 9 |
| 58– | 9 |
| 59– | 9 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

### Altura aparente de la Luna, 78°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 29.21 | 29.55 | 30.28 | 31. 2 | 31.36 | 32.10 | 32.43 | 33.17 |
| 2 | 21 | 55 | 28 | 2 | 36 | 10 | 43 | 17 |
| 4 | 21 | 55 | 28 | 2 | 36 | 10 | 43 | 17 |
| 6 | 22 | 56 | 29 | 3 | 37 | 11 | 44 | 18 |
| 8 | 22 | 56 | 29 | 3 | 37 | 11 | 44 | 18 |
| 10 | 29.22 | 29.56 | 30.22 | 31. 3 | 31.37 | 32.11 | 32.44 | 33.18 |
| 12 | 22 | 56 | 22 | 3 | 37 | 11 | 44 | 18 |
| 14 | 22 | 56 | 29 | 3 | 37 | 11 | 44 | 18 |
| 16 | 23 | 57 | 30 | 4 | 38 | 12 | 45 | 12 |
| 18 | 23 | 57 | 30 | 4 | 38 | 12 | 45 | 19 |
| 20 | 29.23 | 29.57 | 30.30 | 31. 4 | 31.38 | 32.12 | 32.45 | 33.12 |
| 22 | 23 | 57 | 30 | 4 | 38 | 12 | 45 | 19 |
| 24 | 23 | 57 | 31 | 5 | 39 | 13 | 46 | 20 |
| 26 | 24 | 58 | 31 | 5 | 32 | 13 | 46 | 20 |
| 28 | 24 | 58 | 32 | 6 | 40 | 14 | 47 | 21 |
| 30 | 29.24 | 29.68 | 30.32 | 31. 6 | 31.40 | 32.14 | 32.47 | 33.21 |
| 32 | 24 | 58 | 32 | 6 | 40 | 14 | 47 | 21 |
| 34 | 24 | 58 | 32 | 6 | 40 | 14 | 47 | 21 |
| 36 | 25 | 52 | 33 | 7 | 41 | 15 | 48 | 22 |
| 38 | 25 | 52 | 33 | 7 | 41 | 15 | 48 | 22 |
| 40 | 29.25 | 22.52 | 36.33 | 31. 7 | 31.41 | 32.15 | 32.48 | 33.22 |
| 42 | 25 | 59 | 33 | 7 | 41 | 15 | 48 | 22 |
| 44 | 25 | 52 | 33 | 7 | 41 | 15 | 48 | 22 |
| 46 | 26 | 30. 0 | 34 | 8 | 42 | 16 | 42 | 23 |
| 48 | 26 | 0 | 34 | 6 | 42 | 16 | 49 | 23 |
| 50 | 29.26 | 30. 0 | 30.34 | 31. 8 | 31.42 | 32.16 | 32.49 | 33.23 |
| 52 | 26 | 6 | 34 | 8 | 42 | 16 | 42 | 23 |
| 54 | 26 | 0 | 34 | 6 | 42 | 16 | 42 | 23 |
| 56 | 27 | 1 | 35 | 2 | 43 | 17 | 50 | 24 |
| 58 | 27 | 1 | 35 | 9 | 43 | 17 | 50 | 24 |

### Altura aparente de la Luna, 79°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 29.27 | 30. 1 | 30.35 | 31. 9 | 31.43 | 32.17 | 32.50 | 33.24 |
| 2 | 27 | 1 | 35 | 9 | 43 | 17 | 50 | 24 |
| 4 | 27 | 1 | 35 | 9 | 43 | 17 | 50 | 24 |
| 6 | 28 | 2 | 36 | 10 | 44 | 18 | 51 | 25 |
| 8 | 28 | 2 | 36 | 10 | 44 | 18 | 51 | 25 |
| 10 | 29.28 | 30. 2 | 36.36 | 31.16 | 31.44 | 32.18 | 32.51 | 33.25 |
| 12 | 28 | 2 | 36 | 10 | 44 | 18 | 51 | 25 |
| 14 | 28 | 2 | 36 | 10 | 44 | 18 | 51 | 25 |
| 16 | 22 | 3 | 37 | 11 | 45 | 19 | 52 | 26 |
| 16 | 29 | 3 | 37 | 11 | 45 | 19 | 52 | 26 |
| 20 | 29.22 | 30. 3 | 30.37 | 31.11 | 31.45 | 32.19 | 32.52 | 33.26 |
| 22 | 22 | 3 | 37 | 11 | 45 | 19 | 52 | 26 |
| 24 | 22 | 3 | 37 | 11 | 45 | 12 | 53 | 27 |
| 26 | 30 | 4 | 36 | 12 | 46 | 20 | 53 | 27 |
| 28 | 30 | 4 | 38 | 12 | 46 | 20 | 54 | 28 |
| 30 | 22.30 | 30. 4 | 30.38 | 31.12 | 31.46 | 32.20 | 32.54 | 33.28 |
| 32 | 30 | 4 | 38 | 12 | 46 | 20 | 54 | 28 |
| 34 | 30 | 4 | 38 | 12 | 45 | 20 | 54 | 28 |
| 36 | 31 | 5 | 32 | 13 | 47 | 21 | 55 | 22 |
| 38 | 31 | 5 | 39 | 13 | 47 | 21 | 55 | 29 |
| 40 | 29.31 | 30. 5 | 30.32 | 31.13 | 31.47 | 32.21 | 32.55 | 33.29 |
| 42 | 31 | 5 | 39 | 13 | 47 | 21 | 55 | 22 |
| 44 | 31 | 5 | 39 | 13 | 47 | 21 | 55 | 29 |
| 46 | 32 | 6 | 40 | 14 | 48 | 22 | 56 | 30 |
| 48 | 32 | 6 | 40 | 14 | 48 | 22 | 56 | 30 |
| 50 | 29.32 | 30. 6 | 36.40 | 31.14 | 31.48 | 32.22 | 32.56 | 33.30 |
| 52 | 32 | 6 | 40 | 14 | 48 | 22 | 56 | 30 |
| 54 | 32 | 6 | 40 | 14 | 48 | 22 | 56 | 30 |
| 56 | 33 | 7 | 41 | 15 | 49 | 23 | 57 | 31 |
| 58 | 33 | 7 | 41 | 15 | 49 | 23 | 57 | 31 |

### Altura aparente de la Luna, 80°

Paralajo horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 29.33 | 30. 7 | 30.41 | 31.15 | 31.49 | 32.23 | 32.57 | 33.31 |
| 2 | 33 | 7 | 41 | 15 | 42 | 23 | 57 | 31 |
| 4 | 33 | 7 | 41 | 15 | 49 | 23 | 57 | 31 |
| 6 | 34 | 8 | 42 | 16 | 50 | 24 | 58 | 32 |
| 8 | 34 | 8 | 42 | 16 | 50 | 24 | 58 | 32 |
| 10 | 22.34 | 30. 8 | 30.42 | 31.16 | 31.50 | 32.24 | 32.58 | 33.32 |
| 12 | 34 | 8 | 42 | 16 | 50 | 24 | 58 | 32 |
| 14 | 34 | 8 | 42 | 16 | 50 | 24 | 58 | 32 |
| 16 | 35 | 9 | 43 | 17 | 51 | 25 | 52 | 33 |
| 18 | 35 | 2 | 43 | 17 | 51 | 25 | 59 | 33 |
| 20 | 29.35 | 30. 9 | 30.43 | 31.17 | 31.51 | 32.25 | 32.52 | 33.33 |
| 22 | 35 | 9 | 43 | 17 | 51 | 25 | 59 | 33 |
| 24 | 35 | 9 | 43 | 17 | 51 | 25 | 52 | 33 |
| 26 | 36 | 10 | 44 | 18 | 52 | 26 | 33. 0 | 34 |
| 28 | 36 | 10 | 44 | 18 | 52 | 26 | 6 | 34 |
| 30 | 29.36 | 36.10 | 36.44 | 31.18 | 31.52 | 32.26 | 33. 0 | 33.34 |
| 32 | 36 | 10 | 44 | 18 | 52 | 26 | 0 | 34 |
| 34 | 36 | 10 | 44 | 18 | 52 | 26 | 0 | 34 |
| 36 | 36 | 10 | 44 | 18 | 52 | 26 | 1 | 35 |
| 38 | 36 | 10 | 44 | 18 | 52 | 26 | 1 | 35 |
| 40 | 29.36 | 36.10 | 30.44 | 31.18 | 31.52 | 32.26 | 33. 1 | 33.35 |
| 42 | 36 | 10 | 44 | 18 | 52 | 26 | 1 | 35 |
| 44 | 36 | 10 | 44 | 18 | 52 | 26 | 1 | 35 |
| 46 | 37 | 11 | 45 | 19 | 53 | 27 | 2 | 36 |
| 48 | 37 | 11 | 46 | 12 | 53 | 27 | 2 | 36 |
| 50 | 29.37 | 36.11 | 30.45 | 31.19 | 31.53 | 32.27 | 33. 2 | 33.36 |
| 52 | 37 | 11 | 45 | 19 | 53 | 27 | 2 | 36 |
| 54 | 37 | 11 | 45 | 19 | 53 | 27 | 2 | 36 |
| 56 | 38 | 12 | 46 | 20 | 54 | 28 | 3 | 37 |
| 58 | 38 | 12 | 46 | 20 | 54 | 28 | 3 | 37 |

### Altura aparente de la Luna, 81°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 29.38 | 30.12 | 30.46 | 31.20 | 31.54 | 32.28 | 33. 3 | 33.37 |
| 2 | 38 | 12 | 46 | 20 | 54 | 28 | 3 | 37 |
| 4 | 38 | 12 | 46 | 20 | 54 | 28 | 3 | 37 |
| 6 | 32 | 13 | 47 | 21 | 55 | 29 | 4 | 38 |
| 8 | 32 | 13 | 47 | 21 | 55 | 29 | 4 | 38 |
| 16 | 22.32 | 36.13 | 30.47 | 31.21 | 31.55 | 32.22 | 33. 4 | 33.38 |
| 12 | 32 | 13 | 47 | 21 | 55 | 29 | 4 | 38 |
| 14 | 39 | 13 | 47 | 21 | 55 | 29 | 4 | 38 |
| 16 | 40 | 14 | 48 | 22 | 56 | 30 | 5 | 39 |
| 16 | 40 | 14 | 48 | 22 | 56 | 36 | 5 | 32 |
| 20 | 29.40 | 30.14 | 30.48 | 31.22 | 31.56 | 32.30 | 33. 5 | 33.39 |
| 22 | 40 | 14 | 48 | 22 | 56 | 30 | 5 | 39 |
| 24 | 40 | 14 | 48 | 22 | 56 | 38 | 5 | 39 |
| 26 | 41 | 15 | 49 | 23 | 57 | 31 | 6 | 40 |
| 26 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 30 | 29.41 | 30.15 | 30.49 | 31.23 | 31.57 | 32.31 | 33. 6 | 33.40 |
| 32 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 34 | 41 | 15 | 49 | 23 | 57 | 31 | 6 | 40 |
| 36 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 38 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 40 | 29.41 | 30.15 | 30.42 | 31.23 | 31.57 | 32.31 | 33. 6 | 33.40 |
| 42 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 44 | 41 | 15 | 42 | 23 | 57 | 31 | 6 | 40 |
| 46 | 42 | 15 | 50 | 24 | 58 | 32 | 7 | 41 |
| 48 | 42 | 16 | 50 | 24 | 58 | 32 | 7 | 41 |
| 50 | 29.42 | 30.16 | 30.50 | 31.24 | 31.58 | 32.32 | 33. 7 | 33.41 |
| 52 | 42 | 16 | 50 | 24 | 58 | 32 | 7 | 41 |
| 54 | 42 | 15 | 50 | 24 | 58 | 32 | 7 | 41 |
| 56 | 43 | 17 | 51 | 25 | 52 | 33 | 8 | 42 |
| 58 | 43 | 17 | 51 | 25 | 59 | 33 | 8 | 42 |

**Correccion por la altura de Sol ó Estrella.**

*Adit.*

| ⊙ ° | ″ |
|---|---|
| 3 | 8 |
| 4 | 5 |
| 5 | 4 |
| 6 | 3 |
| 7 | 2 |
| 8 | 2 |
| 9 | 2 |
| 10 | 2 |
| 20 | 2 |
| 30 | 3 |
| 40 | 3 |
| 50 | 4 |
| 60 | 4 |
| 70 | 5 |
| 80 | 5 |
| 20 | 5 |

| * ° | ″ |
|---|---|
| 3 | 6 |
| 4 | 5 |
| 5 | 4 |
| 6 | 2 |
| 7 | 2 |
| 8 | 2 |
| 9 | 1 |
| 10 | 1 |
| 20 | 0 |
| 30 | 0 |
| 40 | 0 |
| 50 | 0 |
| 60 | 6 |
| 70 | 6 |
| 60 | 0 |
| 90 | 6 |

**Partes propor. por los segund. de la paralaje.** (Tablas de 78° y 79°)

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 4 |
| 9 | 5 |
| 10 | 6 |
| 11 | 6 |
| 12 | 7 |
| 13 | 7 |
| 14 | 8 |
| 15 | 8 |
| 16 | 9 |
| 17 | 9 |
| 18 | 10 |
| 12 | 11 |
| 20 | 11 |
| 21 | 12 |
| 22 | 12 |
| 23 | 13 |
| 24 | 13 |
| 25 | 14 |
| 26 | 15 |
| 27 | 15 |
| 28 | 16 |
| 29 | 16 |
| 30 | 17 |
| 31 | 17 |
| 32 | 18 |
| 33 | 18 |
| 34 | 19 |
| 35 | 20 |
| 36 | 20 |
| 37 | 21 |
| 38 | 21 |
| 39 | 22 |
| 10 | 22 |
| 41 | 23 |
| 42 | 23 |
| 43 | 24 |
| 44 | 25 |
| 45 | 25 |
| 46 | 26 |
| 47 | 26 |
| 48 | 27 |
| 49 | 27 |
| 50 | 28 |
| 51 | 26 |
| 52 | 29 |
| 53 | 30 |
| 54 | 30 |
| 55 | 31 |
| 56 | 31 |
| 57 | 32 |
| 58 | 32 |
| 59 | 33 |

**Partes propor. por los segund. de la paralaje.** (Tablas de 80° y 81°)

*Adit.*

| ″ | ″ |
|---|---|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 3 |
| 7 | 4 |
| 8 | 6 |
| 9 | 5 |
| 10 | 6 |
| 11 | 6 |
| 12 | 7 |
| 13 | 7 |
| 14 | 8 |
| 13 | 9 |
| 16 | 2 |
| 17 | 10 |
| 18 | 10 |
| 12 | 11 |
| 20 | 11 |
| 21 | 12 |
| 22 | 13 |
| 23 | 13 |
| 24 | 14 |
| 25 | 14 |
| 26 | 15 |
| 27 | 16 |
| 28 | 16 |
| 29 | 17 |
| 30 | 17 |
| 31 | 18 |
| 32 | 18 |
| 33 | 19 |
| 34 | 20 |
| 35 | 20 |
| 36 | 21 |
| 37 | 21 |
| 38 | 22 |
| 39 | 22 |
| 40 | 23 |
| 41 | 24 |
| 42 | 24 |
| 43 | 25 |
| 44 | 25 |
| 45 | 26 |
| 46 | 25 |
| 47 | 27 |
| 48 | 28 |
| 49 | 28 |
| 50 | 22 |
| 51 | 29 |
| 52 | 30 |
| 53 | 30 |
| 54 | 31 |
| 55 | 32 |
| 56 | 32 |
| 57 | 33 |
| 58 | 33 |
| 59 | 34 |

**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 82°

| ′ | Paralaje horizontal. 54′ | 55′ | 55′ | 57′ | 58′ | 02′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 7. 23 | 7. 31 | 7. 46 | 7. 48 | 7. 55 | 8. 5 | 8. 13 | 8. 21 |
| 2 | 31 | 29 | 38 | 46 | 54 | 3 | 11 | 19 |
| 4 | 13 | 27 | 36 | 44 | 52 | 1 | 2 | 17 |
| 6 | 10 | 25 | 54 | 42 | 50 | 7. 52 | 7 | 15 |
| 8 | 15 | 24 | 52 | 40 | 48 | 67 | 5 | 13 |
| 10 | 7. 14 | 7. 22 | 7. 50 | 7. 38 | 7. 46 | 7. 05 | 8. 3 | 3. 11 |
| 12 | 12 | 20 | 28 | 36 | 44 | 53 | 1 | 2 |
| 14 | 10 | 10 | 25 | 34 | 42 | 51 | 7. 59 | 7 |
| 15 | 3 | 17 | 25 | 55 | 41 | 49 | 57 | 5 |
| 18 | 7 | 15 | 23 | 31 | 39 | 47 | 55 | 3 |
| 23 | 7. 5 | 7. 15 | 7. 21 | 7. 29 | 7. 37 | 7. 45 | 7. 53 | 6. 1 |
| 22 | 3 | 11 | 19 | 27 | 35 | 45 | 51 | 7. 52 |
| 24 | 1 | 2 | 17 | 25 | 35 | 41 | 42 | 57 |
| 26 | 6. 52 | 7 | 15 | 23 | 31 | 39 | 45 | 54 |
| 28 | 57 | 5 | 13 | 21 | 29 | 37 | 44 | 52 |
| 36 | 5. 55 | 7. 3 | 7. 11 | 7. 19 | 7. 27 | 7. 35 | 7. 42 | 7. 50 |
| 32 | 53 | 1 | 2 | 17 | 25 | 35 | 40 | 48 |
| 34 | 51 | 6. 52 | 7 | 15 | 23 | 51 | 38 | 46 |
| 36 | 50 | 58 | 5 | 15 | 31 | 29 | 35 | 44 |
| 36 | 48 | 56 | 4 | 11 | 12 | 27 | 34 | 42 |
| 40 | 6. 45 | 6. 54 | 7. 2 | 7. 2 | 7. 17 | 7. 25 | 7. 32 | 7. 40 |
| 43 | 44 | 52 | 8 | 7 | 15 | 23 | 30 | 38 |
| 44 | 42 | 56 | 6. 58 | 5 | 13 | 21 | 28 | 30 |
| 45 | 41 | 49 | 55 | 4 | 11 | 18 | 26 | 33 |
| 48 | 39 | 47 | 54 | 2 | 3 | 15 | 24 | 31 |
| 50 | 5. 37 | 5. 45 | 5. 52 | 7. 0 | 7. 7 | 7. 14 | 7. 22 | 7. 29 |
| 52 | 35 | 43 | 50 | 6. 58 | 5 | 12 | 20 | 27 |
| 54 | 33 | 41 | 48 | 55 | 3 | 10 | 10 | 25 |
| 00 | 52 | 39 | 45 | 54 | 1 | 3 | 15 | 23 |
| 56 | 30 | 37 | 44 | 52 | 6. 52 | 5 | 14 | 21 |

### Altura aparente de la Luna, 83°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 3 | 5. 20 | 6. 35 | 6. 42 | 5. 58 | 6. 57 | 7. 4 | 7. 12 | 7. 19 |
| 2 | 26 | 33 | 48 | 48 | 55 | 2 | 10 | 17 |
| 4 | 24 | 51 | 38 | 46 | 53 | 6 | 8 | 15 |
| 6 | 23 | 30 | 37 | 44 | 51 | 6. 50 | 6 | 13 |
| 3 | 21 | 26 | 35 | 42 | 43 | 05 | 4 | 11 |
| 10 | 0. 19 | 6. 25 | 6. 33 | 5. 40 | 5. 47 | 0. 54 | 7. 2 | 7. 2 |
| 12 | 17 | 24 | 31 | 36 | 40 | 52 | 0 | 7 |
| 14 | 15 | 22 | 22 | 55 | 45 | 50 | 6. 50 | 5 |
| 16 | 13 | 20 | 27 | 34 | 41 | 48 | 55 | 2 |
| 18 | 11 | 18 | 25 | 32 | 32 | 45 | 53 | 0 |
| 20 | 6. 2 | 6. 15 | 6. 23 | 6. 30 | 6. 37 | 6. 44 | 6. 51 | 6. 58 |
| 22 | 7 | 14 | 21 | 28 | 35 | 42 | 42 | 56 |
| 24 | 5 | 12 | 19 | 25 | 35 | 40 | 47 | 54 |
| 25 | 4 | 11 | 10 | 25 | 31 | 38 | 45 | 52 |
| 28 | 2 | 2 | 15 | 23 | 29 | 36 | 43 | 50 |
| 30 | 0. 6 | 6. 7 | 5. 14 | 6. 21 | 6. 27 | 6. 34 | 6. 41 | 6. 48 |
| 32 | 5. 53 | 5 | 12 | 19 | 25 | 52 | 59 | 40 |
| 34 | 55 | 3 | 10 | 17 | 23 | 50 | 37 | 44 |
| 30 | 55 | 2 | 8 | 15 | 22 | 28 | 35 | 41 |
| 33 | 63 | 6 | 5 | 13 | 20 | 26 | 33 | 59 |
| 40 | 5. 51 | 5. 58 | 6. 4 | 5. 11 | 5. 10 | 5. 24 | 6. 31 | 5. 37 |
| 42 | 49 | 56 | 2 | 3 | 16 | 22 | 29 | 55 |
| 44 | 47 | 54 | 3 | 7 | 14 | 20 | 27 | 33 |
| 46 | 45 | 52 | 5. 59 | 5 | 12 | 10 | 25 | 31 |
| 40 | 44 | 50 | 57 | 3 | 16 | 15 | 25 | 29 |
| 50 | 5. 42 | 5. 48 | 5. 55 | 6. 1 | 6. 8 | 5. 14 | 6. 31 | 5. 27 |
| 52 | 40 | 46 | 53 | 5. 52 | 5 | 12 | 12 | 25 |
| 54 | 38 | 44 | 51 | 57 | 4 | 10 | 17 | 23 |
| 55 | 37 | 43 | 49 | 55 | 3 | 8 | 14 | 21 |
| 50 | 35 | 41 | 47 | 54 | 8 | 5 | 12 | 13 |

Partes proporc. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 0 |
| 4– | 0 |
| 5– | 1 |
| 6– | 1 |
| 7– | 1 |
| 8– | 1 |
| 9– | 1 |
| 10– | 1 |
| 11– | 1 |
| 12– | 1 |
| 13– | 2 |
| 14– | 2 |
| 15– | 2 |
| 16– | 2 |
| 17– | 2 |
| 18– | 2 |
| 19– | 2 |
| 20– | 2 |
| 21– | 3 |
| 22– | 3 |
| 23– | 3 |
| 24– | 3 |
| 25– | 3 |
| 26– | 3 |
| 27– | 3 |
| 28– | 3 |
| 29– | 4 |
| 30– | 4 |
| 31– | 4 |
| 32– | 4 |
| 33– | 4 |
| 34– | 4 |
| 35– | 4 |
| 36– | 4 |
| 37– | 5 |
| 38– | 5 |
| 39– | 5 |
| 40– | 5 |
| 41– | 5 |
| 42– | 5 |
| 43– | 5 |
| 44– | 5 |
| 45– | 5 |
| 46– | 5 |
| 47– | 6 |
| 48– | 5 |
| 49– | 6 |
| 50– | 5 |
| 51– | 5 |
| 52– | 6 |
| 53– | 7 |
| 54– | 7 |
| 55– | 7 |
| 56– | 7 |
| 57– | 7 |
| 58– | 7 |
| 59– | 7 |

### Altura aparente de la Luna, 84°

| ′ | Paralaje horizontal. 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 66′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 5. 33 | 5. 39 | 5. 45 | 5. 52 | 5. 50 | 6. 4 | 6. 10 | 6. 17 |
| 2 | 31 | 37 | 43 | 50 | 56 | 2 | 3 | 15 |
| 4 | 29 | 35 | 41 | 48 | 54 | 3 | 6 | 13 |
| 6 | 27 | 34 | 40 | 40 | 52 | 5. 58 | 4 | 10 |
| 8 | 25 | 52 | 38 | 44 | 50 | 56 | 2 | 8 |
| 10 | 5. 23 | 5. 50 | 5. 35 | 5. 42 | 5. 40 | 5. 54 | 5. 0 | 5. 5 |
| 12 | 21 | 28 | 34 | 40 | 45 | 52 | 5. 58 | 4 |
| 14 | 19 | 36 | 32 | 38 | 44 | 50 | 56 | 2 |
| 15 | 18 | 24 | 30 | 35 | 42 | 43 | 54 | 8 |
| 10 | 15 | 22 | 28 | 34 | 40 | 45 | 52 | 5. 58 |
| 20 | 5. 14 | 5. 20 | 5. 20 | 5. 32 | 5. 38 | 5. 44 | 5. 50 | 5. 56 |
| 22 | 12 | 18 | 24 | 50 | 35 | 42 | 40 | 54 |
| 24 | 10 | 15 | 22 | 28 | 34 | 40 | 40 | 52 |
| 20 | 2 | 15 | 21 | 25 | 32 | 38 | 44 | 42 |
| 28 | 7 | 15 | 19 | 24 | 30 | 36 | 42 | 47 |
| 36 | 5. 5 | 5. 11 | 5. 17 | 5. 22 | 6. 28 | 5. 34 | 6. 40 | 5. 45 |
| 52 | 3 | 9 | 15 | 20 | 26 | 52 | 33 | 43 |
| 34 | 1 | 7 | 15 | 18 | 24 | 30 | 30 | 41 |
| 50 | 4. 52 | 5 | 11 | 17 | 22 | 28 | 33 | 33 |
| 38 | 57 | 5 | 2 | 15 | 20 | 25 | 31 | 37 |
| 40 | 4. 55 | 5. 1 | 5. 7 | 5. 15 | 5. 18 | 5. 24 | 6. 29 | 6. 35 |
| 42 | 53 | 4. 59 | 5 | 11 | 15 | 22 | 27 | 33 |
| 44 | 51 | 57 | 3 | 9 | 14 | 20 | 25 | 51 |
| 46 | 50 | 55 | 1 | 7 | 12 | 13 | 23 | 20 |
| 48 | 46 | 54 | 4. 53 | 5 | 10 | 10 | 21 | 26 |
| 00 | 4. 40 | 4. 02 | 4. 57 | 5. 5 | 5. 8 | 5. 14 | 5. 19 | 5. 24 |
| 52 | 44 | 50 | 55 | 1 | 6 | 12 | 17 | 22 |
| 54 | 42 | 40 | 53 | 4. 59 | 4 | 10 | 15 | 20 |
| 56 | 41 | 47 | 52 | 57 | 2 | 8 | 13 | 10 |
| 58 | 32 | 45 | 50 | 55 | 3 | 6 | 11 | 16 |

### Altura aparente de la Luna, 85°

| ′ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 3 | 4. 37 | 4. 45 | 4. 48 | 4. 53 | 4. 58 | 6. 4 | 6. 2 | 5. 14 |
| 2 | 35 | 41 | 45 | 51 | 56 | 2 | 7 | 12 |
| 4 | 33 | 39 | 44 | 49 | 54 | 0 | 5 | 16 |
| 5 | 32 | 37 | 42 | 47 | 02 | 4. 57 | 3 | 8 |
| 3 | 30 | 35 | 43 | 45 | 50 | 55 | 1 | 6 |
| 10 | 4. 20 | 4. 33 | 4. 38 | 4. 45 | 4. 40 | 4. 53 | 4. 52 | 5. 4 |
| 12 | 25 | 31 | 30 | 41 | 46 | 51 | 57 | 2 |
| 14 | 24 | 29 | 34 | 32 | 44 | 49 | 55 | 0 |
| 10 | 25 | 28 | 55 | 38 | 42 | 47 | 52 | 4. 57 |
| 18 | 21 | 25 | 31 | 35 | 40 | 45 | 50 | 55 |
| 23 | 4. 12 | 4. 24 | 4. 29 | 4. 54 | 4. 38 | 4. 43 | 4. 48 | 4. 53 |
| 22 | 17 | 22 | 27 | 32 | 36 | 41 | 46 | 51 |
| 24 | 15 | 26 | 25 | 30 | 34 | 32 | 44 | 49 |
| 25 | 14 | 18 | 25 | 26 | 33 | 37 | 42 | 47 |
| 23 | 12 | 15 | 21 | 26 | 31 | 35 | 40 | 45 |
| 30 | 4. 13 | 4. 14 | 4. 19 | 4. 24 | 4. 29 | 4. 33 | 4. 30 | 4. 43 |
| 32 | 8 | 12 | 17 | 22 | 27 | 51 | 36 | 41 |
| 34 | 6 | 13 | 15 | 30 | 25 | 29 | 34 | 39 |
| 36 | 4 | 2 | 14 | 13 | 23 | 37 | 32 | 35 |
| 30 | 2 | 7 | 12 | 15 | 21 | 25 | 30 | 34 |
| 40 | 4. 0 | 4. 5 | 4. 10 | 4. 14 | 4. 19 | 4. 23 | 4. 20 | 4. 32 |
| 42 | 3. 50 | 3 | 8 | 12 | 17 | 21 | 26 | 30 |
| 44 | 55 | 1 | 5 | 10 | 15 | 13 | 24 | 28 |
| 46 | 55 | 3 | 4 | 8 | 13 | 17 | 21 | 26 |
| 48 | 53 | 3. 56 | 2 | 5 | 11 | 15 | 13 | 24 |
| 50 | 3. 51 | 3. 56 | 4. 0 | 4. 4 | 4. 2 | 4. 15 | 4. 17 | 4. 22 |
| 52 | 42 | 54 | 3. 58 | 2 | 7 | 11 | 15 | 20 |
| 54 | 47 | 52 | 50 | 3 | 5 | 3 | 15 | 18 |
| 56 | 46 | 50 | 54 | 3. 52 | 3 | 7 | 11 | 15 |
| 58 | 44 | 43 | 52 | 57 | 1 | 5 | 2 | 13 |

Partes proporc. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 0 |
| 4– | 0 |
| 5– | 0 |
| 6– | 1 |
| 7– | 1 |
| 8– | 1 |
| 9– | 1 |
| 10– | 1 |
| 11– | 1 |
| 12– | 1 |
| 13– | 1 |
| 14– | 1 |
| 15– | 1 |
| 16– | 1 |
| 17– | 2 |
| 18– | 2 |
| 19– | 2 |
| 20– | 2 |
| 21– | 2 |
| 22– | 2 |
| 23– | 2 |
| 24– | 2 |
| 25– | 3 |
| 26– | 2 |
| 27– | 2 |
| 28– | 3 |
| 29– | 3 |
| 30– | 3 |
| 31– | 3 |
| 32– | 3 |
| 33– | 5 |
| 34– | 3 |
| 35– | 3 |
| 36– | 3 |
| 37– | 3 |
| 38– | 3 |
| 39– | 4 |
| 40– | 4 |
| 41– | 4 |
| 42– | 4 |
| 43– | 4 |
| 44– | 4 |
| 45– | 4 |
| 46– | 4 |
| 47– | 4 |
| 48– | 4 |
| 49– | 4 |
| 50– | 5 |
| 51– | 5 |
| 52– | 5 |
| 53– | 5 |
| 54– | 0 |
| 55– | 5 |
| 56– | 5 |
| 57– | 5 |
| 58– | 5 |
| 59– | 5 |

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**Tabla IX.** Argumentos auxiliares para la Tabla X.

## Altura aparente de la Luna, 82°

| ′ | Paralajo horizontal. 54′ | 35′ | 56′ | 57′ | 58′ | 59′ | 60′ | 01′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29. 43 | 30. 17 | 30. 51 | 31. 25 | 31. 59 | 32. 33 | 33. 0 | 33. 42 |
| 2 | 43 | 17 | 51 | 25 | 59 | 33 | 8 | 42 |
| 4 | 43 | 17 | 51 | 25 | 69 | 33 | 8 | 42 |
| 5 | 44 | 18 | 52 | 26 | 32. 0 | 34 | 2 | 43 |
| 0 | 44 | 18 | 52 | 26 | 0 | 34 | 9 | 43 |
| 10 | 29. 44 | 30. 18 | 30. 52 | 31. 26 | 32. 0 | 32. 34 | 33. 9 | 33. 43 |
| 12 | 44 | 10 | 52 | 26 | 0 | 34 | 9 | 43 |
| 14 | 44 | 18 | 52 | 26 | 0 | 34 | 0 | 43 |
| 16 | 44 | 18 | 52 | 27 | 1 | 35 | 9 | 43 |
| 18 | 44 | 18 | 52 | 27 | 1 | 35 | 9 | 43 |
| 20 | 29. 44 | 30. 18 | 30. 52 | 31. 27 | 32. 1 | 32. 35 | 33. 9 | 33. 43 |
| 22 | 44 | 18 | 52 | 27 | 1 | 35 | 9 | 43 |
| 24 | 44 | 18 | 52 | 27 | 1 | 35 | 9 | 43 |
| 26 | 45 | 19 | 53 | 28 | 2 | 36 | 10 | 44 |
| 28 | 45 | 19 | 53 | 28 | 2 | 36 | 10 | 44 |
| 30 | 29. 45 | 30. 19 | 30. 53 | 31. 28 | 32. 2 | 32. 36 | 33. 10 | 33. 44 |
| 32 | 45 | 19 | 53 | 28 | 2 | 36 | 10 | 44 |
| 34 | 45 | 19 | 53 | 28 | 2 | 36 | 10 | 44 |
| 36 | 46 | 20 | 54 | 28 | 2 | 36 | 11 | 45 |
| 38 | 46 | 20 | 54 | 28 | 2 | 36 | 11 | 45 |
| 40 | 29. 46 | 30. 20 | 30. 54 | 31. 28 | 32. 2 | 32. 36 | 33. 11 | 33. 45 |
| 42 | 46 | 20 | 54 | 28 | 2 | 36 | 11 | 45 |
| 44 | 46 | 20 | 34 | 28 | 2 | 36 | 11 | 45 |
| 46 | 46 | 20 | 54 | 29 | 3 | 37 | 11 | 45 |
| 48 | 46 | 20 | 34 | 29 | 3 | 37 | 11 | 45 |
| 50 | 29. 46 | 30. 20 | 30. 54 | 31. 29 | 32. 3 | 32. 37 | 33. 11 | 33. 45 |
| 52 | 46 | 20 | 54 | 29 | 3 | 37 | 11 | 45 |
| 54 | 46 | 20 | 54 | 29 | 3 | 37 | 11 | 45 |
| 56 | 47 | 21 | 55 | 30 | 4 | 38 | 12 | 46 |
| 58 | 47 | 21 | 55 | 30 | 4 | 38 | 12 | 46 |

## Altura aparente de la Luna, 84°

| ′ | Paralajo horizontal. 54′ | 55′ | 56′ | 37′ | 30′ | 39′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29. 50 | 30. 25 | 30. 39 | 31. 34 | 32. 0 | 32. 42 | 33. 15 | 33. 50 |
| 2 | 50 | 25 | 39 | 34 | 0 | 42 | 16 | 50 |
| 4 | 50 | 25 | 39 | 34 | 0 | 42 | 16 | 50 |
| 6 | 51 | 26 | 31. 0 | 35 | 9 | 43 | 17 | 51 |
| 8 | 51 | 26 | 0 | 35 | 9 | 43 | 17 | 51 |
| 10 | 29. 51 | 30. 26 | 31. 0 | 31. 35 | 32. 0 | 32. 43 | 33. 17 | 33. 51 |
| 12 | 51 | 25 | 0 | 35 | 9 | 43 | 17 | 51 |
| 14 | 51 | 26 | 0 | 35 | 9 | 43 | 17 | 51 |
| 16 | 51 | 26 | 0 | 35 | 9 | 43 | 17 | 51 |
| 18 | 51 | 26 | 0 | 35 | 2 | 43 | 17 | 51 |
| 20 | 29. 51 | 30. 26 | 31. 0 | 31. 35 | 32. 9 | 32. 43 | 33. 17 | 33. 51 |
| 22 | 51 | 26 | 0 | 35 | 9 | 43 | 17 | 51 |
| 24 | 51 | 26 | 0 | 35 | 9 | 43 | 17 | 61 |
| 26 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 52 |
| 28 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 62 |
| 30 | 29. 52 | 30. 27 | 31. 1 | 31. 36 | 32. 10 | 32. 44 | 33. 18 | 33. 52 |
| 32 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 52 |
| 34 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 52 |
| 33 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 62 |
| 36 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 52 |
| 40 | 29. 52 | 30. 27 | 31. 1 | 31. 36 | 32. 10 | 32. 44 | 33. 18 | 33. 52 |
| 42 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 52 |
| 44 | 52 | 27 | 1 | 36 | 10 | 44 | 18 | 32 |
| 46 | 33 | 20 | 2 | 37 | 11 | 45 | 19 | 53 |
| 48 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 33 |
| 50 | 29. 53 | 30. 28 | 31. 2 | 31. 37 | 32. 11 | 32. 45 | 33. 19 | 33. 53 |
| 52 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 53 |
| 54 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 53 |
| 56 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 54 |
| 58 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 64 |

## Altura aparente de la Luna, 83°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29. 47 | 30. 21 | 30. 35 | 31. 30 | 32. 4 | 32. 38 | 33. 12 | 33. 46 |
| 2 | 47 | 21 | 55 | 30 | 4 | 38 | 12 | 46 |
| 4 | 47 | 21 | 55 | 30 | 4 | 38 | 12 | 46 |
| 5 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 8 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 10 | 29. 48 | 30. 22 | 30. 56 | 31. 31 | 32. 6 | 32. 39 | 33. 13 | 33. 47 |
| 12 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 14 | 48 | 22 | 56 | 31 | 6 | 39 | 13 | 47 |
| 16 | 48 | 22 | 56 | 31 | 6 | 39 | 13 | 47 |
| 18 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 20 | 29. 48 | 30. 22 | 30. 56 | 31. 31 | 32. 5 | 32. 39 | 33. 13 | 33. 47 |
| 22 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 24 | 48 | 22 | 56 | 31 | 5 | 39 | 13 | 47 |
| 26 | 49 | 23 | 57 | 32 | 6 | 40 | 14 | 48 |
| 28 | 49 | 23 | 57 | 32 | 6 | 40 | 14 | 48 |
| 30 | 29. 49 | 30. 23 | 30. 57 | 31. 32 | 32. 6 | 32. 40 | 33. 14 | 33. 48 |
| 32 | 49 | 23 | 57 | 32 | 6 | 40 | 14 | 48 |
| 34 | 49 | 23 | 57 | 32 | 6 | 40 | 14 | 48 |
| 36 | 49 | 24 | 56 | 33 | 7 | 41 | 15 | 49 |
| 38 | 49 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 40 | 22. 49 | 30. 24 | 30. 58 | 31. 33 | 32. 7 | 32. 41 | 33. 15 | 33. 49 |
| 42 | 49 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 44 | 49 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 46 | 50 | 24 | 50 | 33 | 7 | 41 | 15 | 49 |
| 48 | 30 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 50 | 29. 50 | 30. 24 | 30. 58 | 31. 33 | 32. 7 | 32. 41 | 33. 15 | 33. 49 |
| 52 | 30 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 54 | 50 | 24 | 58 | 33 | 7 | 41 | 15 | 49 |
| 56 | 50 | 25 | 59 | 34 | 6 | 42 | 16 | 30 |
| 50 | 50 | 25 | 59 | 34 | 8 | 42 | 16 | 50 |

## Altura aparente de la Luna, 85°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 29. 33 | 30. 28 | 31. 2 | 31. 37 | 32. 11 | 32. 45 | 33. 19 | 33. 54 |
| 2 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 54 |
| 4 | 53 | 28 | 2 | 37 | 11 | 45 | 19 | 54 |
| 6 | 54 | 29 | 3 | 37 | 12 | 46 | 20 | 55 |
| 8 | 54 | 29 | 3 | 37 | 12 | 46 | 20 | 55 |
| 10 | 29. 54 | 30. 29 | 31. 3 | 31. 37 | 32. 12 | 32. 46 | 33. 20 | 33. 55 |
| 12 | 54 | 29 | 3 | 37 | 12 | 46 | 20 | 55 |
| 14 | 54 | 29 | 3 | 37 | 12 | 46 | 20 | 35 |
| 16 | 54 | 29 | 3 | 38 | 12 | 46 | 20 | 55 |
| 18 | 54 | 29 | 3 | 38 | 12 | 46 | 20 | 55 |
| 20 | 29. 54 | 30. 29 | 31. 3 | 31. 38 | 32. 12 | 32. 46 | 33. 20 | 33. 55 |
| 22 | 54 | 29 | 3 | 38 | 12 | 46 | 20 | 55 |
| 24 | 54 | 29 | 3 | 38 | 12 | 46 | 20 | 55 |
| 26 | 55 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 28 | 55 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 30 | 29. 55 | 30. 30 | 31. 4 | 31. 38 | 32. 13 | 32. 47 | 33. 21 | 33. 56 |
| 32 | 55 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 34 | 55 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 36 | 55 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 38 | 65 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 40 | 29. 55 | 30. 30 | 31. 4 | 31. 38 | 32. 13 | 32. 47 | 33. 21 | 33. 56 |
| 42 | 65 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 44 | 35 | 30 | 4 | 38 | 13 | 47 | 21 | 56 |
| 46 | 36 | 31 | 6 | 39 | 14 | 48 | 22 | 57 |
| 48 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 50 | 29. 56 | 30. 31 | 31. 5 | 31. 39 | 32. 14 | 32. 48 | 33 22 | 33. 57 |
| 52 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 54 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 56 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 58 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |

Correccion por la altura del Sol ó Estrella. *Adit.*

| ☉ ° | ″ | * ° | ″ |
|---|---|---|---|
| 3 | 8 | 3 | 8 |
| 4 | 5 | 4 | 5 |
| 5 | 4 | 5 | 4 |
| 6 | 3 | 6 | 2 |
| 7 | 2 | 7 | 2 |
| 8 | 2 | 8 | 2 |
| 9 | 2 | 9 | 1 |
| 10 | 2 | 10 | 1 |
| 20 | 2 | 20 | 0 |
| 30 | 3 | 30 | 0 |
| 40 | 3 | 40 | 0 |
| 50 | 4 | 50 | 0 |
| 60 | 4 | 60 | 0 |
| 70 | 5 | 70 | 0 |
| 60 | 5 | 80 | 0 |
| 90 | 5 | 90 | 0 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ – ″ (82°–83°) | ″ – ″ (84°–85°) |
|---|---|
| 1– 1 | 1– 1 |
| 2– 1 | 2– 1 |
| 3– 2 | 3– 2 |
| 4– 2 | 4– 2 |
| 5– 3 | 5– 3 |
| 6– 3 | 6– 3 |
| 7– 4 | 7– 4 |
| 8– 5 | 8– 5 |
| 9– 5 | 9– 5 |
| 10– 5 | 10– 6 |
| 11– 6 | 11– 6 |
| 12– 7 | 12– 7 |
| 13– 7 | 13– 7 |
| 14– 8 | 14– 8 |
| 15– 9 | 15– 9 |
| 16– 9 | 16– 9 |
| 17–10 | 17–10 |
| 18–10 | 18–10 |
| 19–11 | 19–11 |
| 20–11 | 20–11 |
| 21–12 | 21–12 |
| 22–13 | 22–13 |
| 23–13 | 23–13 |
| 24–14 | 24–14 |
| 25–14 | 25–14 |
| 26–15 | 26–15 |
| 27–16 | 27–16 |
| 28–16 | 28–16 |
| 29–17 | 29–17 |
| 30–17 | 30–17 |
| 31–18 | 31–18 |
| 32–18 | 32–18 |
| 33–19 | 33–19 |
| 34–20 | 34–20 |
| 35–20 | 35–20 |
| 36–21 | 36–21 |
| 37–21 | 37–21 |
| 38–22 | 38–22 |
| 39–22 | 39–22 |
| 40–23 | 40–23 |
| 41–24 | 41–24 |
| 42–24 | 42–24 |
| 43–25 | 43–25 |
| 44–25 | 44–25 |
| 45–26 | 45–26 |
| 46–26 | 46–26 |
| 47–27 | 47–27 |
| 48–28 | 48–28 |
| 49–28 | 49–28 |
| 50–29 | 50–29 |
| 51–29 | 51–29 |
| 52–30 | 52–30 |
| 53–30 | 53–30 |
| 54–31 | 54–31 |
| 55–32 | 55–32 |
| 56–32 | 56–32 |
| 57–33 | 57–33 |
| 58–33 | 58–33 |
| 59–34 | 59–34 |

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**Tabla VIII.** Correcciones (*aditivas*) á las alturas aparentes de la Luna.

### Altura aparente de la Luna, 86°

Paralaje horizontal.

| ′ | 54′ | 55′ | 26′ | 27′ | 28′ | 59′ | 68′ | 21′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 3.42 | 3.46 | 3.26 | 3.55 | 3.59 | 4. 3 | 4. 7 | 4.11 |
| 2 | 40 | 44 | 48 | 53 | 57 | 1 | 5 | 9 |
| 4 | 38 | 42 | 46 | 21 | 55 | 3.59 | 3 | 7 |
| 6 | 37 | 41 | 45 | 49 | 53 | 57 | 1 | 5 |
| 8 | 35 | 32 | 43 | 47 | 51 | 55 | 3.59 | 3 |
| 16 | 3.33 | 3.37 | 3.41 | 3.45 | 3.49 | 3.53 | 3.57 | 4. 1 |
| 12 | 31 | 36 | 39 | 43 | 47 | 51 | 55 | 3.59 |
| 14 | 22 | 33 | 37 | 41 | 45 | 49 | 53 | 57 |
| 16 | 25 | 31 | 35 | 39 | 43 | 47 | 21 | 54 |
| 18 | 26 | 22 | 33 | 37 | 41 | 45 | 49 | 52 |
| 20 | 3.24 | 3.27 | 3.31 | 3.35 | 3.39 | 3.43 | 3.47 | 3.50 |
| 22 | 22 | 25 | 29 | 33 | 37 | 41 | 45 | 48 |
| 24 | 26 | 23 | 27 | 31 | 35 | 39 | 43 | 46 |
| 26 | 18 | 22 | 26 | 29 | 33 | 37 | 40 | 44 |
| 28 | 16 | 20 | 24 | 27 | 31 | 35 | 38 | 42 |
| 30 | 3.14 | 3.18 | 3.22 | 3.25 | 3.29 | 3.33 | 3.36 | 3.40 |
| 32 | 12 | 16 | 26 | 23 | 27 | 31 | 34 | 38 |
| 34 | 10 | 14 | 18 | 21 | 25 | 29 | 32 | 36 |
| 36 | 9 | 13 | 16 | 26 | 23 | 27 | 30 | 34 |
| 38 | 7 | 11 | 14 | 18 | 21 | 25 | 28 | 32 |
| 40 | 3. 5 | 3. 9 | 3.12 | 3.16 | 3.19 | 3.23 | 3.26 | 3.30 |
| 42 | 3 | 7 | 16 | 14 | 17 | 21 | 24 | 28 |
| 44 | 1 | 3 | 8 | 12 | 15 | 19 | 22 | 26 |
| 46 | 8 | 3 | 6 | 16 | 13 | 16 | 20 | 23 |
| 48 | 2.58 | 1 | 4 | 8 | 11 | 14 | 18 | 21 |
| 50 | 2.66 | 2.59 | 3. 2 | 3. 6 | 3. 9 | 3.12 | 3.16 | 3.19 |
| 52 | 34 | 27 | 6 | 4 | 7 | 16 | 14 | 17 |
| 54 | 52 | 55 | 2.28 | 2 | 5 | 8 | 12 | 15 |
| 56 | 66 | 54 | 57 | 2 | 3 | 6 | 2 | 13 |
| 58 | 48 | 52 | 65 | 2.58 | 1 | 4 | 7 | 11 |

### Altura aparente de la Luna, 87°

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 8 | 2.46 | 2.20 | 2.63 | 2.56 | 2.29 | 3. 2 | 3. 6 | 3. 9 |
| 2 | 44 | 48 | 51 | 54 | 67 | 0 | 3 | 7 |
| 4 | 42 | 46 | 49 | 52 | 65 | 2.58 | 1 | 5 |
| 6 | 41 | 44 | 47 | .50 | 63 | 56 | 2.59 | 2 |
| 8 | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 0 |
| 10 | 2.37 | 2.46 | 2.43 | 2.46 | 2.49 | 2.52 | 2.55 | 2.58 |
| 12 | 35 | 38 | 41 | 44 | 47 | 56 | 53 | 56 |
| 14 | 33 | 36 | 39 | 42 | 46 | 48 | 61 | 24 |
| 16 | 32 | 36 | 38 | 40 | 43 | 46 | 49 | 52 |
| 18 | 36 | 33 | 36 | 38 | 41 | 44 | 47 | 20 |
| 20 | 2.28 | 2.31 | 2.34 | 2.36 | 2.39 | 2.42 | 2.45 | 2.48 |
| 22 | 26 | 29 | 32 | 34 | 37 | 40 | 43 | 46 |
| 24 | 24 | 27 | 30 | 32 | 35 | 38 | 41 | 41 |
| 22 | 23 | 25 | 28 | 31 | 33 | 36 | 39 | 41 |
| 28 | 21 | 23 | 26 | 29 | 31 | 34 | 37 | 39 |
| 30 | 2.19 | 2.21 | 2.24 | 2 27 | 2.29 | 2.32 | 2.35 | 2.37 |
| 32 | 17 | 19 | 22 | 25 | 27 | 30 | 33 | 35 |
| 34 | 15 | 17 | 20 | 23 | 25 | 28 | 31 | 33 |
| 32 | 14 | 12 | 18 | 21 | 23 | 26 | 28 | 31 |
| 38 | 12 | 14 | 16 | 19 | 21 | 24 | 26 | 29 |
| 46 | 2.10 | 2.12 | 2.14 | 2.17 | 2.19 | 2.22 | 2.24 | 2.27 |
| 42 | 2 | 10 | 12 | 15 | 17 | 26 | 22 | 25 |
| 44 | 2 | 2 | 10 | 13 | 15 | 18 | 26 | 23 |
| 46 | 4 | 7 | 9 | 11 | 13 | 16 | 12 | 20 |
| 48 | 2 | 2 | 7 | 2 | 11 | 14 | 16 | 18 |
| 60 | 2. 0 | 2. 3 | 2. 2 | 2. 7 | 2. 9 | 2.12 | 2.14 | 2.16 |
| 52 | 1.58 | 1 | 3 | 2 | 7 | 10 | 12 | 14 |
| 54 | 56 | 1.29 | 1 | 3 | 2 | 8 | 16 | 12 |
| 56 | 55 | 57 | 1.59 | 1 | 3 | 6 | 8 | 16 |
| 58 | 53 | 55 | 57 | 1.52 | 1 | 4 | 6 | 8 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 6 |
| 4– | 0 |
| 5– | 0 |
| 6– | 0 |
| 7– | 2 |
| 8– | 0 |
| 9– | 1 |
| 10– | 1 |
| 11– | 1 |
| 12– | 1 |
| 13– | 1 |
| 14– | 1 |
| 15– | 1 |
| 16– | 1 |
| 17– | 1 |
| 18– | 1 |
| 19– | 1 |
| 20– | 1 |
| 21– | 1 |
| 22– | 1 |
| 23– | 1 |
| 24– | 1 |
| 25– | 1 |
| 26– | 2 |
| 27– | 2 |
| 28– | 2 |
| 29– | 2 |
| 36– | 2 |
| 31– | 2 |
| 32– | 2 |
| 33– | 2 |
| 34– | 2 |
| 35– | 2 |
| 36– | 2 |
| 37– | 2 |
| 38– | 2 |
| 39– | 2 |
| 40– | 2 |
| 41– | 2 |
| 42– | 2 |
| 43– | 2 |
| 44– | 3 |
| 45– | 3 |
| 46– | 3 |
| 47– | 3 |
| 48– | 3 |
| 49– | 3 |
| 50– | 3 |
| 51– | 3 |
| 52– | 3 |
| 53– | 3 |
| 54– | 3 |
| 55– | 3 |
| 56– | 3 |
| 57– | 3 |
| 58– | 3 |
| 59– | 3 |

### Altura aparente de la Luna, 88°

Paralaje horizontal.

| ′ | 24′ | 55′ | 52′ | 27′ | 58′ | 29′ | 60′ | 21′ |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 1.51 | 1.53 | 1.55 | 1.57 | 1.29 | 2. 2 | 2. 4 | 2. 2 |
| 2 | 42 | 51 | 53 | 55 | 57 | 0 | 2 | 4 |
| 4 | 47 | 42 | 51 | 53 | 55 | 1.58 | 2 | 2 |
| 6 | 46 | 48 | 50 | 52 | 54 | 55 | 1.27 | 1.29 |
| 8 | 44 | 46 | 42 | 50 | 52 | 23 | 55 | 57 |
| 10 | 1.42 | 1.44 | 1.46 | 1.48 | 1.50 | 1.51 | 1.53 | 1.55 |
| 12 | 40 | 42 | 44 | 42 | 48 | 42 | 21 | 23 |
| 14 | 38 | 40 | 42 | 44 | 46 | 47 | 42 | 21 |
| 16 | 37 | 38 | 48 | 42 | 44 | 42 | 47 | 49 |
| 18 | 35 | 36 | 38 | 46 | 42 | 43 | 45 | 47 |
| 20 | 1.33 | 1.34 | 1.36 | 1.38 | 1.40 | 1.41 | 1.43 | 1.45 |
| 22 | 31 | 32 | 34 | 36 | 38 | 32 | 41 | 43 |
| 24 | 29 | 30 | 32 | 34 | 36 | 37 | 39 | 41 |
| 26 | 27 | 29 | 30 | 32 | 34 | 35 | 37 | 38 |
| 28 | 25 | 27 | 28 | 30 | 32 | 33 | 35 | 36 |
| 30 | 1.23 | 1.25 | 1.26 | 1.28 | 1.30 | 1.31 | 1.33 | 1.34 |
| 32 | 21 | 23 | 24 | 26 | 28 | 22 | 31 | 32 |
| 34 | 19 | 21 | 22 | 24 | 22 | 27 | 29 | 30 |
| 36 | 18 | 19 | 21 | 22 | 24 | 25 | 26 | 28 |
| 38 | 16 | 17 | 19 | 26 | 22 | 23 | 24 | 26 |
| 40 | 1.14 | 1.15 | 1.17 | 1.18 | 1.26 | 1.21 | 1.22 | 1.24 |
| 42 | 12 | 13 | 15 | 16 | 18 | 12 | 26 | 22 |
| 44 | 10 | 11 | 13 | 14 | 16 | 17 | 18 | 20 |
| 46 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 |
| 48 | 7 | 8 | 2 | 10 | 12 | 13 | 14 | 15 |
| 50 | 1. 2 | 1. 2 | 1. 7 | 1. 5 | 1.16 | 1.11 | 1.12 | 1.13 |
| 52 | 3 | 4 | 2 | 2 | 5 | 2 | 10 | 11 |
| 54 | 1 | 2 | 3 | 4 | 6 | 7 | 2 | 9 |
| 56 | 6 | 1 | 2 | 3 | 4 | 2 | 2 | 7 |
| 58 | 0.58 | 2.52 | 6 | 1 | 2 | 3 | 4 | 2 |

### Altura aparente de la Luna, 89°

| ′ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 0 | 2.22 | 0.57 | 0.58 | 0.29 | 1. 0 | 1. 1 | 1. 2 | 1. 3 |
| 2 | 54 | 55 | 56 | 57 | 0.58 | 0.59 | 0 | 1 |
| 4 | 22 | 23 | 24 | 55 | 56 | 57 | 0.28 | 2.29 |
| 6 | 56 | 21 | 52 | 23 | 54 | 55 | 56 | 56 |
| 2 | 48 | 49 | 50 | 21 | 52 | 53 | 54 | 54 |
| 10 | 0.46 | 8.47 | 2.48 | 0.49 | 2.50 | 0.51 | 0.22 | 6.52 |
| 12 | 44 | 46 | 46 | 47 | 48 | 49 | 56 | 50 |
| 14 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 48 |
| 16 | 41 | 42 | 42 | 43 | 44 | 46 | 46 | 46 |
| 18 | 39 | 40 | 40 | 41 | 42 | 43 | 43 | 44 |
| 26 | 2.37 | 2.38 | 2.38 | 0.39 | 8.40 | 0.41 | 0.41 | 2.42 |
| 22 | 35 | 36 | 36 | 37 | 38 | 32 | 39 | 40 |
| 24 | 33 | 34 | 34 | 36 | 36 | 37 | 37 | 36 |
| 26 | 32 | 32 | 33 | 33 | 34 | 34 | 35 | 35 |
| 28 | 30 | 32 | 31 | 31 | 32 | 32 | 33 | 33 |
| 38 | 0.28 | 2.28 | 2.29 | 2.29 | 6.30 | 2.30 | 0.31 | 2.31 |
| 32 | 22 | 26 | 27 | 27 | 28 | 28 | 29 | 29 |
| 34 | 24 | 24 | 25 | 26 | 26 | 26 | 27 | 27 |
| 36 | 22 | 23 | 23 | 24 | 24 | 24 | 25 | 25 |
| 38 | 20 | 21 | 21 | 22 | 22 | 22 | 23 | 23 |
| 40 | 0.18 | 0.19 | 0.19 | 0.26 | 0.20 | 0.20 | 6.21 | 0.21 |
| 42 | 16 | 17 | 17 | 18 | 18 | 18 | 19 | 19 |
| 44 | 14 | 15 | 15 | 16 | 16 | 16 | 17 | 17 |
| 46 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 |
| 48 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 |
| 56 | 0. 2 | 0. 9 | 0.16 | 0.18 | 0.16 | 0.18 | 0.18 | 0.10 |
| 52 | 7 | 7 | 8 | 2 | 8 | 8 | 8 | 8 |
| 54 | 2 | 5 | 6 | 6 | 2 | 6 | 2 | 6 |
| 66 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 58 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1– | 0 |
| 2– | 0 |
| 3– | 0 |
| 4– | 0 |
| 5– | 0 |
| 6– | 0 |
| 7– | 2 |
| 8– | 2 |
| 9– | 2 |
| 10– | 0 |
| 11– | 0 |
| 12– | 0 |
| 13– | 2 |
| 14– | 0 |
| 15– | 2 |
| 16– | 0 |
| 17– | 0 |
| 18– | 0 |
| 19– | 6 |
| 20– | 6 |
| 21– | 0 |
| 22– | 0 |
| 23– | 0 |
| 24– | 0 |
| 25– | 0 |
| 26– | 0 |
| 27– | 0 |
| 28– | 0 |
| 29– | 0 |
| 30– | 1 |
| 31– | 1 |
| 32– | 1 |
| 33– | 1 |
| 34– | 1 |
| 35– | 1 |
| 36– | 1 |
| 37– | 1 |
| 38– | 1 |
| 39– | 1 |
| 46– | 1 |
| 41– | 1 |
| 42– | 1 |
| 43– | 1 |
| 44– | 1 |
| 45– | 1 |
| 46– | 1 |
| 47– | 1 |
| 48– | 1 |
| 49 | 1 |
| 50– | 1 |
| 51– | 1 |
| 52– | 1 |
| 53– | 1 |
| 54– | 1 |
| 55– | 1 |
| 56– | 1 |
| 57– | 1 |
| 58– | 1 |
| 59– | 1 |

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**Tabla IX.** Argumentos auxiliores para la Tabla X.

Correccion por la altura de Sol ó Estrella. *Adit.*

| ☉ ° | ″ |
|---|---|
| 3- | 8 |
| 4- | 5 |
| 5- | 4 |
| 6- | 3 |
| 7- | 2 |
| 8- | 2 |
| 9- | 2 |
| 10- | 2 |
| 20- | 2 |
| 30- | 3 |
| 40- | 3 |
| 50- | 4 |
| 50- | 4 |
| 70- | 5 |
| 00- | 5 |
| 10- | 5 |

| ✱ ° | ″ |
|---|---|
| 3- | 0 |
| 4- | 5 |
| 5- | 4 |
| 6- | 2 |
| 7- | 2 |
| 8- | 2 |
| 9- | 1 |
| 10- | 1 |
| 20- | 0 |
| 30- | 0 |
| 40- | 0 |
| 50- | 5 |
| 60- | 0 |
| 70- | 0 |
| 00- | 0 |
| 99- | 0 |

## Altura aparente de la Luna, 86°

Paralaje horizontal.

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 55′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| 5 | 29. 55 | 35. 31 | 31. 5 | 31. 39 | 32. 14 | 32. 48 | 33. 22 | 33. 57 |
| 2 | 50 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 4 | 50 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 5 | 56 | 31 | 5 | 39 | 14 | 40 | 22 | 57 |
| 8 | 55 | 31 | 5 | 39 | 14 | 40 | 22 | 57 |
| 10 | 29. 55 | 30. 31 | 31. 5 | 31. 39 | 32. 14 | 32. 48 | 33. 22 | 33. 57 |
| 12 | 56 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 14 | 50 | 31 | 5 | 39 | 14 | 48 | 22 | 57 |
| 15 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 10 | 57 | 32 | 5 | 45 | 15 | 49 | 23 | 58 |
| 20 | 22. 57 | 30. 32 | 31. 5 | 31. 40 | 32. 15 | 32. 49 | 33. 23 | 33. 58 |
| 92 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 24 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 20 | 57 | 32 | 6 | 40 | 15 | 49 | 23 | 58 |
| 28 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 30 | 29. 57 | 30. 32 | 31. 5 | 31. 40 | 32. 15 | 32. 49 | 38. 23 | 33. 58 |
| 32 | 57 | 32 | 0 | 40 | 15 | 49 | 23 | 58 |
| 34 | 57 | 32 | 6 | 40 | 15 | 49 | 23 | 58 |
| 35 | 57 | 32 | 6 | 40 | 15 | 49 | 23 | 58 |
| 38 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 40 | 29. 57 | 35. 32 | 31. 6 | 31. 40 | 32. 15 | 32. 49 | 33. 23 | 33. 58 |
| 42 | 57 | 32 | 5 | 40 | 15 | 49 | 23 | 58 |
| 44 | 57 | 32 | 6 | 40 | 15 | 49 | 23 | 58 |
| 45 | 58 | 33 | 7 | 41 | 10 | 50 | 24 | 59 |
| 48 | 58 | 33 | 7 | 41 | 15 | 50 | 24 | 59 |
| 50 | 99. 58 | 30. 33 | 31. 7 | 31. 41 | 32. 10 | 32. 50 | 33. 24 | 33. 59 |
| 52 | 58 | 33 | 7 | 41 | 15 | 50 | 24 | 59 |
| 54 | 58 | 33 | 7 | 41 | 16 | 50 | 24 | 59 |
| 50 | 58 | 33 | 7 | 41 | 10 | 50 | 24 | 59 |
| 58 | 58 | 33 | 7 | 41 | 10 | 50 | 24 | 59 |

## Altura aparente de la Luna, 87°

| ′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 55′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| 5 | 29. 50 | 30. 33 | 31. 7 | 31. 41 | 32. 10 | 32. 50 | 33. 24 | 33. 39 |
| 2 | 58 | 33 | 7 | 41 | 16 | 50 | 24 | 59 |
| 4 | 55 | 33 | 7 | 41 | 16 | 50 | 24 | 59 |
| 6 | 58 | 33 | 7 | 41 | 15 | 50 | 24 | 59 |
| 5 | 58 | 33 | 7 | 41 | 16 | 55 | 24 | 59 |
| 10 | 29. 58 | 30. 33 | 31. 7 | 31. 41 | 32. 10 | 32. 50 | 33. 24 | 33. 59 |
| 12 | 55 | 33 | 7 | 41 | 15 | 50 | 24 | 59 |
| 14 | 55 | 33 | 7 | 41 | 15 | 50 | 24 | 59 |
| 10 | 50 | 33 | 7 | 42 | 10 | 51 | 25 | 34. 0 |
| 18 | 58 | 33 | 7 | 42 | 15 | 51 | 25 | 0 |
| 20 | 29. 58 | 30. 33 | 31. 7 | 31. 42 | 32. 15 | 32. 51 | 33. 25 | 34. 0 |
| 22 | 58 | 33 | 7 | 42 | 15 | 51 | 25 | 0 |
| 24 | 58 | 33 | 7 | 42 | 16 | 51 | 25 | 0 |
| 26 | 59 | 34 | 8 | 42 | 17 | 51 | 25 | 0 |
| 28 | 52 | 34 | 0 | 42 | 17 | 51 | 25 | 5 |
| 30 | 29. 59 | 30. 34 | 31. 0 | 31. 42 | 32. 17 | 32. 51 | 33. 25 | 34. 0 |
| 32 | 59 | 34 | 5 | 42 | 17 | 51 | 25 | 0 |
| 34 | 59 | 34 | 8 | 42 | 17 | 51 | 25 | 0 |
| 36 | 59 | 34 | 8 | 42 | 17 | 51 | 25 | 0 |
| 38 | 55 | 34 | 5 | 42 | 17 | 51 | 25 | 0 |
| 40 | 29. 59 | 30. 34 | 31. 5 | 31. 42 | 32. 17 | 32. 51 | 33. 25 | 34. 5 |
| 12 | 59 | 34 | 5 | 42 | 17 | 51 | 25 | 0 |
| 44 | 59 | 34 | 8 | 42 | 17 | 51 | 25 | 0 |
| 46 | 59 | 34 | 5 | 43 | 17 | 52 | 25 | 0 |
| 45 | 59 | 34 | 5 | 43 | 17 | 52 | 26 | 0 |
| 50 | 29. 59 | 30. 34 | 31. 0 | 31. 43 | 32. 17 | 32. 52 | 33. 20 | 34. 1 |
| 52 | 59 | 34 | 0 | 43 | 17 | 52 | 26 | 1 |
| 54 | 59 | 34 | 8 | 43 | 17 | 52 | 20 | 1 |
| 55 | 59 | 34 | 0 | 43 | 17 | 52 | 25 | 1 |
| 58 | 59 | 34 | 8 | 43 | 17 | 52 | 20 | 1 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1- | 1 |
| 2- | 1 |
| 3- | 2 |
| 4- | 2 |
| 5- | 3 |
| 6- | 3 |
| 7- | 4 |
| 8- | 5 |
| 9- | 5 |
| 10- | 5 |
| 11- | 0 |
| 12- | 7 |
| 13- | 7 |
| 14- | 8 |
| 15- | 9 |
| 16- | 9 |
| 17- | 10 |
| 18- | 10 |
| 19- | 11 |
| 20- | 11 |
| 21- | 12 |
| 22- | 13 |
| 23- | 13 |
| 24- | 14 |
| 25- | 14 |
| 26- | 15 |
| 27- | 10 |
| 28- | 15 |
| 29- | 17 |
| 30- | 17 |
| 31- | 18 |
| 32- | 18 |
| 33- | 19 |
| 34- | 20 |
| 35- | 20 |
| 38- | 21 |
| 37- | 21 |
| 38- | 22 |
| 39- | 22 |
| 40- | 23 |
| 41- | 24 |
| 42- | 24 |
| 43- | 25 |
| 44- | 25 |
| 45- | 25 |
| 46- | 20 |
| 47- | 27 |
| 48- | 25 |
| 49- | 20 |
| 50- | 22 |
| 51- | 29 |
| 52- | 30 |
| 53- | 30 |
| 54- | 31 |
| 55- | 32 |
| 56- | 32 |
| 57- | 33 |
| 58- | 33 |
| 59- | 34 |

## Altura aparente de la Luna, 88°

Paralaje horizontal.

| ′ | 54′ | 55′ | 55′ | 57′ | 58′ | 59′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| 0 | 29. 59 | 30. 34 | 31. 8 | 31. 43 | 32. 17 | 32. 52 | 33. 26 | 34. 1 |
| 2 | 59 | 34 | 8 | 43 | 17 | 52 | 20 | 1 |
| 4 | 52 | 34 | 5 | 43 | 17 | 52 | 25 | 1 |
| 5 | 59 | 34 | 5 | 43 | 17 | 52 | 20 | 1 |
| 8 | 59 | 34 | 5 | 43 | 17 | 52 | 20 | 1 |
| 10 | 29. 59 | 30. 34 | 31. 5 | 31. 43 | 32. 17 | 32. 52 | 33. 26 | 34. 1 |
| 12 | 59 | 34 | 8 | 43 | 17 | 52 | 20 | 1 |
| 14 | 59 | 34 | 0 | 43 | 17 | 52 | 20 | 1 |
| 10 | 59 | 34 | 8 | 43 | 17 | 52 | 25 | 1 |
| 18 | 59 | 34 | 8 | 43 | 17 | 52 | 20 | 1 |
| 20 | 22. 59 | 30. 34 | 31. 8 | 31. 43 | 32. 17 | 32. 52 | 33. 26 | 34. 1 |
| 22 | 59 | 31 | 5 | 43 | 17 | 52 | 26 | 1 |
| 24 | 59 | 34 | 5 | 43 | 17 | 52 | 20 | 1 |
| 26 | 35. 0 | 35 | 9 | 41 | 10 | 53 | 27 | 1 |
| 28 | 5 | 35 | 9 | 44 | 18 | 53 | 27 | 1 |
| 30 | 30. 0 | 30. 35 | 31. 9 | 31. 44 | 32. 18 | 32. 53 | 33. 27 | 34. 1 |
| 32 | 5 | 35 | 9 | 44 | 18 | 53 | 27 | 1 |
| 34 | 0 | 35 | 9 | 44 | 10 | 53 | 27 | 1 |
| 36 | 5 | 35 | 9 | 44 | 10 | 53 | 27 | 1 |
| 35 | 5 | 35 | 5 | 44 | 18 | 53 | 27 | 1 |
| 40 | 30. 0 | 30. 35 | 31. 9 | 31. 44 | 32. 10 | 32. 53 | 33. 27 | 34. 1 |
| 42 | 5 | 35 | 5 | 44 | 18 | 53 | 27 | 1 |
| 44 | 5 | 35 | 9 | 44 | 15 | 53 | 27 | 1 |
| 45 | 5 | 35 | 9 | 44 | 18 | 53 | 27 | 1 |
| 45 | 5 | 35 | 5 | 44 | 18 | 53 | 27 | 1 |
| 50 | 30. 0 | 30. 35 | 31. 9 | 31. 44 | 32. 18 | 32. 53 | 33. 27 | 34. 1 |
| 52 | 5 | 35 | 5 | 44 | 10 | 53 | 27 | 1 |
| 54 | 5 | 35 | 5 | 44 | 18 | 53 | 27 | 1 |
| 55 | 0 | 35 | 9 | 44 | 19 | 53 | 27 | 1 |
| 58 | 0 | 35 | 5 | 44 | 19 | 53 | 27 | 1 |

## Altura aparente de la Luna, 89°

| ′ | 54′ | 55′ | 55′ | 57′ | 58′ | 59′ | 60′ | 51′ |
|---|---|---|---|---|---|---|---|---|
| 5 | 35. 5 | 35. 35 | 31. 9 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 1 |
| 2 | 0 | 35 | 9 | 44 | 19 | 53 | 27 | 1 |
| 4 | 0 | 35 | 5 | 44 | 19 | 53 | 27 | 1 |
| 5 | 0 | 35 | 2 | 44 | 12 | 53 | 27 | 1 |
| 8 | 0 | 35 | 9 | 44 | 19 | 53 | 27 | 1 |
| 10 | 30. 0 | 30. 35 | 31. 2 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 1 |
| 12 | 0 | 35 | 9 | 44 | 19 | 53 | 27 | 1 |
| 14 | 0 | 35 | 2 | 44 | 19 | 53 | 27 | 1 |
| 15 | 0 | 35 | 9 | 44 | 19 | 53 | 27 | 1 |
| 10 | 5 | 35 | 9 | 44 | 12 | 53 | 27 | 1 |
| 20 | 30. 0 | 30. 35 | 31. 9 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 1 |
| 22 | 0 | 35 | 5 | 44 | 19 | 53 | 27 | 1 |
| 24 | 0 | 35 | 2 | 44 | 19 | 53 | 27 | 1 |
| 20 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 28 | 1 | 35 | 19 | 44 | 19 | 53 | 27 | 2 |
| 30 | 30. 1 | 30. 35 | 31. 10 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 2 |
| 32 | 1 | 35 | 15 | 44 | 12 | 53 | 27 | 2 |
| 34 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 35 | 1 | 35 | 15 | 44 | 19 | 53 | 27 | 2 |
| 30 | 1 | 35 | 15 | 44 | 19 | 53 | 27 | 2 |
| 40 | 30. 1 | 30. 35 | 31. 10 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 2 |
| 42 | 1 | 35 | 10 | 44 | 12 | 53 | 27 | 2 |
| 44 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 45 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 48 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 50 | 30. 1 | 35. 35 | 31. 10 | 31. 44 | 32. 19 | 32. 53 | 33. 27 | 34. 2 |
| 52 | 1 | 35 | 10 | 44 | 15 | 53 | 27 | 2 |
| 54 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 56 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |
| 50 | 1 | 35 | 10 | 44 | 19 | 53 | 27 | 2 |

Partes propor. por los segund. de la paralaje. *Adit.*

| ″ | ″ |
|---|---|
| 1- | 1 |
| 2- | 1 |
| 3- | 2 |
| 4- | 2 |
| 5- | 3 |
| 6- | 3 |
| 7- | 4 |
| 8- | 5 |
| 9- | 5 |
| 10- | 5 |
| 11- | 5 |
| 12- | 7 |
| 13- | 7 |
| 14- | 8 |
| 15- | 9 |
| 16- | 9 |
| 17- | 10 |
| 18- | 10 |
| 12- | 11 |
| 20- | 11 |
| 21- | 12 |
| 22- | 13 |
| 23- | 13 |
| 24- | 14 |
| 25- | 14 |
| 25- | 15 |
| 27- | 15 |
| 28- | 16 |
| 29- | 17 |
| 30- | 17 |
| 31- | 18 |
| 32- | 18 |
| 33- | 19 |
| 34- | 20 |
| 35- | 20 |
| 36- | 21 |
| 37- | 21 |
| 38- | 22 |
| 39- | 22 |
| 40- | 23 |
| 41- | 24 |
| 42- | 24 |
| 43- | 25 |
| 44- | 25 |
| 45- | 20 |
| 46- | 25 |
| 47- | 27 |
| 48- | 28 |
| 49- | 28 |
| 50- | 29 |
| 51- | 29 |
| 52- | 30 |
| 53- | 30 |
| 54- | 31 |
| 55- | 32 |
| 56- | 32 |
| 57- | 33 |
| 58- | 33 |
| 50- | 34 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | ° 10 | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | ° 10 | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 (2) 0102 | 5688 | 6185 | 6681 | 7178 | 7674 | 0171 | 0660 | 0164 | 0061 | 0150 | 0650 | 1102 | 1650 | 2147 | 2644 | 3142 | 48 | 0' | 6 7643 |
| 8 | 1 | 0243 | 5739 | 6235 | 6732 | 7228 | 7725 | 8221 | 8718 | 9215 | 9712 | 0208 | 0705 | 1203 | 1700 | 2197 | 2695 | 3122 | 47 | 1 | 7597 |
| 17 | 2 | 5293 | 5790 | 6286 | 6782 | 7279 | 7775 | 8272 | 8768 | 9265 | 9762 | 0259 | 0750 | 1253 | 1750 | 2247 | 2745 | 3242 | 46 | 2 | 7551 |
| 25 | 3 | 5544 | 5840 | 6336 | 6033 | 7329 | 7826 | 8322 | 8819 | 9316 | 9812 | 0309 | 0806 | 1303 | 1800 | 2298 | 2795 | 3292 | 40 | 3 | 7506 |
| 33 | 4 | 5595 | 5891 | 6387 | 6884 | 7380 | 7876 | 8373 | 0869 | 9566 | 9063 | 0360 | 0857 | 1354 | 1851 | 2340 | 2845 | 3343 | 45 | 4 | 7460 |
| 41 | 5 | 1 (2) 5446 | 5942 | 6438 | 6934 | 7431 | 7927 | 8424 | 8920 | 9417 | 9914 | 0410 | 0907 | 1404 | 1901 | 2399 | 2096 | 3393 | 44 | 0 | 8 7414 |
| 50 | 0 | 5497 | 5993 | 6489 | 6985 | 7482 | 7978 | 8474 | 8971 | 9468 | 9964 | 0461 | 0958 | 1455 | 1052 | 2449 | 2947 | 5444 | 43 | 6 | 7568 |
| 58 | 7 | 5548 | 6044 | 6540 | 7036 | 7532 | 8029 | 8525 | 9022 | 9519 | 0015 | 0512 | 1000 | 1506 | 2003 | 2500 | 2997 | 3494 | 42 | 7 | 7322 |
| 66 | 6 | 6599 | 6095 | 6591 | 7087 | 7584 | 8080 | 8576 | 9073 | 9569 | 0066 | 0565 | 1060 | 1557 | 2054 | 2501 | 3048 | 3545 | 42 | 6 | 7275 |
| 74 | 9 | 5650 | 6146 | 6642 | 7138 | 7655 | 8131 | 8627 | 9124 | 9620 | 0117 | 0614 | 1111 | 1608 | 2105 | 2602 | 3099 | 3596 | 41 | 0 | 7229 |
| 83 | 10 | 1 (2) 5702 | 6197 | 6694 | 7190 | 7086 | 8182 | 8679 | 9175 | 9671 | 0168 | 0665 | 1162 | 1659 | 2156 | 2653 | 3150 | 3647 | 40 | 10 | 8 7183 |
| 91 | 11 | 5753 | 6249 | 6745 | 7241 | 7757 | 8233 | 8750 | 9226 | 9723 | 0219 | 0716 | 1213 | 1710 | 2207 | 2704 | 3201 | 3698 | 39 | 11 | 7136 |
| 99 | 12 | 5804 | 6300 | 6796 | 7292 | 7709 | 8285 | 8701 | 9277 | 9774 | 0271 | 0767 | 1264 | 1761 | 2258 | 2755 | 3252 | 3749 | 38 | 12 | 7090 |
| 108 | 13 | 5856 | 6352 | 6848 | 7344 | 7840 | 8336 | 8832 | 9329 | 9825 | 0522 | 0818 | 1315 | 1012 | 2509 | 2806 | 5303 | 3800 | 38 | 13 | 7043 |
| 116 | 14 | 0908 | 6403 | 6899 | 7595 | 7891 | 8388 | 8884 | 9380 | 9877 | 0373 | 0070 | 1367 | 1863 | 2360 | 2857 | 3304 | 3851 | 37 | 14 | 6296 |
| 121 | 15 | 1 (2) 5959 | 6455 | 6951 | 7447 | 7943 | 8439 | 8936 | 9452 | 9928 | 0425 | 0921 | 1418 | 1915 | 2412 | 2909 | 3405 | 5903 | 36 | 15 | 8 6950 |
| 132 | 16 | 6011 | 6507 | 7003 | 7499 | 7995 | 8491 | 8987 | 9483 | 9980 | 0476 | 0973 | 1470 | 1966 | 2463 | 2960 | 3457 | 3954 | 35 | 16 | 6903 |
| 111 | 17 | 6065 | 6559 | 7055 | 7551 | 8047 | 0543 | 0039 | 9535 | 0032 | 0528 | 1095 | 1521 | 2018 | 2515 | 3011 | 3508 | 4005 | 34 | 17 | 6856 |
| 119 | 18 | 6115 | 6611 | 7107 | 7602 | 8098 | 8595 | 9091 | 9587 | 0083 | 0580 | 1076 | 1573 | 2069 | 2506 | 3065 | 5560 | 4057 | 34 | 18 | 6809 |
| 157 | 19 | 6167 | 6663 | 7159 | 7654 | 0150 | 8646 | 9143 | 9639 | 0155 | 0652 | 1128 | 1625 | 2121 | 2618 | 3115 | 5612 | 4109 | 33 | 19 | 6762 |
| 165 | 20 | 1 (9) 6219 | 6715 | 7211 | 7706 | 0202 | 8698 | 9195 | 9691 | 0107 | 0683 | 1180 | 1676 | 2173 | 2670 | 3167 | 5665 | 4160 | 32 | 20 | 8 6714 |
| 174 | 21 | 6271 | 6767 | 7265 | 7759 | 8955 | 8751 | 9247 | 9745 | 0239 | 0735 | 1232 | 1728 | 2225 | 2792 | 3218 | 3715 | 4212 | 31 | 21 | 6667 |
| 102 | 22 | 6324 | 6819 | 7315 | 7811 | 0507 | 8005 | 9299 | 9795 | 0291 | 0788 | 1284 | 1780 | 2277 | 2774 | 3270 | 3767 | 4264 | 50 | 22 | 6620 |
| 190 | 23 | 6376 | 6879 | 7367 | 7863 | 8359 | 8855 | 9351 | 9847 | 0543 | 0840 | 1336 | 1839 | 2329 | 2826 | 5322 | 3819 | 4516 | 30 | 23 | 6572 |
| 198 | 24 | 6429 | 6924 | 7420 | 7916 | 8411 | 8907 | 9403 | 9899 | 0396 | 0892 | 1388 | 1885 | 2581 | 2878 | 3374 | 3871 | 4368 | 29 | 24 | 6525 |
| 207 | 25 | 1 (2) 6481 | 6977 | 7472 | 7960 | 8464 | 8960 | 9456 | 9952 | 0448 | 0944 | 1440 | 1937 | 2433 | 2930 | 3427 | 5923 | 4420 | 28 | 25 | 6 6477 |
| 215 | 26 | 6534 | 7029 | 7525 | 8021 | 8516 | 9012 | 9508 | 0004 | 0500 | 0997 | 1493 | 1989 | 2486 | 2982 | 3479 | 3976 | 4472 | 27 | 26 | 6429 |
| 223 | 27 | 6586 | 7082 | 7578 | 8073 | 8569 | 9065 | 9561 | 0057 | 0555 | 1049 | 1545 | 2042 | 2558 | 3035 | 3531 | 4028 | 4595 | 26 | 27 | 6381 |
| 232 | 28 | 6639 | 7135 | 7650 | 8126 | 8622 | 9117 | 9613 | 0109 | 0605 | 1102 | 1598 | 2094 | 2591 | 3087 | 3584 | 4080 | 4577 | 26 | 28 | 6334 |
| 240 | 29 | 6602 | 7188 | 7683 | 8179 | 8674 | 9170 | 9666 | 0162 | 0658 | 1154 | 1650 | 2147 | 2643 | 3140 | 3057 | 4133 | 4630 | 90 | 29 | 6286 |
| 210 | 30 | 1 (2) 6745 | 7241 | 7736 | 8232 | 8727 | 9223 | 9719 | 0215 | 0711 | 1207 | 1703 | 2199 | 2696 | 3192 | 3689 | 4185 | 4602 | 24 | 30 | 0 6238 |
| 256 | 31 | 6798 | 7294 | 7789 | 8283 | 0780 | 9276 | 9772 | 0268 | 0764 | 1260 | 1756 | 2252 | 9749 | 3945 | 3741 | 4238 | 4735 | 23 | 31 | 6189 |
| 265 | 52 | 6851 | 7347 | 7842 | 8338 | 8833 | 9329 | 9825 | 0591 | 0817 | 1313 | 1809 | 2505 | 2801 | 3290 | 3794 | 4291 | 4787 | 92 | 32 | 6141 |
| 273 | 33 | 6904 | 7400 | 7895 | 8391 | 8886 | 9382 | 9878 | 0374 | 0870 | 1366 | 1862 | 2358 | 2854 | 3351 | 3847 | 4344 | 4840 | 22 | 33 | 6093 |
| 281 | 34 | 6958 | 7453 | 7919 | 8444 | 8940 | 9435 | 9931 | 0427 | 0923 | 1419 | 1915 | 2411 | 2907 | 5404 | 3900 | 4396 | 4893 | 21 | 34 | 6045 |
| 289 | 35 | 1 (2) 7011 | 7506 | 8002 | 8497 | 8993 | 9489 | 9981 | 0480 | 0976 | 1472 | 1968 | 2464 | 2960 | 3457 | 3955 | 4442 | 4946 | 20 | 35 | 8 5996 |
| 298 | 36 | 7065 | 7560 | 8055 | 8551 | 9046 | 9542 | 0038 | 0533 | 1029 | 1525 | 2021 | 2517 | 3013 | 5510 | 4006 | 4502 | 4999 | 19 | 36 | 5947 |
| 306 | 57 | 7118 | 7613 | 8109 | 8604 | 9100 | 9595 | 0091 | 0507 | 1085 | 1578 | 2074 | 2571 | 3067 | 3063 | 4059 | 4556 | 5052 | 18 | 37 | 0899 |
| 314 | 58 | 7170 | 7667 | 8162 | 8658 | 9155 | 9649 | 0144 | 0640 | 1156 | 1632 | 2120 | 2624 | 3120 | 3616 | 4112 | 4609 | 5105 | 18 | 30 | 5850 |
| 322 | 39 | 7226 | 7721 | 0216 | 8711 | 9207 | 9702 | 0198 | 0694 | 1189 | 1685 | 2181 | 2677 | 3173 | 3670 | 4166 | 4662 | 0159 | 17 | 39 | 0801 |
| 351 | 40 | 1 (2) 7279 | 7774 | 8270 | 8765 | 9260 | 9756 | 0252 | 0747 | 1243 | 1739 | 9235 | 2731 | 5227 | 5723 | 4919 | 4710 | 5212 | 16 | 40 | 6 0752 |
| 339 | 41 | 7553 | 7828 | 8324 | 8819 | 9314 | 9810 | 0505 | 0001 | 1297 | 1792 | 2288 | 2784 | 3980 | 3776 | 4275 | 4769 | 5965 | 25 | 41 | 0703 |
| 347 | 42 | 7387 | 7882 | 0578 | 8873 | 2360 | 9864 | 0359 | 0055 | 1350 | 1846 | 2349 | 2838 | 3334 | 3830 | 4326 | 4823 | 5319 | 14 | 42 | 5654 |
| 356 | 43 | 7441 | 7936 | 8452 | 8927 | 2422 | 0918 | 0413 | 0909 | 1404 | 1900 | 2396 | 2892 | 3388 | 3884 | 4380 | 4876 | 5373 | 14 | 43 | 5605 |
| 364 | 44 | 7495 | 7990 | 0486 | 8981 | 9476 | 9972 | 0467 | 0963 | 1458 | 1954 | 2450 | 2946 | 3412 | 3938 | 4434 | 4930 | 5426 | 15 | 44 | 0556 |
| 372 | 45 | 1 (2) 7550 | 8045 | 8540 | 9035 | 9530 | 0026 | 0521 | 1017 | 1512 | 2000 | 2504 | 3000 | 3495 | 3991 | 4488 | 4984 | 5480 | 12 | 45 | 6 5507 |
| 380 | 46 | 7604 | 8099 | 0594 | 9089 | 9584 | 0080 | 0575 | 1071 | 1066 | 2062 | 2558 | 3054 | 3549 | 4045 | 4541 | 5038 | 5534 | 11 | 46 | 0457 |
| 389 | 47 | 7658 | 8153 | 8648 | 9143 | 9639 | 0134 | 0699 | 1125 | 1620 | 2116 | 2612 | 3108 | 3603 | 4099 | 4595 | 5092 | 5588 | 10 | 47 | 5408 |
| 397 | 48 | 7713 | 8208 | 0703 | 0198 | 9693 | 0180 | 0684 | 1179 | 1675 | 9170 | 9666 | 3169 | 3658 | 4154 | 4650 | 5146 | 5642 | 10 | 48 | 5358 |
| 405 | 49 | 7767 | 8969 | 8757 | 9252 | 9747 | 0243 | 0738 | 1933 | 1729 | 2295 | 2720 | 3216 | 3719 | 4208 | 4704 | 5200 | 5696 | 0 | 49 | 5309 |
| 413 | 50 | 1 (2) 7829 | 8317 | 8812 | 9307 | 9802 | 0297 | 0799 | 1288 | 1783 | 9979 | 2775 | 3970 | 3766 | 4962 | 4758 | 5254 | 5750 | 8 | 50 | 8 5959 |
| 492 | 51 | 7077 | 8371 | 8866 | 9361 | 9857 | 0352 | 0847 | 1342 | 1838 | 2333 | 2029 | 3320 | 3820 | 4316 | 4819 | 5308 | 5804 | 7 | 51 | 5209 |
| 430 | 02 | 7931 | 8426 | 8921 | 9416 | 9911 | 0406 | 0902 | 1397 | 1892 | 2388 | 2884 | 3379 | 3875 | 4371 | 4867 | 5363 | 5859 | 6 | 52 | 5159 |
| 438 | 53 | 7986 | 8481 | 8976 | 9471 | 9966 | 0461 | 0956 | 1452 | 1947 | 9443 | 9938 | 3434 | 3930 | 4425 | 4921 | 5417 | 5913 | 6 | 53 | 5109 |
| 446 | 54 | 8041 | 0536 | 9031 | 9526 | 0021 | 0516 | 1011 | 1506 | 9002 | 2497 | 2993 | 3488 | 3984 | 4480 | 4976 | 5479 | 5968 | 5 | 54 | 5059 |
| 405 | 55 | 1 (2) 0096 | 8591 | 9086 | 9581 | 0076 | 0571 | 1066 | 1561 | 2057 | 2552 | 3048 | 3543 | 4039 | 4535 | 5030 | 5526 | 6092 | 4 | 55 | 8 5009 |
| 463 | 56 | 8151 | 8646 | 9141 | 9636 | 0131 | 0626 | 1121 | 1616 | 2112 | 2607 | 3102 | 3598 | 4094 | 4589 | 5085 | 5581 | 6077 | 3 | 56 | 4959 |
| 471 | 57 | 8907 | 8701 | 9196 | 9691 | 0186 | 0001 | 1176 | 1671 | 2167 | 2662 | 3157 | 3653 | 4140 | 4644 | 5140 | 5636 | 6132 | 2 | 57 | 4909 |
| 480 | 58 | 8262 | 8707 | 9251 | 9746 | 0241 | 0736 | 1931 | 1796 | 2222 | 2717 | 3212 | 3708 | 4203 | 4699 | 5195 | 5691 | 6187 | 2 | 58 | 4858 |
| 488 | 59 | 8317 | 8812 | 9307 | 9009 | 0296 | 0791 | 1286 | 1782 | 9277 | 2772 | 3267 | 3763 | 4258 | 4734 | 5250 | 5746 | 6242 | 1 | 59 | 4808 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

| Partes para segundos del Arg. Auxiliar. | 10° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 2 3) 3639 | 4137 | 4635 | 5132 | 5630 | 6128 | 6626 | 7124 | 7623 | 8121 | 8619 | 9118 | 9616 | 0115 | 0613 | 1112 | 1611 |
| 8 | 1 | 3689 | 4187 | 4685 | 5182 | 5680 | 6178 | 6676 | 7174 | 7673 | 8171 | 8669 | 9168 | 9666 | 0165 | 0663 | 1162 | 1661 |
| 17 | 2 | 3740 | 4237 | 4735 | 5233 | 5730 | 6228 | 6790 | 7224 | 7723 | 8221 | 8719 | 9218 | 9716 | 0215 | 0713 | 1212 | 1711 |
| 25 | 3 | 3790 | 4287 | 4785 | 5283 | 5781 | 0278 | 6776 | 7275 | 7773 | 8271 | 8769 | 9268 | 9766 | 0965 | 0763 | 1262 | 1761 |
| 33 | 4 | 3840 | 4338 | 4835 | 5333 | 5831 | 6329 | 6827 | 7325 | 7823 | 8321 | 8819 | 9318 | 9816 | 0315 | 0813 | 1319 | 1811 |
| 41 | 5 | 2 (3) 3891 | 4388 | 4880 | 5383 | 5881 | 6379 | 6877 | 7375 | 7873 | 8371 | 8869 | 9368 | 9866 | 0365 | 0863 | 1362 | 1861 |
| 50 | 6 | 3941 | 4439 | 4936 | 5434 | 5932 | 6429 | 6997 | 7425 | 7923 | 8421 | 8920 | 9418 | 9916 | 0415 | 0913 | 1412 | 1911 |
| 58 | 7 | 3992 | 4489 | 4987 | 5484 | 5982 | 6480 | 6978 | 7476 | 7974 | 8472 | 8978 | 9468 | 9967 | 0465 | 0964 | 1462 | 1961 |
| 60 | 8 | 4043 | 4510 | 5037 | 5535 | 6033 | 6530 | 7028 | 7596 | 8024 | 8592 | 9028 | 9519 | 0017 | 0516 | 1014 | 1513 | 2011 |
| 75 | 9 | 4093 | 4591 | 5088 | 5586 | 6083 | 6581 | 7879 | 7577 | 8075 | 8573 | 9071 | 9569 | 0068 | 0566 | 1064 | 1563 | 2002 |
| 83 | 10 | 2 (3) 4144 | 4642 | 5139 | 5636 | 6134 | 6032 | 7138 | 7628 | 8125 | 8624 | 9122 | 9620 | 0118 | 0616 | 1115 | 1613 | 2112 |
| 21 | 11 | 4195 | 4693 | 5190 | 5687 | 6185 | 6683 | 7180 | 7678 | 8176 | 8674 | 9172 | 9678 | 0109 | 0667 | 1165 | 1664 | 2163 |
| 100 | 12 | 4246 | 4743 | 5241 | 5738 | 6236 | 6734 | 7231 | 7729 | 8227 | 8725 | 9223 | 9721 | 0219 | 0718 | 1216 | 1715 | 2213 |
| 108 | 13 | 4297 | 4794 | 5292 | 5789 | 6286 | 6785 | 7982 | 7780 | 8278 | 8776 | 9274 | 9772 | 0270 | 0769 | 1267 | 1765 | 2264 |
| 116 | 14 | 4348 | 4846 | 5343 | 5841 | 6337 | 6836 | 7333 | 7831 | 8329 | 8827 | 9325 | 9823 | 0321 | 0819 | 1318 | 1816 | 2315 |
| 124 | 15 | 2 (3) 4400 | 4897 | 5394 | 5892 | 6389 | 6887 | 7384 | 7882 | 8380 | 8878 | 9376 | 9874 | 0372 | 0870 | 1369 | 1867 | 2366 |
| 133 | 16 | 4451 | 4948 | 5446 | 5943 | 6440 | 6938 | 7436 | 7933 | 8431 | 8929 | 9427 | 9925 | 0423 | 0921 | 1420 | 1918 | 2416 |
| 141 | 17 | 4503 | 5088 | 5497 | 5994 | 6492 | 6989 | 7487 | 7985 | 8482 | 8980 | 9478 | 9976 | 0474 | 0972 | 1471 | 1969 | 2467 |
| 149 | 18 | 4554 | 5051 | 5549 | 6046 | 6543 | 7041 | 7538 | 8836 | 8534 | 9031 | 9529 | 8027 | 0525 | 1024 | 1522 | 2020 | 2519 |
| 158 | 19 | 4606 | 5103 | 5600 | 6097 | 6595 | 7099 | 7590 | 8087 | 8585 | 9083 | 9581 | 0079 | 0577 | 1075 | 1573 | 2071 | 2570 |
| 166 | 20 | 2 (3) 4657 | 5154 | 5652 | 6149 | 6646 | 7144 | 7641 | 8139 | 8637 | 9134 | 9632 | 0130 | 0628 | 1126 | 1694 | 2123 | 2621 |
| 174 | 21 | 4709 | 5206 | 5703 | 6201 | 6698 | 7195 | 7693 | 8190 | 8688 | 9186 | 9684 | 8182 | 0680 | 1178 | 1676 | 2174 | 2672 |
| 182 | 22 | 4761 | 5258 | 5755 | 6252 | 6750 | 7247 | 7745 | 8242 | 8740 | 9238 | 9735 | 0233 | 0731 | 1229 | 1727 | 2225 | 2724 |
| 191 | 23 | 4813 | 5318 | 5807 | 6304 | 6801 | 7299 | 7796 | 8294 | 8792 | 9289 | 9787 | 0285 | 0783 | 1281 | 1779 | 2277 | 2775 |
| 199 | 24 | 4865 | 5362 | 5859 | 6356 | 6853 | 7351 | 7848 | 8340 | 8843 | 9341 | 9839 | 8337 | 0834 | 1332 | 1831 | 2329 | 2827 |
| 907 | 25 | 2 (3) 4917 | 5414 | 5911 | 6408 | 6905 | 7403 | 7900 | 8398 | 8895 | 9393 | 9891 | 0388 | 0886 | 1384 | 1882 | 2380 | 2879 |
| 216 | 26 | 4909 | 5466 | 5963 | 6460 | 6958 | 7455 | 7952 | 8450 | 8947 | 9445 | 9942 | 8440 | 0938 | 1436 | 1934 | 2432 | 2930 |
| 224 | 27 | 5021 | 5518 | 6015 | 6513 | 7010 | 7507 | 8004 | 8502 | 8999 | 9497 | 9994 | 0492 | 0990 | 1488 | 1986 | 2484 | 2982 |
| 932 | 28 | 5074 | 5571 | 6068 | 6565 | 7062 | 7559 | 8856 | 8554 | 9051 | 9549 | 0047 | 0544 | 1042 | 1540 | 2038 | 2536 | 3034 |
| 240 | 29 | 5196 | 5623 | 6120 | 6617 | 7114 | 7611 | 8109 | 8600 | 9104 | 9601 | 0099 | 8596 | 1094 | 1592 | 2090 | 2588 | 3086 |
| 249 | 30 | 2 (3) 5179 | 5676 | 6173 | 6670 | 7167 | 7664 | 8161 | 8658 | 9156 | 9653 | 0151 | 0649 | 1146 | 1641 | 2142 | 2640 | 3138 |
| 257 | 31 | 5231 | 5728 | 6225 | 6722 | 7219 | 7716 | 8214 | 8711 | 9208 | 9786 | 0203 | 0701 | 1199 | 1696 | 2194 | 2692 | 3190 |
| 265 | 32 | 5284 | 5781 | 6278 | 6775 | 7272 | 7769 | 8266 | 8703 | 9261 | 9758 | 0256 | 0753 | 1251 | 1749 | 2247 | 2745 | 3243 |
| 274 | 33 | 5337 | 5834 | 6330 | 6827 | 7324 | 7821 | 8319 | 8816 | 9313 | 9811 | 0308 | 0806 | 1303 | 1801 | 2299 | 2797 | 3295 |
| 282 | 34 | 5390 | 5886 | 6383 | 6880 | 7377 | 7874 | 8371 | 8869 | 9306 | 9863 | 0361 | 0858 | 1356 | 1854 | 2351 | 2849 | 3347 |
| 290 | 35 | 2 (3) 5443 | 5939 | 6436 | 6933 | 7430 | 7927 | 8424 | 8921 | 9419 | 9916 | 0413 | 0911 | 1409 | 1906 | 2404 | 2902 | 3400 |
| 998 | 36 | 5496 | 5992 | 6489 | 6986 | 7483 | 7980 | 8477 | 8974 | 9471 | 9969 | 0466 | 0964 | 1461 | 1959 | 2457 | 2954 | 3452 |
| 307 | 37 | 5549 | 6045 | 6542 | 7039 | 7536 | 8033 | 8530 | 9027 | 9524 | 0022 | 0519 | 1016 | 1514 | 2012 | 2509 | 3007 | 3505 |
| 315 | 38 | 5602 | 6098 | 6595 | 7092 | 7589 | 8086 | 8583 | 9080 | 9577 | 0074 | 0572 | 1069 | 1567 | 2064 | 2562 | 3860 | 3558 |
| 323 | 39 | 5635 | 6152 | 6648 | 7145 | 7642 | 8139 | 8636 | 9133 | 9630 | 0128 | 0695 | 1122 | 1620 | 2117 | 2615 | 3113 | 3611 |
| 332 | 40 | 2 (3) 5708 | 6205 | 6702 | 7198 | 7695 | 8192 | 8689 | 9186 | 9683 | 0181 | 0678 | 1175 | 1673 | 2170 | 2668 | 3166 | 3664 |
| 340 | 41 | 5762 | 6958 | 6755 | 7252 | 7749 | 8245 | 8742 | 9239 | 9737 | 0234 | 0731 | 1228 | 1726 | 2223 | 2721 | 3219 | 3717 |
| 348 | 42 | 5815 | 6312 | 6808 | 7305 | 7802 | 8299 | 8796 | 9293 | 9790 | 0287 | 0784 | 1282 | 1779 | 2277 | 2774 | 3272 | 3770 |
| 356 | 43 | 5869 | 6365 | 6862 | 7359 | 7855 | 8352 | 8849 | 9346 | 9843 | 0340 | 0838 | 1335 | 1832 | 2330 | 2827 | 3325 | 3823 |
| 365 | 44 | 5923 | 6419 | 6916 | 7412 | 7909 | 8406 | 8903 | 9400 | 9897 | 0394 | 8891 | 1388 | 1886 | 2383 | 2881 | 3378 | 3876 |
| 373 | 45 | 2 (3) 5976 | 6473 | 6969 | 7466 | 7963 | 8459 | 8956 | 9453 | 9950 | 0447 | 0944 | 1442 | 1939 | 2436 | 2934 | 3432 | 3929 |
| 381 | 46 | 6030 | 6527 | 7023 | 7520 | 8016 | 8513 | 9010 | 9507 | 0004 | 0501 | 0998 | 1495 | 1993 | 2490 | 2987 | 3485 | 3983 |
| 390 | 47 | 6084 | 6581 | 7077 | 7574 | 8070 | 8567 | 9064 | 9568 | 0058 | 0555 | 1052 | 1549 | 2046 | 2544 | 3041 | 3539 | 4036 |
| 398 | 48 | 6138 | 6635 | 7131 | 7697 | 8124 | 8621 | 9117 | 9614 | 0111 | 0608 | 1105 | 1603 | 2100 | 2597 | 3095 | 3592 | 4090 |
| 406 | 49 | 6192 | 6689 | 7185 | 7681 | 8178 | 8675 | 9171 | 9668 | 0165 | 0662 | 1159 | 1655 | 2154 | 2651 | 3148 | 3616 | 4143 |
| 415 | 50 | 2 (3) 6946 | 6743 | 7239 | 7736 | 8232 | 8729 | 9225 | 9722 | 0219 | 0716 | 1213 | 1710 | 2207 | 2705 | 3202 | 3700 | 4197 |
| 423 | 51 | 6301 | 6797 | 7993 | 7790 | 8286 | 8783 | 9279 | 9776 | 0273 | 8770 | 1267 | 1764 | 2261 | 2759 | 3256 | 3753 | 4251 |
| 431 | 52 | 6355 | 6851 | 7347 | 7844 | 8348 | 8837 | 9334 | 9830 | 0327 | 0894 | 1391 | 1818 | 2315 | 2813 | 3310 | 3807 | 4305 |
| 439 | 53 | 6409 | 6906 | 7409 | 7898 | 8395 | 8891 | 9388 | 9885 | 0381 | 0878 | 1375 | 1872 | 2369 | 2867 | 3364 | 3861 | 4359 |
| 448 | 54 | 6464 | 6960 | 7456 | 7953 | 8449 | 8946 | 9449 | 9939 | 0436 | 0932 | 1429 | 1927 | 2424 | 2921 | 3418 | 3915 | 4413 |
| 456 | 55 | 2 (3) 6518 | 7015 | 7511 | 8807 | 8504 | 9000 | 9497 | 9993 | 0498 | 0987 | 1484 | 1981 | 2478 | 2975 | 3472 | 3969 | 4467 |
| 464 | 56 | 6573 | 7069 | 7565 | 8062 | 8558 | 9055 | 9551 | 0048 | 0544 | 1041 | 1538 | 2035 | 2539 | 3099 | 3526 | 4024 | 4521 |
| 473 | 57 | 6698 | 7124 | 7690 | 8116 | 8613 | 9109 | 9606 | 0102 | 0599 | 1096 | 1593 | 2090 | 2586 | 3084 | 3581 | 4078 | 4575 |
| 481 | 58 | 6683 | 7179 | 7675 | 8171 | 8667 | 9164 | 9660 | 0157 | 0654 | 1150 | 1647 | 2144 | 2641 | 3138 | 3635 | 4139 | 4630 |
| 489 | 59 | 6738 | 7234 | 7730 | 8926 | 8792 | 9219 | 9715 | 0212 | 8708 | 1905 | 1702 | 2199 | 2696 | 3193 | 3690 | 4187 | 4684 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 10° | Núm. |
|---|---|---|
| 0 | 0′ | 1 5192 |
| 1 | 1 | 5243 |
| 2 | 2 | 5293 |
| 3 | 3 | 5344 |
| 3 | 4 | 5395 |
| 4 | 5 | 1 5446 |
| 5 | 6 | 5497 |
| 6 | 7 | 5548 |
| 7 | 8 | 5599 |
| 8 | 9 | 5658 |
| 9 | 10 | 1 5702 |
| 10 | 11 | 5753 |
| 11 | 12 | 5804 |
| 11 | 13 | 5856 |
| 12 | 14 | 5908 |
| 13 | 15 | 1 5959 |
| 14 | 16 | 6011 |
| 15 | 17 | 6063 |
| 16 | 18 | 6115 |
| 17 | 19 | 6167 |
| 18 | 20 | 1 6219 |
| 19 | 21 | 6271 |
| 19 | 22 | 6394 |
| 20 | 23 | 6376 |
| 91 | 24 | 6429 |
| 22 | 25 | 1 6481 |
| 23 | 26 | 6534 |
| 24 | 27 | 6586 |
| 25 | 28 | 6639 |
| 26 | 29 | 6692 |
| 26 | 30 | 1 0745 |
| 27 | 31 | 6798 |
| 28 | 32 | 6851 |
| 29 | 33 | 6904 |
| 30 | 34 | 6958 |
| 31 | 35 | 1 7011 |
| 32 | 36 | 7065 |
| 33 | 37 | 7118 |
| 34 | 38 | 7172 |
| 34 | 39 | 7226 |
| 35 | 40 | 1 7279 |
| 36 | 41 | 7333 |
| 37 | 49 | 7387 |
| 38 | 43 | 7441 |
| 39 | 44 | 7495 |
| 40 | 45 | 1 7550 |
| 41 | 46 | 7604 |
| 41 | 47 | 7658 |
| 42 | 48 | 7713 |
| 43 | 49 | 7767 |
| 44 | 50 | 1 7822 |
| 45 | 51 | 7877 |
| 46 | 52 | 7931 |
| 47 | 53 | 7986 |
| 48 | 54 | 8041 |
| 49 | 55 | 1 8096 |
| 49 | 56 | 8151 |
| 50 | 57 | 8207 |
| 51 | 58 | 8269 |
| 52 | 59 | 8317 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 11° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 11° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 (2) 0373 | 8867 | 9362 | 9857 | 8359 | 0847 | 1342 | 1837 | 2339 | 2897 | 3323 | 3810 | 4314 | 4809 | 5385 | 6001 | 6297 | 63 | 0' | 0 4757 |
| 8 | 1 | 8498 | 8993 | 9418 | 9919 | 0407 | 0902 | 1397 | 1892 | 2387 | 9882 | 3378 | 3873 | 4369 | 4864 | 6360 | 5856 | 6352 | 62 | 1 | 4707 |
| 17 | 2 | 8484 | 8979 | 9473 | 9568 | 8463 | 0958 | 1453 | 1948 | 2443 | 2938 | 3433 | 3929 | 4424 | 4990 | 5415 | 5911 | 6487 | 51 | 2 | 4656 |
| 25 | 3 | 0540 | 9034 | 9529 | 8994 | 0518 | 1813 | 1508 | 2003 | 2498 | 2993 | 3489 | 3984 | 4479 | 4975 | 5471 | 5966 | 6462 | 50 | 3 | 4605 |
| 33 | 4 | 8595 | 9090 | 9585 | 8879 | 8574 | 1089 | 1564 | 9059 | 2554 | 3049 | 3544 | 4840 | 4535 | 5030 | 5526 | 6022 | 6517 | 50 | 4 | 4554 |
| 41 | 5 | 1 (9) 8651 | 9146 | 9640 | 8135 | 0630 | 1125 | 1619 | 9114 | 9609 | 3105 | 3688 | 4095 | 4591 | 5086 | 5582 | 6077 | 6573 | 49 | 5 | 0 4503 |
| 49 | 6 | 8707 | 9202 | 9696 | 0191 | 0686 | 1180 | 1675 | 9170 | 2665 | 3160 | 3656 | 4151 | 4646 | 5142 | 5637 | 6133 | 6628 | 48 | 6 | 4452 |
| 58 | 7 | 8763 | 9258 | 9759 | 8217 | 0741 | 1936 | 1731 | 2296 | 9721 | 3216 | 3711 | 4207 | 4782 | 5197 | 6693 | 6188 | 6684 | 47 | 7 | 4401 |
| 66 | 8 | 8819 | 9314 | 9008 | 8303 | 0798 | 1992 | 1787 | 9282 | 2777 | 3979 | 3767 | 4262 | 4758 | 5253 | 5749 | 6244 | 6748 | 46 | 8 | 4350 |
| 74 | 9 | 8876 | 9370 | 9864 | 0369 | 0854 | 1348 | 1843 | 2338 | 2833 | 3328 | 3823 | 4318 | 4814 | 5389 | 5004 | 6380 | 6795 | 45 | 9 | 4298 |
| 82 | 10 | 1 (9 8939 | 9496 | 9921 | 0413 | 0910 | 1404 | 1899 | 2394 | 2889 | 3384 | 3879 | 4374 | 4878 | 5365 | 5860 | 6356 | 6851 | 44 | 18 | 0 4247 |
| 91 | 11 | 8988 | 9483 | 9977 | 0472 | 8966 | 1461 | 1955 | 2450 | 2945 | 3448 | 3935 | 4430 | 4926 | 5421 | 5916 | 6412 | 6907 | 43 | 11 | 4196 |
| 99 | 12 | 9845 | 9539 | 0033 | 0528 | 1022 | 1517 | 2012 | 2607 | 3001 | 3496 | 3991 | 4486 | 4982 | 5477 | 5979 | 6468 | 6963 | 42 | 12 | 4144 |
| 107 | 13 | 9181 | 9596 | 0090 | 0584 | 1079 | 1573 | 2868 | 2583 | 3068 | 3553 | 4048 | 4543 | 5038 | 5533 | 6028 | 6524 | 7019 | 41 | 13 | 4092 |
| 115 | 14 | 9158 | 9652 | 8146 | 0641 | 1135 | 1630 | 9125 | 2619 | 3114 | 3609 | 4184 | 4599 | 5094 | 5589 | 6885 | 6580 | 7075 | 41 | 14 | 4041 |
| 124 | 15 | 1 (9) 9215 | 9709 | 0203 | 0697 | 1199 | 1686 | 2181 | 9676 | 3171 | 3665 | 4160 | 4655 | 5150 | 5646 | 6141 | 6636 | 7132 | 40 | 15 | 8 3989 |
| 132 | 16 | 9979 | 9766 | 0260 | 0754 | 1249 | 1743 | 9938 | 2732 | 3927 | 3792 | 4217 | 4712 | 6987 | 5789 | 6197 | 6693 | 7188 | 39 | 16 | 3937 |
| 140 | 17 | 9328 | 9829 | 0317 | 0811 | 1305 | 1800 | 2994 | 2789 | 3284 | 3779 | 4273 | 4768 | 5263 | 5769 | 6954 | 6749 | 7244 | 38 | 17 | 3885 |
| 148 | 18 | 9385 | 9879 | 0374 | 0868 | 1362 | 1857 | 2351 | 2846 | 3340 | 3835 | 4330 | 4825 | 5390 | 5815 | 6310 | 6806 | 7301 | 37 | 10 | 3833 |
| 156 | 19 | 9442 | 9936 | 0431 | 0995 | 1419 | 1914 | 2408 | 2933 | 3397 | 3899 | 4387 | 4882 | 5377 | 5872 | 6367 | 6862 | 7358 | 36 | 19 | 3781 |
| 165 | 20 | 1 (2) 9500 | 9993 | 0488 | 0982 | 1476 | 1971 | 2465 | 9960 | 3454 | 3949 | 4444 | 4939 | 5434 | 5929 | 6424 | 6919 | 7414 | 36 | 20 | 8 3799 |
| 173 | 91 | 9557 | 0051 | 0545 | 1039 | 1633 | 2028 | 9522 | 3017 | 3511 | 4006 | 4501 | 4995 | 5498 | 5985 | 6408 | 6976 | 7471 | 34 | 21 | 3676 |
| 181 | 29 | 9614 | 0108 | 0609 | 1996 | 1590 | 2085 | 2579 | 3074 | 3568 | 4063 | 4659 | 6852 | 6547 | 6042 | 6537 | 7033 | 7628 | 34 | 92 | 3624 |
| 190 | 23 | 9671 | 0165 | 0659 | 1153 | 1648 | 2142 | 2636 | 3131 | 3695 | 4120 | 4615 | 5109 | 5684 | 6099 | 6594 | 7890 | 7585 | 33 | 23 | 3571 |
| 198 | 24 | 9799 | 0293 | 0717 | 1211 | 1705 | 2199 | 2694 | 3188 | 3683 | 4177 | 4672 | 5167 | 5661 | 6156 | 6651 | 7147 | 7642 | 39 | 24 | 3519 |
| 906 | 95 | 1 (9) 9786 | 8280 | 0774 | 1268 | 1762 | 2957 | 2751 | 3215 | 3740 | 4234 | 4729 | 5224 | 5719 | 6914 | 6700 | 7204 | 7699 | 31 | 25 | 0 3466 |
| 214 | 26 | 9844 | 0338 | 0839 | 1328 | 1820 | 2311 | 2808 | 3303 | 3797 | 4292 | 4786 | 5281 | 5776 | 6271 | 6766 | 7261 | 7756 | 30 | 26 | 3414 |
| 224 | 27 | 9909 | 0395 | 0889 | 1383 | 1878 | 2372 | 2866 | 3360 | 3855 | 4349 | 4844 | 5339 | 5833 | 6398 | 6823 | 7318 | 7013 | 29 | 27 | 3381 |
| 231 | 28 | 9959 | 0463 | 9947 | 1441 | 1935 | 9129 | 2994 | 3418 | 3912 | 4407 | 1981 | 5396 | 5891 | 6386 | 6880 | 7375 | 7070 | 98 | 28 | 3308 |
| 939 | 29 | 2 0017 | 0511 | 1005 | 1499 | 1993 | 9487 | 2981 | 3475 | 3970 | 4464 | 1969 | 5453 | 5948 | 6443 | 6938 | 7433 | 7928 | 27 | 29 | 3955 |
| 247 | 38 | 9 0076 | 0569 | 1063 | 1557 | 9051 | 2545 | 3039 | 3533 | 4028 | 4529 | 5817 | 5511 | 6086 | 6501 | 6995 | 7490 | 7985 | 96 | 38 | 8 3282 |
| 256 | 31 | 0133 | 0697 | 1191 | 1615 | 9109 | 9603 | 3897 | 3591 | 4085 | 4580 | 5074 | 6569 | 6063 | 6658 | 7053 | 7540 | 8043 | 26 | 31 | 3149 |
| 264 | 32 | 0191 | 0685 | 1179 | 1673 | 2167 | 2661 | 3155 | 3649 | 4143 | 4638 | 5132 | 5627 | 6121 | 6616 | 7111 | 7686 | 8101 | 95 | 32 | 3095 |
| 272 | 33 | 0250 | 0743 | 1937 | 1731 | 2225 | 9719 | 3213 | 3707 | 4201 | 4696 | 5190 | 5685 | 6179 | 6674 | 7169 | 7663 | 8158 | 94 | 33 | 3842 |
| 280 | 34 | 0390 | 0802 | 1295 | 1709 | 2283 | 2777 | 3971 | 3765 | 4259 | 4754 | 5948 | 5743 | 6237 | 6732 | 7296 | 7721 | 0216 | 23 | 34 | 9989 |
| 988 | 35 | 2 8366 | 0860 | 1354 | 1847 | 9341 | 2835 | 3329 | 3823 | 4317 | 4812 | 5306 | 5801 | 6295 | 6790 | 7984 | 7779 | 8274 | 29 | 35 | 0 9935 |
| 297 | 36 | 0426 | 0910 | 1412 | 1906 | 9399 | 9893 | 3387 | 3881 | 4376 | 4870 | 5364 | 5859 | 6353 | 6040 | 7349 | 7037 | 0332 | 21 | 36 | 9882 |
| 305 | 37 | 0483 | 0977 | 1470 | 1964 | 2458 | 9969 | 3446 | 3940 | 4434 | 1928 | 5423 | 5917 | 6411 | 6906 | 7401 | 7895 | 8390 | 20 | 37 | 2898 |
| 313 | 30 | 0542 | 1035 | 1599 | 2093 | 2516 | 3010 | 3504 | 3998 | 4492 | 4987 | 5481 | 5975 | 6470 | 6964 | 7459 | 7963 | 8448 | 19 | 30 | 9774 |
| 391 | 39 | 0601 | 1094 | 1580 | 9081 | 2576 | 3069 | 3563 | 4057 | 4551 | 5046 | 5539 | 6034 | 6528 | 7022 | 7517 | 0012 | 0506 | 19 | 39 | 2721 |
| 330 | 40 | 2 0659 | 1153 | 1646 | 2140 | 2634 | 3197 | 3621 | 4115 | 4609 | 5103 | 5598 | 6092 | 6587 | 7881 | 7576 | 8070 | 8565 | 10 | 40 | 8 9667 |
| 338 | 41 | 0718 | 1912 | 1705 | 2199 | 2699 | 3186 | 3680 | 4174 | 4668 | 5169 | 5656 | 6151 | 6645 | 7139 | 7634 | 8120 | 8623 | 17 | 41 | 2613 |
| 346 | 42 | 0777 | 1971 | 1764 | 2258 | 2751 | 3945 | 3739 | 4933 | 4727 | 5921 | 5716 | 8209 | 6704 | 7198 | 7699 | 8187 | 8682 | 16 | 42 | 2559 |
| 365 | 43 | 0836 | 1330 | 1893 | 2317 | 9810 | 3304 | 3798 | 4999 | 4785 | 5280 | 5774 | 6268 | 6762 | 7957 | 7751 | 8946 | 0740 | 15 | 43 | 2505 |
| 363 | 44 | 0895 | 1389 | 1882 | 2376 | 2869 | 3363 | 3857 | 4350 | 4844 | 5338 | 5833 | 6327 | 6821 | 7315 | 7010 | 8304 | 0799 | 14 | 44 | 2450 |
| 371 | 45 | 2 0955 | 1448 | 1941 | 9435 | 9998 | 3422 | 3916 | 4409 | 4903 | 5397 | 5891 | 6386 | 6880 | 7374 | 7868 | 8363 | 8857 | 13 | 45 | 0 9396 |
| 379 | 46 | 1014 | 1507 | 9900 | 2494 | 2987 | 3481 | 3976 | 4469 | 4969 | 5456 | 5959 | 6445 | 6939 | 7433 | 7927 | 8492 | 0916 | 12 | 46 | 9342 |
| 387 | 47 | 1073 | 1566 | 2960 | 2553 | 3047 | 3540 | 4034 | 4590 | 6022 | 5516 | 6009 | 6504 | 6998 | 7492 | 7986 | 8481 | 0975 | 11 | 47 | 2987 |
| 396 | 48 | 1133 | 1696 | 9119 | 9612 | 3106 | 3600 | 4093 | 4687 | 6081 | 5575 | 6069 | 6563 | 7057 | 7551 | 8045 | 8640 | 9034 | 11 | 48 | 9233 |
| 404 | 49 | 1192 | 1685 | 2179 | 9672 | 3165 | 3659 | 4153 | 4646 | 5140 | 5634 | 6198 | 6629 | 7116 | 7610 | 0104 | 8599 | 9093 | 10 | 49 | 9170 |
| 412 | 50 | 2 1952 | 1745 | 9938 | 2731 | 3995 | 3710 | 4912 | 4706 | 5199 | 5693 | 6107 | 6601 | 7175 | 7669 | 8164 | 8658 | 9152 | 9 | 50 | 0 9123 |
| 420 | 61 | 1311 | 1004 | 9998 | 2791 | 3984 | 3778 | 4271 | 4765 | 5259 | 5763 | 6247 | 6740 | 7935 | 7799 | 8923 | 8717 | 9911 | 0 | 61 | 9069 |
| 499 | 59 | 1371 | 1864 | 2357 | 2061 | 3344 | 3838 | 4331 | 4896 | 5318 | 5812 | 6306 | 6000 | 7294 | 7780 | 8982 | 0776 | 9971 | 7 | 59 | 2014 |
| 437 | 53 | 1431 | 1994 | 2417 | 9910 | 3404 | 3897 | 4391 | 4884 | 5378 | 5872 | 6366 | 6859 | 7353 | 7047 | 8349 | 0036 | 9330 | 6 | 53 | 1959 |
| 446 | 54 | 1491 | 1984 | 2477 | 2970 | 3464 | 3957 | 4450 | 4944 | 5438 | 5931 | 6495 | 6919 | 7413 | 7907 | 8401 | 8895 | 9390 | 6 | 54 | 1984 |
| 453 | 55 | 9 1551 | 9944 | 9537 | 3030 | 3594 | 4017 | 4510 | 5004 | 5497 | 5991 | 6485 | 6979 | 7473 | 7967 | 0461 | 0955 | 9449 | 4 | 56 | 0 1849 |
| 462 | 66 | 1611 | 2104 | 9597 | 3090 | 3584 | 4077 | 4570 | 5064 | 5567 | 6051 | 6545 | 7038 | 7632 | 8096 | 8590 | 9015 | 9599 | 3 | 56 | 1793 |
| 470 | 57 | 1671 | 9164 | 2657 | 3160 | 3644 | 4137 | 4630 | 5194 | 5618 | 6111 | 6606 | 7098 | 7592 | 0086 | 0580 | 9074 | 9569 | 3 | 67 | 1738 |
| 478 | 58 | 1739 | 9995 | 9717 | 3911 | 3704 | 4197 | 4690 | 6104 | 5677 | 6171 | 6666 | 7158 | 7659 | 0146 | 8640 | 9134 | 9628 | 9 | 68 | 1683 |
| 407 | 69 | 1799 | 9985 | 2778 | 3971 | 3764 | 4957 | 4751 | 5244 | 5737 | 6931 | 6725 | 7218 | 7712 | 8206 | 8700 | 9194 | 9688 | 1 | 59 | 1627 |

| TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 11° | Argumento Auxiliar. 17' | 10' | 19' | 20' | 21' | 22' | 93' | 94' | 95' | 96' | 27' | 28' | 29' | 30' | 31' | 39' | 33' | Partes para segundos. | 11° | Núm. |
| 0 | 0' | 2 (3) 6793 | 7209 | 7785 | 8901 | 8777 | 9274 | 9770 | 0966 | 0763 | 1960 | 1756 | 2253 | 9750 | 3247 | 3744 | 4211 | 4739 | 0 | 0' | 1 8373 |
| 0 | 1 | 6848 | 7344 | 7840 | 8336 | 8832 | 9328 | 9825 | 0321 | 0818 | 1315 | 1811 | 2308 | 2805 | 3302 | 3799 | 4996 | 4793 | 1 | 1 | 0428 |
| 17 | 2 | 0903 | 7399 | 7895 | 8391 | 8887 | 9383 | 9880 | 0376 | 0873 | 1369 | 1866 | 2363 | 2860 | 3357 | 3854 | 4351 | 4848 | 9 | 2 | 8484 |
| 25 | 3 | 6958 | 7454 | 7950 | 8446 | 8949 | 9439 | 9935 | 0431 | 0998 | 1424 | 1921 | 2410 | 2915 | 3419 | 3909 | 4406 | 4903 | 3 | 3 | 8540 |
| 33 | 4 | 7013 | 7509 | 8005 | 8501 | 8997 | 9494 | 9990 | 0486 | 0983 | 1479 | 1976 | 2473 | 2970 | 3467 | 3964 | 4461 | 4958 | 4 | 4 | 8595 |
| 41 | 3 | 9 (3) 7069 | 7565 | 8061 | 8557 | 9053 | 9549 | 0045 | 0542 | 1038 | 1535 | 2031 | 2598 | 3025 | 3522 | 4019 | 4516 | 5013 | 5 | 5 | 1 0651 |
| 50 | 6 | 7194 | 7620 | 8116 | 8619 | 9108 | 9604 | 0101 | 0597 | 1093 | 1590 | 9086 | 2683 | 3080 | 3577 | 4074 | 4571 | 5068 | 6 | 6 | 8707 |
| 58 | 7 | 7180 | 7676 | 8171 | 8667 | 9164 | 9660 | 0156 | 0652 | 1149 | 1645 | 2142 | 2638 | 3135 | 3632 | 4129 | 4026 | 5123 | 7 | 7 | 8763 |
| 66 | 8 | 7935 | 7731 | 8297 | 8723 | 9219 | 9715 | 0211 | 0708 | 1904 | 1701 | 2197 | 2694 | 3190 | 3607 | 4184 | 4601 | 5178 | 8 | 8 | 8819 |
| 74 | 9 | 7291 | 7787 | 8283 | 8779 | 9275 | 9771 | 0267 | 0763 | 1260 | 1756 | 2253 | 9749 | 3246 | 3742 | 4239 | 4736 | 5933 | 9 | 9 | 8876 |
| 83 | 10 | 9 (3) 7347 | 7843 | 8338 | 8834 | 9330 | 9826 | 0323 | 0819 | 1315 | 1812 | 2308 | 2805 | 3301 | 3798 | 4995 | 4792 | 5289 | 10 | 10 | 1 8932 |
| 91 | 11 | 7403 | 7899 | 8394 | 8890 | 9386 | 9882 | 0370 | 0076 | 1371 | 1867 | 2364 | 9860 | 3357 | 3854 | 4350 | 4847 | 5344 | 11 | 11 | 8988 |
| 99 | 19 | 7459 | 7954 | 8450 | 8946 | 9442 | 9938 | 0434 | 0230 | 1427 | 1923 | 9419 | 9916 | 3412 | 3909 | 4406 | 4903 | 5400 | 12 | 12 | 9045 |
| 108 | 13 | 7515 | 8010 | 8506 | 9009 | 9498 | 9994 | 0490 | 0986 | 1489 | 1979 | 2175 | 2972 | 3468 | 3965 | 4469 | 4958 | 5455 | 13 | 13 | 9101 |
| 116 | 14 | 7571 | 8067 | 8562 | 9058 | 9554 | 0050 | 0540 | 1049 | 1538 | 2035 | 9531 | 3027 | 3524 | 4091 | 4517 | 5014 | 5511 | 13 | 14 | 9158 |
| 124 | 15 | 2 (3) 7697 | 8123 | 8619 | 9114 | 9610 | 0106 | 0602 | 1098 | 1594 | 2091 | 2587 | 3083 | 3580 | 4076 | 4573 | 5070 | 5567 | 14 | 15 | 1 9915 |
| 132 | 16 | 7683 | 8179 | 8675 | 9171 | 9666 | 0162 | 0658 | 1154 | 1650 | 2147 | 2643 | 3139 | 3636 | 4132 | 4699 | 5126 | 5622 | 15 | 16 | 9279 |
| 141 | 17 | 7740 | 8235 | 8731 | 9227 | 9723 | 0218 | 0714 | 1911 | 1706 | 2903 | 2699 | 3195 | 3692 | 4188 | 4685 | 5182 | 5678 | 16 | 17 | 9328 |
| 149 | 10 | 7796 | 8992 | 8787 | 9283 | 9779 | 0275 | 0771 | 1267 | 1763 | 9259 | 2755 | 3252 | 3748 | 4944 | 4741 | 5938 | 5734 | 17 | 18 | 9385 |
| 157 | 19 | 7853 | 8348 | 0844 | 9340 | 9035 | 0331 | 0827 | 1393 | 1819 | 2315 | 2811 | 3308 | 3804 | 4301 | 4797 | 5294 | 5790 | 18 | 19 | 9442 |
| 165 | 20 | 2 (3) 7910 | 8405 | 8901 | 9396 | 9892 | 0388 | 0883 | 1380 | 1875 | 9379 | 2868 | 3364 | 3860 | 4357 | 4853 | 5350 | 5847 | 19 | 20 | 1 9500 |
| 174 | 21 | 7966 | 8462 | 8957 | 9453 | 9948 | 0444 | 0940 | 1436 | 1939 | 2428 | 2924 | 3420 | 3917 | 4413 | 4910 | 5406 | 5903 | 20 | 21 | 9557 |
| 189 | 22 | 8093 | 8518 | 9014 | 9509 | 0005 | 0501 | 0997 | 1493 | 1989 | 2485 | 2981 | 3477 | 3973 | 4470 | 4966 | 5463 | 5959 | 91 | 22 | 9614 |
| 190 | 93 | 0080 | 8575 | 9071 | 9566 | 0062 | 0558 | 1053 | 1549 | 2045 | 2541 | 3037 | 3533 | 4030 | 4526 | 5093 | 5519 | 6016 | 92 | 23 | 9671 |
| 198 | 94 | 8137 | 8639 | 9128 | 9623 | 0119 | 0614 | 1110 | 1606 | 9109 | 2598 | 3094 | 3590 | 4086 | 4583 | 5079 | 5576 | 6072 | 23 | 94 | 9799 |
| 207 | 95 | 9 (3) 8194 | 8689 | 9185 | 9680 | 0176 | 0671 | 1167 | 1663 | 2159 | 2655 | 3151 | 3647 | 4143 | 4639 | 5136 | 5632 | 6129 | 24 | 25 | 1 9786 |
| 915 | 26 | 0951 | 8746 | 9942 | 9737 | 0233 | 0728 | 1924 | 1790 | 2216 | 9712 | 3208 | 3704 | 4900 | 4696 | 5192 | 5689 | 6185 | 25 | 96 | 9044 |
| 923 | 27 | 8308 | 8804 | 9299 | 9794 | 0290 | 0785 | 1281 | 1777 | 2273 | 2769 | 3265 | 3761 | 4257 | 4753 | 5249 | 5746 | 6242 | 96 | 27 | 9909 |
| 939 | 28 | 8366 | 8861 | 9356 | 9852 | 0347 | 0843 | 1338 | 1834 | 2330 | 9826 | 3399 | 3818 | 4314 | 4810 | 5306 | 5803 | 6299 | 27 | 28 | 9959 |
| 240 | 29 | 8423 | 8918 | 9413 | 9909 | 0404 | 0900 | 1395 | 1891 | 2387 | 9883 | 3379 | 3875 | 4371 | 4867 | 5363 | 5859 | 6356 | 28 | 99 | 9 0017 |
| 940 | 30 | 9 (3) 8480 | 8976 | 9471 | 9966 | 0462 | 0957 | 1453 | 1948 | 2444 | 9940 | 3436 | 3939 | 4498 | 4924 | 5420 | 5917 | 6413 | 29 | 30 | 9 0075 |
| 256 | 31 | 8538 | 9033 | 9528 | 0094 | 0519 | 1014 | 1510 | 9006 | 2501 | 2997 | 3493 | 3909 | 4405 | 4981 | 5477 | 5974 | 6470 | 30 | 31 | 0133 |
| 965 | 32 | 8596 | 9091 | 9586 | 0081 | 0576 | 1079 | 1567 | 2063 | 2559 | 3055 | 3550 | 4046 | 4549 | 5038 | 5535 | 6031 | 6527 | 31 | 39 | 0191 |
| 973 | 33 | 8653 | 9148 | 9643 | 0139 | 0634 | 1129 | 1625 | 2121 | 2616 | 3112 | 3608 | 4104 | 4600 | 5096 | 5592 | 6088 | 6584 | 32 | 33 | 0250 |
| 281 | 34 | 8711 | 9206 | 9701 | 0196 | 0692 | 1187 | 1683 | 9178 | 2674 | 3169 | 3665 | 4161 | 4657 | 5153 | 5649 | 6145 | 6642 | 33 | 34 | 0308 |
| 289 | 35 | 9 (3) 8769 | 9261 | 9759 | 0954 | 0749 | 1215 | 1740 | 9236 | 2731 | 3227 | 3723 | 4219 | 4715 | 5211 | 5707 | 6203 | 6699 | 34 | 35 | 2 0366 |
| 290 | 36 | 8827 | 9322 | 9817 | 0312 | 0807 | 1303 | 1798 | 9993 | 2789 | 3285 | 3780 | 4976 | 4772 | 5268 | 5764 | 6260 | 6736 | 35 | 36 | 0425 |
| 306 | 37 | 8885 | 9380 | 9875 | 0370 | 0865 | 1361 | 1855 | 2351 | 2847 | 3349 | 3838 | 4334 | 4830 | 5396 | 3892 | 6318 | 6814 | 36 | 37 | 0483 |
| 314 | 38 | 0943 | 9438 | 9933 | 0428 | 0923 | 1418 | 1914 | 9409 | 9905 | 3400 | 3896 | 4399 | 4888 | 5383 | 5879 | 6376 | 6872 | 37 | 38 | 0549 |
| 322 | 32 | 9001 | 9496 | 9991 | 0486 | 0981 | 1477 | 1972 | 9467 | 9963 | 3458 | 3954 | 4450 | 4945 | 5441 | 5937 | 6433 | 6999 | 38 | 39 | 0601 |
| 331 | 40 | 2 (3) 9060 | 9554 | 0049 | 0544 | 1039 | 1535 | 2030 | 2525 | 3021 | 3516 | 4019 | 4507 | 5003 | 5499 | 5995 | 6491 | 6907 | 39 | 40 | 9 0659 |
| 339 | 41 | 9118 | 9613 | 0108 | 0603 | 1098 | 1593 | 9088 | 2583 | 3079 | 3574 | 4070 | 4566 | 5061 | 5557 | 6053 | 6549 | 7045 | 40 | 41 | 0718 |
| 347 | 42 | 9176 | 9671 | 0166 | 0661 | 1156 | 1651 | 2146 | 2642 | 3137 | 3632 | 4198 | 4694 | 6119 | 5615 | 6111 | 6607 | 7103 | 41 | 49 | 0777 |
| 356 | 43 | 9935 | 9730 | 0224 | 0719 | 1214 | 1710 | 2205 | 2700 | 3195 | 3691 | 4186 | 4682 | 5178 | 5673 | 6169 | 6665 | 7161 | 42 | 43 | 0836 |
| 364 | 44 | 9293 | 9788 | 0283 | 0778 | 1273 | 1768 | 2263 | 2750 | 3254 | 3749 | 4945 | 4740 | 5236 | 5739 | 6227 | 6723 | 7919 | 42 | 44 | 0895 |
| 372 | 45 | 2 (3) 9352 | 9847 | 0342 | 0837 | 1331 | 1827 | 9322 | 2817 | 3312 | 3807 | 4303 | 4799 | 5294 | 5790 | 6286 | 6701 | 7977 | 43 | 45 | 9 0955 |
| 380 | 46 | 9411 | 9906 | 0400 | 0895 | 1390 | 1885 | 2380 | 2875 | 3371 | 3866 | 4361 | 4857 | 5353 | 5848 | 6344 | 6840 | 7336 | 44 | 46 | 1014 |
| 389 | 47 | 9470 | 9964 | 0459 | 0954 | 1449 | 1944 | 9439 | 9934 | 3499 | 3925 | 4420 | 4915 | 5411 | 5907 | 6402 | 6898 | 7394 | 45 | 47 | 1073 |
| 397 | 40 | 9599 | 0023 | 0518 | 1013 | 1508 | 2003 | 9498 | 2993 | 3480 | 3983 | 4479 | 4974 | 5470 | 5965 | 6461 | 6957 | 7453 | 46 | 40 | 1133 |
| 405 | 49 | 9580 | 0082 | 0577 | 1072 | 1567 | 9061 | 2556 | 3052 | 3547 | 4049 | 4537 | 5033 | 5528 | 6024 | 6519 | 7015 | 7511 | 47 | 49 | 1192 |
| 413 | 50 | 9 (3) 9647 | 0141 | 0636 | 1131 | 1625 | 9120 | 2615 | 3110 | 3606 | 4101 | 4596 | 5091 | 5587 | 6083 | 6578 | 7074 | 7570 | 40 | 50 | 9 1252 |
| 492 | 81 | 9706 | 0200 | 0695 | 1190 | 1685 | 2179 | 2674 | 3162 | 3665 | 4160 | 4655 | 5150 | 5646 | 6141 | 6637 | 7133 | 7628 | 49 | 51 | 1311 |
| 430 | 52 | 9765 | 0260 | 0754 | 1949 | 1744 | 2239 | 2733 | 3229 | 3724 | 4219 | 4714 | 5209 | 5705 | 6200 | 6696 | 7191 | 7687 | 50 | 52 | 1371 |
| 430 | 53 | 9895 | 0319 | 0814 | 1308 | 1803 | 2298 | 2793 | 3288 | 3783 | 4278 | 4773 | 5268 | 5764 | 6259 | 6755 | 7950 | 7746 | 51 | 53 | 1431 |
| 446 | 54 | 9084 | 0378 | 0873 | 1368 | 1863 | 2357 | 2852 | 3347 | 3842 | 4337 | 4839 | 5327 | 5893 | 6318 | 6814 | 7309 | 7805 | 59 | 54 | 1491 |
| 455 | 85 | 2 (3) 9943 | 0438 | 0932 | 1497 | 1922 | 2416 | 2911 | 3406 | 3901 | 4396 | 4891 | 5387 | 5882 | 6377 | 6873 | 7368 | 7864 | 83 | 55 | 9 1551 |
| 463 | 56 | 3 0003 | 0497 | 0992 | 1487 | 1981 | 9476 | 2971 | 3465 | 3960 | 4456 | 4951 | 5446 | 5941 | 6436 | 6939 | 7427 | 7923 | 54 | 56 | 1611 |
| 471 | 57 | 0063 | 0557 | 1052 | 1546 | 2041 | 2535 | 3030 | 3525 | 4020 | 4515 | 5010 | 5505 | 6000 | 6496 | 6991 | 7407 | 7989 | 55 | 57 | 1671 |
| 480 | 80 | 0123 | 0617 | 1111 | 1606 | 2100 | 2595 | 3090 | 3585 | 4079 | 4574 | 5069 | 5565 | 6060 | 6535 | 7051 | 7546 | 8042 | 56 | 50 | 1732 |
| 480 | 59' | 0182 | 0677 | 1171 | 1666 | 2160 | 2655 | 3149 | 3644 | 4139 | 4634 | 5129 | 5624 | 6119 | 6615 | 7110 | 7605 | 8101 | 87 | 52 | 1792 |

| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg Auxiliar | 12° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 12° | Núm. |
| 8 | 0' | 2 1832 | 2315 | 2838 | 3331 | 3824 | 4318 | 4811 | 5304 | 5798 | 6291 | 6785 | 7278 | 7772 | 8266 | 8768 | 9254 | 9748 | 58 | 0' | 8 1572 |
| 8 | 1 | 1913 | 2406 | 2899 | 3392 | 3885 | 4378 | 4871 | 5364 | 5858 | 6351 | 6845 | 7339 | 7832 | 8326 | 8820 | 9314 | 9808 | 57 | 1 | 1516 |
| 16 | 2 | 1974 | 2466 | 2959 | 3452 | 3945 | 4438 | 4931 | 5425 | 5918 | 6412 | 6905 | 7399 | 7893 | 8386 | 8880 | 9374 | 9868 | 56 | 2 | 1460 |
| 25 | 3 | 2034 | 2527 | 3020 | 3513 | 4006 | 4499 | 4992 | 5185 | 5979 | 6472 | 6966 | 7459 | 7953 | 8447 | 8940 | 3434 | 9928 | 55 | 3 | 1485 |
| 33 | 4 | 2095 | 2588 | 3081 | 3573 | 4066 | 4559 | 6053 | 5546 | 6039 | 6533 | 7026 | 7520 | 8013 | 8507 | 9001 | 9495 | 9989 | 54 | 4 | 1349 |
| 41 | 6 | 2 (3) 2156 | 2649 | 3141 | 3634 | 4127 | 4620 | 5113 | 5607 | 6100 | 6593 | 7087 | 7580 | 8874 | 8567 | 9851 | 9555 | 0049 | 53 | 5 | 8 1293 |
| 49 | 6 | 2217 | 2709 | 3202 | 3695 | 4188 | 4681 | 5174 | 5667 | 6161 | 6654 | 7147 | 7641 | 8134 | 8628 | 9122 | 9616 | 0109 | 62 | 5 | 1237 |
| 57 | 7 | 2278 | 2770 | 3263 | 3756 | 4249 | 4742 | 5235 | 5728 | 6221 | 6715 | 7208 | 7701 | 8195 | 8689 | 9182 | 9676 | 0170 | 51 | 7 | 1181 |
| 66 | 8 | 2339 | 2831 | 3324 | 3817 | 4310 | 4803 | 5296 | 5789 | 6282 | 6775 | 7269 | 7762 | 8256 | 8749 | 2243 | 9737 | 0231 | 50 | 8 | 1124 |
| 74 | 9 | 2400 | 2893 | 3385 | 3878 | 4371 | 4864 | 5357 | 5850 | 6343 | 6836 | 7330 | 7823 | 8317 | 8810 | 9304 | 8727 | 0291 | 49 | 9 | 1068 |
| 82 | 10 | 2 (3) 2461 | 2954 | 3446 | 3939 | 4432 | 4925 | 5418 | 5911 | 6404 | 6897 | 7391 | 7884 | 8377 | 8871 | 9365 | 9858 | 0352 | 48 | 10 | 8 1012 |
| 90 | 11 | 2523 | 3015 | 3508 | 4000 | 4493 | 4986 | 5479 | 5972 | 6465 | 6958 | 7452 | 7945 | 8438 | 8932 | 9426 | 9912 | 0413 | 47 | 11 | 9955 |
| 99 | 12 | 2584 | 3077 | 3569 | 4062 | 4555 | 5047 | 5540 | 6033 | 6526 | 7019 | 7513 | 8006 | 8499 | 8993 | 9487 | 9980 | 0474 | 46 | 12 | 9899 |
| 107 | 13 | 2646 | 3138 | 3631 | 4123 | 4616 | 5189 | 5602 | 6095 | 6588 | 7081 | 7574 | 8067 | 8561 | 9054 | 9548 | 0041 | 0535 | 45 | 13 | 0842 |
| 115 | 14 | 2707 | 3200 | 3692 | 4185 | 4677 | 5170 | 5663 | 6156 | 6649 | 7142 | 7635 | 8128 | 8622 | 9115 | 9608 | 0102 | 0596 | 44 | 14 | 8785 |
| 123 | 15 | 2 (3) 2769 | 3261 | 3754 | 4246 | 4739 | 5232 | 5724 | 6217 | 6710 | 7203 | 7697 | 8190 | 8683 | 9177 | 9678 | 9164 | 0657 | 43 | 15 | 8 8728 |
| 131 | 16 | 2831 | 3323 | 3815 | 4308 | 4801 | 5293 | 5786 | 6279 | 6772 | 7265 | 7758 | 8251 | 8745 | 8238 | 8731 | 0225 | 0718 | 43 | 16 | 8672 |
| 140 | 17 | 2892 | 3385 | 3877 | 4370 | 4862 | 5355 | 5848 | 6341 | 6833 | 7326 | 7820 | 8313 | 8806 | 9299 | 9793 | 0286 | 0780 | 42 | 17 | 8615 |
| 148 | 18 | 2954 | 3447 | 3939 | 4432 | 4924 | 5417 | 5909 | 6402 | 6895 | 7388 | 7881 | 8374 | 8868 | 9361 | 9854 | 0348 | 0841 | 41 | 18 | 0558 |
| 156 | 19 | 3016 | 3509 | 4801 | 4493 | 4986 | 5479 | 5871 | 6464 | 6957 | 7459 | 7943 | 8436 | 8929 | 9422 | 9916 | 0409 | 0903 | 40 | 19 | 8580 |
| 164 | 20 | 2 (3) 3078 | 3571 | 4063 | 4556 | 5048 | 5541 | 6033 | 6526 | 7019 | 7512 | 8085 | 8498 | 8991 | 9484 | 9977 | 0471 | 0964 | 39 | 20 | 8 0443 |
| 172 | 21 | 3141 | 3633 | 4125 | 4618 | 5110 | 5603 | 6095 | 6588 | 7081 | 7674 | 8066 | 8568 | 9053 | 9546 | 8039 | 0533 | 1826 | 38 | 21 | 0386 |
| 181 | 22 | 3203 | 3695 | 4187 | 4680 | 5172 | 5665 | 6157 | 6658 | 7143 | 7636 | 8128 | 8621 | 9115 | 9608 | 0101 | 0694 | 1888 | 37 | 22 | 0329 |
| 189 | 23 | 3265 | 3757 | 4250 | 4742 | 5234 | 5727 | 6219 | 6712 | 7205 | 7698 | 8120 | 8683 | 9176 | 9678 | 0163 | 9656 | 1160 | 36 | 23 | 8271 |
| 197 | 24 | 3328 | 3928 | 4312 | 4804 | 5297 | 5789 | 6282 | 6774 | 7267 | 7760 | 8263 | 8745 | 9239 | 9732 | 0225 | 0718 | 1211 | 35 | 24 | 0214 |
| 205 | 25 | 2 (3) 3390 | 3882 | 4374 | 4867 | 5359 | 5851 | 6344 | 6837 | 7329 | 7822 | 8315 | 8808 | 9381 | 9794 | 0287 | 8700 | 1273 | 34 | 25 | 8 0156 |
| 213 | 26 | 3453 | 3945 | 4437 | 4929 | 5421 | 5914 | 6406 | 6899 | 7392 | 7884 | 8377 | 8870 | 9363 | 9856 | 8349 | 8842 | 1336 | 33 | 26 | 8998 |
| 222 | 27 | 3515 | 4007 | 4500 | 4992 | 5484 | 5976 | 6469 | 6961 | 7464 | 7947 | 0439 | 8932 | 9425 | 9918 | 9411 | 9904 | 1398 | 32 | 27 | 0041 |
| 230 | 28 | 3578 | 4070 | 4562 | 5054 | 5547 | 6039 | 6531 | 7824 | 7516 | 8809 | 0582 | 8995 | 9488 | 9981 | 0474 | 0967 | 1460 | 31 | 28 | 7 9983 |
| 238 | 29 | 3641 | 4133 | 4625 | 6117 | 6609 | 6102 | 6594 | 7086 | 7579 | 8872 | 8564 | 9057 | 9560 | 0043 | 9536 | 1029 | 1522 | 39 | 29 | 9925 |
| 246 | 30 | 2 (3) 3704 | 4196 | 4688 | 5180 | 5672 | 6164 | 6657 | 7149 | 7642 | 0134 | 8627 | 9120 | 9613 | 0106 | 8590 | 1992 | 1585 | 29 | 38 | 7 2867 |
| 254 | 31 | 3667 | 4259 | 4751 | 5243 | 5735 | 6227 | 6720 | 7212 | 7704 | 8197 | 0690 | 9182 | 9675 | 0160 | 0561 | 1154 | 1647 | 28 | 31 | 9809 |
| 263 | 32 | 3830 | 4322 | 4814 | 5396 | 5798 | 6298 | 6782 | 7275 | 7767 | 8269 | 8752 | 9245 | 9738 | 0231 | 8724 | 1217 | 1710 | 27 | 32 | 9750 |
| 271 | 33 | 3893 | 4385 | 4877 | 5369 | 5861 | 6353 | 6845 | 7338 | 7839 | 8323 | 8815 | 9308 | 9881 | 0293 | 0786 | 1279 | 1772 | 26 | 33 | 9692 |
| 279 | 34 | 3956 | 4448 | 4949 | 5432 | 5924 | 6416 | 6908 | 7401 | 7893 | 8386 | 8878 | 2371 | 9863 | 0356 | 0849 | 1342 | 1935 | 25 | 34 | 9634 |
| 287 | 35 | 2 (3) 4028 | 4512 | 5003 | 5495 | 5987 | 6479 | 6972 | 7464 | 7956 | 8449 | 8941 | 9434 | 9926 | 0419 | 8912 | 1485 | 1898 | 24 | 35 | 7 9575 |
| 296 | 36 | 4883 | 4575 | 5067 | 5559 | 6051 | 6543 | 7035 | 7627 | 8919 | 8512 | 8084 | 9497 | 9989 | 8402 | 0976 | 1488 | 1961 | 23 | 36 | 9517 |
| 304 | 37 | 4147 | 4638 | 6130 | 5622 | 6114 | 8606 | 7998 | 7699 | 8083 | 8675 | 9067 | 9560 | 0053 | 0545 | 1838 | 1631 | 2924 | 22 | 37 | 9458 |
| 312 | 38 | 4210 | 4702 | 5194 | 5686 | 6177 | 6670 | 7162 | 7654 | 0146 | 8638 | 9131 | 9623 | 0116 | 0608 | 1101 | 1594 | 2087 | 21 | 38 | 9329 |
| 328 | 39 | 4274 | 4766 | 5257 | 5749 | 6241 | 6733 | 7225 | 7717 | 0289 | 8702 | 9194 | 2697 | 0179 | 0672 | 1164 | 1657 | 2150 | 20 | 39 | 9341 |
| 328 | 48 | 2 (3) 4338 | 4820 | 5321 | 6813 | 6306 | 6797 | 7289 | 7781 | 0273 | 8765 | 9258 | 2750 | 0242 | 0735 | 1228 | 1720 | 2213 | 18 | 49 | 7 9282 |
| 337 | 41 | 4481 | 4893 | 5395 | 6876 | 6368 | 6868 | 7352 | 7844 | 0336 | 8829 | 2321 | 9013 | 0386 | 0798 | 1291 | 1784 | 2277 | 18 | 41 | 9223 |
| 345 | 42 | 4465 | 4967 | 5449 | 5948 | 6432 | 6924 | 7416 | 7908 | 8400 | 9992 | 9386 | 2877 | 0369 | 0882 | 1365 | 1847 | 2349 | 17 | 42 | 2161 |
| 353 | 43 | 4529 | 6021 | 5512 | 6804 | 6496 | 6938 | 7488 | 7972 | 8464 | 8956 | 9448 | 9941 | 0433 | 0926 | 1418 | 1911 | 2403 | 16 | 43 | 9105 |
| 361 | 44 | 4593 | 5906 | 6576 | 6868 | 6560 | 7852 | 7544 | 8936 | 0628 | 9029 | 9512 | 0804 | 0497 | 0989 | 1482 | 1974 | 2467 | 15 | 44 | 9045 |
| 369 | 45 | 2 (3) 4658 | 5149 | 5641 | 6132 | 6624 | 7116 | 7608 | 8109 | 8592 | 9084 | 9576 | 0068 | 0561 | 1953 | 1545 | 2938 | 2531 | 15 | 46 | 7 8986 |
| 378 | 46 | 4722 | 5213 | 5705 | 6196 | 6688 | 7188 | 7672 | 8164 | 8636 | 9148 | 9640 | 0132 | 0624 | 1117 | 1689 | 2102 | 2594 | 14 | 46 | 9227 |
| 386 | 47 | 4786 | 6278 | 5769 | 6261 | 6752 | 7244 | 7736 | 8228 | 0729 | 9212 | 8704 | 0196 | 0688 | 1181 | 1673 | 2166 | 2658 | 13 | 47 | 0867 |
| 394 | 48 | 4851 | 6342 | 5833 | 6325 | 6017 | 7398 | 7808 | 8292 | 8784 | 9276 | 9768 | 0268 | 9752 | 1245 | 1737 | 2230 | 2722 | 12 | 40 | 0808 |
| 402 | 49 | 4916 | 5406 | 5898 | 6389 | 6881 | 7373 | 7864 | 8356 | 8840 | 9349 | 9832 | 0324 | 9816 | 1309 | 1881 | 2294 | 2786 | 11 | 49 | 8748 |
| 419 | 59 | 2 (3) 4980 | 5471 | 5962 | 6454 | 6945 | 7437 | 7929 | 8420 | 8912 | 9404 | 9896 | 0388 | 0881 | 1373 | 1865 | 2358 | 2850 | 10 | 58 | 7 9689 |
| 419 | 51 | 5044 | 5536 | 6027 | 6518 | 7910 | 7501 | 7993 | 8485 | 8977 | 9469 | 2961 | 0453 | 0945 | 1437 | 1929 | 2422 | 2914 | 9 | 61 | 8629 |
| 427 | 52 | 5109 | 6600 | 6092 | 6583 | 7974 | 7566 | 8058 | 8549 | 9941 | 9533 | 0025 | 0517 | 1009 | 1501 | 1994 | 2486 | 2978 | 8 | 52 | 0569 |
| 435 | 53 | 5174 | 6666 | 6156 | 6648 | 7139 | 7631 | 8122 | 8614 | 9106 | 9598 | 0089 | 9581 | 1074 | 1565 | 2958 | 2550 | 3043 | 7 | 53 | 8509 |
| 443 | 54 | 5239 | 6730 | 6221 | 6713 | 7204 | 7695 | 8107 | 0679 | 9170 | 9662 | 0154 | 8616 | 1138 | 1630 | 2122 | 2615 | 3107 | 6 | 54 | 8449 |
| 451 | 55 | 2 (3) 5304 | 5795 | 6286 | 6777 | 7269 | 7769 | 8252 | 8743 | 9236 | 9727 | 0219 | 0711 | 1203 | 1695 | 2187 | 2679 | 3172 | 5 | 55 | 7 8389 |
| 460 | 56 | 5368 | 5960 | 6351 | 6842 | 7334 | 7825 | 0317 | 9808 | 9390 | 9792 | 9283 | 9775 | 1267 | 1759 | 2252 | 2744 | 3236 | 4 | 56 | 8329 |
| 468 | 57 | 5434 | 5225 | 6416 | 6987 | 7399 | 7890 | 8382 | 8873 | 9365 | 9856 | 0348 | 0840 | 1332 | 1824 | 2316 | 2808 | 3301 | 3 | 57 | 8268 |
| 476 | 58 | 5499 | 5990 | 6481 | 6973 | 7464 | 7955 | 8447 | 8938 | 9430 | 9921 | 0413 | 0905 | 1397 | 1889 | 2381 | 2873 | 3365 | 2 | 58 | 8208 |
| 484 | 59 | 5564 | 6955 | 6547 | 7030 | 7528 | 8920 | 8512 | 9093 | 9495 | 9986 | 0478 | 0970 | 1462 | 1954 | 2446 | 2938 | 3430 | 1 | 59 | 0148 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 12° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 12° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 3 | 0249 | 8736 | 1231 | 1725 | 2228 | 2714 | 3209 | 3704 | 4199 | 4694 | 5189 | 5684 | 6179 | 6674 | 7169 | 7664 | 8160 | 0 | 0′ | 2 1852 |
| 8 | 1 | | 8302 | 0797 | 1291 | 1785 | 9280 | 2774 | 3269 | 3764 | 4259 | 4753 | 5248 | 5743 | 6238 | 6734 | 7229 | 7724 | 8220 | 1 | 1 | 1913 |
| 17 | 2 | | 0362 | 0857 | 1351 | 1845 | 2340 | 2834 | 3329 | 3824 | 4318 | 4813 | 5388 | 5803 | 6298 | 6723 | 7289 | 7784 | 8979 | 2 | 2 | 1974 |
| 25 | 3 | | 0492 | 0917 | 1411 | 1905 | 9400 | 2894 | 3389 | 3884 | 4378 | 4873 | 5368 | 5863 | 6358 | 6853 | 7348 | 7844 | 8339 | 3 | 3 | 2034 |
| 33 | 4 | | 0483 | 0977 | 1471 | 1965 | 9460 | 2954 | 3149 | 3944 | 4438 | 4933 | 5428 | 5923 | 6118 | 6913 | 7488 | 7903 | 8399 | 4 | 4 | 2095 |
| 41 | 5 | 3 | 8543 | 1837 | 1531 | 2026 | 2520 | 3014 | 3509 | 4004 | 4498 | 4993 | 5488 | 5983 | 6178 | 6973 | 7468 | 7963 | 8459 | 5 | 5 | 2 2156 |
| 49 | 6 | | 8604 | 1898 | 1592 | 2086 | 2580 | 3075 | 3569 | 4064 | 4358 | 5053 | 5548 | 6043 | 6538 | 7033 | 7528 | 8893 | 8519 | 6 | 6 | 2217 |
| 58 | 7 | | 0664 | 1158 | 1652 | 2146 | 2641 | 3135 | 3630 | 4124 | 4619 | 5113 | 5608 | 6103 | 6598 | 7093 | 7588 | 8083 | 8579 | 7 | 7 | 2278 |
| 66 | 8 | | 0795 | 1219 | 1713 | 9207 | 2701 | 3195 | 3690 | 4184 | 4679 | 5174 | 5668 | 6163 | 6658 | 7103 | 7648 | 8143 | 8639 | 8 | 8 | 2339 |
| 74 | 9 | | 0785 | 1979 | 1773 | 2267 | 9769 | 3256 | 3750 | 4215 | 4739 | 5234 | 5729 | 6224 | 6718 | 7214 | 7708 | 8904 | 8699 | 9 | 9 | 2108 |
| 82 | 10 | 3 | 0846 | 1340 | 1834 | 2328 | 2822 | 3317 | 3811 | 4305 | 4800 | 5295 | 5789 | 6284 | 6779 | 7274 | 7769 | 8264 | 8759 | 10 | 10 | 2 2461 |
| 91 | 11 | | 0907 | 1401 | 1895 | 2389 | 2883 | 3377 | 3872 | 4366 | 4868 | 5355 | 5850 | 6345 | 6839 | 7334 | 7829 | 8324 | 8819 | 12 | 11 | 2523 |
| 99 | 12 | | 8968 | 1462 | 1956 | 2450 | 9944 | 3438 | 3932 | 4427 | 4991 | 5416 | 5910 | 6405 | 6908 | 7395 | 7890 | 8385 | 8880 | 13 | 12 | 2584 |
| 187 | 13 | | 1029 | 1523 | 2016 | 2511 | 3005 | 3499 | 3993 | 4487 | 4989 | 5476 | 5971 | 6466 | 6960 | 7455 | 7958 | 8445 | 8940 | 14 | 13 | 2646 |
| 115 | 14 | | 1090 | 1584 | 2078 | 2572 | 3066 | 3560 | 4054 | 4548 | 5043 | 5537 | 6039 | 6526 | 7091 | 7516 | 8811 | 8506 | 9801 | 15 | 14 | 2707 |
| 124 | 15 | 3 | 1151 | 1645 | 2139 | 9633 | 3127 | 3621 | 4115 | 4609 | 5104 | 5598 | 6093 | 6587 | 7082 | 7577 | 8072 | 8567 | 9061 | 16 | 15 | 2 2769 |
| 132 | 16 | | 1212 | 1706 | 2200 | 2691 | 3188 | 3682 | 4176 | 4670 | 5165 | 5659 | 6154 | 6648 | 7143 | 7637 | 8132 | 8627 | 9122 | 17 | 16 | 2831 |
| 140 | 17 | | 1273 | 1767 | 2261 | 2755 | 3249 | 3743 | 4237 | 4731 | 5226 | 5728 | 6215 | 6709 | 7204 | 7698 | 8193 | 8688 | 9183 | 18 | 17 | 9899 |
| 148 | 10 | | 1335 | 1829 | 2329 | 2816 | 3310 | 3804 | 4298 | 4799 | 5287 | 5781 | 6276 | 6770 | 7265 | 7759 | 8254 | 8749 | 9244 | 19 | 18 | 2954 |
| 150 | 19 | | 1396 | 1890 | 2384 | 2878 | 3372 | 3866 | 4360 | 4854 | 5348 | 5842 | 6337 | 6831 | 7396 | 7820 | 8315 | 8810 | 9305 | 20 | 19 | 3016 |
| 165 | 28 | 3 | 1458 | 1952 | 2445 | 2939 | 3433 | 3927 | 4421 | 4915 | 5409 | 5904 | 6398 | 6892 | 7387 | 7882 | 8376 | 8871 | 9366 | 21 | 20 | 2 3879 |
| 173 | 21 | | 1520 | 2013 | 9507 | 3001 | 3494 | 3988 | 4482 | 4977 | 5471 | 5965 | 6459 | 6954 | 7448 | 7943 | 8438 | 8932 | 9427 | 22 | 91 | 3141 |
| 101 | 22 | | 1581 | 2075 | 2568 | 3062 | 3556 | 4050 | 4544 | 5038 | 5532 | 6026 | 6521 | 7815 | 7510 | 8084 | 8499 | 8994 | 9488 | 23 | 92 | 3203 |
| 189 | 23 | | 1643 | 2137 | 2630 | 3124 | 3618 | 4112 | 4606 | 5100 | 5594 | 6088 | 6582 | 7077 | 7571 | 8066 | 8560 | 9055 | 9550 | 24 | 23 | 3265 |
| 198 | 24 | | 1705 | 2198 | 2699 | 3186 | 3679 | 4173 | 4667 | 5161 | 5655 | 6150 | 6644 | 7138 | 7633 | 8127 | 8629 | 9116 | 9611 | 25 | 24 | 3398 |
| 206 | 25 | 3 | 1767 | 2260 | 2754 | 3948 | 3741 | 4235 | 4729 | 5923 | 5717 | 6911 | 6706 | 7200 | 7694 | 8189 | 8683 | 9178 | 9673 | 26 | 25 | 2 3390 |
| 214 | 26 | | 1829 | 2322 | 2816 | 3318 | 3803 | 4297 | 4791 | 5985 | 5779 | 6273 | 6767 | 7262 | 7756 | 8258 | 8745 | 9239 | 9734 | 97 | 26 | 3453 |
| 222 | 27 | | 1891 | 9384 | 2878 | 3372 | 3865 | 4359 | 4853 | 5347 | 5841 | 6335 | 6829 | 7393 | 7818 | 8312 | 8886 | 9301 | 9796 | 28 | 27 | 3515 |
| 231 | 28 | | 1953 | 9447 | 2940 | 3434 | 3927 | 4421 | 4915 | 5409 | 5983 | 6397 | 6891 | 7385 | 7879 | 8374 | 8868 | 9363 | 9857 | 29 | 28 | 3578 |
| 239 | 29 | | 2016 | 2509 | 3009 | 3496 | 3998 | 4483 | 4277 | 5471 | 5965 | 6459 | 6953 | 7447 | 7941 | 8436 | 8930 | 9425 | 9919 | 38 | 29 | 3641 |
| 247 | 30 | 3 | 2078 | 2571 | 3065 | 3558 | 4052 | 4545 | 5039 | 5533 | 6097 | 6521 | 7015 | 7589 | 8003 | 8498 | 8999 | 9487 | 9981 | 31 | 30 | 2 3704 |
| 255 | 31 | 3 (4) | 2140 | 2634 | 3127 | 3621 | 4114 | 4688 | 5181 | 5595 | 6089 | 6583 | 7077 | 7571 | 8065 | 8560 | 9054 | 9549 | 0843 | 33 | 31 | 3767 |
| 264 | 32 | | 2203 | 9696 | 3190 | 3683 | 4177 | 4670 | 5164 | 5658 | 6151 | 6645 | 7139 | 7633 | 8128 | 8699 | 9116 | 9611 | 8105 | 34 | 32 | 3830 |
| 272 | 33 | | 2266 | 2759 | 3252 | 3746 | 4939 | 4733 | 5226 | 5720 | 6214 | 6788 | 7282 | 7696 | 8190 | 8684 | 9178 | 9673 | 8167 | 35 | 33 | 3893 |
| 280 | 34 | | 2398 | 2822 | 3315 | 3808 | 4382 | 4795 | 5289 | 5782 | 6976 | 6770 | 7264 | 7758 | 8252 | 8746 | 9241 | 9735 | 0229 | 36 | 34 | 3956 |
| 288 | 35 | 3 (4) | 2391 | 2884 | 3378 | 3871 | 4364 | 4858 | 5351 | 5845 | 6339 | 6833 | 7396 | 7820 | 8315 | 8809 | 9303 | 9797 | 0292 | 37 | 35 | 9 4090 |
| 226 | 36 | | 2454 | 2947 | 3440 | 3934 | 4427 | 4990 | 5414 | 5908 | 6401 | 6895 | 7389 | 7883 | 8377 | 8871 | 9365 | 9860 | 8354 | 38 | 36 | 4083 |
| 305 | 37 | | 9517 | 3810 | 3503 | 3997 | 4490 | 4983 | 5477 | 5978 | 6464 | 6958 | 7452 | 7946 | 8440 | 8934 | 9428 | 9922 | 8416 | 39 | 37 | 4147 |
| 313 | 38 | | 2580 | 3073 | 3566 | 4859 | 4553 | 5646 | 5540 | 6033 | 6527 | 7021 | 7514 | 8808 | 8582 | 8996 | 9498 | 9985 | 8479 | 48 | 30 | 4910 |
| 321 | 39 | | 9643 | 3136 | 3629 | 4199 | 4616 | 5189 | 5603 | 6096 | 6590 | 7883 | 7577 | 8071 | 8565 | 9059 | 9553 | 8047 | 0542 | 41 | 39 | 4274 |
| 329 | 40 | 3 (4) | 2706 | 3199 | 3692 | 4186 | 4679 | 5172 | 5666 | 6159 | 6653 | 7146 | 7640 | 8134 | 8628 | 9192 | 9616 | 8110 | 0604 | 42 | 40 | 2 4338 |
| 338 | 41 | | 2770 | 3962 | 3756 | 4249 | 4749 | 5235 | 5729 | 6299 | 6716 | 7209 | 7703 | 8197 | 8691 | 9185 | 9679 | 0173 | 0667 | 43 | 41 | 4402 |
| 346 | 42 | | 2833 | 3326 | 3819 | 4319 | 4805 | 5298 | 5792 | 6985 | 6779 | 7272 | 7766 | 8260 | 8754 | 9248 | 9742 | 0236 | 0730 | 44 | 42 | 4465 |
| 354 | 43 | | 2096 | 3389 | 3882 | 4375 | 4868 | 5362 | 5855 | 6348 | 6842 | 7336 | 7829 | 8323 | 8817 | 9311 | 9805 | 0299 | 0793 | 45 | 43 | 4529 |
| 362 | 44 | | 2960 | 3453 | 3946 | 4439 | 4932 | 5425 | 5918 | 6412 | 6985 | 7399 | 7892 | 8386 | 8888 | 9374 | 9868 | 0362 | 0856 | 46 | 44 | 4594 |
| 371 | 45 | 3 (4) | 3023 | 3516 | 4009 | 4502 | 4995 | 5488 | 5982 | 6475 | 6969 | 7462 | 7956 | 8449 | 8943 | 9437 | 9931 | 0425 | 0919 | 47 | 45 | 2 4658 |
| 379 | 46 | | 3087 | 3580 | 4873 | 4566 | 5059 | 5552 | 6045 | 6539 | 7032 | 7595 | 8819 | 8513 | 9086 | 9500 | 9994 | 0488 | 0982 | 48 | 46 | 4722 |
| 387 | 47 | | 3151 | 3644 | 4137 | 4629 | 5123 | 5616 | 6109 | 6682 | 7095 | 7589 | 8882 | 8576 | 9069 | 9564 | 8057 | 0551 | 1845 | 49 | 47 | 4786 |
| 395 | 48 | | 3215 | 3708 | 4980 | 4693 | 5186 | 5679 | 6172 | 6666 | 7159 | 7652 | 0146 | 8640 | 9133 | 9627 | 0121 | 0615 | 1109 | 50 | 48 | 4851 |
| 403 | 42 | | 3279 | 3771 | 4264 | 4757 | 5250 | 5743 | 6236 | 6729 | 7223 | 7716 | 8210 | 0703 | 9197 | 9698 | 0184 | 0678 | 1172 | 61 | 49 | 4915 |
| 412 | 50 | 3 (4) | 3343 | 3835 | 4328 | 4821 | 5314 | 5807 | 6300 | 6793 | 7286 | 7780 | 0273 | 8767 | 9260 | 9754 | 8248 | 0742 | 1236 | 52 | 50 | 2 4980 |
| 420 | 51 | | 3487 | 3900 | 4392 | 4885 | 5378 | 5871 | 6364 | 6857 | 7350 | 7844 | 8337 | 8830 | 9324 | 9818 | 8311 | 0805 | 1299 | 54 | 51 | 5844 |
| 428 | 52 | | 3471 | 3964 | 4456 | 4949 | 5442 | 5935 | 6498 | 6921 | 7414 | 7908 | 8481 | 8894 | 9388 | 9881 | 8375 | 0869 | 1363 | 55 | 52 | 6189 |
| 436 | 53 | | 3535 | 4828 | 4521 | 5013 | 5506 | 5999 | 6492 | 6985 | 7478 | 7972 | 8465 | 8958 | 9452 | 9945 | 8439 | 0933 | 1426 | 56 | 53 | 5174 |
| 445 | 54 | | 3600 | 4893 | 4585 | 5078 | 5578 | 6063 | 6556 | 7049 | 7542 | 0036 | 8529 | 9822 | 9516 | 8009 | 8503 | 8996 | 1490 | 57 | 54 | 5239 |
| 453 | 65 | 3 (4) | 3664 | 4157 | 4649 | 5142 | 5635 | 6128 | 6690 | 7113 | 7607 | 8180 | 8593 | 9886 | 9588 | 0873 | 8567 | 1060 | 1554 | 58 | 55 | 2 6304 |
| 461 | 56 | | 3729 | 4221 | 4714 | 5206 | 5699 | 6192 | 6685 | 7178 | 7671 | 8164 | 8657 | 9150 | 9644 | 8137 | 0631 | 1124 | 1618 | 59 | 56 | 5369 |
| 469 | 57 | | 3793 | 4286 | 4778 | 5271 | 5763 | 6256 | 6749 | 7242 | 7735 | 8228 | 8721 | 9215 | 9708 | 8201 | 0695 | 1189 | 1682 | 60 | 57 | 5434 |
| 478 | 58 | | 3858 | 4350 | 4843 | 5335 | 5828 | 6391 | 6814 | 7307 | 7800 | 8293 | 8786 | 9979 | 9772 | 0266 | 0759 | 1253 | 1746 | 61 | 58 | 5499 |
| 486 | 59 | | 3923 | 4415 | 4907 | 5400 | 5893 | 6385 | 6878 | 7371 | 7864 | 8357 | 8858 | 9343 | 9837 | 0330 | 0823 | 1317 | 1811 | 62 | 59 | 5565 |

TABLA X. Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 13° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 15' | Partes para segundos. | 13° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 (3) 5630 | 6121 | 6619 | 7103 | 7594 | 8086 | 8577 | 9068 | 9560 | 0051 | 0543 | 1035 | 1527 | 2019 | 2511 | 3003 | 3495 | 63 | 0' | 7 0087 |
| 8 | 1 | 6695 | 6186 | 6677 | 7168 | 7660 | 8131 | 8612 | 9134 | 9625 | 0117 | 0608 | 1100 | 1592 | 2084 | 2576 | 3068 | 3560 | 62 | 1 | 8026 |
| 16 | 2 | 5761 | 6252 | 6743 | 7231 | 7795 | 8216 | 8708 | 9199 | 9690 | 0182 | 0674 | 1165 | 1657 | 2149 | 2611 | 3133 | 3625 | 61 | 2 | 7966 |
| 25 | 3 | 5827 | 6317 | 6808 | 7299 | 7790 | 8282 | 8773 | 9261 | 9756 | 0247 | 0739 | 1231 | 1722 | 2211 | 2706 | 3198 | 3690 | 60 | 3 | 7905 |
| 33 | 4 | 5899 | 6383 | 6874 | 7365 | 7856 | 8317 | 8838 | 9330 | 9821 | 0313 | 0804 | 1296 | 1788 | 2280 | 2771 | 3263 | 3765 | 52 | 4 | 7841 |
| 41 | 5 | 2 (3) 5958 | 6119 | 6940 | 7131 | 7929 | 8113 | 8904 | 9395 | 9887 | 0378 | 0870 | 1361 | 1853 | 2345 | 2837 | 3329 | 3821 | 58 | 5 | 7 7783 |
| 49 | 5 | 6094 | 6515 | 7006 | 7497 | 7088 | 8179 | 8970 | 9461 | 9952 | 0144 | 0935 | 1427 | 1219 | 2410 | 2902 | 3391 | 3886 | 57 | 6 | 7722 |
| 57 | 7 | 6090 | 6581 | 7072 | 7562 | 8053 | 8544 | 9036 | 9527 | 0018 | 0509 | 1001 | 1493 | 1984 | 2476 | 2968 | 3460 | 3952 | 66 | 7 | 7661 |
| 65 | 8 | 6156 | 6647 | 7138 | 7628 | 8119 | 8610 | 9101 | 9593 | 0084 | 0576 | 1067 | 1558 | 2050 | 2511 | 3033 | 3525 | 4017 | 55 | 8 | 7580 |
| 74 | 9 | 6222 | 6713 | 7204 | 7694 | 8185 | 8676 | 9167 | 9659 | 0150 | 0641 | 1132 | 1621 | 2115 | 2607 | 3029 | 3591 | 1083 | 54 | 2 | 7539 |
| 02 | 10 | 2 (3) 6288 | 6779 | 7270 | 7761 | 8251 | 8749 | 9233 | 9725 | 0216 | 0707 | 1198 | 1690 | 2181 | 2673 | 3165 | 3656 | 4148 | 53 | 10 | 7 7477 |
| 90 | 11 | 6355 | 6845 | 7336 | 7827 | 8318 | 8808 | 9300 | 9721 | 0282 | 0773 | 1261 | 1756 | 2247 | 2739 | 3930 | 3722 | 4214 | 51 | 11 | 7416 |
| 98 | 12 | 6421 | 6912 | 7402 | 7893 | 8384 | 8875 | 9366 | 9857 | 0318 | 0839 | 1330 | 1822 | 2313 | 2806 | 3296 | 3788 | 4280 | 50 | 12 | 7354 |
| 106 | 13 | 6488 | 6978 | 7169 | 7959 | 8460 | 8941 | 9132 | 9923 | 0414 | 0905 | 1397 | 1888 | 2379 | 2871 | 3362 | 3854 | 4346 | 42 | 13 | 7293 |
| 114 | 14 | 6554 | 7045 | 7535 | 8026 | 8517 | 9007 | 9198 | 9989 | 0480 | 0272 | 1463 | 1251 | 2445 | 2937 | 3428 | 3920 | 4419 | 45 | 14 | 7231 |
| 123 | 15 | 2 (3) 6621 | 7111 | 7602 | 8092 | 8583 | 9074 | 9565 | 0056 | 0547 | 1038 | 1529 | 2020 | 2519 | 3003 | 3425 | 3986 | 4478 | 47 | 15 | 7 7169 |
| 131 | 16 | 6687 | 7178 | 7668 | 8159 | 8650 | 9140 | 9631 | 0122 | 0613 | 1104 | 1595 | 2087 | 2578 | 3069 | 3561 | 1052 | 4644 | 45 | 15 | 7108 |
| 139 | 17 | 5754 | 7215 | 7735 | 8226 | 8716 | 9207 | 9698 | 0189 | 0680 | 1171 | 1662 | 9153 | 2614 | 3136 | 3627 | 4119 | 4610 | 45 | 17 | 7045 |
| 147 | 18 | 6821 | 7311 | 7802 | 8292 | 8783 | 9274 | 9761 | 0255 | 0746 | 1237 | 1728 | 2220 | 2711 | 3202 | 3694 | 4185 | 4677 | 44 | 10 | 5984 |
| 155 | 19 | 6888 | 7378 | 7869 | 8359 | 8850 | 9340 | 9831 | 0322 | 0813 | 1304 | 1795 | 2286 | 2777 | 3269 | 3760 | 1252 | 4743 | 43 | 12 | 6921 |
| 164 | 20 | 2 (3) 6955 | 7445 | 7936 | 8426 | 8917 | 9407 | 2898 | 0389 | 0880 | 1371 | 1862 | 2353 | 9844 | 3335 | 3827 | 1318 | 4810 | 42 | 20 | 7 5859 |
| 172 | 21 | 7022 | 7513 | 8003 | 8493 | 8984 | 9474 | 9965 | 0456 | 0947 | 1438 | 1929 | 2420 | 2911 | 3402 | 3893 | 4385 | 4876 | 41 | 21 | 6797 |
| 180 | 22 | 7089 | 7580 | 8070 | 8560 | 9051 | 9611 | 0032 | 0523 | 1014 | 1504 | 1995 | 2486 | 2978 | 3459 | 3960 | 4451 | 4943 | 40 | 22 | 6735 |
| 188 | 23 | 7157 | 7617 | 0137 | 8620 | 9118 | 9608 | 0092 | 0590 | 1081 | 1571 | 2062 | 2553 | 3041 | 3536 | 4027 | 1518 | 5010 | 39 | 23 | 6679 |
| 196 | 24 | 7294 | 7714 | 8204 | 8695 | 9185 | 9676 | 0166 | 0657 | 1148 | 1638 | 2129 | 2620 | 3111 | 3603 | 4094 | 4585 | 5076 | 38 | 24 | 6610 |
| 205 | 25 | 2 (3) 7292 | 7782 | 8272 | 8762 | 9253 | 9743 | 0231 | 0724 | 1213 | 1706 | 2196 | 9687 | 3178 | 3670 | 4161 | 4652 | 5143 | 37 | 95 | 7 6547 |
| 213 | 26 | 7359 | 7819 | 8339 | 8830 | 9320 | 9810 | 0301 | 0791 | 1282 | 1773 | 2264 | 2755 | 3946 | 3737 | 4928 | 4719 | 5210 | 36 | 26 | 6485 |
| 221 | 27 | 7497 | 7917 | 8407 | 8897 | 9387 | 9878 | 0368 | 0859 | 1349 | 1840 | 2331 | 2822 | 3313 | 3804 | 4995 | 4786 | 5277 | 35 | 27 | 6422 |
| 229 | 28 | 7494 | 7981 | 8475 | 8965 | 9455 | 9945 | 0436 | 0926 | 1417 | 1908 | 2398 | 2889 | 3380 | 3871 | 4352 | 4853 | 6345 | 34 | 26 | 5359 |
| 937 | 99 | 7569 | 8052 | 8542 | 9032 | 9523 | 0013 | 0503 | 0994 | 1484 | 1976 | 2166 | 2956 | 3417 | 3930 | 4429 | 4921 | 6412 | 33 | 29 | 5296 |
| 216 | 30 | 2 (3) 7630 | 8120 | 8610 | 9100 | 9590 | 0081 | 0571 | 1061 | 1552 | 2043 | 2533 | 3024 | 3615 | 4006 | 4497 | 4988 | 6480 | 32 | 30 | 7 6233 |
| 253 | 31 | 7698 | 8188 | 8678 | 9168 | 9658 | 0148 | 0639 | 1129 | 1620 | 2110 | 2601 | 3092 | 3582 | 4073 | 4564 | 5065 | 5547 | 31 | 31 | 6170 |
| 262 | 32 | 7766 | 8256 | 8746 | 9236 | 9796 | 0216 | 0707 | 1127 | 1687 | 2178 | 2669 | 3159 | 3650 | 4141 | 4639 | 5123 | 5614 | 22 | 32 | 6107 |
| 270 | 33 | 7834 | 8324 | 8814 | 9301 | 9794 | 0284 | 0774 | 1265 | 1755 | 2246 | 2735 | 3227 | 3718 | 4209 | 4700 | 5190 | 6682 | 28 | 33 | 6044 |
| 278 | 34 | 7902 | 8392 | 8882 | 9372 | 9862 | 0352 | 0049 | 1333 | 1823 | 2314 | 2804 | 3295 | 3786 | 4276 | 4767 | 5250 | 5749 | 27 | 34 | 5260 |
| 286 | 35 | 2 (3) 7071 | 8460 | 8950 | 9440 | 9930 | 0120 | 0911 | 1401 | 1891 | 2382 | 2872 | 3363 | 3853 | 4344 | 4835 | 5326 | 5817 | 26 | 35 | 7 5917 |
| 291 | 36 | 8039 | 8529 | 9019 | 9508 | 9998 | 0489 | 0979 | 1469 | 1959 | 2150 | 2940 | 3431 | 3921 | 4412 | 1203 | 5394 | 5885 | 25 | 36 | 5663 |
| 303 | 37 | 6107 | 8597 | 9087 | 9577 | 0067 | 0557 | 1047 | 1537 | 2027 | 2618 | 3008 | 3499 | 3909 | 4180 | 1971 | 5462 | 5953 | 24 | 37 | 6790 |
| 311 | 38 | 8176 | 8666 | 9155 | 9645 | 0135 | 0625 | 1115 | 1605 | 2096 | 2586 | 3076 | 3567 | 4057 | 4548 | 5039 | 5530 | 6021 | 23 | 38 | 5726 |
| 319 | 39 | 6245 | 8734 | 9994 | 9714 | 0201 | 0694 | 1184 | 1674 | 2164 | 2654 | 3145 | 3635 | 4126 | 4516 | 5107 | 5598 | 6089 | 29 | 32 | 5662 |
| 327 | 40 | 2 (3) 8313 | 8803 | 9293 | 9782 | 0272 | 0762 | 1959 | 1742 | 2232 | 2723 | 3213 | 3703 | 4194 | 4685 | 5175 | 5666 | 6157 | 21 | 46 | 7 5598 |
| 335 | 41 | 6382 | 8879 | 9361 | 9851 | 0341 | 0831 | 1321 | 1511 | 2301 | 2791 | 3901 | 3779 | 4262 | 4753 | 5243 | 5734 | 6225 | 20 | 41 | 5535 |
| 343 | 49 | 8451 | 8940 | 9430 | 9920 | 0410 | 0899 | 1300 | 1879 | 2369 | 2860 | 3350 | 3840 | 4331 | 4821 | 5312 | 5803 | 6993 | 19 | 42 | 5471 |
| 352 | 43 | 8520 | 9009 | 9499 | 9989 | 0478 | 0968 | 1458 | 1948 | 2438 | 2998 | 3419 | 3909 | 4399 | 4890 | 5380 | 5871 | 6362 | 18 | 43 | 5406 |
| 360 | 44 | 8589 | 9078 | 2568 | 0057 | 0547 | 1037 | 1527 | 2017 | 2507 | 9997 | 3487 | 3977 | 4468 | 4958 | 5449 | 5939 | 6430 | 17 | 44 | 5349 |
| 368 | 46 | 2 (3) 8658 | 9147 | 9637 | 0196 | 0616 | 1106 | 1596 | 2086 | 2575 | 3066 | 3556 | 4046 | 4537 | 5027 | 5517 | 6008 | 6499 | 16 | 45 | 7 5970 |
| 376 | 46 | 8727 | 9216 | 9706 | 0195 | 0685 | 1175 | 1665 | 2155 | 2645 | 3135 | 3625 | 4116 | 4605 | 5096 | 5686 | 6077 | 6567 | 15 | 46 | 5214 |
| 384 | 47 | 8796 | 9906 | 9775 | 0265 | 0754 | 1244 | 1734 | 2224 | 2714 | 3204 | 3694 | 4184 | 4674 | 6154 | 5555 | 6145 | 6636 | 14 | 47 | 5149 |
| 392 | 48 | 6866 | 9355 | 9844 | 0334 | 0893 | 1313 | 1803 | 2293 | 2783 | 3973 | 3763 | 4263 | 4743 | 6233 | 5724 | 6214 | 6705 | 13 | 48 | 5086 |
| 401 | 49 | 8935 | 9494 | 9914 | 0403 | 0893 | 1389 | 1872 | 2362 | 2852 | 3342 | 3832 | 4322 | 4812 | 5302 | 5793 | 5283 | 6774 | 19 | 49 | 5020 |
| 409 | 50 | 2 (3) 9005 | 9494 | 9983 | 0173 | 0962 | 1459 | 1941 | 9431 | 2921 | 3411 | 3901 | 4391 | 4681 | 5371 | 5862 | 6352 | 6843 | 10 | 60 | 7 4956 |
| 417 | 51 | 9074 | 9563 | 0053 | 0542 | 1032 | 1621 | 2011 | 2501 | 9990 | 3480 | 3970 | 4460 | 4950 | 5441 | 5931 | 6491 | 6912 | 9 | 51 | 4891 |
| 425 | 52 | 9144 | 9633 | 0192 | 0612 | 1101 | 1591 | 2080 | 2570 | 3060 | 3550 | 4039 | 4529 | 5020 | 5510 | 6000 | 6490 | 6981 | 6 | 52 | 4896 |
| 433 | 53 | 9214 | 9703 | 0199 | 0681 | 1171 | 1660 | 2150 | 2639 | 3129 | 3619 | 4109 | 4599 | 5089 | 5579 | 5669 | 6566 | 7050 | 7 | 53 | 4761 |
| 441 | 54 | 9283 | 9773 | 0262 | 0751 | 1940 | 1730 | 9919 | 2709 | 3199 | 3688 | 4178 | 4668 | 6158 | 6640 | 6139 | 6629 | 7119 | 6 | 54 | 4696 |
| 450 | 65 | 2 (3) 9353 | 9843 | 0332 | 0891 | 1310 | 1800 | 9289 | 2779 | 3268 | 3758 | 4948 | 4738 | 6298 | 5718 | 6208 | 6698 | 7189 | 5 | 55 | 7 4631 |
| 458 | 56 | 9423 | 9913 | 0402 | 0891 | 1380 | 1869 | 2359 | 2840 | 3338 | 3828 | 4318 | 4807 | 5297 | 5787 | 6278 | 6768 | 7258 | 4 | 56 | 4666 |
| 466 | 57 | 9493 | 9983 | 0472 | 0961 | 1450 | 1939 | 2429 | 2910 | 3408 | 3098 | 4387 | 4877 | 5367 | 5857 | 6317 | 6837 | 7328 | 3 | 57 | 4501 |
| 474 | 58 | 9564 | 0053 | 0549 | 1031 | 1520 | 2009 | 9499 | 2988 | 3478 | 3967 | 4457 | 4947 | 5437 | 6927 | 6417 | 6907 | 7397 | 2 | 58 | 4435 |
| 482 | 59 | 9634 | 0123 | 0612 | 1101 | 1590 | 9079 | 9569 | 3058 | 3648 | 4037 | 4527 | 5017 | 5507 | 5997 | 6487 | 6977 | 7467 | 1 | 59 | 4370 |

**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg Auxiliar | 13° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 0 | 0′ | 3 (4) 3987 | 4479 | 4979 | 5465 | 5957 | 6450 | 6943 | 7436 | 7999 | 8429 | 8915 | 9408 | 9901 | 0394 | 0888 | 1381 | 1875 |
| 8 | 1 | 4052 | 4545 | 5037 | 5529 | 6022 | 6515 | 7007 | 7500 | 7993 | 8486 | 8979 | 9472 | 9966 | 0459 | 0952 | 1446 | 1939 |
| 16 | 2 | 4117 | 4610 | 5102 | 5594 | 6087 | 6580 | 7072 | 7565 | 8058 | 8551 | 9044 | 9537 | 0030 | 0523 | 1017 | 1510 | 2004 |
| 25 | 3 | 4182 | 4675 | 5167 | 5659 | 6159 | 6645 | 7137 | 7630 | 8123 | 8616 | 9109 | 9602 | 0095 | 0588 | 1081 | 1575 | 2068 |
| 33 | 4 | 4948 | 4740 | 5232 | 5724 | 6217 | 6710 | 7202 | 7695 | 8188 | 8681 | 9173 | 9666 | 0168 | 0553 | 1146 | 1639 | 2133 |
| 41 | 5 | 3 (4) 4313 | 4805 | 5297 | 5790 | 6282 | 6775 | 7267 | 7760 | 8253 | 8745 | 9238 | 9731 | 0224 | 0718 | 1211 | 1704 | 2198 |
| 49 | 6 | 4378 | 4870 | 5363 | 5855 | 6347 | 6840 | 7332 | 7825 | 8318 | 8810 | 9303 | 9796 | 0289 | 0782 | 1276 | 1769 | 2962 |
| 57 | 7 | 4443 | 4936 | 5428 | 5920 | 6413 | 6905 | 7398 | 7890 | 8383 | 8876 | 9368 | 9861 | 0354 | 0817 | 1341 | 1834 | 2327 |
| 66 | 8 | 4509 | 5001 | 5493 | 5986 | 6478 | 6970 | 7463 | 7955 | 8448 | 8941 | 9434 | 9926 | 0419 | 0913 | 1406 | 1899 | 2392 |
| 74 | 9 | 4575 | 5067 | 5559 | 6051 | 6543 | 7036 | 7598 | 8021 | 8513 | 9006 | 9499 | 9992 | 0485 | 0978 | 1471 | 1964 | 2457 |
| 82 | 10 | 3 (4) 4640 | 5132 | 5694 | 6117 | 6609 | 7101 | 7594 | 8086 | 8579 | 9071 | 9564 | 0057 | 0550 | 1043 | 1536 | 2029 | 2522 |
| 90 | 11 | 4706 | 5198 | 5690 | 6182 | 6674 | 7167 | 7659 | 8152 | 8644 | 9137 | 5630 | 0122 | 0615 | 1108 | 1501 | 2094 | 9588 |
| 98 | 12 | 4772 | 5264 | 5756 | 6248 | 6740 | 7232 | 7725 | 8217 | 8710 | 9202 | 9696 | 0188 | 0681 | 1174 | 1667 | 2160 | 2653 |
| 107 | 13 | 4838 | 5330 | 5822 | 6314 | 6806 | 7298 | 7790 | 8283 | 8775 | 9268 | 9761 | 0253 | 0746 | 1939 | 1732 | 2295 | 2718 |
| 115 | 14 | 4904 | 5396 | 5888 | 6380 | 6872 | 7364 | 7856 | 8349 | 8841 | 9334 | 9826 | 0319 | 0812 | 1305 | 1798 | 2291 | 9784 |
| 123 | 15 | 3 (4) 4970 | 5462 | 5954 | 6446 | 6938 | 7430 | 7922 | 8414 | 8907 | 9499 | 9892 | 0385 | 0877 | 1370 | 1863 | 2356 | 2849 |
| 131 | 16 | 5036 | 5528 | 6020 | 6512 | 7004 | 7496 | 7968 | 8480 | 8973 | 9165 | 9958 | 0450 | 0943 | 1436 | 1929 | 2422 | 2915 |
| 139 | 17 | 5102 | 5594 | 6086 | 6578 | 7070 | 7562 | 8054 | 8546 | 9039 | 9531 | 0024 | 0516 | 1009 | 1502 | 1995 | 2487 | 2980 |
| 148 | 18 | 5168 | 5660 | 6152 | 6644 | 7136 | 7698 | 8120 | 8612 | 9105 | 9597 | 0090 | 0582 | 1075 | 1568 | 2060 | 2553 | 3046 |
| 156 | 19 | 5235 | 5795 | 6218 | 6710 | 7902 | 7694 | 8186 | 8679 | 9171 | 9664 | 0156 | 0648 | 1141 | 1633 | 2126 | 2619 | 3112 |
| 164 | 20 | 3 (4) 5301 | 5793 | 6985 | 6776 | 7968 | 7760 | 8253 | 8745 | 9237 | 9729 | 0222 | 0714 | 1207 | 1699 | 2199 | 2685 | 3178 |
| 172 | 91 | 5368 | 5859 | 6351 | 6843 | 7335 | 7827 | 8319 | 8811 | 9303 | 9796 | 0288 | 0780 | 1273 | 1766 | 2258 | 2751 | 3244 |
| 180 | 22 | 5434 | 5926 | 6418 | 6910 | 7401 | 7893 | 8385 | 8877 | 9370 | 9862 | 0354 | 0847 | 1339 | 1839 | 2325 | 2817 | 3310 |
| 189 | 23 | 5501 | 5993 | 6484 | 6976 | 7468 | 7960 | 8459 | 8944 | 9436 | 9928 | 0421 | 0913 | 1405 | 1898 | 2391 | 2883 | 3376 |
| 197 | 24 | 5568 | 6059 | 6551 | 7043 | 7535 | 8097 | 8518 | 9010 | 9503 | 9995 | 0487 | 0979 | 1472 | 1964 | 2457 | 9950 | 3443 |
| 205 | 25 | 3 (4) 5635 | 6126 | 6618 | 7110 | 7601 | 8093 | 8585 | 9077 | 9569 | 9061 | 0554 | 1046 | 1538 | 2031 | 2523 | 3016 | 3505 |
| 213 | 26 | 5702 | 6193 | 6685 | 7176 | 7668 | 8160 | 8652 | 9144 | 9636 | 0128 | 0620 | 1119 | 1605 | 2097 | 2590 | 3083 | 3575 |
| 291 | 27 | 5769 | 6260 | 6752 | 7243 | 7735 | 8227 | 8719 | 9911 | 9703 | 0195 | 0687 | 1179 | 1672 | 2164 | 2657 | 3149 | 3642 |
| 230 | 28 | 5836 | 6397 | 6819 | 7310 | 7802 | 8994 | 8786 | 9278 | 9770 | 0262 | 0754 | 1246 | 1738 | 2231 | 2793 | 3916 | 3708 |
| 238 | 29 | 5903 | 6395 | 6886 | 7377 | 7869 | 8361 | 8853 | 9345 | 9836 | 0328 | 0821 | 1313 | 1805 | 9297 | 2790 | 3282 | 3775 |
| 216 | 30 | 3 (4) 5970 | 6462 | 6953 | 7445 | 7936 | 8428 | 8920 | 9412 | 9903 | 0395 | 0888 | 1380 | 1872 | 2364 | 2857 | 3349 | 3842 |
| 254 | 31 | 6038 | 6529 | 7090 | 7519 | 8003 | 8495 | 8987 | 9479 | 9971 | 0463 | 0955 | 1447 | 1939 | 2431 | 2924 | 3416 | 3908 |
| 262 | 32 | 6105 | 6596 | 7088 | 7579 | 8071 | 8569 | 9054 | 9546 | 0038 | 0530 | 1092 | 1514 | 2006 | 2498 | 2991 | 3483 | 3975 |
| 271 | 33 | 6173 | 6664 | 7155 | 7647 | 8138 | 8630 | 9121 | 9613 | 0105 | 0597 | 1089 | 1581 | 2073 | 2565 | 3058 | 3550 | 4042 |
| 279 | 34 | 6940 | 6739 | 7223 | 7714 | 8206 | 8697 | 9189 | 9681 | 0172 | 0664 | 1156 | 1648 | 2140 | 9639 | 3125 | 3617 | 4109 |
| 287 | 35 | 3 (4) 6308 | 6799 | 7290 | 7782 | 8273 | 8765 | 9256 | 9748 | 0240 | 0732 | 1223 | 1715 | 2207 | 9700 | 3199 | 3684 | 4177 |
| 295 | 36 | 6376 | 6867 | 7358 | 7850 | 8341 | 8832 | 9324 | 9815 | 0307 | 0799 | 1291 | 1783 | 2975 | 2767 | 3259 | 3751 | 4244 |
| 303 | 37 | 6444 | 6935 | 7426 | 7917 | 8409 | 8900 | 9391 | 9883 | 0375 | 0867 | 1358 | 1850 | 2342 | 2834 | 3396 | 3819 | 4311 |
| 312 | 38 | 6512 | 7003 | 7494 | 7985 | 8476 | 8968 | 9459 | 9951 | 0442 | 0934 | 1426 | 1918 | 2410 | 2902 | 3394 | 3886 | 4379 |
| 320 | 39 | 6580 | 7071 | 7562 | 8053 | 8544 | 9036 | 9597 | 0019 | 0510 | 1002 | 1494 | 1986 | 2477 | 2969 | 3462 | 3954 | 4446 |
| 328 | 40 | 3 (4) 6648 | 7139 | 7630 | 8191 | 8612 | 9104 | 9595 | 0086 | 0578 | 1070 | 1561 | 2053 | 2545 | 3037 | 3529 | 4021 | 4514 |
| 336 | 41 | 6716 | 7207 | 7698 | 8189 | 3680 | 9172 | 9663 | 0154 | 0646 | 1138 | 1629 | 2121 | 2613 | 3105 | 3597 | 4089 | 4581 |
| 344 | 42 | 6784 | 7275 | 7766 | 8257 | 8748 | 9240 | 9731 | 0222 | 0714 | 1206 | 1697 | 2189 | 2681 | 3173 | 3665 | 4157 | 4649 |
| 353 | 43 | 6852 | 7343 | 7834 | 8325 | 8817 | 9308 | 9799 | 0291 | 0782 | 1274 | 1765 | 2257 | 2749 | 3241 | 3732 | 4225 | 4717 |
| 361 | 44 | 6921 | 7419 | 7903 | 8394 | 8885 | 9376 | 9867 | 0359 | 0850 | 1349 | 1833 | 2325 | 2817 | 3309 | 3800 | 1992 | 4784 |
| 369 | 45 | 3 (4) 6989 | 7480 | 7971 | 8462 | 8953 | 9444 | 9936 | 0427 | 0918 | 1410 | 1901 | 2393 | 9885 | 3377 | 3868 | 4360 | 4852 |
| 377 | 46 | 7058 | 7549 | 8040 | 8531 | 9099 | 9513 | 0004 | 0495 | 0987 | 1478 | 1970 | 2461 | 2953 | 3445 | 3936 | 4498 | 4920 |
| 385 | 47 | 7197 | 7617 | 8108 | 8599 | 9090 | 9581 | 0072 | 0564 | 1055 | 1546 | 2038 | 9530 | 3091 | 3513 | 4005 | 4497 | 4989 |
| 394 | 48 | 7195 | 7686 | 8177 | 8668 | 9159 | 9650 | 0141 | 0639 | 1124 | 1615 | 2105 | 2598 | 3089 | 3581 | 1073 | 4565 | 5057 |
| 402 | 49 | 7264 | 7755 | 8246 | 8737 | 9927 | 9719 | 0210 | 0701 | 1192 | 1683 | 2175 | 2666 | 3158 | 3650 | 4141 | 4633 | 5125 |
| 410 | 50 | 3 (4) 7333 | 7824 | 8315 | 8805 | 9296 | 9787 | 9978 | 0769 | 1261 | 1752 | 2243 | 2735 | 3226 | 3718 | 4910 | 4701 | 5193 |
| 418 | 51 | 7409 | 7893 | 8383 | 8874 | 9365 | 9856 | 0347 | 0838 | 1329 | 1821 | 2312 | 2803 | 3295 | 3787 | 4278 | 4770 | 5262 |
| 426 | 52 | 7471 | 7962 | 8453 | 8943 | 9434 | 9995 | 0416 | 0907 | 1398 | 1889 | 2381 | 2872 | 3364 | 3855 | 4347 | 4839 | 5330 |
| 435 | 53 | 7540 | 8030 | 8599 | 9012 | 9503 | 9994 | 0485 | 0976 | 1467 | 1958 | 2450 | 2941 | 3432 | 3921 | 4415 | 4907 | 5399 |
| 443 | 54 | 7610 | 8100 | 8591 | 9081 | 9579 | 0063 | 0554 | 1045 | 1536 | 2027 | 2518 | 3010 | 3501 | 3993 | 4484 | 4976 | 5468 |
| 451 | 55 | 3 (4) 7679 | 8169 | 8660 | 9151 | 9641 | 0132 | 0623 | 1114 | 1605 | 2096 | 2587 | 3079 | 3570 | 4062 | 4553 | 5045 | 5536 |
| 459 | 56 | 7748 | 8239 | 8729 | 9220 | 9711 | 0201 | 0692 | 1183 | 1674 | 2165 | 2656 | 3148 | 3639 | 4130 | 4622 | 5114 | 5605 |
| 467 | 57 | 7818 | 8308 | 8799 | 9289 | 9780 | 0271 | 0769 | 1252 | 1743 | 2234 | 2726 | 3917 | 3708 | 4199 | 4691 | 5189 | 5674 |
| 476 | 58 | 7887 | 8378 | 8868 | 9359 | 9849 | 0340 | 0831 | 1329 | 1813 | 2304 | 2795 | 3286 | 3777 | 4269 | 4760 | 5251 | 5743 |
| 484 | 59 | 7957 | 8447 | 8938 | 9429 | 9919 | 0410 | 0900 | 1391 | 1882 | 2373 | 2861 | 3355 | 3846 | 4338 | 4899 | 5320 | 5812 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 13° | Núm. |
|---|---|---|
| 0 | 0′ | 2 5630 |
| 1 | 1 | 5695 |
| 2 | 2 | 5761 |
| 3 | 3 | 5827 |
| 4 | 4 | 5892 |
| 6 | 5 | 2 5958 |
| 7 | 6 | 6024 |
| 8 | 7 | 6090 |
| 9 | 8 | 6156 |
| 10 | 9 | 6299 |
| 11 | 10 | 2 6288 |
| 19 | 11 | 6355 |
| 14 | 19 | 6421 |
| 15 | 13 | 6488 |
| 16 | 14 | 6554 |
| 17 | 15 | 2 6621 |
| 18 | 16 | 6687 |
| 19 | 17 | 6754 |
| 90 | 18 | 6821 |
| 21 | 19 | 6888 |
| 23 | 20 | 2 6955 |
| 24 | 21 | 7022 |
| 25 | 92 | 7089 |
| 26 | 23 | 7157 |
| 27 | 94 | 7224 |
| 28 | 25 | 2 7292 |
| 29 | 26 | 7359 |
| 31 | 27 | 7427 |
| 32 | 28 | 7494 |
| 33 | 29 | 7562 |
| 34 | 30 | 2 7630 |
| 35 | 31 | 7698 |
| 36 | 32 | 7766 |
| 37 | 33 | 7834 |
| 38 | 34 | 7902 |
| 40 | 35 | 2 7970 |
| 41 | 30 | 8039 |
| 42 | 37 | 8107 |
| 43 | 38 | 8176 |
| 44 | 39 | 8945 |
| 45 | 40 | 2 8313 |
| 46 | 41 | 8389 |
| 48 | 42 | 0451 |
| 49 | 43 | 8590 |
| 50 | 44 | 8589 |
| 51 | 45 | 2 8658 |
| 52 | 46 | 8727 |
| 53 | 47 | 8796 |
| 54 | 48 | 8866 |
| 55 | 49 | 8935 |
| 57 | 50 | 2 9005 |
| 58 | 51 | 9071 |
| 59 | 52 | 9144 |
| 60 | 53 | 9214 |
| 61 | 54 | 9284 |
| 62 | 55 | 2 9353 |
| 63 | 56 | 9423 |
| 65 | 57 | 9494 |
| 66 | 58 | 9564 |
| 67 | 59 | 9634 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas. |
|---|---|

| Partes para segundos del Arg Auxiliar. | 14° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 14° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 0 | 0' | 2 (3) | 9704 | 0193 | 0682 | 1171 | 1660 | 2150 | 2639 | 3128 | 3618 | 1107 | 4507 | 5087 | 6577 | 6066 | 6556 | 7046 | 7537 | 68 | 6' | 7 4305 |
| 8 | 1 | | 9775 | 0263 | 0752 | 1241 | 1731 | 2220 | 2709 | 3198 | 3688 | 1177 | 4667 | 5157 | 5647 | 6135 | 6626 | 7116 | 7606 | 67 | 1 | 4239 |
| 16 | 2 | | 9845 | 0334 | 0823 | 1312 | 1881 | 2290 | 2779 | 3269 | 3758 | 1248 | 4737 | 5227 | 5717 | 6206 | 6695 | 7106 | 7675 | 66 | 2 | 4173 |
| 25 | 3 | | 9916 | 0405 | 0893 | 1382 | 1871 | 2360 | 2850 | 3339 | 3828 | 1318 | 4887 | 5297 | 5787 | 6276 | 6766 | 7256 | 7746 | 65 | 3 | 4108 |
| 33 | 4 | | 9986 | 0475 | 0964 | 1453 | 1912 | 2431 | 2920 | 3409 | 3899 | 1388 | 4878 | 5367 | 5857 | 5347 | 6837 | 7326 | 7816 | 63 | 4 | 4642 |
| 41 | 5 | 1 | 0857 | 0516 | 1035 | 1524 | 2013 | 2502 | 2991 | 3480 | 3969 | 1459 | 4918 | 5438 | 5927 | 5417 | 6967 | 7397 | 7887 | 62 | 6 | 7 3976 |
| 49 | 6 | | 0128 | 0617 | 1186 | 1594 | 2083 | 2572 | 3051 | 3551 | 1818 | 4529 | 5012 | 5508 | 5908 | 6487 | 6277 | 7467 | 7057 | 61 | 6 | 3910 |
| 57 | 7 | | 0199 | 0687 | 1175 | 1565 | 2154 | 2543 | 3132 | 3621 | 1118 | 4580 | 5889 | 5570 | 6858 | 6558 | 7046 | 7537 | 8627 | 60 | 7 | 3844 |
| 55 | 8 | | 0270 | 0758 | 1217 | 1736 | 2225 | 2714 | 3283 | 3692 | 1181 | 4670 | 5160 | 5649 | 6130 | 6628 | 7118 | 7606 | 8008 | 50 | 6 | 3770 |
| 73 | 9 | | 0341 | 0829 | 1318 | 1807 | 2296 | 2785 | 3274 | 3763 | 4252 | 1741 | 5230 | 5720 | 6209 | 6609 | 7189 | 7678 | 8168 | 58 | 2 | 3712 |
| 82 | 10 | 3 | 8412 | 0901 | 1389 | 1878 | 2367 | 2856 | 3315 | 3834 | 4323 | 1812 | 5301 | 5791 | 6280 | 5770 | 7259 | 7742 | 8239 | 57 | 10 | 7 3645 |
| 98 | 11 | | 0183 | 0972 | 1460 | 1949 | 2438 | 2927 | 3116 | 3905 | 4391 | 4883 | 5372 | 5851 | 6351 | 6640 | 7330 | 7820 | 8309 | 55 | 11 | 3579 |
| 98 | 12 | | 0555 | 1013 | 1532 | 2020 | 2509 | 2998 | 3487 | 3976 | 4465 | 4951 | 5443 | 5932 | 6422 | 5911 | 7401 | 7890 | 8380 | 64 | 12 | 3512 |
| 106 | 13 | | 0526 | 1114 | 1503 | 2092 | 2580 | 3069 | 3558 | 4847 | 1536 | 5025 | 5514 | 5803 | 6493 | 6982 | 7472 | 7961 | 8451 | 53 | 13 | 3446 |
| 114 | 14 | | 6697 | 1185 | 1574 | 2153 | 2652 | 3140 | 3529 | 1118 | 1607 | 5896 | 5585 | 6075 | 6564 | 7053 | 7643 | 6032 | 8522 | 32 | 14 | 3372 |
| 122 | 15 | 3 | 0769 | 1257 | 1746 | 2231 | 2723 | 3212 | 3701 | 1189 | 4678 | 5167 | 5656 | 6146 | 6635 | 7124 | 7614 | 8103 | 8593 | 51 | 16 | 7 3313 |
| 130 | 16 | | 0811 | 1329 | 1817 | 2386 | 2795 | 3283 | 3772 | 4261 | 4750 | 5230 | 5728 | 6217 | 6706 | 7125 | 7685 | 6174 | 8664 | 50 | 16 | 3246 |
| 139 | 17 | | 0912 | 1401 | 1889 | 2378 | 2865 | 3355 | 3843 | 4332 | 4821 | 5310 | 5799 | 6288 | 6777 | 7267 | 7756 | 8245 | 8735 | 49 | 17 | 3179 |
| 117 | 18 | | 0984 | 1172 | 1951 | 2449 | 2938 | 3426 | 3915 | 4404 | 4893 | 5382 | 5871 | 6350 | 5849 | 7338 | 7827 | 8317 | 8805 | 48 | 10 | 3112 |
| 155 | 19 | | 1055 | 1514 | 2033 | 2521 | 3009 | 3498 | 3987 | 4475 | 4961 | 5453 | 5942 | 6431 | 6920 | 7462 | 7899 | 8388 | 8878 | 46 | 19 | 3645 |
| 163 | 20 | 3 | 1128 | 1615 | 2105 | 2593 | 3081 | 3570 | 4058 | 4547 | 5036 | 5525 | 6014 | 6503 | 6992 | 7481 | 7970 | 8452 | 8949 | 46 | 20 | 7 2978 |
| 171 | 21 | | 1200 | 1588 | 2177 | 2655 | 3153 | 3612 | 4138 | 1610 | 5108 | 5596 | 6085 | 6574 | 7063 | 7552 | 6042 | 6531 | 9020 | 44 | 21 | 2911 |
| 179 | 22 | | 1272 | 1760 | 2219 | 2737 | 3225 | 3714 | 4202 | 1691 | 5179 | 5666 | 6157 | 6646 | 7135 | 7624 | 8113 | 0663 | 9692 | 43 | 22 | 2843 |
| 188 | 23 | | 1344 | 1833 | 2321 | 2809 | 3297 | 3786 | 4274 | 4763 | 5251 | 5740 | 6229 | 6718 | 7207 | 7696 | 8185 | 8674 | 9161 | 42 | 23 | 2776 |
| 195 | 21 | | 1417 | 1965 | 2393 | 2881 | 3378 | 3858 | 4346 | 4835 | 5323 | 5812 | 6301 | 6790 | 7279 | 7766 | 8257 | 9746 | 9235 | 41 | 24 | 2708 |
| 204 | 25 | 3 | 1489 | 1977 | 2465 | 2953 | 3142 | 3930 | 4418 | 1907 | 6396 | 5881 | 6373 | 5862 | 7351 | 7810 | 8320 | 8818 | 9307 | 40 | 26 | 7 2641 |
| 212 | 26 | | 1562 | 2050 | 2538 | 3026 | 3514 | 4802 | 4491 | 4979 | 5466 | 5955 | 6445 | 5934 | 7423 | 7912 | 8481 | 8890 | 9379 | 38 | 26 | 2573 |
| 228 | 27 | | 1634 | 2122 | 2510 | 3898 | 3586 | 4075 | 4553 | 5051 | 5540 | 6022 | 6517 | 7006 | 7495 | 7984 | 0473 | 8962 | 9451 | 37 | 27 | 2606 |
| 228 | 28 | | 1707 | 2195 | 2583 | 3171 | 3559 | 1147 | 4535 | 5121 | 3612 | 5181 | 6589 | 7078 | 7567 | 8056 | 0545 | 9034 | 9523 | 36 | 29 | 2438 |
| 236 | 29 | | 1779 | 2267 | 2755 | 3243 | 3732 | 4220 | 4708 | 5196 | 5685 | 6173 | 6662 | 7150 | 7639 | 8120 | 8617 | 9106 | 9595 | 35 | 29 | 2370 |
| 245 | 30 | 3 | 1852 | 2340 | 2828 | 3316 | 3801 | 4292 | 4781 | 5259 | 5737 | 6246 | 6734 | 7223 | 7712 | 6200 | 8689 | 9178 | 9667 | 34 | 36 | 7 2362 |
| 253 | 31 | | 1925 | 2413 | 2901 | 3389 | 3877 | 4365 | 4853 | 5341 | 5830 | 6318 | 6807 | 7295 | 7784 | 8273 | 8762 | 9251 | 9740 | 33 | 31 | 2234 |
| 261 | 32 | | 1998 | 2486 | 2974 | 3162 | 3950 | 4438 | 4926 | 5414 | 5902 | 5301 | 6879 | 7368 | 7857 | 6315 | 8834 | 9323 | 9812 | 32 | 32 | 2165 |
| 269 | 33 | | 2071 | 2559 | 3047 | 3535 | 4022 | 4511 | 4999 | 5487 | 5975 | 6454 | 6952 | 7441 | 7929 | 8418 | 8967 | 9395 | 9884 | 31 | 33 | 2096 |
| 277 | 34 | | 2144 | 2632 | 3120 | 3608 | 4095 | 4584 | 5072 | 5568 | 6048 | 6535 | 7625 | 7513 | 8002 | 8490 | 8972 | 9468 | 9957 | 29 | 34 | 2830 |
| 285 | 35 | 3 (4) | 2217 | 2765 | 3193 | 3681 | 4169 | 4657 | 5145 | 5633 | 6121 | 6609 | 7098 | 7586 | 8075 | 6553 | 9052 | 9511 | 0630 | 26 | 35 | 7 1961 |
| 293 | 36 | | 2291 | 2778 | 3266 | 3754 | 4242 | 4730 | 5218 | 5706 | 6194 | 6682 | 7170 | 7659 | 8147 | 8636 | 9125 | 9613 | 0102 | 27 | 36 | 1893 |
| 302 | 37 | | 2364 | 2852 | 3339 | 3827 | 4313 | 4883 | 5291 | 5779 | 6267 | 6755 | 7243 | 7732 | 8220 | 8769 | 9198 | 9686 | 6175 | 26 | 37 | 1824 |
| 310 | 38 | | 2438 | 2926 | 3413 | 3900 | 1388 | 4876 | 5361 | 5852 | 6340 | 6828 | 7317 | 7805 | 6293 | 8782 | 9271 | 9759 | 6248 | 25 | 38 | 1755 |
| 318 | 39 | | 2511 | 2999 | 3186 | 3974 | 4462 | 1949 | 5437 | 5925 | 6113 | 6901 | 7390 | 7878 | 8366 | 8855 | 9344 | 9832 | 0321 | 24 | 39 | 1687 |
| 326 | 46 | 3 (4) | 2585 | 3072 | 3568 | 4047 | 1535 | 5023 | 5511 | 5999 | 6487 | 6275 | 7463 | 7951 | 6440 | 8928 | 9417 | 9905 | 6394 | 23 | 46 | 7 1618 |
| 334 | 41 | | 2658 | 3146 | 3633 | 4121 | 4609 | 5095 | 5584 | 6072 | 6568 | 7018 | 7536 | 8024 | 8513 | 2001 | 9420 | 9978 | 0467 | 21 | 41 | 1549 |
| 342 | 42 | | 2732 | 3220 | 3787 | 4195 | 4682 | 5170 | 5658 | 6116 | 6534 | 7122 | 7618 | 8098 | 8586 | 9074 | 9563 | 8051 | 0540 | 20 | 42 | 1480 |
| 351 | 43 | | 2806 | 3293 | 3781 | 4268 | 4756 | 5244 | 5731 | 6219 | 5707 | 7195 | 7683 | 8171 | 8660 | 9148 | 9635 | 0125 | 0513 | 12 | 43 | 1411 |
| 359 | 44 | | 2888 | 3367 | 3855 | 4342 | 4830 | 5317 | 5805 | 6293 | 6781 | 7259 | 7757 | 8245 | 8733 | 9221 | 9710 | 0198 | 6687 | 18 | 44 | 1342 |
| 367 | 45 | 3 (4) | 2954 | 3141 | 3929 | 4415 | 4904 | 5391 | 5879 | 5357 | 5835 | 7342 | 7830 | 8318 | 8807 | 9295 | 9783 | 8272 | 0760 | 17 | 45 | 7 1273 |
| 375 | 46 | | 3028 | 3513 | 4003 | 4490 | 4978 | 5455 | 5953 | 6141 | 6928 | 7416 | 7904 | 8392 | 8886 | 9369 | 9857 | 0345 | 0834 | 16 | 46 | 1204 |
| 383 | 47 | | 3102 | 3589 | 4076 | 4561 | 5052 | 5539 | 6027 | 6514 | 7002 | 7490 | 7978 | 8466 | 8934 | 9442 | 9930 | 8419 | 0987 | 15 | 47 | 1134 |
| 391 | 40 | | 3177 | 3654 | 4150 | 4638 | 5126 | 5613 | 6101 | 5588 | 7075 | 7564 | 8052 | 8540 | 9628 | 9315 | 8004 | 8493 | 0981 | 14 | 48 | 1065 |
| 392 | 49 | | 3251 | 3738 | 4225 | 4712 | 5200 | 5687 | 5175 | 6662 | 7150 | 7638 | 8126 | 8614 | 9102 | 9590 | 0678 | 0566 | 1055 | 12 | 49 | 0995 |
| 400 | 56 | 3 (4) | 3325 | 3812 | 4299 | 4787 | 5274 | 5752 | 6249 | 6737 | 7224 | 7712 | 8200 | 8588 | 9176 | 9664 | 0152 | 0640 | 1128 | 11 | 50 | 7 0925 |
| 416 | 61 | | 3400 | 3087 | 4374 | 4861 | 5348 | 5836 | 6323 | 6811 | 7299 | 7786 | 8274 | 8762 | 9250 | 9738 | 6226 | 0714 | 1262 | 10 | 51 | 9865 |
| 424 | 52 | | 3474 | 3961 | 4449 | 4936 | 5423 | 5910 | 6398 | 6885 | 7373 | 7860 | 8348 | 8836 | 9324 | 9812 | 0300 | 0768 | 1276 | 9 | 62 | 6705 |
| 432 | 63 | | 3649 | 4036 | 4523 | 5010 | 5497 | 5985 | 6472 | 5960 | 7447 | 7935 | 8423 | 8918 | 9398 | 9886 | 0374 | 0862 | 1350 | 8 | 63 | 0716 |
| 446 | 64 | | 3624 | 4111 | 4598 | 5085 | 5572 | 6059 | 6547 | 7034 | 7522 | 8009 | 8497 | 8985 | 9472 | 9960 | 0448 | 0936 | 1425 | 7 | 54 | 0647 |
| 448 | 65 | 3 (4) | 3629 | 4185 | 1673 | 5160 | 5547 | 6134 | 6621 | 7189 | 7596 | 8084 | 8571 | 9059 | 9547 | 0035 | 0523 | 1011 | 1499 | 6 | 55 | 7 0577 |
| 456 | 66 | | 3774 | 4260 | 4747 | 5231 | 5722 | 6209 | 6596 | 7183 | 7671 | 0158 | 8646 | 9134 | 9621 | 0109 | 0597 | 1085 | 1573 | 4 | 56 | 0506 |
| 465 | 57 | | 3849 | 4335 | 4822 | 5309 | 5796 | 6284 | 6771 | 7258 | 7745 | 8233 | 0726 | 9266 | 9696 | 6104 | 0672 | 1159 | 1648 | 3 | 67 | 0436 |
| 473 | 58 | | 3924 | 4411 | 4697 | 5384 | 5871 | 6356 | 6846 | 7333 | 7828 | 8308 | 8795 | 9283 | 9770 | 0256 | 0746 | 1234 | 1722 | 2 | 58 | 0366 |
| 481 | 59 | | 3999 | 4405 | 4972 | 5459 | 5946 | 6433 | 6921 | 7468 | 7895 | 8383 | 8870 | 9358 | 9846 | 6333 | 0821 | 1302 | 1797 | 1 | 59 | 0296 |

| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 14° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 14° | Núm. |
| | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 99' | 30' | 31' | 32' | 33' | | | |
| 0 | 0' | 3 (4) 0027 | 0517 | 9007 | 9498 | 9989 | 0479 | 0970 | 1461 | 1951 | 2442 | 2933 | 3125 | 3916 | 1407 | 4898 | 5390 | 5881 | 0 | 0' | 2 9704 |
| 8 | 1 | 6097 | 8587 | 9077 | 9568 | 8058 | 0549 | 1039 | 1530 | 2021 | 2512 | 3003 | 3494 | 3985 | 4476 | 4968 | 5459 | 5958 | 1 | 1 | 9775 |
| 16 | 2 | 8166 | 0657 | 9147 | 9637 | 0128 | 0618 | 1109 | 1600 | 2091 | 2582 | 3072 | 3563 | 4055 | 4516 | 5037 | 5528 | 6020 | 2 | 2 | 9845 |
| 25 | 3 | 8236 | 8727 | 9217 | 9707 | 0198 | 0688 | 1179 | 1670 | 2160 | 2651 | 3142 | 3633 | 4124 | 4615 | 5106 | 5598 | 6089 | 4 | 3 | 9916 |
| 33 | 4 | 8307 | 8797 | 9287 | 9777 | 8268 | 0758 | 1249 | 1739 | 2230 | 9721 | 3212 | 3703 | 4194 | 4685 | 5176 | 5667 | 6159 | 5 | 4 | 9986 |
| 41 | 6 | 3 (4) 8377 | 8867 | 9357 | 9847 | 0338 | 0828 | 1319 | 1809 | 2300 | 2791 | 3282 | 3772 | 4263 | 4754 | 5246 | 5737 | 6228 | 6 | 5 | 3 0857 |
| 49 | 6 | 6447 | 8937 | 9427 | 9917 | 0408 | 0898 | 1389 | 1879 | 2370 | 2861 | 3351 | 3842 | 4333 | 4824 | 5315 | 5807 | 6298 | 7 | 6 | 0128 |
| 67 | 7 | 0517 | 9807 | 9497 | 9988 | 0478 | 0968 | 1459 | 1949 | 2440 | 2931 | 3421 | 3912 | 4403 | 4894 | 5385 | 5876 | 6368 | 8 | 7 | 0199 |
| 65 | 8 | 8588 | 9078 | 9568 | 0058 | 0548 | 1038 | 1529 | 2019 | 2510 | 3001 | 3491 | 3982 | 4473 | 4964 | 5455 | 5946 | 6137 | 10 | 8 | 0270 |
| 74 | 9 | 0658 | 9148 | 9638 | 0128 | 0618 | 1189 | 1599 | 2090 | 2580 | 3071 | 3561 | 4052 | 4543 | 5034 | 5525 | 6016 | 6507 | 11 | 9 | 0341 |
| 02 | 10 | 3 (4) 8729 | 9219 | 9708 | 0199 | 0689 | 1179 | 1669 | 2160 | 2650 | 3141 | 3632 | 4122 | 4613 | 5104 | 5595 | 6086 | 6577 | 12 | 10 | 3 0412 |
| 90 | 11 | 8799 | 9289 | 9779 | 8269 | 0759 | 1250 | 1740 | 2230 | 2721 | 3211 | 3782 | 4193 | 4683 | 5174 | 5665 | 6156 | 6647 | 13 | 11 | 0483 |
| 98 | 12 | 0870 | 9360 | 9858 | 0340 | 0830 | 1320 | 1810 | 2301 | 2791 | 3282 | 3772 | 4263 | 4754 | 5245 | 5735 | 6226 | 6718 | 14 | 12 | 0555 |
| 106 | 13 | 6941 | 9430 | 9920 | 0410 | 0900 | 1391 | 1881 | 2371 | 2862 | 3352 | 3813 | 4333 | 4821 | 5315 | 5886 | 6297 | 6788 | 16 | 13 | 0626 |
| 114 | 14 | 9011 | 9501 | 9991 | 0481 | 0971 | 1461 | 1951 | 2442 | 2932 | 3423 | 3913 | 4404 | 4894 | 5385 | 5876 | 6367 | 6858 | 17 | 14 | 0698 |
| 123 | 15 | 3 (4) 9082 | 9572 | 0062 | 0552 | 1042 | 1532 | 2022 | 2512 | 3003 | 3493 | 3984 | 4474 | 4965 | 5456 | 5946 | 6437 | 6928 | 10 | 15 | 3 0769 |
| 131 | 16 | 0154 | 9643 | 0133 | 0623 | 1113 | 1603 | 2093 | 2583 | 3074 | 3564 | 1054 | 4545 | 5036 | 5526 | 6017 | 6508 | 6999 | 19 | 16 | 0841 |
| 139 | 17 | 9225 | 9714 | 0204 | 0694 | 1184 | 1674 | 2164 | 2654 | 3144 | 3635 | 4125 | 4616 | 5106 | 5597 | 6088 | 6578 | 7069 | 21 | 17 | 0912 |
| 147 | 18 | 9296 | 9785 | 0275 | 0765 | 1255 | 1745 | 2235 | 2725 | 3215 | 3706 | 4196 | 4686 | 5177 | 5668 | 6158 | 6649 | 7140 | 22 | 18 | 0984 |
| 155 | 19 | 0367 | 9857 | 0346 | 0836 | 1326 | 1816 | 2306 | 2796 | 3286 | 3777 | 4267 | 4757 | 5240 | 5738 | 6229 | 6720 | 7211 | 23 | 19 | 1056 |
| 163 | 28 | 3 (4) 9438 | 9998 | 0418 | 0907 | 1397 | 1887 | 2377 | 2867 | 3357 | 3848 | 4338 | 4828 | 5319 | 5889 | 6300 | 6791 | 7281 | 24 | 20 | 3 1128 |
| 172 | 21 | 9510 | 9999 | 0489 | 0979 | 1469 | 1958 | 2448 | 2938 | 3428 | 3919 | 4489 | 4899 | 5390 | 5880 | 6371 | 6862 | 7352 | 25 | 21 | 1200 |
| 180 | 22 | 9581 | 0071 | 0561 | 1050 | 1540 | 2030 | 2520 | 3010 | 3508 | 3990 | 4480 | 4970 | 5461 | 5951 | 6442 | 6933 | 7423 | 27 | 22 | 1272 |
| 188 | 23 | 0653 | 0142 | 0632 | 1122 | 1611 | 2101 | 2591 | 3081 | 3571 | 4061 | 4551 | 5042 | 5532 | 6022 | 6513 | 7084 | 7494 | 28 | 23 | 1344 |
| 196 | 24 | 9725 | 0214 | 0704 | 1193 | 1683 | 2173 | 2662 | 3152 | 3642 | 4132 | 4623 | 5113 | 5603 | 6094 | 6584 | 7075 | 7565 | 29 | 24 | 1417 |
| 204 | 25 | 3 (4) 9796 | 0286 | 0775 | 1265 | 1754 | 2214 | 2731 | 3224 | 3714 | 4204 | 4694 | 5184 | 5675 | 6165 | 6655 | 7146 | 7636 | 30 | 25 | 3 1489 |
| 212 | 26 | 9868 | 0358 | 0847 | 1337 | 1826 | 2316 | 2806 | 3296 | 3785 | 4275 | 4766 | 5256 | 5746 | 6236 | 6727 | 7217 | 7708 | 31 | 26 | 1562 |
| 221 | 27 | 9940 | 0430 | 0919 | 1408 | 1898 | 2388 | 2877 | 3367 | 3857 | 4347 | 4837 | 5327 | 5817 | 6308 | 6798 | 7989 | 7779 | 33 | 27 | 1634 |
| 229 | 28 | 4 0012 | 0502 | 0991 | 1480 | 1970 | 2159 | 2949 | 3439 | 3929 | 4419 | 4909 | 5399 | 5889 | 6379 | 6870 | 7368 | 7850 | 34 | 28 | 1707 |
| 237 | 29 | 0084 | 0574 | 1063 | 1552 | 2042 | 2531 | 3021 | 3511 | 4001 | 4490 | 4980 | 5470 | 5961 | 6451 | 6941 | 7431 | 7922 | 35 | 29 | 1780 |
| 245 | 30 | 4 0156 | 0646 | 1135 | 1624 | 2114 | 2603 | 3093 | 3583 | 4072 | 4562 | 5052 | 5542 | 6032 | 6523 | 7013 | 7503 | 7994 | 36 | 30 | 3 1852 |
| 253 | 31 | 0229 | 0710 | 1207 | 1697 | 2186 | 2675 | 3165 | 3655 | 4144 | 4634 | 5124 | 5614 | 6104 | 6594 | 7085 | 7575 | 8065 | 37 | 31 | 1925 |
| 261 | 32 | 0301 | 0790 | 1279 | 1769 | 2258 | 2748 | 3237 | 3727 | 4216 | 4706 | 5196 | 5686 | 6176 | 6666 | 7156 | 7647 | 8137 | 39 | 32 | 1990 |
| 270 | 33 | 0373 | 0863 | 1352 | 1841 | 2330 | 2820 | 3309 | 3799 | 4288 | 4778 | 5268 | 5756 | 6248 | 6738 | 7228 | 7718 | 8209 | 40 | 33 | 2071 |
| 278 | 34 | 0446 | 0935 | 1424 | 1913 | 2403 | 2092 | 3382 | 3871 | 4361 | 4850 | 5310 | 5830 | 6320 | 6810 | 7300 | 7790 | 8281 | 41 | 34 | 2144 |
| 286 | 35 | 4 0518 | 1008 | 1497 | 1986 | 2475 | 2964 | 3454 | 3943 | 4433 | 4923 | 5412 | 5982 | 6392 | 6882 | 7372 | 7862 | 0353 | 42 | 35 | 3 2217 |
| 294 | 36 | 0591 | 1080 | 1569 | 2058 | 2548 | 3037 | 3526 | 4016 | 4505 | 4995 | 5485 | 5974 | 6464 | 6954 | 7414 | 7935 | 8125 | 43 | 36 | 2291 |
| 302 | 37 | 0664 | 1153 | 1642 | 2131 | 2620 | 3109 | 3599 | 4088 | 4578 | 5067 | 5557 | 6047 | 6537 | 7027 | 7517 | 8807 | 8497 | 45 | 37 | 2364 |
| 310 | 38 | 0737 | 1226 | 1715 | 2204 | 2693 | 3182 | 3671 | 4161 | 4650 | 5140 | 5630 | 6119 | 6609 | 7099 | 7589 | 8079 | 8569 | 46 | 38 | 2438 |
| 319 | 39 | 0810 | 1298 | 1767 | 2277 | 2766 | 3255 | 3744 | 4233 | 4723 | 5212 | 5702 | 6192 | 6682 | 7171 | 7661 | 8151 | 8641 | 47 | 39 | 2511 |
| 327 | 40 | 4 0883 | 1371 | 1868 | 2349 | 2838 | 3328 | 3817 | 4306 | 4796 | 5285 | 5775 | 6264 | 6754 | 7214 | 7734 | 8224 | 8714 | 48 | 40 | 3 2585 |
| 335 | 41 | 0956 | 1444 | 1933 | 2422 | 2911 | 3401 | 3890 | 4379 | 4868 | 5358 | 5847 | 6337 | 6827 | 7316 | 7806 | 8296 | 8786 | 49 | 41 | 2658 |
| 343 | 42 | 1029 | 1518 | 2006 | 2495 | 2984 | 3473 | 3963 | 4452 | 4941 | 5431 | 5920 | 6410 | 6899 | 7389 | 7879 | 8369 | 8859 | 51 | 42 | 2732 |
| 351 | 43 | 1102 | 1591 | 2080 | 2568 | 3057 | 3546 | 4036 | 4525 | 5014 | 5503 | 5993 | 6482 | 6972 | 7462 | 7952 | 8442 | 8931 | 52 | 43 | 2806 |
| 359 | 44 | 1175 | 1661 | 2153 | 2642 | 3131 | 3620 | 4109 | 4598 | 5087 | 5576 | 6066 | 6555 | 7045 | 7535 | 8024 | 8514 | 9004 | 53 | 44 | 2880 |
| 368 | 45 | 4 1249 | 1737 | 2226 | 2715 | 3204 | 3693 | 4182 | 4671 | 5160 | 5650 | 6139 | 6628 | 7118 | 7608 | 8097 | 8587 | 9077 | 54 | 45 | 3 2954 |
| 376 | 46 | 1322 | 1811 | 2299 | 2788 | 3277 | 3766 | 4255 | 4744 | 5233 | 5723 | 6212 | 6781 | 7191 | 7681 | 8178 | 8660 | 9150 | 56 | 46 | 3028 |
| 384 | 47 | 1396 | 1884 | 2373 | 2862 | 3351 | 3839 | 4328 | 4817 | 5307 | 5796 | 6285 | 6775 | 7264 | 7754 | 8243 | 8733 | 9223 | 57 | 47 | 3102 |
| 392 | 48 | 1469 | 1958 | 2446 | 2935 | 3424 | 3913 | 4402 | 4891 | 5380 | 5869 | 6358 | 6843 | 7337 | 7827 | 8316 | 8806 | 9296 | 58 | 48 | 3177 |
| 400 | 49 | 1543 | 2032 | 2520 | 3009 | 3498 | 3986 | 4475 | 4964 | 5453 | 5943 | 6432 | 6921 | 7411 | 7900 | 8389 | 8879 | 9369 | 59 | 49 | 3251 |
| 408 | 50 | 4 1617 | 2105 | 2594 | 3882 | 3571 | 4060 | 4549 | 5038 | 5527 | 6016 | 6505 | 6994 | 7484 | 7973 | 8463 | 8952 | 9442 | 60 | 50 | 3 3325 |
| 417 | 61 | 1691 | 2179 | 2668 | 3156 | 3645 | 4131 | 4623 | 5111 | 5600 | 6090 | 6579 | 7068 | 7557 | 8047 | 8536 | 9026 | 9515 | 62 | 51 | 3400 |
| 425 | 62 | 1765 | 2253 | 2742 | 3230 | 3719 | 4207 | 4696 | 5185 | 5674 | 6163 | 6652 | 7141 | 7631 | 8120 | 8610 | 9099 | 9589 | 63 | 52 | 3474 |
| 433 | 53 | 1839 | 2397 | 2816 | 3304 | 3793 | 4281 | 4770 | 5259 | 5748 | 6237 | 6726 | 7215 | 7704 | 8194 | 8683 | 9172 | 9662 | 64 | 53 | 3549 |
| 441 | 54 | 1913 | 2401 | 2890 | 3378 | 3867 | 4355 | 4844 | 5333 | 5822 | 6311 | 6800 | 7289 | 7778 | 8267 | 8757 | 9246 | 9736 | 65 | 54 | 3624 |
| 449 | 56 | 4 1987 | 2475 | 2964 | 3452 | 3941 | 4429 | 4918 | 5407 | 5896 | 6384 | 6873 | 7363 | 7852 | 8341 | 8830 | 9320 | 9809 | 66 | 55 | 3 3699 |
| 457 | 56 | 2061 | 2650 | 3038 | 3526 | 4015 | 4503 | 4992 | 5481 | 5970 | 6458 | 6947 | 7436 | 7925 | 8415 | 8904 | 9393 | 9883 | 68 | 56 | 3774 |
| 466 | 67 | 2136 | 2624 | 3112 | 3601 | 4089 | 4577 | 5066 | 5555 | 6044 | 6532 | 7021 | 7510 | 7999 | 8189 | 8978 | 9467 | 9957 | 69 | 67 | 3849 |
| 474 | 58 | 4 (5) 2210 | 2698 | 3187 | 3675 | 4163 | 4652 | 5140 | 5629 | 6118 | 6606 | 7095 | 7584 | 8073 | 8563 | 9052 | 9541 | 0030 | 70 | 58 | 3924 |
| 482 | 69 | 2285 | 2773 | 3261 | 3749 | 4938 | 4726 | 5215 | 5703 | 6192 | 6681 | 7170 | 7658 | 8147 | 8637 | 9126 | 9615 | 0104 | 71 | 59 | 3999 |

| Tabla X. Número I para la suma de alturas aparentes y Numero III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Num. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 15° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 15° | Núm. |
| 0 | 0' | 3 (4) 4074 | 4561 | 5048 | 5535 | 6022 | 6509 | 6996 | 7483 | 7970 | 8457 | 8945 | 9432 | 9920 | 0400 | 0095 | 1303 | 1071 | 72 | 0' | 7 0225 |
| 8 | 1 | 4119 | 4636 | 5123 | 5610 | 6097 | 6584 | 7071 | 7558 | 8045 | 8532 | 9020 | 9507 | 9995 | 0483 | 0970 | 1458 | 1946 | 71 | 1 | 0155 |
| 16 | 2 | 4225 | 4712 | 5198 | 5685 | 6172 | 6659 | 7146 | 7533 | 8120 | 8607 | 9095 | 9582 | 0070 | 0558 | 1045 | 1533 | 2021 | 70 | 2 | 0084 |
| 24 | 3 | 4300 | 4787 | 5274 | 5760 | 6247 | 6734 | 7221 | 7708 | 8195 | 8683 | 9170 | 9657 | 0145 | 0633 | 1120 | 1608 | 2096 | 69 | 3 | 0014 |
| 32 | 4 | 4376 | 4862 | 5349 | 5836 | 6323 | 6809 | 7296 | 7784 | 8271 | 8758 | 9245 | 9733 | 0220 | 0708 | 1195 | 1583 | 2171 | 66 | 4 | 5 9943 |
| 41 | 5 | 3 (4) 4452 | 4938 | 5125 | 5911 | 6398 | 6885 | 7372 | 7859 | 8346 | 8833 | 9320 | 9808 | 0295 | 0783 | 1270 | 1758 | 2246 | 55 | 5 | 5 9872 |
| 49 | 6 | 4527 | 5014 | 5500 | 5987 | 6474 | 6961 | 7447 | 7934 | 8421 | 8909 | 9396 | 9883 | 0370 | 0058 | 1345 | 1833 | 2321 | 55 | 6 | 9801 |
| 57 | 7 | 4603 | 5090 | 5576 | 6063 | 6549 | 7036 | 7523 | 8010 | 8497 | 8984 | 9471 | 9959 | 0146 | 0933 | 1421 | 1908 | 2396 | 64 | 7 | 9730 |
| 65 | 8 | 4679 | 5165 | 5652 | 6138 | 6625 | 7112 | 7599 | 8086 | 8573 | 9060 | 9547 | 0034 | 0521 | 1009 | 1496 | 1984 | 2471 | 63 | 8 | 9559 |
| 73 | 9 | 4755 | 5211 | 5728 | 6214 | 6701 | 7188 | 7674 | 8161 | 8648 | 9135 | 9622 | 0109 | 0597 | 1004 | 1572 | 2059 | 2547 | 62 | 9 | 9588 |
| 81 | 10 | 3 (4) 4831 | 5317 | 5804 | 6290 | 6777 | 7264 | 7750 | 8237 | 8724 | 9211 | 9698 | 0185 | 0672 | 1160 | 1647 | 2134 | 2622 | 50 | 10 | 6 9517 |
| 89 | 11 | 4907 | 5393 | 5880 | 6366 | 6853 | 7340 | 7026 | 8313 | 8800 | 9287 | 9774 | 0261 | 0748 | 1235 | 1723 | 2210 | 2698 | 59 | 11 | 9445 |
| 97 | 12 | 4983 | 5470 | 5956 | 6442 | 6929 | 7416 | 7902 | 8389 | 8876 | 9363 | 9850 | 0337 | 0824 | 1311 | 1798 | 2286 | 2773 | 58 | 12 | 9374 |
| 105 | 13 | 5060 | 5546 | 6032 | 6519 | 7005 | 7492 | 7978 | 8465 | 8952 | 9439 | 9926 | 0413 | 0900 | 1387 | 1074 | 2361 | 2849 | 57 | 13 | 9302 |
| 113 | 14 | 5136 | 5622 | 6109 | 6595 | 7081 | 7568 | 8054 | 8541 | 9028 | 9515 | 0002 | 0489 | 0976 | 1463 | 1950 | 2437 | 2925 | 55 | 14 | 9231 |
| 122 | 15 | 3 (4) 5213 | 5699 | 6185 | 6671 | 7158 | 7644 | 8131 | 8617 | 9104 | 9591 | 0078 | 0565 | 1052 | 1539 | 2026 | 2513 | 3000 | 54 | 15 | 5 9159 |
| 130 | 16 | 5289 | 5775 | 6261 | 6748 | 7234 | 7721 | 8207 | 8694 | 9180 | 9667 | 0154 | 0641 | 1128 | 1615 | 2102 | 2589 | 3976 | 53 | 16 | 9088 |
| 138 | 17 | 5366 | 5852 | 6338 | 6824 | 7311 | 7797 | 8283 | 8770 | 9256 | 9743 | 0230 | 0717 | 1204 | 1691 | 2178 | 2555 | 3153 | 52 | 17 | 9016 |
| 146 | 18 | 5443 | 5929 | 6415 | 6901 | 7387 | 7873 | 8360 | 8846 | 9333 | 9820 | 0306 | 0793 | 1280 | 1767 | 2254 | 2741 | 3229 | 51 | 18 | 8944 |
| 154 | 19 | 5519 | 6005 | 6491 | 6978 | 7464 | 7950 | 8436 | 8923 | 9409 | 9896 | 0383 | 0870 | 1356 | 1843 | 2330 | 2818 | 3305 | 50 | 19 | 8872 |
| 162 | 20 | 3 (4) 5596 | 6082 | 6568 | 7054 | 7540 | 8027 | 8513 | 8999 | 9186 | 9973 | 0459 | 0946 | 1433 | 1920 | 2407 | 2894 | 3301 | 48 | 20 | 6 8800 |
| 170 | 21 | 5673 | 6159 | 6645 | 7131 | 7517 | 8104 | 8590 | 9076 | 9563 | 0049 | 0536 | 1023 | 1509 | 1996 | 2483 | 2970 | 3457 | 47 | 21 | 8728 |
| 178 | 22 | 5750 | 6236 | 6722 | 7208 | 7694 | 8180 | 8657 | 9153 | 9639 | 0126 | 0613 | 1099 | 1586 | 2073 | 2560 | 3047 | 3534 | 46 | 22 | 8656 |
| 186 | 23 | 5827 | 6313 | 6799 | 7285 | 7771 | 8257 | 8744 | 9230 | 9716 | 0203 | 0689 | 1176 | 1663 | 2149 | 2635 | 3123 | 3610 | 45 | 23 | 8583 |
| 194 | 24 | 6905 | 6390 | 6876 | 7362 | 7848 | 8334 | 8820 | 9307 | 9793 | 0280 | 0766 | 1253 | 1739 | 2226 | 2713 | 3200 | 3687 | 44 | 24 | 8511 |
| 203 | 25 | 3 (4) 5982 | 6468 | 6953 | 7439 | 7925 | 8411 | 8897 | 9384 | 9870 | 0357 | 0843 | 1329 | 1816 | 2303 | 2790 | 3277 | 3763 | 42 | 25 | 6 8438 |
| 211 | 26 | 6059 | 6545 | 7031 | 7517 | 8003 | 8489 | 8975 | 9461 | 9947 | 0434 | 0920 | 1406 | 1093 | 2380 | 2867 | 3353 | 3040 | 41 | 25 | 8366 |
| 219 | 27 | 6137 | 6622 | 7108 | 7594 | 8080 | 8566 | 9052 | 9538 | 0024 | 0511 | 0997 | 1484 | 1970 | 2457 | 2943 | 3430 | 3917 | 40 | 27 | 8293 |
| 227 | 28 | 5214 | 6700 | 7186 | 7671 | 8157 | 8643 | 9129 | 9615 | 0101 | 0588 | 1074 | 1561 | 2047 | 2534 | 3020 | 3507 | 3994 | 39 | 28 | 8220 |
| 235 | 29 | 6292 | 6777 | 7263 | 7749 | 8235 | 8721 | 9207 | 9693 | 0179 | 0665 | 1151 | 1638 | 2124 | 2611 | 3027 | 3504 | 4071 | 37 | 29 | 8148 |
| 243 | 30 | 3 (4) 6370 | 6856 | 7341 | 7826 | 8312 | 8798 | 9284 | 9770 | 0256 | 0742 | 1229 | 1715 | 2201 | 2688 | 3175 | 3561 | 4148 | 36 | 30 | 6 8075 |
| 251 | 31 | 6447 | 6933 | 7418 | 7904 | 8390 | 8876 | 9362 | 9848 | 0334 | 0820 | 1303 | 1792 | 2279 | 2765 | 3252 | 3739 | 4225 | 35 | 31 | 8002 |
| 259 | 32 | 6525 | 7011 | 7496 | 7982 | 8467 | 8953 | 9439 | 9925 | 0411 | 0897 | 1384 | 1870 | 2366 | 2843 | 3329 | 3816 | 4302 | 34 | 32 | 7922 |
| 267 | 33 | 6603 | 7090 | 7574 | 8060 | 8545 | 9031 | 9517 | 0003 | 0489 | 0975 | 1461 | 1947 | 2434 | 2920 | 3406 | 3893 | 4380 | 33 | 33 | 7856 |
| 275 | 34 | 6681 | 7167 | 7652 | 8138 | 8623 | 9109 | 9525 | 0081 | 0567 | 1053 | 1539 | 2025 | 2511 | 2998 | 3484 | 3970 | 4467 | 31 | 34 | 7782 |
| 284 | 35 | 3 (4) 6759 | 7245 | 7730 | 0216 | 8701 | 9187 | 9673 | 0158 | 0644 | 1130 | 1615 | 2103 | 2589 | 3075 | 3562 | 4048 | 4535 | 30 | 35 | 6 7709 |
| 292 | 36 | 6837 | 7323 | 7808 | 8294 | 8779 | 9265 | 9751 | 0236 | 0722 | 1208 | 1694 | 2180 | 2667 | 3153 | 3639 | 4126 | 4612 | 29 | 36 | 7636 |
| 300 | 37 | 6916 | 7401 | 7886 | 8372 | 8857 | 9343 | 9829 | 0314 | 0800 | 1286 | 1772 | 2258 | 2744 | 3231 | 3717 | 4203 | 4690 | 28 | 37 | 7562 |
| 308 | 38 | 6994 | 7479 | 7965 | 8450 | 8935 | 9421 | 9907 | 0392 | 0878 | 1364 | 1850 | 2336 | 2822 | 3308 | 3795 | 4281 | 4768 | 27 | 38 | 7489 |
| 316 | 39 | 7072 | 7558 | 8043 | 8528 | 9014 | 9499 | 9985 | 0471 | 0956 | 1412 | 1928 | 2414 | 2900 | 3386 | 3873 | 4359 | 4845 | 25 | 39 | 7415 |
| 324 | 40 | 3 (4) 7151 | 7636 | 8121 | 8607 | 9092 | 9578 | 0063 | 0549 | 1034 | 1520 | 2006 | 2492 | 2978 | 3464 | 3951 | 4437 | 4923 | 24 | 40 | 6 7342 |
| 332 | 41 | 7230 | 7715 | 8200 | 8685 | 9170 | 9656 | 0141 | 0627 | 1113 | 1599 | 2084 | 2570 | 3056 | 3542 | 4029 | 4515 | 5001 | 23 | 41 | 7268 |
| 340 | 42 | 7308 | 7723 | 8278 | 8764 | 9249 | 9734 | 0220 | 0705 | 1191 | 1677 | 2163 | 2649 | 3135 | 3621 | 4107 | 4593 | 5079 | 22 | 42 | 7194 |
| 348 | 43 | 7387 | 7872 | 8357 | 8812 | 9328 | 9813 | 0298 | 0784 | 1270 | 1755 | 2241 | 2727 | 3213 | 3699 | 4185 | 4671 | 5157 | 21 | 43 | 7120 |
| 356 | 44 | 7466 | 7951 | 8436 | 8921 | 9406 | 9822 | 0377 | 0862 | 1348 | 1834 | 2319 | 2805 | 3291 | 3777 | 4263 | 4749 | 5235 | 19 | 44 | 7046 |
| 365 | 45 | 3 (4) 7545 | 8030 | 8515 | 9000 | 9485 | 9970 | 0456 | 0941 | 1427 | 1912 | 2398 | 2884 | 3370 | 3856 | 4342 | 4820 | 5314 | 10 | 45 | 6 5972 |
| 373 | 46 | 7624 | 8109 | 8594 | 9079 | 2564 | 0049 | 0534 | 1920 | 1505 | 1991 | 2477 | 2962 | 3448 | 3934 | 4420 | 4996 | 5392 | 17 | 46 | 5898 |
| 381 | 47 | 7703 | 8188 | 8673 | 9158 | 9643 | 0128 | 0613 | 1099 | 1584 | 2070 | 2555 | 3041 | 3527 | 4013 | 4499 | 4904 | 5471 | 15 | 47 | 6823 |
| 389 | 48 | 7782 | 8267 | 8752 | 9237 | 9722 | 0207 | 0692 | 1178 | 1663 | 2148 | 2634 | 3120 | 3605 | 4091 | 4577 | 5063 | 5549 | 14 | 40 | 6749 |
| 397 | 49 | 7861 | 8346 | 8831 | 9316 | 9801 | 0286 | 0771 | 1257 | 1742 | 2227 | 2713 | 3198 | 3684 | 4170 | 4656 | 5142 | 5628 | 13 | 49 | 6675 |
| 405 | 50 | 3 (4) 7941 | 8425 | 8910 | 9395 | 9880 | 0365 | 0850 | 1336 | 1821 | 2306 | 2792 | 3277 | 3763 | 4249 | 4735 | 5220 | 5706 | 12 | 50 | 6 6600 |
| 413 | 51 | 8020 | 8505 | 8989 | 9474 | 9959 | 0444 | 0930 | 1415 | 1900 | 2385 | 2871 | 3356 | 3842 | 4328 | 4813 | 5299 | 5785 | 11 | 51 | 6526 |
| 421 | 52 | 8099 | 8584 | 9069 | 9554 | 0039 | 0624 | 1009 | 1494 | 1979 | 2464 | 2950 | 3435 | 3921 | 4407 | 4892 | 5378 | 5864 | 10 | 52 | 6451 |
| 429 | 53 | 8179 | 8664 | 9148 | 9633 | 0118 | 0603 | 1088 | 1673 | 2058 | 2544 | 3029 | 3515 | 4000 | 4406 | 4971 | 5457 | 5943 | 8 | 53 | 6376 |
| 437 | 54 | 8259 | 8743 | 9228 | 9713 | 0198 | 0682 | 1167 | 1653 | 2138 | 2623 | 3108 | 3594 | 4079 | 4563 | 5050 | 5536 | 6022 | 7 | 54 | 6301 |
| 446 | 55 | 3 (4) 8338 | 8823 | 9308 | 9792 | 0277 | 0762 | 1247 | 1732 | 2217 | 2702 | 3188 | 3673 | 4158 | 4544 | 5130 | 5615 | 5101 | 6 | 55 | 6 6226 |
| 454 | 56 | 8418 | 8203 | 9387 | 9872 | 0357 | 0842 | 1326 | 1811 | 2297 | 2782 | 3267 | 3752 | 4238 | 4723 | 5209 | 5695 | 6180 | 5 | 56 | 6151 |
| 462 | 57 | 8498 | 8983 | 9467 | 9952 | 0437 | 0921 | 1406 | 1821 | 2376 | 2861 | 3346 | 3832 | 4317 | 4803 | 5288 | 5774 | 5259 | 4 | 57 | 6076 |
| 470 | 58 | 8578 | 9063 | 9547 | 0032 | 0516 | 1001 | 1486 | 1971 | 2456 | 2941 | 3426 | 3911 | 4397 | 4882 | 5360 | 5853 | 6339 | 2 | 58 | 6001 |
| 478 | 59 | 8658 | 9143 | 9627 | 0112 | 0596 | 1081 | 1566 | 2051 | 2536 | 3021 | 3506 | 3991 | 4476 | 4962 | 5447 | 5933 | 6418 | 1 | 59 | 5926 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — **Num. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 15° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 96′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 15° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 4 (5) 2359 | 2847 | 3335 | 3824 | 4312 | 4800 | 5989 | 5777 | 6266 | 6755 | 7244 | 7733 | 8299 | 8711 | 9200 | 9689 | 0178 | 0 | 0′ | 3 4074 |
| 8 | 1 | 2434 | 2922 | 3410 | 3898 | 4387 | 4875 | 5363 | 5852 | 6341 | 6829 | 7318 | 7807 | 8296 | 8785 | 9274 | 9763 | 0252 | 1 | 1 | 4150 |
| 16 | 2 | 2509 | 2997 | 3485 | 3973 | 4461 | 4949 | 5438 | 5926 | 6415 | 6904 | 7392 | 7881 | 8370 | 8859 | 9348 | 9837 | 0397 | 3 | 2 | 4995 |
| 24 | 3 | 2583 | 3072 | 3560 | 4048 | 4536 | 5024 | 5513 | 6001 | 6490 | 6978 | 7467 | 7956 | 8445 | 8934 | 9493 | 9912 | 0401 | 4 | 3 | 4300 |
| 33 | 4 | 2658 | 3146 | 3634 | 4122 | 4611 | 5099 | 5587 | 6076 | 6564 | 7053 | 7541 | 8030 | 8519 | 9008 | 9497 | 2986 | 0475 | 5 | 4 | 4376 |
| 41 | 5 | 4 (5) 2733 | 3221 | 3709 | 4197 | 4686 | 5174 | 5662 | 6150 | 6639 | 7127 | 7616 | 8105 | 8593 | 9082 | 9571 | 0060 | 0550 | 6 | 5 | 3 4452 |
| 49 | 6 | 2809 | 3296 | 3784 | 4272 | 4760 | 5249 | 5737 | 6225 | 6714 | 7202 | 7691 | 8179 | 8668 | 9157 | 9646 | 0135 | 0624 | 8 | 6 | 4527 |
| 57 | 7 | 2884 | 3371 | 3859 | 4347 | 4835 | 5324 | 5812 | 6300 | 6789 | 7277 | 7766 | 8254 | 8743 | 9232 | 9721 | 0210 | 0699 | 9 | 7 | 4603 |
| 65 | 8 | 2959 | 3446 | 3935 | 4493 | 4911 | 5399 | 5887 | 6375 | 6864 | 7352 | 7840 | 8329 | 8818 | 9306 | 9795 | 0284 | 0773 | 10 | 8 | 4679 |
| 73 | 9 | 3034 | 3529 | 4010 | 4498 | 4986 | 5474 | 5962 | 6450 | 6939 | 7427 | 7915 | 8404 | 8893 | 9381 | 9870 | 0359 | 0848 | 12 | 9 | 4755 |
| 81 | 10 | 4 (5) 3110 | 3597 | 4085 | 4573 | 5061 | 5549 | 6037 | 6525 | 7014 | 7502 | 7990 | 8479 | 8968 | 9456 | 9945 | 0434 | 0923 | 13 | 10 | 3 4831 |
| 89 | 11 | 3185 | 3673 | 4161 | 4648 | 5136 | 5624 | 6112 | 6601 | 7089 | 7577 | 8066 | 8554 | 9043 | 9531 | 0020 | 0589 | 0998 | 14 | 11 | 4907 |
| 98 | 12 | 3261 | 3748 | 4236 | 4724 | 5219 | 5700 | 6188 | 6676 | 7164 | 7652 | 8141 | 8629 | 9118 | 9606 | 0025 | 0584 | 1073 | 15 | 12 | 4984 |
| 106 | 13 | 3336 | 3824 | 4312 | 4799 | 5287 | 5775 | 6263 | 6751 | 7239 | 7728 | 8216 | 8704 | 9123 | 9681 | 0170 | 0659 | 1148 | 17 | 13 | 5060 |
| 114 | 14 | 3412 | 3900 | 4387 | 4875 | 5363 | 5851 | 6339 | 6897 | 7315 | 7803 | 8291 | 8780 | 9268 | 9757 | 0245 | 0734 | 1223 | 18 | 14 | 5136 |
| 122 | 15 | 4 (5) 3488 | 3976 | 4463 | 4951 | 5438 | 5926 | 6414 | 6909 | 7390 | 7878 | 8367 | 8855 | 9343 | 9832 | 0321 | 0809 | 1298 | 19 | 15 | 3 5213 |
| 130 | 16 | 3564 | 4051 | 4539 | 5027 | 5514 | 6002 | 6490 | 6978 | 7466 | 7954 | 8442 | 8931 | 9419 | 2907 | 0396 | 0884 | 1373 | 21 | 16 | 5282 |
| 138 | 17 | 3640 | 4127 | 4615 | 5102 | 5590 | 6078 | 6566 | 7054 | 7542 | 8030 | 8518 | 9006 | 2494 | 2983 | 0471 | 0960 | 1449 | 22 | 17 | 5366 |
| 146 | 18 | 3716 | 4203 | 4691 | 5178 | 5666 | 6154 | 6641 | 7199 | 7617 | 8105 | 8593 | 9089 | 9570 | 0058 | 0547 | 1035 | 1524 | 23 | 18 | 5443 |
| 154 | 12 | 3792 | 4279 | 4767 | 5254 | 5749 | 6930 | 6717 | 7205 | 7693 | 8181 | 8669 | 9157 | 9646 | 0134 | 0622 | 1111 | 1599 | 25 | 19 | 5519 |
| 163 | 20 | 4 (5) 3868 | 4356 | 4843 | 5330 | 5818 | 6306 | 6793 | 7281 | 7769 | 8257 | 8745 | 9233 | 9721 | 0210 | 0698 | 1187 | 1675 | 26 | 20 | 3 5596 |
| 171 | 91 | 3945 | 4432 | 4919 | 5407 | 5894 | 6382 | 6869 | 7357 | 7845 | 8333 | 8821 | 9309 | 9797 | 0285 | 0774 | 1962 | 1751 | 27 | 21 | 5673 |
| 179 | 22 | 4021 | 4508 | 4995 | 5483 | 5970 | 6458 | 6946 | 7433 | 7921 | 8409 | 8897 | 9385 | 2873 | 0361 | 0850 | 1338 | 1826 | 28 | 22 | 5750 |
| 187 | 23 | 4097 | 4585 | 5072 | 5559 | 6047 | 6534 | 7022 | 7509 | 7997 | 8485 | 8973 | 9461 | 9949 | 0437 | 0926 | 1414 | 1909 | 30 | 23 | 5827 |
| 195 | 24 | 4174 | 4661 | 5148 | 5636 | 6123 | 6611 | 7098 | 7586 | 8073 | 8561 | 9049 | 9537 | 0025 | 0513 | 1009 | 1490 | 1978 | 31 | 24 | 5905 |
| 203 | 25 | 4 (5) 4251 | 4738 | 5225 | 5712 | 6200 | 6687 | 7175 | 7662 | 8150 | 8638 | 9125 | 9613 | 0101 | 0589 | 1078 | 1566 | 2054 | 32 | 25 | 3 5982 |
| 211 | 26 | 4327 | 4814 | 5309 | 5789 | 6276 | 6763 | 7951 | 7739 | 8926 | 8714 | 9202 | 9690 | 0178 | 0666 | 1154 | 1642 | 2130 | 34 | 96 | 6059 |
| 219 | 27 | 4404 | 4891 | 5378 | 5865 | 6353 | 6840 | 7328 | 7815 | 8303 | 8790 | 9278 | 9766 | 0254 | 0742 | 1230 | 1718 | 2206 | 35 | 27 | 6137 |
| 928 | 28 | 4481 | 4968 | 5455 | 5942 | 6429 | 6917 | 7404 | 7892 | 8379 | 6867 | 9355 | 9842 | 0330 | 0818 | 1306 | 1795 | 2283 | 36 | 28 | 6214 |
| 236 | 29 | 4558 | 5045 | 5532 | 6019 | 6506 | 6994 | 7481 | 7968 | 8456 | 8943 | 9431 | 9919 | 0407 | 0895 | 1383 | 1871 | 2359 | 37 | 29 | 6229 |
| 244 | 30 | 4 (5) 4635 | 5122 | 5609 | 6096 | 6583 | 7070 | 7558 | 8045 | 8533 | 9020 | 9508 | 9996 | 0483 | 0971 | 1459 | 1947 | 2435 | 39 | 30 | 3 6370 |
| 252 | 31 | 4712 | 5199 | 5686 | 6173 | 6660 | 7147 | 7635 | 8192 | 8609 | 9097 | 9585 | 0072 | 0560 | 1048 | 1536 | 9024 | 2512 | 40 | 31 | 6447 |
| 260 | 32 | 4789 | 5276 | 5763 | 6250 | 6737 | 7224 | 7712 | 8199 | 8686 | 9174 | 9661 | 0149 | 0637 | 1125 | 1612 | 9100 | 2588 | 41 | 32 | 6525 |
| 268 | 33 | 4867 | 5353 | 5840 | 6327 | 6814 | 7301 | 7789 | 8976 | 8763 | 9251 | 9738 | 0996 | 0713 | 1201 | 1689 | 2177 | 2665 | 43 | 33 | 6603 |
| 276 | 34 | 4944 | 5431 | 5917 | 6404 | 6891 | 7379 | 7866 | 8353 | 8840 | 9328 | 9815 | 0303 | 0790 | 1278 | 1766 | 2254 | 2742 | 44 | 34 | 6681 |
| 984 | 35 | 4 (5) 5091 | 5508 | 5995 | 6482 | 6969 | 7456 | 7943 | 8430 | 8917 | 9405 | 9892 | 0380 | 0867 | 1355 | 1843 | 2331 | 2819 | 45 | 35 | 3 6759 |
| 293 | 36 | 5099 | 5585 | 6079 | 6559 | 7046 | 7533 | 8020 | 8507 | 8995 | 9482 | 9969 | 0457 | 0944 | 1132 | 1920 | 2408 | 2896 | 46 | 36 | 6837 |
| 301 | 37 | 5176 | 5663 | 6150 | 6637 | 7194 | 7610 | 8097 | 8585 | 9072 | 9559 | 0047 | 0534 | 1022 | 1509 | 1997 | 2485 | 2972 | 48 | 37 | 6916 |
| 309 | 38 | 5254 | 5741 | 6927 | 6714 | 7201 | 7688 | 8175 | 8662 | 9149 | 9637 | 0124 | 0611 | 1099 | 1586 | 2074 | 2562 | 3050 | 49 | 38 | 6994 |
| 317 | 39 | 5339 | 5818 | 6305 | 6792 | 7979 | 7766 | 8952 | 8739 | 9297 | 9714 | 0201 | 0689 | 1176 | 1664 | 2151 | 9639 | 3127 | 50 | 39 | 7072 |
| 325 | 40 | 4 (6) 5410 | 5896 | 6383 | 6869 | 7356 | 7843 | 8330 | 8817 | 9304 | 9791 | 0279 | 0766 | 1253 | 1741 | 2228 | 2716 | 3204 | 52 | 40 | 3 7151 |
| 333 | 41 | 5488 | 5974 | 6461 | 6947 | 7434 | 7921 | 8408 | 8895 | 9382 | 9869 | 0456 | 0843 | 1331 | 1818 | 2306 | 2793 | 3281 | 53 | 41 | 7230 |
| 341 | 42 | 5566 | 6052 | 6539 | 7025 | 7519 | 7999 | 8485 | 8972 | 9459 | 9947 | 0434 | 0921 | 1408 | 1896 | 2383 | 2871 | 3358 | 54 | 42 | 7308 |
| 349 | 43 | 5644 | 6130 | 6617 | 7103 | 7590 | 8077 | 8563 | 9050 | 9537 | 0021 | 0511 | 0999 | 1486 | 1973 | 2461 | 2948 | 3436 | 56 | 43 | 7387 |
| 358 | 44 | 5792 | 6208 | 6695 | 7181 | 7668 | 8155 | 8641 | 9198 | 9615 | 0102 | 0589 | 1076 | 1564 | 9051 | 2538 | 3026 | 3514 | 57 | 44 | 7466 |
| 366 | 45 | 4 (6) 5800 | 6286 | 6773 | 7959 | 7746 | 8232 | 8719 | 9206 | 9623 | 0180 | 0667 | 1154 | 1641 | 2129 | 2616 | 3104 | 3591 | 58 | 45 | 3 7545 |
| 374 | 46 | 5878 | 6365 | 6851 | 7338 | 7894 | 8311 | 8797 | 9984 | 9771 | 0258 | 0745 | 1239 | 1719 | 9907 | 2694 | 3181 | 3669 | 59 | 46 | 7694 |
| 382 | 47 | 5957 | 6443 | 6929 | 7416 | 7909 | 8389 | 8876 | 9369 | 9849 | 0336 | 0823 | 1310 | 1797 | 2284 | 2772 | 3259 | 3746 | 61 | 47 | 7703 |
| 390 | 48 | 6035 | 6592 | 7008 | 7494 | 7981 | 8167 | 8954 | 9140 | 9927 | 0414 | 0901 | 1388 | 1875 | 2362 | 2850 | 3337 | 3824 | 62 | 48 | 7789 |
| 398 | 49 | 6114 | 6600 | 7086 | 7573 | 8059 | 8546 | 9039 | 9519 | 0006 | 0492 | 0979 | 1466 | 1953 | 2440 | 2928 | 3415 | 3902 | 63 | 49 | 7861 |
| 406 | 50 | 4 (5) 6192 | 6672 | 7165 | 7651 | 8138 | 8624 | 9110 | 9597 | 0084 | 0571 | 1057 | 1544 | 2031 | 2518 | 3006 | 3493 | 3980 | 65 | 50 | 3 7941 |
| 414 | 51 | 6271 | 6757 | 7243 | 7730 | 8216 | 8702 | 9189 | 2676 | 0162 | 0649 | 1136 | 1623 | 2110 | 9597 | 3084 | 3571 | 4058 | 66 | 51 | 8020 |
| 423 | 52 | 6350 | 6836 | 7322 | 7808 | 8295 | 8781 | 9968 | 9754 | 0241 | 0797 | 1214 | 1701 | 2189 | 2675 | 3162 | 3619 | 4136 | 67 | 52 | 8099 |
| 431 | 53 | 6422 | 6915 | 7401 | 7887 | 8373 | 8860 | 9346 | 9833 | 0319 | 0806 | 1293 | 1779 | 2267 | 9753 | 3940 | 3728 | 4215 | 68 | 53 | 8179 |
| 439 | 54 | 6508 | 6994 | 7480 | 7966 | 8452 | 8939 | 9425 | 9911 | 0398 | 0884 | 1371 | 1858 | 9345 | 2839 | 3319 | 3806 | 4293 | 70 | 54 | 8259 |
| 447 | 65 | 4 (5) 6587 | 7073 | 7559 | 8045 | 8531 | 9017 | 9504 | 9990 | 0477 | 0963 | 1450 | 1937 | 2423 | 2210 | 3397 | 3884 | 4372 | 71 | 55 | 3 8338 |
| 455 | 56 | 6666 | 7152 | 7638 | 8124 | 8610 | 9096 | 9583 | 0069 | 0555 | 1042 | 1529 | 2015 | 2502 | 2989 | 3476 | 3963 | 4450 | 72 | 56 | 8418 |
| 463 | 57 | 6745 | 7231 | 7717 | 8203 | 8689 | 9175 | 9662 | 0148 | 0634 | 1121 | 1607 | 2094 | 2581 | 3068 | 3555 | 4041 | 4599 | 74 | 67 | 8498 |
| 471 | 58 | 6825 | 7310 | 7796 | 8282 | 8768 | 9254 | 9741 | 0227 | 0713 | 1200 | 1686 | 2173 | 2660 | 3146 | 3633 | 4120 | 4607 | 75 | 58 | 8578 |
| 479 | 59 | 6904 | 7390 | 7876 | 8362 | 8848 | 2334 | 9890 | 0306 | 0792 | 1279 | 1765 | 2252 | 2739 | 3225 | 3712 | 4199 | 4686 | 76 | 59 | 8658 |

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**Tabla X.** Número I para la suma de alturas aparentes, y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 16° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos | 16° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 3 (4) 0738 | 9223 | 9707 | 0192 | 0676 | 1161 | 1646 | 2130 | 2615 | 3100 | 3585 | 4071 | 4556 | 5841 | 5327 | 6012 | 6498 | 77 | 0' | 6 5050 |
| 8 | 1 | 8819 | 9303 | 9787 | 0272 | 0756 | 1241 | 1726 | 2210 | 2695 | 3180 | 3665 | 4150 | 4636 | 5121 | 5606 | 6092 | 6577 | 76 | 1 | 6775 |
| 16 | 2 | 8899 | 9383 | 9867 | 0352 | 0836 | 1391 | 1806 | 2290 | 2775 | 3260 | 3745 | 4230 | 4715 | 5201 | 5686 | 6171 | 6657 | 75 | 2 | 5700 |
| 24 | 3 | 0979 | 9463 | 9948 | 0432 | 0917 | 1401 | 1886 | 2371 | 2855 | 3340 | 3825 | 4310 | 1795 | 5281 | 5766 | 6251 | 6737 | 74 | 3 | 5624 |
| 32 | 4 | 9060 | 9544 | 0028 | 0512 | 0997 | 1481 | 1966 | 2451 | 2935 | 3420 | 3905 | 4390 | 4875 | 5361 | 5846 | 6331 | 6815 | 72 | 4 | 5548 |
| 40 | 5 | 3 (4; 9140 | 9624 | 0109 | 8593 | 1077 | 1562 | 2046 | 5531 | 3016 | 3501 | 3985 | 4470 | 4955 | 5441 | 5926 | 6411 | 6896 | 71 | 5 | 6 5473 |
| 48 | 6 | 9291 | 9705 | 0189 | 8673 | 1158 | 1642 | 2127 | 2611 | 3096 | 3581 | 4066 | 4551 | 5036 | 5521 | 6006 | 6491 | 6976 | 70 | 6 | 5397 |
| 57 | 7 | 9301 | 9786 | 0270 | 0751 | 1238 | 1723 | 2207 | 2692 | 3176 | 3661 | 4146 | 4631 | 5116 | 5601 | 6086 | 6571 | 7056 | 68 | 7 | 5321 |
| 65 | 8 | 9382 | 9866 | 0350 | 0835 | 1319 | 1803 | 2288 | 2772 | 3957 | 3742 | 4226 | 4711 | 5196 | 5681 | 5166 | 6651 | 7137 | 67 | 8 | 5245 |
| 73 | 9 | 9463 | 9947 | 8431 | 0915 | 1400 | 1884 | 2368 | 2853 | 3337 | 3822 | 4307 | 4792 | 5276 | 5761 | 6246 | 6732 | 7217 | 66 | 9 | 5169 |
| 81 | 10 | 3 (4) 9544 | 0028 | 0512 | 0996 | 1480 | 1965 | 2449 | 2934 | 3418 | 3903 | 4387 | 4872 | 5357 | 5842 | 6327 | 6812 | 7297 | 65 | 10 | 6 5093 |
| 89 | 11 | 9695 | 0109 | 0593 | 1077 | 1561 | 2846 | 2530 | 3014 | 3499 | 3983 | 4468 | 4953 | 5437 | 5922 | 6407 | 6892 | 7377 | 63 | 11 | 5016 |
| 97 | 19 | 9706 | 0190 | 0674 | 1158 | 1642 | 2196 | 2611 | 3095 | 3579 | 4064 | 4549 | 5833 | 5518 | 6003 | 6488 | 6973 | 7458 | 62 | 12 | 4940 |
| 105 | 13 | 9787 | 0271 | 0755 | 1239 | 1723 | 2207 | 2692 | 3176 | 3660 | 4145 | 4629 | 5114 | 5599 | 6084 | 6568 | 7053 | 7538 | 61 | 13 | 4864 |
| 113 | 14 | 9869 | 0353 | 0836 | 1320 | 1804 | 2289 | 2773 | 3257 | 3741 | 4226 | 4710 | 5195 | 5680 | 6164 | 6649 | 7134 | 7619 | 59 | 14 | 4787 |
| 121 | 15 | 3 (4) 9950 | 0434 | 0918 | 1402 | 1886 | 2370 | 2854 | 3338 | 3822 | 4307 | 4791 | 5276 | 5760 | 6245 | 6730 | 7215 | 7700 | 58 | 15 | 6 4711 |
| 129 | 16 | 1 0032 | 0515 | 0999 | 1483 | 1967 | 2451 | 2935 | 3419 | 3903 | 4388 | 4872 | 5357 | 5841 | 6326 | 6811 | 7296 | 7781 | 57 | 16 | 4634 |
| 137 | 17 | 0113 | 0597 | 1080 | 1564 | 2048 | 2532 | 3016 | 3500 | 3985 | 4469 | 4953 | 5438 | 5922 | 6407 | 6892 | 7377 | 7861 | 56 | 17 | 4557 |
| 145 | 18 | 0195 | 0678 | 1162 | 1646 | 2130 | 2614 | 3098 | 3589 | 4066 | 4550 | 5035 | 5519 | 6003 | 6488 | 6973 | 7458 | 7942 | 64 | 18 | 4481 |
| 153 | 19 | 8276 | 0760 | 1244 | 1727 | 2211 | 2695 | 3179 | 3663 | 4147 | 4632 | 5116 | 5600 | 6085 | 6569 | 7054 | 7539 | 8023 | 53 | 19 | 4404 |
| 161 | 20 | 4 0358 | 0842 | 1325 | 1809 | 2293 | 2777 | 3261 | 3745 | 4299 | 4713 | 5197 | 5689 | 6166 | 6650 | 7135 | 7620 | 8104 | 52 | 20 | 6 4327 |
| 169 | 21 | 0440 | 0923 | 1407 | 1891 | 2374 | 2858 | 3342 | 3826 | 4310 | 4794 | 5279 | 5763 | 6247 | 6732 | 7216 | 7701 | 8186 | 60 | 21 | 4258 |
| 178 | 22 | 0522 | 1005 | 1489 | 1972 | 2456 | 2940 | 3424 | 3908 | 1392 | 4876 | 5360 | 5844 | 6329 | 6813 | 7298 | 7782 | 8267 | 49 | 22 | 4173 |
| 186 | 93 | 0604 | 1087 | 1571 | 2054 | 9538 | 3022 | 3506 | 3989 | 4173 | 4958 | 5442 | 5926 | 6410 | 6895 | 7379 | 7864 | 8348 | 48 | 23 | 4895 |
| 194 | 24 | 0686 | 1169 | 1653 | 2136 | 2620 | 3104 | 3587 | 4071 | 4555 | 5039 | 5523 | 6008 | 6492 | 6976 | 7461 | 7945 | 8430 | 47 | 24 | 4018 |
| 282 | 25 | 4 0768 | 1251 | 1735 | 9218 | 9702 | 3186 | 3669 | 4153 | 4637 | 5121 | 5605 | 6089 | 6574 | 7058 | 7542 | 8027 | 8511 | 46 | 25 | 6 3941 |
| 210 | 26 | 8850 | 1334 | 1817 | 2301 | 2784 | 3268 | 3751 | 4235 | 4719 | 5203 | 5687 | 6171 | 6655 | 7140 | 7624 | 8108 | 8593 | 44 | 26 | 3063 |
| 218 | 27 | 0933 | 1416 | 1899 | 2383 | 2866 | 3358 | 3833 | 4317 | 4801 | 5285 | 5769 | 6253 | 6737 | 7921 | 7706 | 8190 | 8674 | 43 | 27 | 3786 |
| 226 | 28 | 1815 | 1498 | 1982 | 2465 | 2948 | 3439 | 3916 | 4399 | 4883 | 5367 | 5851 | 6335 | 6819 | 7303 | 7787 | 8272 | 8756 | 41 | 28 | 3788 |
| 234 | 29 | 1098 | 1581 | 2064 | 2547 | 3031 | 3514 | 3998 | 4482 | 4965 | 5449 | 5933 | 6417 | 6901 | 7385 | 7862 | 8354 | 8838 | 40 | 22 | 3630 |
| 242 | 30 | 4 1188 | 1663 | 2147 | 2630 | 3113 | 3597 | 4880 | 4564 | 5048 | 5531 | 6015 | 6499 | 6983 | 7467 | 7951 | 0436 | 8920 | 39 | 30 | 6 3553 |
| 950 | 31 | 1263 | 1746 | 2299 | 2712 | 3196 | 3679 | 4163 | 4646 | 5130 | 5614 | 6097 | 6581 | 7065 | 7549 | 8033 | 8518 | 9002 | 37 | 31 | 3475 |
| 958 | 32 | 1346 | 1829 | 2312 | 2795 | 3278 | 3762 | 4215 | 4729 | 5212 | 5696 | 6180 | 6664 | 7147 | 7631 | 8116 | 8600 | 9081 | 36 | 32 | 3397 |
| 266 | 33 | 1428 | 1911 | 2394 | 9878 | 3361 | 3844 | 4328 | 4811 | 5295 | 5778 | 6262 | 6746 | 7230 | 7714 | 8198 | 8682 | 9166 | 36 | 33 | 3319 |
| 274 | 34 | 1511 | 1994 | 2477 | 9960 | 3444 | 3927 | 4410 | 4894 | 5377 | 5861 | 6345 | 6828 | 7312 | 7796 | 8280 | 8764 | 9248 | 34 | 34 | 3241 |
| 282 | 35 | 4 1594 | 2077 | 2568 | 3043 | 3526 | 4010 | 4493 | 4976 | 5460 | 5944 | 6427 | 6911 | 7395 | 7879 | 0362 | 8847 | 9331 | 32 | 35 | 6 3163 |
| 290 | 36 | 1677 | 2160 | 2643 | 3126 | 3609 | 4093 | 4576 | 5059 | 5543 | 6026 | 6510 | 6993 | 7477 | 7961 | 8445 | 8929 | 9413 | 31 | 36 | 3004 |
| 299 | 37 | 1761 | 2243 | 2726 | 3209 | 3692 | 4176 | 4659 | 5142 | 5625 | 6109 | 6592 | 7076 | 7560 | 8044 | 8528 | 9012 | 9496 | 30 | 37 | 3006 |
| 307 | 38 | 1844 | 2327 | 9809 | 3292 | 3776 | 4259 | 1742 | 5225 | 5708 | 6192 | 6675 | 7159 | 7643 | 8126 | 8610 | 9094 | 9578 | 20 | 30 | 2928 |
| 315 | 39 | 1927 | 9418 | 2893 | 3376 | 3059 | 4349 | 4825 | 5308 | 5791 | 6275 | 6758 | 7242 | 7725 | 0209 | 8693 | 9177 | 9661 | 27 | 32 | 2849 |
| 323 | 40 | 1 2010 | 2493 | 2976 | 3459 | 3949 | 4425 | 4908 | 5391 | 5874 | 6358 | 6841 | 7325 | 7808 | 8292 | 8776 | 9260 | 9743 | 26 | 40 | 6 2778 |
| 331 | 41 | 2094 | 2577 | 3059 | 3542 | 4025 | 4508 | 4991 | 5474 | 5957 | 6441 | 6924 | 7408 | 7891 | 8375 | 8859 | 9342 | 9826 | 25 | 41 | 2692 |
| 339 | 42 | 2177 | 2668 | 3143 | 3626 | 4108 | 4591 | 5074 | 5557 | 6041 | 6524 | 7007 | 7491 | 7974 | 8458 | 8942 | 9496 | 9909 | 23 | 42 | 2613 |
| 347 | 43 | 2261 | 2744 | 3226 | 3709 | 4192 | 4674 | 5158 | 5641 | 6124 | 6607 | 7091 | 7674 | 8057 | 8541 | 9095 | 9508 | 9992 | 22 | 43 | 2634 |
| 355 | 44 | 4 (5) 2345 | 2897 | 3310 | 3793 | 4275 | 4758 | 3241 | 5724 | 6207 | 6691 | 7174 | 7657 | 8141 | 8624 | 9108 | 9691 | 0076 | 21 | 44 | 2455 |
| 363 | 45 | 4 (5) 2429 | 2911 | 3394 | 3876 | 4359 | 4819 | 5325 | 5808 | 6291 | 6774 | 7257 | 7741 | 8224 | 8707 | 9191 | 9674 | 0158 | 19 | 45 | 6 2376 |
| 371 | 46 | 2512 | 2995 | 3477 | 3960 | 4443 | 4926 | 5408 | 5891 | 6374 | 6857 | 7341 | 7824 | 8387 | 8791 | 9974 | 9758 | 0241 | 10 | 46 | 2297 |
| 379 | 47 | 2596 | 3879 | 3561 | 4844 | 4527 | 5009 | 5492 | 5975 | 6458 | 6941 | 7424 | 7987 | 8391 | 8874 | 9358 | 9841 | 0325 | 17 | 47 | 2218 |
| 387 | 48 | 2680 | 3163 | 3645 | 4128 | 4610 | 5093 | 5576 | 6059 | 6542 | 7025 | 7508 | 7991 | 8474 | 8958 | 9441 | 9994 | 0408 | 15 | 48 | 2139 |
| 395 | 49 | 2765 | 3247 | 3729 | 4212 | 4694 | 5177 | 5660 | 6143 | 6695 | 7108 | 7591 | 8075 | 8558 | 9841 | 9524 | 0080 | 0491 | 14 | 42 | 2059 |
| 403 | 50 | 4 (5) 2849 | 3331 | 3813 | 4296 | 4778 | 5261 | 5744 | 6226 | 6709 | 7192 | 7675 | 8158 | 8641 | 9125 | 9608 | 0091 | 0575 | 13 | 60 | 6 1980 |
| 411 | 51 | 2933 | 3415 | 3898 | 4380 | 4862 | 5345 | 5828 | 6310 | 6793 | 7276 | 7759 | 8242 | 8725 | 9908 | 9692 | 8175 | 0659 | 12 | 61 | 1901 |
| 420 | 52 | 3017 | 3580 | 3982 | 4464 | 4947 | 5429 | 5912 | 6394 | 6877 | 7368 | 7843 | 8326 | 8809 | 9292 | 9776 | 0259 | 0742 | 10 | 52 | 1821 |
| 428 | 53 | 3182 | 3504 | 4866 | 4549 | 5031 | 5513 | 5996 | 6479 | 6961 | 7444 | 7927 | 8410 | 8893 | 9376 | 9859 | 0343 | 8026 | 2 | 53 | 1741 |
| 436 | 54 | 3186 | 3668 | 4151 | 4633 | 5115 | 5598 | 6888 | 6563 | 7045 | 7528 | 8011 | 8494 | 8977 | 9460 | 9943 | 0497 | 0910 | 0 | 54 | 1662 |
| 444 | 55 | 4 (5) 3271 | 3753 | 4235 | 4717 | 5280 | 5682 | 6165 | 6647 | 7130 | 7612 | 8095 | 8578 | 9061 | 9514 | 8827 | 0511 | 0994 | 6 | 55 | 6 1582 |
| 452 | 56 | 3356 | 3838 | 4320 | 4802 | 5984 | 5767 | 6249 | 6732 | 7214 | 7697 | 8180 | 8662 | 9145 | 9628 | 8111 | 0595 | 1078 | 6 | 56 | 1502 |
| 460 | 57 | 3440 | 3922 | 4404 | 4887 | 5369 | 5851 | 6334 | 6816 | 7299 | 7781 | 8264 | 8747 | 9230 | 9713 | 0196 | 0679 | 1162 | 4 | 57 | 1422 |
| 468 | 58 | 3525 | 4007 | 4489 | 4971 | 5453 | 5936 | 6418 | 6901 | 7383 | 7866 | 8348 | 8831 | 9314 | 9797 | 0280 | 0763 | 1246 | 3 | 68 | 1342 |
| 476 | 59 | 3610 | 4092 | 4574 | 5056 | 5538 | 6020 | 6503 | 6985 | 7468 | 7950 | 8433 | 8916 | 9398 | 9881 | 0364 | 0847 | 1330 | 1 | 69 | 1262 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 16° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 16° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 (5) 6983 | 7469 | 7955 | 8441 | 8927 | 9413 | 9890 | 0385 | 0871 | 1358 | 1844 | 2331 | 2817 | 3304 | 3791 | 4278 | 4765 | 0 | 0' | 3 8738 |
| 8 | 1 | 7063 | 7540 | 8034 | 8520 | 9006 | 9492 | 9978 | 0464 | 0951 | 1437 | 1923 | 2410 | 2896 | 3383 | 3870 | 4357 | 4844 | 1 | 1 | 8819 |
| 16 | 2 | 7143 | 7628 | 8114 | 8600 | 9086 | 9572 | 0058 | 0544 | 1030 | 1516 | 2003 | 2489 | 2976 | 3462 | 3949 | 4436 | 4923 | 3 | 2 | 8899 |
| 24 | 3 | 7222 | 7708 | 8194 | 8679 | 9165 | 9651 | 0137 | 0623 | 1109 | 1596 | 2082 | 2568 | 3055 | 3541 | 4028 | 4515 | 5002 | 4 | 3 | 8979 |
| 32 | 4 | 7302 | 7788 | 8273 | 8759 | 9245 | 9731 | 0217 | 0703 | 1189 | 1675 | 2161 | 2648 | 3134 | 3621 | 4107 | 4504 | 5081 | 5 | 4 | 9060 |
| 40 | 5 | 4 (5) 7382 | 7867 | 8353 | 8839 | 9324 | 9810 | 0296 | 0782 | 1268 | 1754 | 2241 | 2727 | 3213 | 3700 | 4187 | 4673 | 5160 | 7 | 5 | 3 9140 |
| 49 | 6 | 7462 | 7047 | 8433 | 8918 | 9404 | 9890 | 0376 | 0862 | 1348 | 1834 | 2320 | 2807 | 3293 | 3779 | 4266 | 4753 | 5239 | 8 | 6 | 9221 |
| 57 | 7 | 7542 | 8027 | 8513 | 8998 | 9484 | 9970 | 0456 | 0942 | 1428 | 1914 | 2400 | 2886 | 3372 | 3859 | 4345 | 4832 | 5319 | 10 | 7 | 9302 |
| 65 | 8 | 7622 | 8107 | 8593 | 9078 | 9564 | 0050 | 0536 | 1021 | 1507 | 1993 | 2480 | 2966 | 3452 | 3938 | 4425 | 4911 | 5398 | 11 | 8 | 9382 |
| 73 | 9 | 7702 | 8187 | 8673 | 9158 | 9644 | 0130 | 0616 | 1101 | 1587 | 2073 | 2559 | 3046 | 3532 | 4018 | 4504 | 4991 | 5478 | 12 | 9 | 9463 |
| 81 | 10 | 4 (5) 7782 | 8268 | 8753 | 9238 | 9724 | 0210 | 0696 | 1181 | 1667 | 2153 | 2639 | 3125 | 3612 | 1098 | 4584 | 5070 | 5557 | 14 | 10 | 3 9544 |
| 89 | 11 | 7863 | 8348 | 8833 | 9319 | 9804 | 0290 | 0776 | 1261 | 1747 | 2233 | 2719 | 3205 | 3691 | 4178 | 4664 | 5150 | 5637 | 15 | 11 | 9625 |
| 97 | 12 | 7943 | 8428 | 8914 | 9399 | 9885 | 0370 | 0856 | 1341 | 1827 | 2313 | 2799 | 3285 | 3771 | 4258 | 4744 | 5230 | 5717 | 16 | 12 | 9706 |
| 105 | 13 | 8024 | 8509 | 8994 | 9479 | 9965 | 0450 | 0936 | 1422 | 1907 | 2393 | 2879 | 3365 | 3851 | 4338 | 4824 | 5310 | 5796 | 18 | 13 | 9708 |
| 113 | 14 | 8104 | 8589 | 9075 | 9560 | 0045 | 0531 | 1016 | 1502 | 1288 | 2473 | 2059 | 3145 | 3231 | 4418 | 4004 | 5390 | 5876 | 12 | 14 | 0869 |
| 121 | 15 | 4 (5) 8185 | 8670 | 9155 | 9640 | 0126 | 0611 | 1097 | 1582 | 2068 | 2554 | 3040 | 3526 | 4012 | 4498 | 4984 | 5470 | 5956 | 21 | 15 | 3 2950 |
| 129 | 16 | 8266 | 8751 | 9236 | 9721 | 0206 | 0602 | 1177 | 1663 | 2148 | 2634 | 3120 | 3606 | 4092 | 4578 | 5064 | 5550 | 6036 | 22 | 16 | 4 0032 |
| 137 | 17 | 8346 | 8831 | 9317 | 9802 | 0287 | 0772 | 1258 | 1743 | 2229 | 2715 | 3200 | 3686 | 4172 | 4658 | 5144 | 5630 | 6117 | 23 | 17 | 0113 |
| 146 | 18 | 8427 | 8912 | 9327 | 0883 | 0368 | 0853 | 1338 | 1824 | 2310 | 2795 | 3281 | 3767 | 4252 | 4738 | 5224 | 5711 | 6197 | 25 | 18 | 0195 |
| 154 | 19 | 8508 | 8993 | 9478 | 0963 | 0449 | 0934 | 1419 | 1905 | 2390 | 2876 | 3361 | 3847 | 4333 | 4819 | 5305 | 5791 | 6277 | 26 | 19 | 0276 |
| 162 | 20 | 4 (5) 8589 | 9074 | 0550 | 0044 | 0529 | 1015 | 1500 | 1985 | 2471 | 2956 | 3142 | 3928 | 4414 | 4899 | 5385 | 5871 | 6358 | 27 | 20 | 4 0358 |
| 170 | 21 | 8670 | 2155 | 9640 | 0125 | 0610 | 1096 | 1581 | 2066 | 2552 | 3037 | 3523 | 4008 | 4494 | 4980 | 5466 | 5952 | 6438 | 29 | 21 | 0440 |
| 178 | 22 | 8752 | 9236 | 9721 | 0206 | 0692 | 1177 | 1662 | 2147 | 2633 | 3118 | 3604 | 4089 | 4575 | 5061 | 5547 | 6033 | 6519 | 30 | 22 | 0522 |
| 186 | 23 | 8833 | 9318 | 9803 | 0288 | 0773 | 1258 | 1743 | 2228 | 2714 | 3199 | 3685 | 4170 | 4656 | 5142 | 5627 | 6113 | 6599 | 32 | 23 | 0604 |
| 124 | 24 | 8014 | 9399 | 9884 | 0369 | 0854 | 1339 | 1824 | 2309 | 2795 | 3280 | 3765 | 4251 | 4737 | 5222 | 5708 | 6194 | 6680 | 33 | 24 | 0686 |
| 202 | 25 | 4 (3) 8996 | 0481 | 9965 | 0450 | 0935 | 1420 | 1905 | 2390 | 2876 | 3361 | 3847 | 4332 | 4818 | 5303 | 5789 | 6275 | 6761 | 34 | 25 | 4 0768 |
| 210 | 26 | 0077 | 0562 | 0047 | 0532 | 1016 | 1501 | 1987 | 2472 | 2957 | 3442 | 3928 | 4413 | 4899 | 5384 | 5870 | 6356 | 6842 | 36 | 26 | 0850 |
| 218 | 27 | 9159 | 9644 | 0128 | 0613 | 1098 | 1583 | 2068 | 2553 | 3038 | 3523 | 4009 | 4494 | 4980 | 5465 | 5051 | 6437 | 6923 | 37 | 27 | 0933 |
| 226 | 28 | 0241 | 9725 | 0210 | 0695 | 1179 | 1664 | 2149 | 2634 | 3120 | 3605 | 4090 | 4576 | 5051 | 5547 | 6032 | 6518 | 7003 | 38 | 28 | 1015 |
| 234 | 29 | 0323 | 9807 | 0292 | 0776 | 1261 | 1746 | 2231 | 2716 | 3201 | 3686 | 4172 | 4657 | 5142 | 5628 | 6113 | 6599 | 7085 | 40 | 20 | 1098 |
| 243 | 30 | 4 (5) 0404 | 9889 | 0373 | 0858 | 1343 | 1828 | 2313 | 2798 | 3283 | 3768 | 4253 | 4738 | 5224 | 5709 | 6195 | 6680 | 7166 | 41 | 30 | 4 1180 |
| 251 | 31 | 9486 | 0071 | 0455 | 0040 | 1425 | 1909 | 2394 | 2879 | 3361 | 3849 | 4334 | 4820 | 5305 | 5701 | 6276 | 6762 | 7247 | 43 | 31 | 1263 |
| 259 | 32 | 0568 | 0053 | 0537 | 1022 | 1506 | 1991 | 2476 | 2961 | 3446 | 3931 | 4416 | 4901 | 5387 | 5872 | 6357 | 6843 | 7329 | 44 | 32 | 1346 |
| 267 | 33 | 0650 | 0135 | 0619 | 1104 | 1588 | 2073 | 2558 | 3043 | 3528 | 4013 | 4498 | 4983 | 5468 | 5054 | 6439 | 6924 | 7410 | 45 | 33 | 1428 |
| 275 | 34 | 9733 | 0217 | 0701 | 1186 | 1670 | 2155 | 2640 | 3125 | 3610 | 4004 | 4580 | 5065 | 5550 | 6035 | 6521 | 7006 | 7492 | 47 | 34 | 1511 |
| 283 | 35 | 4 (5) 9815 | 0299 | 0784 | 1268 | 1753 | 2237 | 2722 | 3207 | 3691 | 4176 | 4661 | 5146 | 5632 | 6117 | 6602 | 7088 | 7573 | 48 | 35 | 4 1594 |
| 291 | 36 | 0897 | 0382 | 0866 | 1350 | 1835 | 2319 | 2804 | 3289 | 3773 | 4258 | 4743 | 5228 | 5713 | 6190 | 6684 | 7169 | 7655 | 40 | 36 | 1677 |
| 292 | 37 | 9080 | 0464 | 0948 | 1433 | 1917 | 2401 | 2886 | 3371 | 3856 | 4340 | 4825 | 5310 | 5795 | 6281 | 6766 | 7251 | 7737 | 51 | 37 | 1761 |
| 307 | 38 | 5 0062 | 0546 | 1031 | 1515 | 1909 | 2484 | 2068 | 3453 | 3938 | 4423 | 4907 | 5392 | 5877 | 6363 | 6848 | 7333 | 7818 | 52 | 38 | 1844 |
| 315 | 39 | 0145 | 0629 | 1113 | 1507 | 2082 | 2566 | 3050 | 3535 | 4020 | 4505 | 4090 | 5474 | 5260 | 6445 | 6930 | 7415 | 7000 | 54 | 39 | 1027 |
| 323 | 40 | 5 0227 | 0712 | 1196 | 1680 | 2164 | 2649 | 3133 | 3618 | 4102 | 4587 | 5072 | 5557 | 6042 | 6527 | 7012 | 7497 | 7982 | 55 | 40 | 4 2010 |
| 331 | 41 | 0310 | 0704 | 1278 | 1763 | 2247 | 2731 | 3216 | 3700 | 4185 | 4669 | 5154 | 5639 | 6124 | 6609 | 7094 | 7579 | 8064 | 56 | 41 | 2004 |
| 340 | 42 | 0393 | 0877 | 1361 | 1845 | 2329 | 2814 | 3298 | 3783 | 4267 | 4752 | 5237 | 5721 | 6206 | 6691 | 7176 | 7661 | 8147 | 58 | 42 | 2178 |
| 348 | 43 | 0476 | 0960 | 1444 | 1928 | 2412 | 2896 | 3381 | 3865 | 4350 | 4834 | 5310 | 5804 | 6289 | 6774 | 7259 | 7744 | 8229 | 59 | 43 | 2261 |
| 356 | 44 | 0559 | 1043 | 1527 | 2011 | 2495 | 2970 | 3464 | 3948 | 4432 | 4917 | 5402 | 5886 | 6371 | 6856 | 7341 | 7826 | 8311 | 60 | 44 | 2345 |
| 364 | 45 | 5 0542 | 1126 | 1610 | 2094 | 2578 | 3062 | 3546 | 4031 | 4515 | 5000 | 5484 | 5969 | 6454 | 6939 | 7423 | 7908 | 8394 | 62 | 45 | 4 2429 |
| 372 | 46 | 0725 | 1209 | 1693 | 2177 | 2661 | 3145 | 3629 | 4114 | 4598 | 5082 | 5567 | 6052 | 6536 | 7021 | 7506 | 7991 | 8476 | 63 | 46 | 2513 |
| 380 | 47 | 0808 | 1292 | 1776 | 2260 | 2744 | 3228 | 3712 | 4197 | 4681 | 5165 | 5650 | 6134 | 6619 | 7104 | 7589 | 0074 | 8559 | 65 | 47 | 2597 |
| 388 | 48 | 0092 | 1375 | 1850 | 2343 | 2827 | 3311 | 3795 | 4280 | 4764 | 5248 | 5733 | 6217 | 6702 | 7187 | 7671 | 8156 | 8641 | 66 | 48 | 2681 |
| 396 | 49 | 0975 | 1459 | 1943 | 2426 | 2910 | 3304 | 3879 | 4363 | 4847 | 5331 | 5816 | 6300 | 6785 | 7269 | 7754 | 8230 | 8724 | 67 | 49 | 2765 |
| 404 | 50 | 5 1059 | 1542 | 2026 | 2510 | 2994 | 3478 | 3962 | 4446 | 4930 | 5414 | 5899 | 6383 | 6868 | 7352 | 7837 | 8322 | 8807 | 69 | 50 | 4 2849 |
| 412 | 51 | 1142 | 1626 | 2109 | 2593 | 3077 | 3561 | 4045 | 4529 | 5013 | 5498 | 5982 | 6466 | 6951 | 7435 | 7920 | 8405 | 8890 | 70 | 51 | 2933 |
| 420 | 52 | 1226 | 1709 | 2103 | 2677 | 3161 | 3644 | 4128 | 4612 | 5007 | 5581 | 6065 | 6549 | 7034 | 7518 | 8003 | 8488 | 8973 | 71 | 52 | 3017 |
| 428 | 53 | 1309 | 1793 | 2277 | 2760 | 3244 | 3728 | 4212 | 4696 | 5180 | 5664 | 6148 | 6633 | 7117 | 7602 | 8086 | 8571 | 0056 | 73 | 53 | 3102 |
| 437 | 54 | 1393 | 1877 | 2360 | 2844 | 3328 | 3812 | 4295 | 4779 | 5263 | 5748 | 6232 | 6716 | 7200 | 7685 | 8169 | 8654 | 0139 | 74 | 54 | 3106 |
| 445 | 55 | 5 1477 | 1961 | 2414 | 2928 | 3411 | 3895 | 4379 | 4863 | 5347 | 5831 | 6315 | 6799 | 7284 | 7768 | 8253 | 8737 | 0222 | 76 | 55 | 4 3271 |
| 453 | 56 | 1561 | 2045 | 2528 | 3012 | 3495 | 3979 | 4463 | 4947 | 5431 | 5915 | 6399 | 6883 | 7367 | 7852 | 8336 | 8820 | 0303 | 77 | 56 | 3356 |
| 461 | 57 | 1645 | 2129 | 2612 | 3095 | 3579 | 4063 | 4547 | 5030 | 5514 | 5998 | 6482 | 6967 | 7451 | 7935 | 8419 | 8904 | 9388 | 78 | 57 | 3440 |
| 469 | 58 | 1720 | 2213 | 2696 | 3179 | 3663 | 4147 | 4630 | 5114 | 5598 | 6082 | 6566 | 7050 | 7534 | 8010 | 8503 | 8987 | 9472 | 80 | 58 | 3525 |
| 477 | 59 | 1813 | 2297 | 2780 | 3264 | 3747 | 4231 | 4714 | 5198 | 5682 | 6166 | 6650 | 7134 | 7618 | 8102 | 0587 | 9071 | 9555 | 81 | 59 | 3610 |

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**TABLA X.** Número I para la suma de alturas aparentes} y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 17° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 17° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 0' | 4 (5) 3695 | 4177 | 4659 | 5141 | 5623 | 6105 | 6588 | 7070 | 7552 | 8035 | 8517 | 9000 | 9483 | 9966 | 0449 | 0932 | 1445 | 82 | 0' | 6 4181 |
| 8 | 1 | 3780 | 4262 | 4744 | 5226 | 5708 | 6190 | 6672 | 7155 | 7637 | 8120 | 8602 | 9085 | 9567 | 0050 | 0533 | 1016 | 1499 | 81 | 1 | 4101 |
| 16 | 2 | 3865 | 4347 | 4829 | 5311 | 5793 | 6275 | 6757 | 7240 | 7722 | 8204 | 8687 | 9169 | 9652 | 0135 | 0618 | 1108 | 1504 | 80 | 2 | 4021 |
| 24 | 3 | 3951 | 4432 | 4914 | 5396 | 5878 | 6360 | 6842 | 7324 | 7807 | 8289 | 8772 | 9254 | 9737 | 0219 | 0702 | 1185 | 1668 | 78 | 3 | 0940 |
| 32 | 4 | 4036 | 4518 | 5000 | 5481 | 5963 | 6445 | 6927 | 7410 | 7892 | 8374 | 8857 | 9339 | 9822 | 0304 | 0787 | 1270 | 1753 | 77 | 4 | 0860 |
| 48 | 5 | 4 (6) 4121 | 4603 | 5085 | 5567 | 6048 | 6530 | 7013 | 7495 | 7977 | 8459 | 8942 | 9424 | 9906 | 0389 | 0872 | 1355 | 1837 | 76 | 6 | 6 0779 |
| 48 | 6 | 4207 | 4688 | 5170 | 5652 | 6134 | 6616 | 7090 | 7580 | 8062 | 8544 | 9027 | 9509 | 9991 | 0474 | 0957 | 1439 | 1922 | 74 | 6 | 0690 |
| 06 | 7 | 4292 | 4774 | 5956 | 5737 | 6219 | 6701 | 7183 | 7665 | 8147 | 8629 | 9112 | 9594 | 0077 | 0559 | 1042 | 1524 | 2007 | 73 | 7 | 0618 |
| 64 | 8 | 4378 | 4860 | 5341 | 5823 | 6305 | 6787 | 7269 | 7750 | 0233 | 8745 | 9197 | 9679 | 0162 | 0644 | 1127 | 1609 | 2092 | 71 | 8 | 0537 |
| 72 | 9 | 4464 | 4945 | 5427 | 5909 | 6390 | 6872 | 7354 | 7836 | 8318 | 8888 | 9282 | 9765 | 0247 | 0729 | 1212 | 1694 | 2177 | 78 | 9 | 0455 |
| 80 | 10 | 4 (5) 4550 | 5031 | 5513 | 5991 | 6476 | 6958 | 7440 | 7921 | 8403 | 8885 | 9368 | 9850 | 0332 | 0815 | 1297 | 1780 | 2262 | 69 | 10 | 6 0375 |
| 08 | 11 | 4636 | 5117 | 5598 | 6080 | 6562 | 7043 | 7525 | 8007 | 8489 | 8971 | 9453 | 9935 | 0418 | 0900 | 1382 | 1865 | 2347 | 67 | 11 | 0291 |
| 96 | 12 | 4722 | 5203 | 5684 | 6166 | 6647 | 7129 | 7611 | 8093 | 8575 | 9057 | 9539 | 0021 | 0503 | 0985 | 1468 | 1958 | 2433 | 66 | 12 | 0212 |
| 104 | 13 | 4808 | 5289 | 5770 | 6252 | 6733 | 7215 | 7697 | 8178 | 8660 | 9142 | 9624 | 0106 | 0589 | 1074 | 1553 | 2036 | 2518 | 05 | 13 | 0131 |
| 112 | 14 | 4894 | 5375 | 5856 | 6330 | 6819 | 7301 | 7783 | 8261 | 0746 | 9228 | 9710 | 0192 | 0674 | 1156 | 1639 | 2121 | 2604 | 63 | 14 | 0050 |
| 120 | 16 | 4 (5) 4980 | 5461 | 5942 | 6424 | 0905 | 7387 | 7868 | 8350 | 8832 | 9314 | 9796 | 0278 | 0760 | 1942 | 1724 | 2207 | 2689 | 62 | 16 | 5 9968 |
| 128 | 16 | 6066 | 5547 | 6029 | 6510 | 0991 | 7473 | 7954 | 8436 | 8918 | 9100 | 9882 | 0364 | 0816 | 1327 | 1810 | 2292 | 2775 | 60 | 16 | 9887 |
| 136 | 17 | 6153 | 5634 | 6115 | 6596 | 7078 | 7559 | 8041 | 8522 | 9004 | 9406 | 9968 | 0449 | 0931 | 1413 | 1896 | 2378 | 2860 | 59 | 17 | 9805 |
| 144 | 10 | 6239 | 5790 | 6201 | 0683 | 7164 | 7645 | 8127 | 0688 | 9090 | 9572 | 0034 | 0535 | 1017 | 1499 | 1982 | 2164 | 2946 | 58 | 18 | 9724 |
| 152 | 19 | 5326 | 5807 | 6288 | 0769 | 7250 | 7739 | 8213 | 8695 | 9176 | 9658 | 0148 | 0622 | 1103 | 1605 | 2060 | 2550 | 3039 | 66 | 19 | 9642 |
| 160 | 20 | 4 (5) 5412 | 5893 | 6374 | 6856 | 7337 | 7818 | 0300 | 8781 | 9262 | 9744 | 0226 | 0708 | 1190 | 1671 | 2154 | 2636 | 3118 | 65 | 20 | 5 9560 |
| 168 | 21 | 6499 | 5988 | 6461 | 6942 | 7423 | 7905 | 8386 | 8867 | 9349 | 9830 | 0312 | 0794 | 1276 | 1758 | 2240 | 2722 | 3204 | 64 | 21 | 9478 |
| 176 | 22 | 5386 | 6067 | 6548 | 7029 | 7510 | 7991 | 8472 | 8954 | 9435 | 9917 | 0398 | 0880 | 1362 | 1844 | 2326 | 2808 | 3290 | 62 | 22 | 9396 |
| 184 | 23 | 6673 | 6154 | 6635 | 7116 | 7597 | 8078 | 8559 | 9048 | 9522 | 0003 | 0185 | 0967 | 1448 | 1930 | 2412 | 2894 | 3370 | 51 | 23 | 9314 |
| 192 | 24 | 6760 | 6210 | 6791 | 7202 | 7683 | 8165 | 0646 | 9127 | 9608 | 0090 | 0571 | 1053 | 1535 | 2017 | 2498 | 2980 | 3462 | 49 | 24 | 9232 |
| 200 | 25 | 4 (5) 6847 | 6327 | 6800 | 7289 | 7770 | 8251 | 8733 | 9214 | 9695 | 8177 | 0658 | 1140 | 1621 | 2103 | 2585 | 3067 | 3549 | 48 | 25 | 5 9150 |
| 908 | 96 | 5934 | 6414 | 6895 | 7376 | 7857 | 8338 | 8819 | 9301 | 9702 | 0263 | 0745 | 1296 | 1708 | 2190 | 2671 | 3153 | 3635 | 47 | 26 | 9067 |
| 217 | 27 | 6021 | 6502 | 6982 | 7463 | 7944 | 8495 | 0906 | 9387 | 9069 | 0350 | 0831 | 1313 | 1795 | 2276 | 2758 | 3240 | 3722 | 45 | 27 | 8906 |
| 225 | 28 | 6108 | 6589 | 7069 | 7550 | 8031 | 0512 | 8993 | 9474 | 9956 | 0437 | 0918 | 1400 | 1881 | 2363 | 2845 | 3326 | 3008 | 44 | 28 | 8902 |
| 233 | 99 | 6196 | 6676 | 6457 | 7638 | 8118 | 8599 | 9000 | 9561 | 0043 | 8524 | 1005 | 1487 | 1968 | 9150 | 9931 | 3413 | 3895 | 43 | 29 | 8020 |
| 241 | 30 | 4 (6) 6283 | 6764 | 7944 | 7725 | 8206 | 8687 | 9168 | 9649 | 0130 | 8611 | 1092 | 1574 | 2055 | 2536 | 3018 | 3500 | 3982 | 41 | 30 | 6 8737 |
| 249 | 31 | 6371 | 6851 | 7339 | 7012 | 8293 | 8774 | 9255 | 9736 | 0217 | 0698 | 1179 | 1661 | 2142 | 2623 | 3105 | 3587 | 4060 | 40 | 31 | 8654 |
| 257 | 32 | 6458 | 6939 | 7419 | 7900 | 8380 | 8061 | 9342 | 9823 | 0304 | 0705 | 1266 | 1748 | 2229 | 2710 | 3199 | 3674 | 4155 | 30 | 32 | 8572 |
| 265 | 33 | 6546 | 7026 | 7607 | 7987 | 0468 | 8949 | 9430 | 9910 | 0391 | 0872 | 1354 | 1035 | 2316 | 2798 | 3279 | 3761 | 4249 | 37 | 33 | 8489 |
| 273 | 34 | 6634 | 7114 | 7594 | 8075 | 8556 | 9036 | 9547 | 9998 | 0479 | 0960 | 1141 | 1992 | 2403 | 2885 | 3366 | 3018 | 4329 | 36 | 31 | 8406 |
| 284 | 35 | 4 (6) 6721 | 7202 | 7682 | 8163 | 8643 | 9194 | 9605 | 0085 | 0560 | 1047 | 1528 | 2009 | 2491 | 2972 | 3453 | 3935 | 4416 | 31 | 35 | 6 0393 |
| 289 | 36 | 6809 | 7290 | 7770 | 8250 | 8731 | 9212 | 9692 | 0173 | 0654 | 1135 | 1646 | 9097 | 2578 | 3059 | 3541 | 4029 | 4504 | 33 | 36 | 8939 |
| 297 | 87 | 6897 | 7378 | 7858 | 8338 | 8819 | 9999 | 9780 | 0261 | 0741 | 1222 | 1703 | 9184 | 2665 | 3147 | 3620 | 4109 | 4591 | 32 | 37 | 8156 |
| 305 | 38 | 6985 | 7466 | 7946 | 8426 | 8907 | 9387 | 9868 | 0348 | 0829 | 1310 | 1791 | 2272 | 2753 | 3234 | 3715 | 4197 | 4678 | 30 | 30 | 8073 |
| 313 | 39 | 7074 | 7654 | 0034 | 8514 | 8995 | 9475 | 9956 | 0436 | 0917 | 1398 | 1079 | 2360 | 2841 | 3322 | 3803 | 4284 | 4766 | 29 | 39 | 7990 |
| 321 | 40 | 4 (6) 7162 | 7642 | 8122 | 8602 | 9083 | 9563 | 0044 | 0524 | 1005 | 1486 | 1967 | 2147 | 2928 | 3409 | 3891 | 4372 | 4853 | 27 | 40 | 6 7906 |
| 329 | 41 | 7950 | 7730 | 8210 | 8691 | 9171 | 9651 | 0139 | 0612 | 1093 | 1574 | 2054 | 2535 | 3016 | 3497 | 3970 | 4459 | 4941 | 26 | 41 | 7622 |
| 337 | 42 | 7338 | 7818 | 8299 | 8779 | 9259 | 9739 | 0920 | 0700 | 1101 | 1662 | 2142 | 2623 | 3404 | 3585 | 4066 | 4547 | 5028 | 25 | 49 | 7739 |
| 345 | 43 | 7427 | 7907 | 8387 | 8867 | 9347 | 9828 | 0388 | 0709 | 1269 | 1750 | 2230 | 2711 | 3192 | 3673 | 4164 | 1635 | 5116 | 23 | 43 | 7066 |
| 353 | 44 | 7516 | 7995 | 8475 | 8956 | 9436 | 9916 | 0396 | 0877 | 4357 | 1838 | 2318 | 2799 | 3280 | 3761 | 4242 | 4723 | 5204 | 22 | 44 | 7571 |
| 361 | 45 | 4 (6) 7604 | 8084 | 8564 | 9044 | 9524 | 0004 | 0485 | 0965 | 1415 | 1996 | 2407 | 2807 | 3368 | 3049 | 4330 | 4011 | 5292 | 24 | 46 | 6 7487 |
| 369 | 46 | 7693 | 8173 | 8653 | 9133 | 9613 | 0093 | 0673 | 1053 | 1534 | 2014 | 2495 | 2976 | 3456 | 3937 | 4418 | 4899 | 5380 | 19 | 46 | 7404 |
| 377 | 47 | 7702 | 8961 | 8741 | 9921 | 9701 | 0181 | 0662 | 1142 | 1692 | 2183 | 2583 | 3864 | 3545 | 4025 | 4506 | 4987 | 5468 | 18 | 47 | 7319 |
| 305 | 48 | 7871 | 8350 | 0830 | 9318 | 9798 | 0270 | 0750 | 1231 | 4714 | 2194 | 2672 | 3452 | 3633 | 4114 | 4594 | 5075 | 5556 | 16 | 48 | 7230 |
| 393 | 49 | 7960 | 8439 | 8919 | 9399 | 9079 | 0359 | 0839 | 1319 | 1799 | 2280 | 2760 | 3241 | 3721 | 4202 | 4683 | 5164 | 5645 | 15 | 49 | 7161 |
| 401 | 50 | 4 (5) 8049 | 8598 | 9008 | 9488 | 9968 | 0440 | 0928 | 1408 | 1880 | 2368 | 2819 | 3329 | 3810 | 4290 | 4771 | 5252 | 5733 | 14 | 50 | 6 7067 |
| 409 | 61 | 8138 | 8617 | 9097 | 9577 | 0057 | 0537 | 1017 | 1497 | 4977 | 2457 | 2937 | 3410 | 3898 | 4379 | 4860 | 5340 | 5821 | 12 | 61 | 6983 |
| 417 | 52 | 8227 | 8706 | 9186 | 9666 | 0146 | 0626 | 1106 | 1586 | 2066 | 2516 | 3026 | 3507 | 3987 | 4460 | 4910 | 5429 | 5910 | 11 | 62 | 6898 |
| 425 | 63 | 8316 | 8796 | 9275 | 9756 | 0235 | 0715 | 1195 | 1676 | 2155 | 2636 | 3115 | 3595 | 4076 | 4556 | 5037 | 5518 | 5998 | 10 | 53 | 6814 |
| 433 | 64 | 6406 | 8885 | 9365 | 9044 | 0394 | 0804 | 4284 | 1764 | 2244 | 2724 | 3204 | 3684 | 4165 | 4645 | 5126 | 5606 | 6087 | 8 | 54 | 6729 |
| 441 | 56 | 4 (6) 8495 | 8974 | 9454 | 9934 | 0413 | 0893 | 1373 | 1853 | 2333 | 2813 | 3293 | 3773 | 4264 | 4734 | 5214 | 6695 | 6176 | 7 | 65 | 6 6644 |
| 449 | 56 | 8581 | 9064 | 9543 | 0023 | 0503 | 0982 | 1462 | 1912 | 2422 | 2902 | 3382 | 3862 | 4343 | 4823 | 5303 | 5784 | 6264 | 6 | 56 | 6560 |
| 457 | 57 | 8674 | 9153 | 9633 | 0112 | 0592 | 1072 | 1551 | 2031 | 2511 | 2991 | 3471 | 3951 | 4432 | 4912 | 5392 | 5873 | 6353 | 4 | 67 | 6476 |
| 465 | 58 | 8764 | 9243 | 9722 | 0202 | 0682 | 1161 | 1641 | 2121 | 2600 | 3000 | 3560 | 4011 | 4521 | 5001 | 5481 | 5962 | 6442 | 3 | 58 | 6393 |
| 473 | 69 | 6854 | 9333 | 9812 | 0292 | 0771 | 1251 | 1730 | 2210 | 2690 | 3170 | 3650 | 4130 | 4610 | 5090 | 5571 | 6061 | 6531 | 1 | 69 | 6306 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 17° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 17° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | | | |
| 0 | 0' | 5 1898 | 2381 | 2864 | 3348 | 3831 | 4315 | 4798 | 5282 | 5766 | 6250 | 6734 | 7218 | 7702 | 8186 | 8670 | 9155 | 9639 | 0 | 0' | 4 3695 |
| 8 | 1 | 1982 | 2465 | 2949 | 3432 | 3915 | 4399 | 4882 | 5366 | 5850 | 6334 | 6818 | 7302 | 7786 | 8270 | 8754 | 9238 | 9723 | 1 | 1 | 3780 |
| 16 | 2 | 2067 | 2550 | 3633 | 3516 | 4000 | 4483 | 4967 | 5450 | 5934 | 6418 | 6902 | 7386 | 7870 | 8354 | 8838 | 9329 | 9806 | 3 | 2 | 3866 |
| 24 | 3 | 2151 | 2634 | 3117 | 3601 | 4084 | 4567 | 5051 | 5534 | 6018 | 6502 | 6986 | 7470 | 7954 | 8438 | 8929 | 9406 | 9890 | 4 | 3 | 3951 |
| 32 | 4 | 2236 | 2719 | 3202 | 3685 | 4168 | 4652 | 5135 | 5619 | 6102 | 6586 | 7670 | 7554 | 8638 | 8522 | 9606 | 9490 | 9974 | 6 | 4 | 4036 |
| 40 | 5 | 5 (6) 2320 | 2863 | 3986 | 3770 | 4253 | 4736 | 5920 | 5703 | 6187 | 6670 | 7154 | 7638 | 8122 | 8606 | 9090 | 9574 | 0658 | 7 | 5 | 4 4121 |
| 48 | 6 | 9405 | 2888 | 3371 | 3854 | 4437 | 4821 | 5304 | 5788 | 6271 | 6755 | 7238 | 7722 | 8206 | 8690 | 9174 | 9658 | 0142 | 9 | 6 | 4267 |
| 56 | 7 | 2490 | 2973 | 3456 | 3939 | 4422 | 4965 | 5389 | 5872 | 6356 | 6839 | 7323 | 7867 | 8290 | 8774 | 9258 | 9742 | 0226 | 10 | 7 | 4293 |
| 64 | 8 | 2575 | 3058 | 3541 | 4624 | 4567 | 4990 | 5473 | 5957 | 6440 | 6924 | 7407 | 7891 | 8375 | 8859 | 9343 | 9896 | 0311 | 19 | 8 | 4378 |
| 79 | 9 | 2660 | 3143 | 3626 | 4109 | 4592 | 5075 | 5558 | 6041 | 6525 | 7008 | 7492 | 7976 | 8459 | 8943 | 9427 | 9911 | 0395 | 13 | 9 | 4464 |
| 80 | 16 | 5 (6) 2745 | 3228 | 3711 | 4194 | 4677 | 5160 | 5643 | 6196 | 6610 | 7093 | 7577 | 8060 | 8544 | 9028 | 9511 | 9995 | 0479 | 15 | 10 | 4 4550 |
| 89 | 11 | 2830 | 3313 | 3796 | 4279 | 4762 | 5245 | 5728 | 6211 | 6694 | 7178 | 7661 | 8145 | 8628 | 9112 | 9596 | 0080 | 0564 | 16 | 11 | 4636 |
| 97 | 12 | 2915 | 3398 | 3881 | 4364 | 4847 | 5330 | 5813 | 6296 | 6779 | 7263 | 7746 | 8230 | 8713 | 9197 | 9681 | 0164 | 6648 | 17 | 12 | 4722 |
| 105 | 13 | 3061 | 3483 | 3966 | 4449 | 4932 | 5415 | 5898 | 6381 | 6864 | 7348 | 7831 | 8314 | 8798 | 9282 | 9765 | 6249 | 0733 | 19 | 13 | 4808 |
| 113 | 14 | 3086 | 3569 | 4651 | 4531 | 5017 | 5560 | 5983 | 6466 | 6949 | 7433 | 7916 | 8399 | 8883 | 9366 | 9850 | 0334 | 6818 | 90 | 14 | 4894 |
| 121 | 15 | 5 (6) 3172 | 3654 | 4137 | 4690 | 5102 | 5585 | 6668 | 6551 | 7634 | 7518 | 8001 | 8484 | 8968 | 9451 | 9935 | 0419 | 0902 | 22 | 15 | 4 4980 |
| 129 | 16 | 3257 | 3740 | 4999 | 4705 | 5188 | 5671 | 6154 | 6637 | 7120 | 7663 | 8086 | 8569 | 9053 | 9536 | 0090 | 0504 | 6987 | 23 | 16 | 5066 |
| 137 | 17 | 3343 | 3825 | 4308 | 4790 | 5273 | 5756 | 6239 | 6722 | 7205 | 7688 | 8171 | 8655 | 9138 | 9621 | 0105 | 0589 | 1072 | 25 | 17 | 5153 |
| 145 | 18 | 3428 | 3911 | 4393 | 4876 | 5359 | 5841 | 6324 | 6807 | 7290 | 7773 | 8257 | 8740 | 9223 | 9706 | 6190 | 6674 | 1157 | 26 | 18 | 5239 |
| 153 | 19 | 3514 | 3997 | 4479 | 4962 | 5444 | 5927 | 6410 | 6893 | 7376 | 7859 | 8342 | 8825 | 9308 | 9792 | 0275 | 0759 | 1942 | 28 | 19 | 5326 |
| 161 | 20 | 5 (6) 3600 | 4083 | 4565 | 5047 | 5530 | 6013 | 6495 | 6978 | 7461 | 7944 | 8427 | 8911 | 9394 | 9877 | 0360 | 0844 | 1327 | 29 | 98 | 4 5412 |
| 169 | 21 | 3686 | 4168 | 4651 | 5133 | 5616 | 6098 | 6581 | 7064 | 7547 | 8030 | 8513 | 8996 | 9479 | 9969 | 0446 | 0929 | 1413 | 31 | 21 | 5499 |
| 177 | 92 | 3772 | 4254 | 4737 | 5919 | 5769 | 6184 | 6667 | 7150 | 7633 | 8115 | 8598 | 9082 | 9565 | 0048 | 0531 | 1015 | 1498 | 32 | 22 | 5586 |
| 185 | 23 | 3858 | 4310 | 4893 | 5305 | 5788 | 6970 | 6753 | 7236 | 7718 | 8201 | 8684 | 9167 | 9650 | 0133 | 0617 | 1160 | 1583 | 34 | 23 | 5673 |
| 193 | 24 | 3944 | 4427 | 4909 | 5391 | 5874 | 6356 | 6839 | 7321 | 7804 | 8287 | 8770 | 9253 | 9736 | 0219 | 0702 | 1186 | 1669 | 35 | 24 | 5760 |
| 261 | 25 | 5 (6) 4031 | 4513 | 4995 | 5477 | 5960 | 6442 | 6925 | 7467 | 7896 | 8373 | 8856 | 9339 | 9822 | 0305 | 0788 | 1271 | 1755 | 36 | 25 | 4 5847 |
| 209 | 26 | 4117 | 4599 | 5081 | 5564 | 6046 | 6528 | 7011 | 7494 | 7976 | 8459 | 8942 | 9425 | 9908 | 0391 | 0874 | 1357 | 1840 | 38 | 26 | 5931 |
| 217 | 27 | 4261 | 4686 | 5168 | 5650 | 6132 | 6615 | 7697 | 7580 | 8062 | 8545 | 9028 | 9511 | 9993 | 0476 | 0960 | 1443 | 1926 | 39 | 27 | 6021 |
| 225 | 28 | 4290 | 4772 | 5254 | 5736 | 6219 | 6701 | 7183 | 7666 | 8148 | 8631 | 9114 | 9597 | 0079 | 0562 | 1045 | 1529 | 2012 | 41 | 28 | 6108 |
| 233 | 29 | 4377 | 4859 | 5341 | 5823 | 6305 | 6787 | 7270 | 7752 | 8235 | 8717 | 9260 | 9683 | 0166 | 0648 | 1131 | 1615 | 2098 | 42 | 29 | 6196 |
| 241 | 36 | 5 (6) 4463 | 4945 | 5427 | 5909 | 6391 | 6874 | 7356 | 7838 | 8321 | 8801 | 9286 | 9769 | 0252 | 0735 | 1217 | 1701 | 2184 | 44 | 36 | 4 6283 |
| 949 | 31 | 4550 | 5032 | 5514 | 5996 | 6478 | 6966 | 7443 | 7925 | 8407 | 8890 | 9373 | 9855 | 0338 | 0821 | 1304 | 1787 | 2270 | 45 | 31 | 6371 |
| 257 | 32 | 4637 | 5119 | 5601 | 6083 | 6565 | 7047 | 7529 | 8011 | 8494 | 8976 | 9459 | 9912 | 0424 | 0907 | 1390 | 1873 | 2356 | 47 | 32 | 6458 |
| 265 | 33 | 4724 | 5206 | 5688 | 6169 | 6651 | 7134 | 7616 | 8098 | 8586 | 9063 | 9545 | 0028 | 0511 | 0993 | 1476 | 1959 | 2442 | 48 | 33 | 6546 |
| 273 | 34 | 4811 | 5293 | 5774 | 6956 | 6738 | 7220 | 7703 | 8185 | 8667 | 9149 | 9632 | 0114 | 0597 | 1680 | 1563 | 2045 | 2528 | 50 | 34 | 6634 |
| 281 | 35 | 5 (6) 4898 | 5380 | 5861 | 6313 | 6895 | 7307 | 7789 | 8272 | 8754 | 9236 | 9719 | 0201 | 0684 | 1166 | 1619 | 9139 | 2615 | 51 | 35 | 4 6721 |
| 290 | 36 | 4985 | 5467 | 5919 | 6430 | 6912 | 7394 | 7876 | 8358 | 8841 | 9323 | 9805 | 0288 | 0770 | 1253 | 1736 | 2218 | 2701 | 52 | 36 | 6809 |
| 298 | 37 | 5072 | 5554 | 6036 | 6517 | 6999 | 7481 | 7963 | 8445 | 8927 | 9410 | 9892 | 0374 | 0857 | 1340 | 1822 | 2305 | 2788 | 54 | 37 | 6897 |
| 306 | 38 | 5160 | 5641 | 6123 | 6605 | 7086 | 7568 | 8050 | 8532 | 9014 | 9497 | 9979 | 0461 | 0944 | 1426 | 1909 | 2392 | 2874 | 55 | 38 | 6985 |
| 314 | 39 | 5247 | 5729 | 6210 | 6692 | 7174 | 7655 | 8137 | 8619 | 9102 | 9584 | 0066 | 0548 | 1031 | 1513 | 1996 | 2478 | 2961 | 57 | 39 | 7074 |
| 322 | 40 | 5 (6) 5335 | 5816 | 6298 | 6779 | 7261 | 7743 | 8225 | 8707 | 9189 | 9671 | 0153 | 0635 | 1118 | 1600 | 2082 | 2565 | 3048 | 58 | 40 | 4 7162 |
| 330 | 41 | 5429 | 5904 | 6385 | 6867 | 7348 | 7830 | 8319 | 8794 | 9276 | 9758 | 0240 | 0722 | 1205 | 1687 | 2169 | 2659 | 3135 | 60 | 41 | 7250 |
| 338 | 42 | 5510 | 5991 | 6473 | 6954 | 7436 | 7918 | 8399 | 8881 | 9363 | 9845 | 0327 | 0809 | 1292 | 1774 | 2956 | 2739 | 3221 | 61 | 42 | 7339 |
| 316 | 43 | 5597 | 6079 | 6560 | 7042 | 7523 | 8005 | 8487 | 8969 | 9450 | 9932 | 0415 | 0897 | 1379 | 1861 | 2344 | 2826 | 3309 | 63 | 43 | 7427 |
| 354 | 44 | 5685 | 6167 | 6648 | 7199 | 7611 | 8693 | 8574 | 9056 | 9538 | 0090 | 0502 | 0984 | 1466 | 1948 | 2431 | 9913 | 3396 | 64 | 44 | 7516 |
| 369 | 45 | 5 (6) 5773 | 6254 | 6736 | 7217 | 7699 | 8180 | 8662 | 9144 | 9625 | 0107 | 0589 | 1071 | 1554 | 2036 | 2518 | 3000 | 3483 | 66 | 45 | 4 7604 |
| 370 | 46 | 5861 | 6342 | 6824 | 7305 | 7786 | 8268 | 8750 | 9931 | 9713 | 0195 | 0677 | 1159 | 1641 | 2123 | 2605 | 3088 | 3570 | 67 | 46 | 7693 |
| 378 | 47 | 5949 | 6430 | 6912 | 7393 | 7874 | 8356 | 8837 | 9319 | 9801 | 0283 | 0764 | 1246 | 1728 | 9911 | 2693 | 3175 | 3657 | 69 | 47 | 7782 |
| 386 | 48 | 6037 | 6518 | 7000 | 7481 | 7962 | 8444 | 8925 | 9407 | 9888 | 0370 | 0852 | 1334 | 1816 | 2998 | 2780 | 3969 | 3745 | 70 | 48 | 7871 |
| 394 | 49 | 6125 | 6607 | 7088 | 7569 | 8050 | 8532 | 9013 | 9425 | 9976 | 0158 | 0940 | 1422 | 1904 | 2386 | 9868 | 3350 | 3832 | 71 | 49 | 7960 |
| 402 | 50 | 5 (6) 6214 | 6695 | 7176 | 7657 | 8138 | 8620 | 9101 | 9583 | 0064 | 0546 | 1028 | 1509 | 1991 | 2473 | 2955 | 3438 | 3920 | 73 | 56 | 4 8049 |
| 410 | 51 | 6309 | 6783 | 7264 | 7745 | 8297 | 8708 | 9189 | 9671 | 0152 | 0634 | 1116 | 1597 | 2079 | 2561 | 3043 | 3525 | 4007 | 74 | 51 | 8138 |
| 418 | 59 | 6391 | 6879 | 7353 | 7834 | 8315 | 8796 | 9977 | 9759 | 0240 | 0722 | 1204 | 1685 | 2167 | 2649 | 3131 | 3613 | 4095 | 76 | 52 | 8227 |
| 426 | 53 | 6479 | 6960 | 7441 | 7922 | 8403 | 8884 | 9366 | 9847 | 0328 | 0816 | 1292 | 1773 | 2255 | 2737 | 3219 | 3701 | 4183 | 77 | 53 | 8316 |
| 434 | 54 | 6568 | 7049 | 7529 | 8011 | 8492 | 8973 | 9454 | 9935 | 0417 | 0898 | 1380 | 1861 | 2343 | 2825 | 3307 | 3789 | 4271 | 79 | 54 | 8406 |
| 442 | 55 | 5 (6) 6656 | 7137 | 7618 | 8099 | 8580 | 9061 | 9542 | 0024 | 0505 | 0986 | 1468 | 1950 | 2431 | 9913 | 3395 | 3877 | 4359 | 80 | 55 | 4 8495 |
| 450 | 56 | 6745 | 7226 | 7707 | 8188 | 8669 | 9130 | 9631 | 0112 | 0593 | 1075 | 1556 | 2038 | 2519 | 3001 | 3483 | 3965 | 4447 | 82 | 56 | 8585 |
| 458 | 57 | 6834 | 7315 | 7796 | 8276 | 8757 | 9238 | 9719 | 0201 | 0682 | 1163 | 1645 | 2126 | 2608 | 3089 | 3571 | 4053 | 4535 | 83 | 57 | 8674 |
| 466 | 58 | 6923 | 7404 | 7884 | 8365 | 8846 | 9327 | 9808 | 0289 | 0770 | 1252 | 1733 | 2215 | 2696 | 3178 | 3659 | 4141 | 4623 | 85 | 58 | 8764 |
| 475 | 59 | 7012 | 7493 | 7973 | 8454 | 8935 | 9416 | 9897 | 6378 | 0859 | 1340 | 1822 | 2303 | 2785 | 3266 | 3748 | 4230 | 4711 | 86 | 59 | 8854 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 18° | Argumento Auxiliar. 0' | | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 18° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 (5) | 8943 | 9423 | 9909 | 0381 | 0861 | 1340 | 1820 | 2300 | 2779 | 3259 | 3739 | 4219 | 4699 | 5179 | 5660 | 6140 | 6621 | 07 | 0' | 5 0220 |
| 8 | 1 | | 9033 | 9513 | 9992 | 0471 | 0951 | 1430 | 1910 | 2389 | 2869 | 3349 | 3829 | 4309 | 4789 | 5269 | 5749 | 6229 | 6710 | 86 | 1 | 6134 |
| 16 | 2 | | 9123 | 9603 | 0082 | 0561 | 1040 | 1520 | 1999 | 2479 | 2959 | 3138 | 3918 | 4398 | 4878 | 5358 | 5838 | 6319 | 6799 | 85 | 2 | 6049 |
| 21 | 3 | | 9913 | 9693 | 0172 | 0661 | 1130 | 1610 | 2089 | 2569 | 3048 | 3528 | 4008 | 4488 | 4968 | 5448 | 5928 | 6408 | 6888 | 83 | 3 | 5964 |
| 32 | 4 | | 9304 | 9783 | 0262 | 0741 | 1920 | 1700 | 2179 | 2659 | 3138 | 3618 | 4098 | 4577 | 5057 | 5537 | 6017 | 6498 | 6978 | 82 | 4 | 5879 |
| 40 | 5 | 4 (5) | 9394 | 9873 | 0352 | 0831 | 1310 | 1790 | 2269 | 2749 | 3228 | 3708 | 4187 | 4667 | 5147 | 5697 | 6107 | 6587 | 7067 | 00 | 5 | 5 5793 |
| 48 | 6 | | 9484 | 9963 | 0442 | 0921 | 1400 | 1880 | 2359 | 2839 | 3318 | 3798 | 4277 | 4757 | 5237 | 5717 | 6197 | 6677 | 7157 | 79 | 6 | 5707 |
| 56 | 7 | | 9575 | 0054 | 0532 | 1012 | 1491 | 1970 | 2149 | 2929 | 3408 | 3888 | 4367 | 4847 | 5327 | 5807 | 6286 | 6766 | 7247 | 77 | 7 | 5622 |
| 64 | 8 | | 9665 | 0144 | 0623 | 1102 | 1581 | 2060 | 2539 | 3019 | 3498 | 3978 | 4457 | 4937 | 5417 | 5896 | 6376 | 6856 | 7336 | 76 | 8 | 5536 |
| 72 | 9 | | 9756 | 0235 | 0713 | 1199 | 1671 | 2151 | 2630 | 3109 | 3588 | 4068 | 4547 | 5027 | 5507 | 5986 | 6466 | 6946 | 7426 | 74 | 9 | 5450 |
| 80 | 10 | 4 (5) | 9846 | 0395 | 0804 | 1283 | 1762 | 2241 | 2720 | 3199 | 3679 | 4158 | 4638 | 5117 | 5597 | 6076 | 6556 | 7036 | 7516 | 73 | 10 | 5 5364 |
| 88 | 11 | | 9937 | 0416 | 0895 | 1374 | 1852 | 2332 | 2811 | 3290 | 3769 | 4248 | 4728 | 5207 | 5687 | 6167 | 6646 | 7126 | 7606 | 71 | 11 | 5978 |
| 96 | 12 | | 0028 | 0507 | 0985 | 1464 | 1943 | 2422 | 2901 | 3380 | 3859 | 4339 | 4818 | 5998 | 5777 | 6257 | 6737 | 7216 | 7696 | 70 | 12 | 5199 |
| 104 | 13 | | 0119 | 0597 | 1076 | 1555 | 2034 | 2513 | 2992 | 3471 | 3950 | 4429 | 4909 | 5388 | 5868 | 6347 | 6827 | 7307 | 7786 | 69 | 13 | 5106 |
| 112 | 14 | | 0210 | 0688 | 1167 | 1646 | 2125 | 2603 | 3082 | 3561 | 4041 | 4520 | 4999 | 5478 | 5958 | 6438 | 6917 | 7397 | 7877 | 67 | 14 | 5020 |
| 120 | 15 | 5 | 0301 | 0779 | 1258 | 1737 | 2215 | 2694 | 3173 | 3652 | 4131 | 4611 | 5090 | 5569 | 6048 | 6528 | 7008 | 7487 | 7967 | 66 | 15 | 5 4931 |
| 128 | 16 | | 0392 | 0870 | 1349 | 1828 | 2306 | 2785 | 3261 | 3743 | 4222 | 4701 | 5180 | 5660 | 6139 | 6618 | 7098 | 7578 | 8057 | 64 | 16 | 4847 |
| 136 | 17 | | 0483 | 0962 | 1440 | 1919 | 2397 | 2876 | 3355 | 3834 | 4313 | 4792 | 5971 | 5750 | 6230 | 6709 | 7189 | 7668 | 8148 | 63 | 17 | 4761 |
| 144 | 18 | | 0574 | 1053 | 1531 | 2010 | 2489 | 2967 | 3446 | 3925 | 4404 | 4883 | 5362 | 5841 | 6321 | 6800 | 7279 | 7759 | 8938 | 61 | 18 | 4674 |
| 152 | 19 | | 0666 | 1144 | 1623 | 2101 | 2580 | 3058 | 3537 | 4016 | 4495 | 1974 | 5453 | 5932 | 6411 | 6891 | 7370 | 7849 | 8329 | 60 | 19 | 4588 |
| 160 | 90 | 5 | 0767 | 1236 | 1714 | 2192 | 2671 | 3150 | 3628 | 4107 | 4586 | 5065 | 5544 | 6023 | 6502 | 6981 | 7461 | 7940 | 8420 | 58 | 90 | 5 4501 |
| 168 | 21 | | 0849 | 1327 | 1805 | 2281 | 2762 | 3241 | 3720 | 4198 | 4677 | 5156 | 5635 | 6114 | 6593 | 7072 | 7552 | 8031 | 8510 | 57 | 91 | 4114 |
| 175 | 22 | | 0910 | 1419 | 1897 | 9375 | 2854 | 3332 | 3811 | 4290 | 4768 | 5247 | 5726 | 6205 | 6684 | 7163 | 7643 | 8122 | 8601 | 65 | 22 | 4397 |
| 183 | 23 | | 1032 | 1510 | 1989 | 2467 | 2945 | 3424 | 3902 | 4384 | 4860 | 5339 | 5817 | 6996 | 6775 | 7255 | 7734 | 8213 | 8692 | 54 | 23 | 4240 |
| 191 | 24 | | 1121 | 1609 | 2080 | 2559 | 3037 | 3515 | 3994 | 4472 | 4951 | 5430 | 5909 | 6388 | 6867 | 7346 | 7825 | 8304 | 8783 | 52 | 24 | 4153 |
| 199 | 25 | 5 | 1216 | 1694 | 2172 | 9650 | 3129 | 3607 | 4085 | 4564 | 5043 | 5591 | 6000 | 6479 | 6958 | 7437 | 7916 | 8395 | 8874 | 61 | 25 | 5 4066 |
| 207 | 26 | | 1308 | 1786 | 2264 | 2742 | 3290 | 3699 | 4177 | 4656 | 5134 | 5613 | 6092 | 6570 | 7049 | 7528 | 8007 | 8406 | 8966 | 50 | 26 | 3979 |
| 215 | 27 | | 1400 | 1078 | 9356 | 2834 | 3312 | 3790 | 4269 | 4747 | 5226 | 5704 | 6183 | 6662 | 7141 | 7620 | 8099 | 8578 | 9057 | 48 | 27 | 3099 |
| 223 | 28 | | 1492 | 1970 | 9448 | 2996 | 3404 | 3882 | 4361 | 4839 | 5318 | 5796 | 6275 | 6754 | 7232 | 7711 | 8190 | 8669 | 9148 | 47 | 28 | 3801 |
| 231 | 29 | | 1584 | 2062 | 9540 | 3018 | 3496 | 3974 | 4453 | 4931 | 5409 | 5888 | 6366 | 6845 | 7394 | 7803 | 8982 | 8761 | 9210 | 45 | 29 | 3717 |
| 239 | 30 | 5 | 1676 | 2154 | 2632 | 3110 | 3588 | 4066 | 4545 | 5093 | 5501 | 5980 | 6458 | 6937 | 7416 | 7894 | 8373 | 8859 | 9331 | 44 | 30 | 5 3629 |
| 247 | 31 | | 1769 | 2946 | 2721 | 3202 | 3680 | 4158 | 4637 | 5115 | 5593 | 6072 | 6550 | 7099 | 7507 | 7986 | 8465 | 8944 | 9423 | 42 | 31 | 3512 |
| 955 | 32 | | 1861 | 2339 | 2817 | 3295 | 3773 | 4951 | 4729 | 5207 | 5685 | 6164 | 6649 | 7121 | 7599 | 8078 | 8557 | 9036 | 9515 | 41 | 39 | 3154 |
| 263 | 33 | | 1954 | 9431 | 2909 | 3387 | 3865 | 4343 | 4821 | 5299 | 5777 | 6256 | 6734 | 7213 | 7691 | 8170 | 8649 | 9127 | 9606 | 39 | 33 | 3366 |
| 271 | 34 | | 2046 | 2594 | 3002 | 3479 | 3957 | 4435 | 4913 | 5391 | 5870 | 6348 | 6826 | 7305 | 7783 | 8262 | 8741 | 9219 | 9698 | 38 | 34 | 3279 |
| 279 | 35 | 5 | 2139 | 9616 | 3094 | 3579 | 4050 | 4528 | 5006 | 5484 | 5962 | 6440 | 6918 | 7397 | 7875 | 8354 | 8833 | 9311 | 9790 | 36 | 35 | 5 3191 |
| 287 | 36 | | 2932 | 2709 | 3187 | 3664 | 4149 | 4620 | 5098 | 5576 | 6054 | 6532 | 7011 | 7489 | 7967 | 8446 | 8925 | 9403 | 9882 | 35 | 36 | 3103 |
| 295 | 37 | | 2394 | 2809 | 3279 | 3757 | 4235 | 4713 | 5191 | 5669 | 6147 | 6625 | 7103 | 7581 | 8060 | 8538 | 9017 | 9495 | 9974 | 34 | 37 | 3015 |
| 303 | 38 | 5 (6) | 2417 | 2895 | 3372 | 3850 | 4398 | 4805 | 5983 | 5761 | 6239 | 6717 | 7195 | 7674 | 8169 | 8631 | 9109 | 9588 | 0066 | 32 | 38 | 2926 |
| 311 | 39 | | 2510 | 2988 | 3465 | 3943 | 4420 | 4898 | 5376 | 5854 | 6332 | 6810 | 7288 | 7766 | 8245 | 8723 | 9201 | 9680 | 0159 | 31 | 39 | 2838 |
| 319 | 40 | 5 (6) | 9603 | 3081 | 3558 | 4036 | 4513 | 4991 | 5469 | 5947 | 6424 | 6903 | 7381 | 7859 | 8337 | 8815 | 9294 | 9772 | 0951 | 29 | 40 | 5 2750 |
| 327 | 41 | | 2696 | 3174 | 3651 | 4129 | 4606 | 5084 | 5569 | 6039 | 6517 | 6995 | 7473 | 7951 | 8430 | 8908 | 9386 | 9865 | 0343 | 28 | 41 | 2661 |
| 335 | 42 | | 9790 | 3967 | 3744 | 4222 | 4699 | 5177 | 5655 | 6132 | 6610 | 7088 | 7566 | 8044 | 8522 | 9001 | 9479 | 9957 | 0436 | 26 | 42 | 9573 |
| 343 | 43 | | 2883 | 3360 | 3838 | 4315 | 4792 | 5270 | 5748 | 6225 | 6703 | 7181 | 7659 | 8137 | 8615 | 9093 | 9571 | 0050 | 0598 | 25 | 43 | 2184 |
| 351 | 44 | | 2976 | 3454 | 3931 | 4408 | 4886 | 5363 | 5841 | 6318 | 6796 | 7274 | 7752 | 8230 | 8708 | 9186 | 9664 | 0143 | 0691 | 23 | 44 | 2396 |
| 359 | 45 | 5 (6) | 3070 | 3547 | 4024 | 4501 | 4979 | 5456 | 5934 | 6411 | 6889 | 7367 | 7845 | 8323 | 8801 | 9979 | 9757 | 0935 | 0714 | 29 | 45 | 5 9307 |
| 367 | 46 | | 3163 | 3640 | 4118 | 4595 | 5072 | 5550 | 6027 | 6505 | 6982 | 7460 | 7938 | 8416 | 8894 | 9372 | 9850 | 0398 | 0806 | 20 | 40 | 2218 |
| 375 | 47 | | 3957 | 3734 | 4211 | 4688 | 5166 | 5643 | 6190 | 6598 | 7076 | 7553 | 8031 | 8509 | 8987 | 9465 | 9943 | 0421 | 0899 | 19 | 47 | 2129 |
| 383 | 40 | | 3351 | 3828 | 4305 | 4782 | 5259 | 5736 | 6214 | 6691 | 7169 | 7646 | 8124 | 8602 | 9080 | 9550 | 0036 | 0514 | 0992 | 17 | 48 | 2040 |
| 391 | 49 | | 3444 | 3991 | 4398 | 4876 | 5353 | 5830 | 6307 | 6785 | 7969 | 7740 | 8918 | 8695 | 9173 | 9651 | 0199 | 0607 | 1085 | 16 | 49 | 1951 |
| 399 | 50 | 5 (6) | 3538 | 4015 | 4499 | 4969 | 5446 | 5924 | 6401 | 6878 | 7356 | 7833 | 8311 | 8789 | 9266 | 9744 | 0922 | 0700 | 1178 | 15 | 50 | 5 1862 |
| 407 | 51 | | 3632 | 4109 | 4586 | 5063 | 5540 | 6017 | 6495 | 6972 | 7449 | 7927 | 8404 | 8882 | 9360 | 9838 | 0315 | 0793 | 1971 | 13 | 61 | 1773 |
| 415 | 52 | | 3726 | 4203 | 4680 | 5157 | 5634 | 6111 | 6588 | 7066 | 7543 | 8090 | 8498 | 8976 | 9453 | 9931 | 0409 | 0887 | 1365 | 12 | 52 | 1684 |
| 493 | 53 | | 3820 | 4297 | 4774 | 5251 | 5728 | 6205 | 6689 | 7159 | 7637 | 8114 | 8599 | 9069 | 9547 | 0025 | 0502 | 0980 | 1458 | 10 | 53 | 1591 |
| 431 | 54 | | 3915 | 4391 | 4868 | 5345 | 5822 | 6299 | 6776 | 7253 | 7730 | 8208 | 0685 | 9163 | 9640 | 0118 | 0596 | 1074 | 1551 | 9 | 54 | 1505 |
| 439 | 55 | 5 (6) | 4009 | 4486 | 4962 | 5439 | 5916 | 6393 | 6870 | 7347 | 7894 | 8309 | 8779 | 9957 | 9734 | 0212 | 0689 | 1167 | 1648 | 7 | 65 | 5 1415 |
| 447 | 56 | | 4103 | 4580 | 5056 | 5533 | 6010 | 6487 | 6964 | 7441 | 7910 | 8396 | 8873 | 9350 | 9820 | 0305 | 0783 | 1264 | 1739 | 6 | 56 | 1325 |
| 455 | 57 | | 4198 | 4674 | 5151 | 5620 | 6104 | 6581 | 7058 | 7535 | 0012 | 8490 | 8967 | 9444 | 9922 | 0399 | 0877 | 1355 | 1839 | 4 | 57 | 1236 |
| 463 | 58 | | 4292 | 4769 | 5245 | 5722 | 6199 | 6676 | 7152 | 7629 | 8107 | 8504 | 9061 | 9538 | 0016 | 0493 | 0971 | 1448 | 1926 | 3 | 58 | 1146 |
| 471 | 59 | | 4307 | 4863 | 5340 | 5816 | 6293 | 6770 | 7247 | 7724 | 0201 | 8678 | 9155 | 9632 | 0110 | 0507 | 1065 | 1542 | 2020 | 1 | 89 | 1057 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg Auxiliar | 18° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 18° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 (6) 7101 | 7582 | 8062 | 8543 | 9024 | 9505 | 9986 | 0467 | 0948 | 1429 | 1210 | 2392 | 2873 | 3355 | 3836 | 4318 | 4799 | 0 | 0′ | 4 8943 |
| 8 | 1 | 7190 | 7671 | 8151 | 8632 | 9113 | 9594 | 0075 | 0556 | 1037 | 1518 | 1999 | 2480 | 2962 | 3443 | 3925 | 4406 | 4888 | 2 | 1 | 9033 |
| 16 | 2 | 7279 | 7760 | 8240 | 8721 | 9202 | 9683 | 0164 | 0645 | 1126 | 1607 | 2088 | 2569 | 3050 | 3532 | 4013 | 4495 | 4977 | 3 | 2 | 2123 |
| 24 | 3 | 7369 | 7849 | 8330 | 8810 | 9291 | 9772 | 0253 | 0734 | 1215 | 1696 | 2177 | 2658 | 3139 | 3621 | 4102 | 4584 | 5065 | 5 | 3 | 9214 |
| 32 | 4 | 7458 | 7938 | 8419 | 8900 | 9380 | 9861 | 0342 | 0823 | 1304 | 1785 | 2266 | 2747 | 3228 | 3709 | 4191 | 4672 | 5154 | 6 | 4 | 2304 |
| 40 | 5 | 5 (6) 7548 | 8028 | 8508 | 8989 | 9469 | 9950 | 0431 | 0912 | 1393 | 1874 | 2355 | 2836 | 3317 | 3798 | 4280 | 4761 | 5243 | 8 | 5 | 4 9394 |
| 48 | 6 | 7637 | 8117 | 8598 | 9078 | 9559 | 0039 | 0520 | 1001 | 1482 | 1963 | 2444 | 2925 | 3406 | 3887 | 4369 | 4850 | 5332 | 9 | 6 | 9484 |
| 56 | 7 | 7727 | 8207 | 8687 | 9168 | 9648 | 0129 | 0610 | 1090 | 1571 | 2052 | 2533 | 3014 | 3495 | 3976 | 4458 | 4939 | 5421 | 11 | 7 | 9575 |
| 64 | 8 | 7816 | 8297 | 8777 | 9257 | 9738 | 0218 | 0699 | 1180 | 1660 | 2141 | 2622 | 3103 | 3584 | 4065 | 4547 | 5028 | 5510 | 12 | 8 | 9665 |
| 72 | 9 | 7906 | 8386 | 8867 | 9347 | 9827 | 0308 | 0788 | 1269 | 1750 | 2231 | 2712 | 3192 | 3674 | 4155 | 4636 | 5117 | 5599 | 14 | 9 | 2756 |
| 80 | 10 | 5 (6) 7996 | 8476 | 8956 | 9437 | 9917 | 0398 | 0878 | 1359 | 1839 | 2320 | 2801 | 3282 | 3763 | 4244 | 4725 | 5206 | 5688 | 15 | 10 | 4 9846 |
| 88 | 11 | 8086 | 8566 | 9046 | 9527 | 0007 | 0487 | 0968 | 1448 | 1929 | 2410 | 2890 | 3371 | 3852 | 4333 | 4814 | 5296 | 5777 | 17 | 11 | 9937 |
| 96 | 12 | 8176 | 8656 | 9136 | 9616 | 0097 | 0577 | 1057 | 1538 | 2019 | 2499 | 2980 | 3461 | 3942 | 4423 | 4904 | 5385 | 5866 | 18 | 12 | 5 0028 |
| 104 | 13 | 8266 | 8746 | 9226 | 9706 | 0187 | 0667 | 1147 | 1628 | 2108 | 2589 | 3070 | 3550 | 4031 | 4512 | 4993 | 5474 | 5956 | 20 | 13 | 0119 |
| 112 | 14 | 8356 | 8836 | 9316 | 9797 | 0277 | 0757 | 1237 | 1718 | 2198 | 2679 | 3159 | 3640 | 4121 | 4602 | 5083 | 5564 | 6045 | 22 | 14 | 0210 |
| 120 | 15 | 5 (6) 8447 | 8927 | 9407 | 9887 | 0367 | 0847 | 1327 | 1808 | 2288 | 2769 | 3249 | 3730 | 4211 | 4692 | 5172 | 5653 | 6134 | 23 | 15 | 5 0301 |
| 128 | 16 | 8537 | 9017 | 9497 | 9977 | 0457 | 0937 | 1417 | 1898 | 2378 | 2859 | 3339 | 3820 | 4300 | 4781 | 5262 | 5743 | 6224 | 25 | 16 | 0392 |
| 136 | 17 | 8628 | 9107 | 9587 | 0067 | 0547 | 1027 | 1508 | 1988 | 2468 | 2949 | 3429 | 3910 | 4390 | 4871 | 5352 | 5833 | 6314 | 26 | 17 | 0483 |
| 144 | 18 | 8718 | 9198 | 9678 | 0158 | 0638 | 1118 | 1598 | 2078 | 2558 | 3039 | 3519 | 4000 | 4480 | 4961 | 5442 | 5923 | 6404 | 28 | 18 | 0575 |
| 152 | 19 | 8809 | 9288 | 9768 | 0248 | 0728 | 1208 | 1688 | 2168 | 2649 | 3129 | 3609 | 4090 | 4570 | 5051 | 5532 | 6013 | 6493 | 29 | 12 | 0666 |
| 160 | 20 | 5 (6) 8899 | 9379 | 9859 | 0339 | 0818 | 1298 | 1778 | 2259 | 2739 | 3219 | 3699 | 4180 | 4660 | 5141 | 5622 | 6103 | 6583 | 31 | 20 | 5 0757 |
| 168 | 21 | 8990 | 9470 | 9949 | 0429 | 0909 | 1389 | 1869 | 2349 | 2829 | 3309 | 3790 | 4270 | 4751 | 5231 | 5712 | 6193 | 6673 | 32 | 21 | 0849 |
| 176 | 22 | 9081 | 9560 | 0040 | 0520 | 1000 | 1480 | 1959 | 2440 | 2920 | 3400 | 3880 | 4361 | 4841 | 5321 | 5802 | 6283 | 6763 | 34 | 22 | 0941 |
| 184 | 23 | 2172 | 9651 | 0131 | 0611 | 1090 | 1570 | 2050 | 2530 | 3010 | 3490 | 3971 | 4451 | 4931 | 5412 | 5892 | 6373 | 6854 | 35 | 23 | 1032 |
| 192 | 24 | 9263 | 9742 | 0222 | 0701 | 1181 | 1661 | 2141 | 2621 | 3101 | 3581 | 4061 | 4541 | 5022 | 5502 | 5983 | 6463 | 6944 | 37 | 24 | 1124 |
| 200 | 25 | 5 (6) 9354 | 9833 | 0313 | 0792 | 1272 | 1752 | 2232 | 2712 | 3122 | 3672 | 4152 | 4632 | 5112 | 5593 | 6073 | 6554 | 7034 | 39 | 25 | 5 1216 |
| 208 | 26 | 2445 | 9924 | 0404 | 0883 | 1363 | 1843 | 2322 | 2802 | 3282 | 3762 | 4242 | 4723 | 5203 | 5683 | 6164 | 6644 | 7125 | 40 | 26 | 1308 |
| 216 | 27 | 2536 | 0016 | 0495 | 0974 | 1454 | 1934 | 2413 | 2893 | 3373 | 3853 | 4333 | 4813 | 5294 | 5774 | 6254 | 6735 | 7215 | 42 | 27 | 1400 |
| 224 | 28 | 9628 | 0107 | 0586 | 1066 | 1545 | 2025 | 2504 | 2984 | 3464 | 3944 | 4424 | 4904 | 5384 | 5864 | 6345 | 6825 | 7306 | 43 | 28 | 1492 |
| 232 | 29 | 9712 | 0198 | 0677 | 1157 | 1636 | 2116 | 2596 | 3075 | 3555 | 4035 | 4515 | 4995 | 5475 | 5955 | 6436 | 6916 | 7396 | 45 | 29 | 1584 |
| 240 | 30 | 5 (6) 9810 | 0290 | 0769 | 1248 | 1728 | 2207 | 2687 | 3166 | 3646 | 4126 | 4606 | 5086 | 5566 | 6046 | 6526 | 7007 | 7487 | 46 | 30 | 5 1676 |
| 248 | 31 | 9902 | 0381 | 0860 | 1340 | 1819 | 2298 | 2778 | 3258 | 3737 | 4217 | 4697 | 5177 | 5657 | 6137 | 6617 | 7037 | 7578 | 48 | 31 | 1769 |
| 256 | 32 | 9994 | 0473 | 0952 | 1431 | 1910 | 2390 | 2869 | 3349 | 3829 | 4308 | 4788 | 5268 | 5748 | 6228 | 6708 | 7188 | 7669 | 49 | 32 | 1861 |
| 264 | 33 | 6 0085 | 0564 | 1044 | 1523 | 2002 | 2481 | 2961 | 3440 | 3920 | 4400 | 4879 | 5359 | 5839 | 6319 | 6799 | 7272 | 7760 | 51 | 33 | 1954 |
| 272 | 34 | 0177 | 0656 | 1135 | 1614 | 2094 | 2573 | 3052 | 3532 | 4011 | 4491 | 4971 | 5451 | 5930 | 6410 | 6890 | 7371 | 7851 | 52 | 34 | 2046 |
| 280 | 35 | 6 0269 | 0748 | 1227 | 1706 | 2185 | 2664 | 3144 | 3623 | 4103 | 4582 | 5062 | 5542 | 6022 | 6502 | 6982 | 7462 | 7942 | 54 | 35 | 5 2139 |
| 288 | 36 | 0361 | 0840 | 1319 | 1798 | 2277 | 2756 | 3236 | 3715 | 4194 | 4674 | 5154 | 5633 | 6113 | 6593 | 7073 | 7553 | 8033 | 55 | 36 | 2232 |
| 296 | 37 | 0453 | 0932 | 1411 | 1890 | 2369 | 2848 | 3327 | 3807 | 4286 | 4766 | 5245 | 5725 | 6205 | 6684 | 7164 | 7644 | 8124 | 57 | 37 | 2321 |
| 304 | 38 | 0545 | 1024 | 1503 | 1982 | 2461 | 2940 | 3419 | 3898 | 4378 | 4857 | 5337 | 5816 | 6296 | 6776 | 7256 | 7736 | 8216 | 59 | 38 | 2417 |
| 312 | 39 | 0637 | 1116 | 1595 | 2074 | 2553 | 3032 | 3511 | 3990 | 4470 | 4949 | 5429 | 5908 | 6388 | 6867 | 7347 | 7827 | 8307 | 60 | 39 | 2510 |
| 320 | 40 | 6 8729 | 1208 | 1687 | 2166 | 2645 | 3124 | 3603 | 4082 | 4562 | 5041 | 5520 | 6000 | 6479 | 6959 | 7439 | 7912 | 8399 | 62 | 40 | 5 2603 |
| 328 | 41 | 0822 | 1301 | 1779 | 2258 | 2737 | 3216 | 3695 | 4174 | 4654 | 5133 | 5612 | 6092 | 6571 | 7051 | 7531 | 8010 | 8490 | 63 | 41 | 2696 |
| 336 | 42 | 0914 | 1393 | 1872 | 2350 | 2829 | 3308 | 3787 | 4266 | 4746 | 5225 | 5704 | 6184 | 6663 | 7143 | 7622 | 8102 | 8582 | 65 | 42 | 2790 |
| 344 | 43 | 1007 | 1485 | 1961 | 2443 | 2922 | 3400 | 3879 | 4358 | 4838 | 5347 | 5796 | 6276 | 6755 | 7234 | 7714 | 8194 | 8674 | 66 | 43 | 2883 |
| 352 | 44 | 1099 | 1578 | 2056 | 2535 | 3014 | 3492 | 3972 | 4451 | 4930 | 5409 | 5888 | 6368 | 6847 | 7327 | 7806 | 8286 | 8765 | 68 | 44 | 2976 |
| 360 | 45 | 6 1192 | 1670 | 2149 | 2628 | 3106 | 3585 | 4064 | 4543 | 5022 | 5501 | 5980 | 6460 | 6939 | 7419 | 7898 | 8378 | 8857 | 69 | 45 | 5 3070 |
| 368 | 46 | 1285 | 1763 | 2242 | 2720 | 3199 | 3678 | 4157 | 4635 | 5115 | 5594 | 6073 | 6552 | 7031 | 7511 | 7290 | 8470 | 8949 | 71 | 46 | 3163 |
| 376 | 47 | 1378 | 1856 | 2334 | 2813 | 3292 | 3770 | 4249 | 4728 | 5207 | 5686 | 6165 | 6644 | 7124 | 7603 | 8082 | 8562 | 9041 | 72 | 47 | 3257 |
| 384 | 48 | 1470 | 1942 | 2427 | 2906 | 3384 | 3863 | 4342 | 4821 | 5299 | 5778 | 6258 | 6737 | 7216 | 7695 | 8175 | 8654 | 9133 | 74 | 48 | 3351 |
| 392 | 49 | 1563 | 2042 | 2520 | 2999 | 3477 | 3956 | 4434 | 4913 | 5392 | 5871 | 6350 | 6829 | 7308 | 7787 | 8267 | 8746 | 9226 | 76 | 49 | 3445 |
| 400 | 50 | 6 1656 | 2135 | 2613 | 3092 | 3570 | 4049 | 4527 | 5006 | 5485 | 5964 | 6443 | 6922 | 7401 | 7880 | 8359 | 8839 | 9318 | 77 | 50 | 5 3538 |
| 408 | 51 | 1750 | 2228 | 2706 | 3185 | 3663 | 4141 | 4620 | 5099 | 5578 | 6056 | 6535 | 7014 | 7493 | 7972 | 8452 | 8931 | 9410 | 79 | 51 | 3632 |
| 416 | 52 | 1843 | 2321 | 2799 | 3278 | 3756 | 4234 | 4713 | 5192 | 5670 | 6149 | 6628 | 7107 | 7586 | 8065 | 8544 | 9023 | 9503 | 80 | 52 | 3726 |
| 424 | 53 | 1936 | 2414 | 2892 | 3371 | 3849 | 4328 | 4806 | 5285 | 5763 | 6242 | 6721 | 7200 | 7679 | 8158 | 8637 | 9116 | 9595 | 82 | 53 | 3820 |
| 432 | 54 | 2030 | 2508 | 2986 | 3464 | 3942 | 4421 | 4899 | 5378 | 5856 | 6335 | 6814 | 7293 | 7771 | 8250 | 8730 | 9209 | 9688 | 83 | 54 | 3915 |
| 440 | 55 | 6 2123 | 2601 | 3079 | 3557 | 4036 | 4514 | 4992 | 5471 | 5949 | 6428 | 6907 | 7385 | 7864 | 8343 | 8822 | 9302 | 9781 | 85 | 55 | 5 4009 |
| 448 | 56 | 2216 | 2694 | 3173 | 3651 | 4129 | 4607 | 5085 | 5564 | 6042 | 6521 | 7000 | 7478 | 7957 | 8436 | 8915 | 9394 | 9874 | 86 | 56 | 4103 |
| 456 | 57 | 2310 | 2788 | 3266 | 3744 | 4222 | 4700 | 5179 | 5657 | 6136 | 6614 | 7093 | 7572 | 8050 | 8529 | 9008 | 9487 | 9966 | 88 | 57 | 4198 |
| 464 | 58 | 6 (7) 2404 | 2882 | 3360 | 3838 | 4316 | 4794 | 5272 | 5751 | 6229 | 6707 | 7186 | 7665 | 8144 | 8622 | 9101 | 9580 | 0059 | 89 | 58 | 4292 |
| 472 | 59 | 2498 | 2975 | 3453 | 3931 | 4409 | 4887 | 5365 | 5844 | 6322 | 6801 | 7279 | 7758 | 8237 | 8716 | 9194 | 9673 | 0152 | 21 | 59 | 4387 |

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**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 19° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 19° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 5 (6) 4481 | 4958 | 5434 | 5911 | 6388 | 6861 | 7341 | 7818 | 8993 | 8772 | 9249 | 9726 | 0204 | 0681 | 1159 | 1636 | 2114 | 92 | 0' | 5 0967 |
| 8 | 1 | 4576 | 5052 | 5599 | 6005 | 6482 | 6959 | 7436 | 7919 | 8389 | 8866 | 9344 | 9891 | 0298 | 0775 | 1253 | 1730 | 2208 | 91 | 1 | 0877 |
| 16 | 2 | 4671 | 5147 | 5624 | 6100 | 6577 | 7053 | 7530 | 8007 | 8181 | 8961 | 9438 | 9915 | 0392 | 0869 | 1347 | 1824 | 9302 | 89 | 2 | 0786 |
| 24 | 3 | 4766 | 5242 | 5718 | 6195 | 6671 | 7148 | 7625 | 8101 | 8578 | 9055 | 9532 | 0009 | 0487 | 0964 | 1441 | 1918 | 2396 | 88 | 3 | 0696 |
| 32 | 4 | 4861 | 5337 | 5813 | 6290 | 6766 | 7243 | 7719 | 8196 | 8673 | 9150 | 9627 | 0104 | 0581 | 1058 | 1535 | 2013 | 2490 | 86 | 4 | 0606 |
| 40 | 5 | 5 (6) 4956 | 5432 | 5908 | 6385 | 6861 | 7338 | 7814 | 8291 | 8768 | 9244 | 9721 | 0198 | 0675 | 1153 | 1630 | 2107 | 2584 | 85 | 5 | 5 0516 |
| 48 | 6 | 5051 | 5527 | 6003 | 6180 | 6956 | 7433 | 7909 | 8386 | 8862 | 9339 | 9816 | 0293 | 0770 | 1247 | 1724 | 2201 | 2679 | 83 | 6 | 0425 |
| 55 | 7 | 5146 | 5622 | 6098 | 6575 | 7051 | 7528 | 8004 | 8481 | 8957 | 9131 | 9911 | 0388 | 0865 | 1342 | 1819 | 2296 | 9773 | 82 | 7 | 0335 |
| 64 | 8 | 5242 | 5718 | 6194 | 6670 | 7146 | 7693 | 8099 | 8576 | 9052 | 9599 | 0005 | 0182 | 0959 | 1436 | 1913 | 9391 | 2868 | 80 | 8 | 0944 |
| 71 | 9 | 5337 | 5813 | 6949 | 6765 | 7241 | 7718 | 8194 | 8671 | 9147 | 9694 | 0100 | 0577 | 1051 | 1531 | 2008 | 9185 | 2962 | 79 | 9 | 0154 |
| 79 | 10 | 5 (6) 5432 | 5908 | 6381 | 6860 | 7337 | 7813 | 8289 | 8766 | 9212 | 9719 | 0195 | 0672 | 1149 | 1626 | 2103 | 2580 | 3057 | 77 | 10 | 5 0063 |
| 87 | 11 | 5528 | 6004 | 6480 | 6956 | 7432 | 7908 | 8385 | 8861 | 9337 | 9814 | 0290 | 0767 | 1244 | 1721 | 2198 | 2675 | 3152 | 76 | 11 | 4 9972 |
| 95 | 12 | 5624 | 6099 | 6575 | 7051 | 7527 | 8004 | 8480 | 8956 | 9433 | 9909 | 0386 | 0862 | 1339 | 1816 | 2293 | 2770 | 3247 | 74 | 12 | 9881 |
| 103 | 13 | 5719 | 6195 | 6671 | 7147 | 7623 | 8099 | 8575 | 9052 | 9528 | 0004 | 0481 | 0957 | 1431 | 1911 | 2388 | 2865 | 3342 | 72 | 13 | 9790 |
| 111 | 14 | 5815 | 6291 | 6767 | 7243 | 7719 | 8195 | 8671 | 9147 | 9623 | 0100 | 0576 | 1053 | 1529 | 2006 | 2483 | 2960 | 3437 | 71 | 14 | 9699 |
| 119 | 15 | 5 (6) 5911 | 6387 | 6862 | 7338 | 7814 | 8290 | 8766 | 9212 | 9719 | 0195 | 0672 | 1148 | 1625 | 2101 | 2578 | 3055 | 3532 | 69 | 15 | 4 9608 |
| 127 | 16 | 6007 | 6483 | 6958 | 7434 | 7910 | 8386 | 8862 | 9338 | 9811 | 0291 | 0767 | 1213 | 1720 | 2197 | 2673 | 3150 | 3627 | 68 | 16 | 9517 |
| 135 | 17 | 6103 | 6579 | 7054 | 7530 | 8006 | 8482 | 8958 | 9434 | 9910 | 0386 | 0863 | 1339 | 1815 | 2292 | 2769 | 3245 | 3722 | 66 | 17 | 9425 |
| 143 | 18 | 6199 | 6675 | 7150 | 7626 | 8102 | 8578 | 9053 | 9530 | 0006 | 0489 | 0958 | 1435 | 1911 | 2387 | 2864 | 3341 | 3818 | 65 | 18 | 9334 |
| 151 | 19 | 6295 | 6771 | 7946 | 7722 | 8198 | 8674 | 9149 | 9625 | 0101 | 0578 | 1054 | 1530 | 2007 | 2483 | 2960 | 3436 | 3913 | 63 | 19 | 9243 |
| 159 | 20 | 5 (6) 6391 | 6867 | 7312 | 7818 | 8294 | 8770 | 9245 | 9721 | 0197 | 0673 | 1150 | 1626 | 2102 | 2579 | 3055 | 353[illegible] | 4008 | 62 | 20 | 4 9151 |
| 166 | 21 | 6488 | 6963 | 7439 | 7914 | 8390 | 8866 | 9341 | 9817 | 0293 | 0769 | 1945 | 1792 | 2198 | 2671 | 3151 | 3627 | 4104 | 60 | 21 | 9059 |
| 174 | 22 | 6584 | 7060 | 7535 | 8011 | 8486 | 8962 | 9438 | 9913 | 0389 | 0865 | 1341 | 1818 | 9294 | 2770 | 3217 | 3723 | 4200 | 69 | 22 | 8968 |
| 182 | 23 | 6681 | 7156 | 7631 | 8107 | 8589 | 9058 | 9534 | 0010 | 0485 | 0961 | 1437 | 1914 | 2390 | 9866 | 3342 | 3819 | 4295 | 57 | 23 | 8876 |
| 190 | 24 | 6777 | 7253 | 7727 | 8203 | 8679 | 9154 | 9630 | 0106 | 0582 | 1058 | 1534 | 2010 | 2486 | 2962 | 3438 | 3915 | 4391 | 55 | 24 | 8784 |
| 198 | 25 | 5 (6) 6874 | 7349 | 7824 | 8300 | 8775 | 9251 | 9726 | 0902 | 0678 | 1154 | 1630 | 9106 | 2582 | 3058 | 3534 | 4011 | 4187 | 54 | 25 | 4 8692 |
| 206 | 26 | 6971 | 7446 | 7921 | 8396 | 8872 | 9347 | 9823 | 0299 | 0774 | 1250 | 1726 | 2209 | 2678 | 3151 | 3630 | 4107 | 4583 | 62 | 26 | 8600 |
| 214 | 27 | 7068 | 7543 | 8018 | 8493 | 8968 | 9414 | 9919 | 0395 | 0871 | 1347 | 1822 | 2298 | 2774 | 3250 | 3726 | 4203 | 1679 | 51 | 27 | 8508 |
| 222 | 28 | 7164 | 7640 | 8116 | 8590 | 9065 | 9541 | 0016 | 0492 | 0967 | 1443 | 1919 | 2395 | 2871 | 3347 | 3823 | 4299 | 4775 | 49 | 28 | 8416 |
| 230 | 29 | 7961 | 7736 | 8212 | 8687 | 9162 | 9637 | 0113 | 0588 | 1064 | 1539 | 2015 | 2491 | 2967 | 3443 | 3919 | 1395 | 4871 | 48 | 29 | 8324 |
| 238 | 30 | 5 (6) 7358 | 7833 | 8309 | 8784 | 9259 | 9734 | 0210 | 0685 | 1160 | 1636 | 2112 | 2588 | 3061 | 3539 | 4015 | 4491 | 4968 | 46 | 30 | 4 8931 |
| 246 | 31 | 7456 | 7930 | 8406 | 8881 | 9356 | 9831 | 0306 | 0782 | 1257 | 1733 | 2208 | 2684 | 3160 | 3636 | 4112 | 1588 | 5064 | 46 | 31 | 8139 |
| 254 | 32 | 7553 | 8028 | 8503 | 8978 | 9453 | 9928 | 0403 | 0879 | 1354 | 1830 | 2303 | 2781 | 3257 | 3732 | 4208 | 4684 | 5160 | 43 | 32 | 8046 |
| 962 | 33 | 7630 | 8125 | 8603 | 9075 | 9550 | 0095 | 0500 | 0976 | 1451 | 1926 | 2402 | 2878 | 3353 | 3829 | 4305 | 1781 | 5257 | 42 | 33 | 7954 |
| 269 | 34 | 7748 | 8222 | 8697 | 9172 | 9647 | 0192 | 0597 | 1073 | 1548 | 2023 | 9499 | 2974 | 3450 | 3926 | 4402 | 4878 | 5354 | 40 | 34 | 7861 |
| 277 | 35 | 5 (6) 7845 | 8320 | 8795 | 9269 | 9741 | 0219 | 0695 | 1170 | 1645 | 2120 | 2596 | 3071 | 3547 | 4023 | 4498 | 4974 | 5450 | 39 | 35 | 4 7768 |
| 285 | 36 | 7943 | 8417 | 8892 | 9367 | 9849 | 0317 | 0792 | 1267 | 1742 | 2218 | 2693 | 3168 | 3644 | 4120 | 4595 | 5071 | 5547 | 37 | 36 | 7676 |
| 293 | 37 | 8040 | 8515 | 8990 | 9461 | 9939 | 0414 | 0889 | 1364 | 1839 | 2315 | 2790 | 3265 | 3741 | 4217 | 4692 | 5168 | 5644 | 35 | 37 | 7583 |
| 301 | 38 | 8138 | 8612 | 9087 | 9562 | 0037 | 0512 | 0986 | 1462 | 1937 | 9419 | 2887 | 3363 | 3838 | 4314 | 4789 | 5265 | 5741 | 34 | 38 | 7490 |
| 309 | 39 | 8236 | 8710 | 9185 | 9659 | 0131 | 0609 | 1084 | 1559 | 9034 | 2509 | 2985 | 3460 | 3935 | 4411 | 4886 | 5362 | 5838 | 32 | 39 | 7397 |
| 317 | 40 | 5 (6) 8333 | 8808 | 9283 | 9757 | 0232 | 0707 | 1182 | 1657 | 2132 | 2607 | 3082 | 3557 | 4032 | 4508 | 1983 | 5159 | 5935 | 31 | 40 | 4 7304 |
| 325 | 41 | 8431 | 8906 | 9380 | 9855 | 0330 | 0804 | 1279 | 1754 | 2229 | 2704 | 3179 | 3654 | 4130 | 4605 | 5081 | 5556 | 6032 | 29 | 41 | 7210 |
| 333 | 42 | 8529 | 9004 | 9478 | 9953 | 0427 | 0902 | 1377 | 1852 | 2327 | 2802 | 3277 | 3752 | 4227 | 4703 | 5178 | 3654 | 6129 | 28 | 42 | 7117 |
| 341 | 43 | 8628 | 9102 | 9576 | 0051 | 0525 | 1000 | 1175 | 1950 | 2124 | 2899 | 3374 | 3850 | 4325 | 4800 | 5275 | 5751 | 6226 | 26 | 43 | 7024 |
| 349 | 44 | 8796 | 9200 | 9674 | 0149 | 0623 | 1098 | 1573 | 2017 | 2522 | 2997 | 3472 | 3947 | 4422 | 4898 | 5373 | 5848 | 6324 | 26 | 44 | 6930 |
| 357 | 45 | 5 (6) 8824 | 9298 | 9773 | 0217 | 0721 | 1196 | 1671 | 9145 | 2620 | 3095 | 3570 | 4045 | 4520 | 4995 | 5470 | 5946 | 6421 | 23 | 45 | 4 6837 |
| 365 | 46 | 8922 | 9396 | 9871 | 0345 | 0820 | 1294 | 1769 | 2243 | 2718 | 3193 | 3668 | 4143 | 4618 | 5093 | 5568 | 6043 | 6519 | 22 | 46 | 6743 |
| 373 | 47 | 9021 | 9495 | 9969 | 0443 | 0918 | 1399 | 1867 | 2341 | 2816 | 3291 | 3766 | 4941 | 4716 | 5191 | 5666 | 6141 | 6616 | 20 | 47 | 6649 |
| 380 | 48 | 9119 | 9593 | 0067 | 0542 | 1016 | 1490 | 1965 | 2439 | 2914 | 3389 | 3864 | 4339 | 4813 | 5289 | 5764 | 6239 | 6714 | 18 | 48 | 6555 |
| 388 | 49 | 9918 | 9692 | 0166 | 0640 | 1114 | 1589 | 2063 | 2538 | 3012 | 3487 | 3962 | 4437 | 4911 | 5386 | 5862 | 6337 | 6812 | 17 | 49 | 6462 |
| 096 | 50 | 5 (6) 9316 | 9790 | 0264 | 0739 | 1213 | 1687 | 2162 | 2636 | 3111 | 3585 | 4060 | 4535 | 5010 | 5484 | 5960 | 6435 | 6910 | 13 | 50 | 4 6368 |
| 404 | 51 | 9415 | 9889 | 0363 | 0837 | 1311 | 1786 | 2260 | 2734 | 3209 | 3683 | 4158 | 4633 | 5108 | 5583 | 6058 | 6533 | 7008 | 11 | 51 | 6274 |
| 412 | 52 | 9514 | 9988 | 0462 | 0936 | 1410 | 1884 | 2358 | 2833 | 3307 | 3782 | 4256 | 4731 | 5206 | 5681 | 6160 | 6631 | 7106 | 12 | 62 | 6180 |
| 420 | 53 | 9613 | 0087 | 0561 | 1035 | 1609 | 1983 | 2457 | 2931 | 3406 | 3880 | 4356 | 4899 | 5304 | 5779 | 6254 | 6799 | 7204 | 11 | 53 | 6085 |
| 428 | 54 | 9712 | 0186 | 0660 | 1133 | 1607 | 2082 | 2556 | 3030 | 3504 | 3979 | 4453 | 4928 | 5403 | 5877 | 6352 | 6827 | 7302 | 9 | 54 | 5991 |
| 436 | 55 | 5 (6) 9811 | 0285 | 0758 | 1232 | 1706 | 2180 | 2654 | 3129 | 3603 | 4077 | 4552 | 5096 | 5501 | 5976 | 6450 | 6925 | 7400 | 8 | 55 | 4 5897 |
| 444 | 56 | 9910 | 0384 | 0857 | 1331 | 1805 | 2279 | 2753 | 3227 | 3702 | 4176 | 4630 | 6125 | 5599 | 6074 | 6549 | 7023 | 7499 | 6 | 56 | 5802 |
| 452 | 57 | 6 0009 | 0483 | 0957 | 1430 | 1904 | 2378 | 9852 | 3326 | 3801 | 4276 | 4749 | 5224 | 5698 | 6173 | 6647 | 7192 | 7597 | 6 | 67 | 5708 |
| 460 | 58 | 0108 | 0589 | 1036 | 1530 | 2003 | 2477 | 2951 | 3425 | 3859 | 4374 | 4818 | 5329 | 5797 | 6271 | 6746 | 7221 | 7695 | 3 | 68 | 5613 |
| 468 | 59 | 0208 | 0681 | 1165 | 1629 | 2103 | 2576 | 3050 | 3624 | 3998 | 4473 | 4947 | 5421 | 5896 | 6370 | 6845 | 7319 | 7794 | 2 | 59 | 5519 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 19° | 17′ | 18′ | 19′ | 26′ | 91′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 39′ | 31′ | 32′ | 33′ | Partes para segundos. | 19° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 6 (7) 2591 | 3069 | 3547 | 4025 | 4503 | 4981 | 5459 | 5937 | 6416 | 6894 | 7373 | 7851 | 8339 | 8809 | 9288 | 9766 | 0245 | 6 | 0′ | 5 4481 |
| 8 | 1 | 2685 | 3163 | 3641 | 4119 | 4597 | 5075 | 5553 | 6031 | 6509 | 6988 | 7466 | 7945 | 8493 | 8902 | 9381 | 9860 | 0339 | 2 | 1 | 4576 |
| 15 | 2 | 2779 | 3967 | 3735 | 4213 | 4691 | 5169 | 5647 | 6125 | 6693 | 7981 | 7560 | 8038 | 8517 | 8995 | 9474 | 9953 | 0432 | 3 | 2 | 4671 |
| 24 | 3 | 2873 | 3351 | 3829 | 4307 | 4784 | 5262 | 5740 | 6219 | 6697 | 7175 | 7653 | 8132 | 8610 | 9089 | 9568 | 0046 | 0525 | 0 | 3 | 4700 |
| 32 | 4 | 2968 | 3445 | 3923 | 4491 | 4878 | 5356 | 5834 | 6312 | 6791 | 7269 | 7747 | 8225 | 8704 | 9182 | 9661 | 0140 | 9619 | 6 | 4 | 4861 |
| 49 | 6 | 6 (7) 3062 | 3539 | 4017 | 4495 | 4972 | 5430 | 5928 | 6406 | 6884 | 7363 | 7841 | 8319 | 8798 | 9276 | 9755 | 0233 | 0712 | 0 | 0 | 6 4956 |
| 48 | 6 | 3156 | 3634 | 4111 | 4589 | 5067 | 5544 | 6022 | 6500 | 6978 | 7457 | 7935 | 8413 | 8891 | 9370 | 9818 | 0327 | 0866 | 10 | 6 | 5951 |
| 56 | 7 | 3251 | 3728 | 4206 | 4683 | 5161 | 5639 | 6116 | 6594 | 7072 | 7551 | 8099 | 8507 | 8985 | 9464 | 9942 | 0421 | 0899 | 11 | 7 | 6146 |
| 64 | 8 | 3345 | 3822 | 4300 | 4778 | 5255 | 5733 | 6211 | 6688 | 7166 | 7645 | 8123 | 8601 | 9079 | 9557 | 0036 | 0514 | 0993 | 13 | 8 | 0242 |
| 72 | 9 | 3440 | 3917 | 4394 | 4872 | 5356 | 5827 | 6305 | 6783 | 7261 | 7739 | 8217 | 8695 | 9173 | 9651 | 0130 | 0608 | 1987 | 15 | 8 | 6337 |
| 80 | 16 | 6 (7) 3531 | 4912 | 4489 | 4966 | 5444 | 5922 | 6399 | 6877 | 7355 | 7833 | 8311 | 8789 | 9267 | 9745 | 0224 | 0702 | 1181 | 16 | 16 | 0 5432 |
| 88 | 11 | 3629 | 4106 | 4584 | 5961 | 5538 | 6616 | 6494 | 6971 | 7449 | 7527 | 8485 | 8883 | 9361 | 9839 | 0318 | 0796 | 1275 | 18 | 11 | 6528 |
| 95 | 19 | 3724 | 4291 | 4678 | 5156 | 5633 | 6111 | 6588 | 7066 | 7544 | 8021 | 8499 | 8977 | 9455 | 9934 | 0412 | 0890 | 1369 | 19 | 12 | 5624 |
| 193 | 13 | 3819 | 1296 | 4773 | 5259 | 6728 | 6205 | 6683 | 7160 | 7638 | 8116 | 8594 | 9072 | 9550 | 0098 | 0506 | 0981 | 1463 | 21 | 13 | 0719 |
| 111 | 14 | 3914 | 4391 | 4868 | 5345 | 5823 | 6300 | 6778 | 7255 | 7733 | 8210 | 8688 | 2166 | 9614 | 6122 | 0600 | 1079 | 1557 | 23 | 14 | 6815 |
| 119 | 15 | 6 (7) 4909 | 4486 | 4963 | 5440 | 5917 | 6395 | 6872 | 7350 | 7827 | 8305 | 8783 | 9261 | 9739 | 9217 | 0695 | 1173 | 1651 | 24 | 16 | 0 5911 |
| 127 | 16 | 4194 | 4581 | 5058 | 5535 | 6612 | 6190 | 6967 | 7415 | 7922 | 8400 | 8877 | 9355 | 9833 | 0311 | 0789 | 1267 | 1745 | 26 | 16 | 6097 |
| 135 | 17 | 4199 | 4676 | 5153 | 5636 | 6107 | 6585 | 7062 | 7539 | 8017 | 8495 | 8972 | 9450 | 9928 | 9406 | 9884 | 1362 | 1840 | 27 | 17 | 6193 |
| 143 | 18 | 4294 | 1771 | 5248 | 5795 | 6202 | 6630 | 7157 | 7634 | 8112 | 8589 | 9067 | 9545 | 0022 | 0500 | 0978 | 1456 | 1934 | 99 | 18 | 6199 |
| 151 | 19 | 4399 | 4867 | 5343 | 5821 | 6298 | 6775 | 7252 | 7729 | 8207 | 8684 | 9162 | 9648 | 0117 | 0595 | 1073 | 1551 | 2029 | 31 | 19 | 0295 |
| 159 | 20 | 6 (7) 4485 | 4962 | 5439 | 5916 | 6393 | 6870 | 7347 | 7824 | 8302 | 8779 | 9257 | 9731 | 0212 | 0690 | 1168 | 1646 | 2124 | 32 | 29 | 6 6391 |
| 167 | 21 | 4581 | 5057 | 5534 | 6011 | 6188 | 6965 | 7442 | 7990 | 8397 | 8874 | 9352 | 9829 | 0307 | 9785 | 1262 | 1740 | 2218 | 34 | 21 | 6488 |
| 175 | 22 | 4676 | 5153 | 5630 | 6107 | 6581 | 7061 | 7538 | 8015 | 8492 | 8970 | 9447 | 9924 | 0462 | 0880 | 1357 | 1835 | 2313 | 36 | 92 | 6584 |
| 183 | 23 | 4772 | 5249 | 5725 | 6202 | 6670 | 7156 | 7633 | 8110 | 8587 | 9065 | 9542 | 8020 | 9497 | 0975 | 1452 | 1930 | 2408 | 37 | 23 | 6681 |
| 191 | 24 | 4868 | 5344 | 5821 | 6298 | 6775 | 7252 | 7729 | 8206 | 8683 | 9160 | 9637 | 9115 | 0592 | 1070 | 1548 | 2025 | 2563 | 39 | 24 | 6777 |
| 199 | 25 | 6 (7) 4963 | 5440 | 5917 | 6393 | 6870 | 7347 | 7824 | 8301 | 8778 | 9255 | 9733 | 0210 | 0688 | 1165 | 1643 | 2120 | 2598 | 40 | 25 | 5 6874 |
| 207 | 26 | 6659 | 5536 | 6013 | 6489 | 6966 | 7443 | 7926 | 8397 | 8874 | 9351 | 9828 | 0305 | 0783 | 1260 | 1738 | 2215 | 2693 | 42 | 26 | 6971 |
| 215 | 27 | 0155 | 5632 | 6198 | 6585 | 7962 | 7539 | 8015 | 8492 | 8969 | 9446 | 9924 | 9491 | 9878 | 1356 | 1833 | 2311 | 2788 | 44 | 27 | 7968 |
| 223 | 28 | 6251 | 5728 | 6294 | 6681 | 7158 | 7634 | 8111 | 8588 | 9065 | 9542 | 0019 | 9496 | 0974 | 1451 | 1929 | 9466 | 2884 | 45 | 28 | 7164 |
| 231 | 29 | 6340 | 5824 | 6300 | 6777 | 7254 | 7730 | 8297 | 8684 | 9161 | 9638 | 9116 | 0592 | 1969 | 1547 | 2024 | 2561 | 2979 | 47 | 29 | 7261 |
| 239 | 30 | 6 (7) 0444 | 5929 | 6397 | 6873 | 7350 | 7826 | 8303 | 8789 | 9257 | 9734 | 0211 | 0688 | 1165 | 1642 | 2120 | 2597 | 3874 | 40 | 39 | 5 7359 |
| 247 | 31 | 6549 | 6916 | 6493 | 6969 | 7446 | 7922 | 8399 | 8876 | 9353 | 9829 | 9396 | 9784 | 1261 | 1738 | 2215 | 2693 | 3170 | 09 | 31 | 7456 |
| 254 | 32 | 6637 | 6113 | 6589 | 7665 | 7542 | 8918 | 8495 | 8972 | 9449 | 9995 | 9492 | 0879 | 1356 | 1834 | 2311 | 2788 | 3266 | 02 | 32 | 7553 |
| 262 | 33 | 0733 | 6209 | 6685 | 7162 | 7638 | 8115 | 8591 | 9668 | 9545 | 0921 | 0498 | 9975 | 1452 | 1999 | 2407 | 2884 | 3361 | 63 | 33 | 7659 |
| 270 | 34 | 6830 | 6306 | 6782 | 7258 | 7736 | 8211 | 8687 | 9164 | 9641 | 9117 | 0594 | 1071 | 1548 | 2925 | 2503 | 2980 | 3457 | 55 | 34 | 7748 |
| 278 | 35 | 6 (7) 5996 | 6402 | 6878 | 7355 | 7831 | 8367 | 8784 | 9260 | 9737 | 9214 | 0699 | 1167 | 1644 | 9121 | 2598 | 3076 | 3553 | 57 | 35 | 0 7845 |
| 286 | 36 | 6023 | 6499 | 6976 | 7461 | 7927 | 8404 | 8886 | 9357 | 9833 | 0310 | 0787 | 1263 | 1740 | 2217 | 2694 | 3172 | 3619 | 58 | 36 | 7943 |
| 224 | 37 | 6129 | 6596 | 7072 | 7547 | 8024 | 8560 | 8977 | 9453 | 9930 | 0406 | 0883 | 1360 | 1837 | 2314 | 2790 | 3268 | 3745 | 66 | 37 | 8049 |
| 302 | 38 | 6217 | 6692 | 7168 | 7644 | 8121 | 8597 | 9073 | 9550 | 9026 | 0503 | 0979 | 1456 | 1933 | 2110 | 2887 | 3364 | 3841 | 61 | 38 | 0138 |
| 310 | 39 | 6313 | 6789 | 7265 | 7741 | 8217 | 8694 | 9170 | 9646 | 0123 | 0599 | 1076 | 1552 | 2029 | 2506 | 2983 | 3460 | 3937 | 63 | 39 | 0936 |
| 318 | 46 | 6 (7) 6410 | 6886 | 7362 | 7838 | 8314 | 8790 | 9267 | 9743 | 0219 | 0696 | 1179 | 1649 | 9126 | 2692 | 3079 | 3556 | 4033 | 65 | 46 | 0 8334 |
| 326 | 41 | 6598 | 6983 | 7459 | 7935 | 8411 | 8887 | 2363 | 9840 | 0316 | 0799 | 1209 | 1745 | 2222 | 2699 | 3176 | 3653 | 4129 | 06 | 41 | 8431 |
| 334 | 42 | 6695 | 7980 | 7556 | 8032 | 8508 | 8984 | 9160 | 9937 | 0413 | 0889 | 1366 | 1849 | 2319 | 2795 | 3279 | 3749 | 4226 | 68 | 42 | 0529 |
| 342 | 43 | 0702 | 7178 | 7653 | 8129 | 8605 | 9081 | 9557 | 0033 | 0510 | 0986 | 1469 | 1939 | 2415 | 2892 | 3369 | 3845 | 4322 | 69 | 43 | 8628 |
| 359 | 44 | 6799 | 7275 | 7751 | 8226 | 8709 | 9178 | 9654 | 0130 | 9607 | 1083 | 1559 | 2036 | 2519 | 9989 | 3465 | 3942 | 4419 | 71 | 44 | 0726 |
| 358 | 45 | 6 (7) 6897 | 7372 | 7818 | 8324 | 8800 | 9275 | 9751 | 0927 | 0704 | 1180 | 1655 | 9133 | 2689 | 3085 | 3562 | 4039 | 4515 | 73 | 45 | 5 8824 |
| 366 | 46 | 6994 | 7470 | 7945 | 8421 | 8897 | 9373 | 9849 | 0325 | 0891 | 1277 | 1753 | 2230 | 9706 | 3182 | 3659 | 4135 | 4612 | 74 | 46 | 8922 |
| 374 | 47 | 7692 | 7667 | 8043 | 8519 | 8994 | 9476 | 9946 | 0122 | 0898 | 1374 | 1850 | 2327 | 2803 | 3279 | 3756 | 4232 | 4709 | 76 | 47 | 2921 |
| 382 | 48 | 7189 | 7665 | 8140 | 8616 | 9092 | 9567 | 0643 | 0519 | 6995 | 1471 | 1947 | 2424 | 2996 | 3376 | 3853 | 4329 | 1806 | 70 | 48 | 9112 |
| 390 | 49 | 7287 | 7763 | 8238 | 8714 | 9189 | 9665 | 9141 | 0617 | 1092 | 1568 | 2945 | 2521 | 2997 | 3473 | 3950 | 4426 | 4903 | 79 | 49 | 0210 |
| 398 | 50 | 6 (7) 7385 | 7060 | 8336 | 8811 | 9287 | 9762 | 0238 | 0714 | 1190 | 1666 | 2142 | 2618 | 3094 | 3576 | 4047 | 4523 | 5000 | 81 | 56 | 5 8316 |
| 466 | 51 | 7483 | 7958 | 8433 | 8999 | 9384 | 9860 | 9336 | 0812 | 1287 | 1763 | 9239 | 2710 | 3191 | 3668 | 1144 | 4620 | 5097 | 82 | 51 | 8415 |
| 413 | 52 | 7581 | 8066 | 8531 | 9607 | 9182 | 9958 | 6433 | 0909 | 1385 | 1861 | 2337 | 2813 | 3989 | 3765 | 4241 | 4718 | 5194 | 84 | 02 | 2514 |
| 421 | 53 | 7679 | 8154 | 8629 | 9105 | 9586 | 6056 | 0531 | 1607 | 1483 | 1958 | 2434 | 2916 | 3386 | 3862 | 4339 | 4815 | 5291 | 06 | 53 | 9613 |
| 429 | 04 | 7777 | 8252 | 8727 | 9203 | 9678 | 0153 | 6629 | 1106 | 1580 | 2066 | 2532 | 3008 | 3484 | 3206 | 4436 | 4212 | 5382 | 07 | 54 | 0712 |
| 437 | 55 | 6 (7) 7675 | 8360 | 8825 | 9301 | 9776 | 0251 | 6727 | 1202 | 1678 | 2154 | 2036 | 3105 | 3581 | 4057 | 4534 | 5010 | 5486 | 89 | 55 | 0 9811 |
| 440 | 56 | 7974 | 8449 | 6924 | 9399 | 9874 | 0349 | 0825 | 1300 | 1776 | 2252 | 2727 | 3203 | 3679 | 4155 | 4631 | 5167 | 5583 | 26 | 56 | 0210 |
| 453 | 67 | 8072 | 8547 | 9022 | 9497 | 9972 | 6448 | 0993 | 1328 | 1874 | 2350 | 2825 | 3361 | 3777 | 4253 | 4729 | 5265 | 5681 | 92 | 57 | 6 0009 |
| 461 | 58 | 8170 | 8645 | 9120 | 9595 | 0071 | 0540 | 1091 | 1497 | 1272 | 2448 | 2923 | 3399 | 3875 | 4351 | 4827 | 5303 | 5779 | 94 | 58 | 0102 |
| 462 | 08 | 8269 | 8744 | 9219 | 9694 | 0169 | 0644 | 1119 | 1525 | 2070 | 2546 | 3021 | 3197 | 3973 | 4448 | 4924 | 5466 | 5876 | 05 | 52 | 0508 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg Auxiliar | 20° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 20° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 6 0307 | 0781 | 1254 | 1728 | 2202 | 2676 | 3149 | 3623 | 1097 | 4572 | 5046 | 5520 | 5991 | 6469 | 6943 | 7418 | 7893 | 97 | 0' | 4 5494 |
| 8 | 1 | 0407 | 0880 | 1354 | 1827 | 9301 | 2775 | 3249 | 3723 | 1197 | 4671 | 5145 | 5619 | 6093 | 6568 | 7042 | 7317 | 7991 | 95 | 1 | 5329 |
| 16 | 2 | 0506 | 0980 | 1453 | 1927 | 2100 | 2874 | 3348 | 3822 | 4296 | 4770 | 5244 | 5718 | 6192 | 6667 | 7141 | 7616 | 0090 | 94 | 2 | 5931 |
| 24 | 3 | 0606 | 1079 | 1553 | 2096 | 2500 | 2974 | 3147 | 3921 | 4395 | 4869 | 5343 | 5817 | 6291 | 6766 | 7240 | 7715 | 8189 | 92 | 3 | 5139 |
| 32 | 4 | 0706 | 1179 | 1653 | 9126 | 2600 | 3073 | 3517 | 1021 | 4494 | 4968 | 5442 | 5916 | 6391 | 6865 | 7339 | 7814 | 8288 | 90 | 4 | 6044 |
| 39 | 5 | 6 0806 | 1279 | 1752 | 2226 | 2699 | 3173 | 3616 | 1120 | 4594 | 5068 | 5542 | 6016 | 6490 | 6964 | 7438 | 7913 | 8387 | 89 | 5 | 4 4949 |
| 47 | 6 | 0906 | 1379 | 1852 | 2325 | 2799 | 3272 | 3746 | 4220 | 4693 | 5167 | 5641 | 6115 | 6589 | 7063 | 7538 | 8012 | 8486 | 87 | 6 | 4854 |
| 55 | 7 | 1006 | 1479 | 1952 | 2125 | 2899 | 3372 | 3846 | 4319 | 4793 | 5267 | 5741 | 6915 | 6689 | 7163 | 7637 | 8111 | 8585 | 86 | 7 | 4758 |
| 63 | 8 | 1106 | 1579 | 2052 | 2525 | 2999 | 3172 | 3915 | 4419 | 4893 | 5366 | 5840 | 6314 | 6788 | 7262 | 7736 | 8210 | 8685 | 81 | 8 | 4663 |
| 71 | 9 | 1206 | 1679 | 2152 | 2625 | 3099 | 3572 | 4045 | 4519 | 4999 | 5466 | 5940 | 6414 | 6888 | 7362 | 7836 | 8310 | 8784 | 82 | 9 | 4568 |
| 79 | 10 | 6 1306 | 1779 | 2252 | 9725 | 3199 | 3672 | 4145 | 4619 | 5092 | 5566 | 6040 | 6513 | 6987 | 7461 | 7935 | 8409 | 8883 | 81 | 10 | 4 4472 |
| 87 | 11 | 1407 | 1879 | 2353 | 2826 | 3299 | 3772 | 4945 | 4719 | 5192 | 5666 | 6139 | 6613 | 7087 | 7561 | 8035 | 8509 | 8983 | 79 | 11 | 4376 |
| 95 | 12 | 1507 | 1980 | 9453 | 2926 | 3399 | 3872 | 4345 | 4819 | 5292 | 5766 | 6239 | 6713 | 7187 | 7661 | 8134 | 8609 | 9083 | 78 | 12 | 4281 |
| 102 | 13 | 1607 | 2080 | 9553 | 3026 | 3499 | 3972 | 4446 | 4919 | 5392 | 5866 | 6339 | 6813 | 7987 | 7760 | 8234 | 6708 | 9182 | 76 | 13 | 4105 |
| 110 | 14 | 1700 | 9181 | 2654 | 3127 | 3600 | 4073 | 4546 | 5019 | 5499 | 5966 | 6439 | 6913 | 7387 | 7860 | 8334 | 8808 | 9282 | 74 | 14 | 4089 |
| 118 | 15 | 6 1809 | 2281 | 2754 | 3227 | 3700 | 4173 | 4646 | 5119 | 5593 | 6066 | 6540 | 7013 | 7487 | 7960 | 8434 | 8900 | 9382 | 73 | 15 | 4 3993 |
| 126 | 16 | 1909 | 2382 | 2855 | 3328 | 3801 | 4274 | 4747 | 5290 | 5693 | 6166 | 6640 | 7113 | 7587 | 8060 | 8534 | 9008 | 9482 | 71 | 16 | 3897 |
| 134 | 17 | 2010 | 2483 | 2956 | 3428 | 3901 | 4374 | 4847 | 5320 | 5793 | 6267 | 6740 | 7213 | 7687 | 8161 | 8634 | 9108 | 9582 | 69 | 17 | 3801 |
| 142 | 10 | 2111 | 2581 | 3056 | 3529 | 4002 | 4475 | 1948 | 5421 | 5894 | 6367 | 6840 | 7314 | 7787 | 8261 | 0734 | 9208 | 9682 | 68 | 18 | 3705 |
| 150 | 19 | 9219 | 2685 | 3157 | 3630 | 4103 | 4575 | 5048 | 5521 | 5994 | 6468 | 6941 | 7414 | 7088 | 8361 | 8835 | 9308 | 9782 | 66 | 19 | 3609 |
| 158 | 90 | 6 2313 | 9786 | 3258 | 3731 | 4903 | 4676 | 5149 | 5622 | 6095 | 6568 | 7041 | 7515 | 7988 | 8461 | 8935 | 9409 | 9882 | 65 | 20 | 4 3512 |
| 165 | 21 | 2414 | 2887 | 3359 | 3839 | 4304 | 4777 | 5250 | 5723 | 6196 | 6669 | 7142 | 7615 | 8089 | 8562 | 9035 | 9509 | 9982 | 63 | 21 | 3416 |
| 173 | 92 | 6 (7) 2515 | 9988 | 3460 | 3933 | 4405 | 4878 | 5351 | 5824 | 6297 | 6770 | 7243 | 7716 | 8189 | 8662 | 9136 | 9610 | 0082 | 61 | 22 | 3319 |
| 181 | 23 | 2617 | 3089 | 3561 | 4034 | 4506 | 4979 | 5452 | 5925 | 6397 | 6870 | 7343 | 7817 | 8290 | 8763 | 9236 | 9710 | 0183 | 60 | 23 | 3923 |
| 189 | 24 | 2718 | 3190 | 3663 | 4135 | 4608 | 5080 | 5553 | 6026 | 6498 | 6971 | 7444 | 7917 | 6390 | 8864 | 9337 | 9810 | 0284 | 58 | 24 | 3126 |
| 197 | 25 | 6 (7) 2819 | 3292 | 3764 | 4236 | 4709 | 5181 | 5654 | 6127 | 6599 | 7072 | 7545 | 8018 | 8491 | 8964 | 9438 | 9911 | 0381 | 67 | 25 | 4 3029 |
| 905 | 26 | 2991 | 3393 | 3865 | 4338 | 4810 | 5983 | 5755 | 6228 | 6700 | 7173 | 7646 | 8119 | 8592 | 9065 | 9639 | 0019 | 0485 | 55 | 26 | 2932 |
| 213 | 27 | 3023 | 3495 | 3967 | 4439 | 4911 | 5384 | 5856 | 6329 | 6802 | 7974 | 7747 | 8920 | 8693 | 9166 | 9639 | 0113 | 0586 | 53 | 27 | 9836 |
| 221 | 28 | 3124 | 3596 | 4068 | 4541 | 5013 | 5485 | 5958 | 6430 | 6903 | 7376 | 7848 | 8321 | 8794 | 9267 | 9740 | 0214 | 0687 | 59 | 28 | 2739 |
| 228 | 29 | 3226 | 3698 | 4170 | 4642 | 5115 | 5587 | 6059 | 6532 | 7004 | 7477 | 7950 | 8129 | 8895 | 9368 | 9841 | 0314 | 0788 | 50 | 29 | 2641 |
| 936 | 30 | 6 (7) 3398 | 3800 | 4272 | 4744 | 5216 | 5680 | 6161 | 6633 | 7106 | 7578 | 8051 | 8594 | 8997 | 9470 | 9942 | 0416 | 0889 | 48 | 20 | 4 2544 |
| 244 | 31 | 3430 | 3902 | 4374 | 4846 | 5318 | 5790 | 6262 | 6735 | 7907 | 7680 | 8152 | 8695 | 9098 | 9571 | 0044 | 0517 | 0990 | 47 | 31 | 2447 |
| 952 | 32 | 3532 | 4004 | 4475 | 4948 | 5420 | 5892 | 6364 | 6836 | 7309 | 7781 | 8954 | 8797 | 9199 | 9672 | 0145 | 0618 | 1091 | 45 | 32 | 2350 |
| 960 | 33 | 3634 | 4106 | 4577 | 5049 | 5521 | 5994 | 6466 | 6938 | 7410 | 7883 | 8355 | 8898 | 9301 | 9773 | 0946 | 0719 | 1192 | 44 | 33 | 2252 |
| 268 | 34 | 3736 | 4208 | 4679 | 5151 | 5623 | 6095 | 6568 | 7040 | 7512 | 7985 | 8457 | 8930 | 9402 | 9875 | 0348 | 0821 | 1293 | 49 | 34 | 2155 |
| 976 | 35 | 6 (7) 2838 | 4310 | 4782 | 5253 | 5726 | 6197 | 6670 | 7142 | 7614 | 8086 | 8559 | 9031 | 9504 | 9976 | 0449 | 0922 | 1395 | 40 | 35 | 4 2057 |
| 284 | 36 | 3940 | 4412 | 4884 | 5356 | 5828 | 6299 | 6772 | 7944 | 7716 | 8188 | 8660 | 9133 | 9606 | 0078 | 0551 | 1094 | 1496 | 39 | 36 | 1960 |
| 291 | 37 | 4043 | 4514 | 4986 | 5158 | 5930 | 6109 | 6874 | 7346 | 7018 | 8290 | 8762 | 9235 | 9707 | 0180 | 0652 | 1125 | 1598 | 37 | 37 | 1862 |
| 299 | 38 | 4145 | 4617 | 5088 | 5560 | 6039 | 6304 | 6976 | 7448 | 7920 | 8292 | 8864 | 9337 | 9009 | 0989 | 0754 | 1927 | 1700 | 36 | 30 | 1764 |
| 307 | 39 | 4248 | 4719 | 5191 | 5663 | 6134 | 6606 | 7078 | 7550 | 8092 | 8494 | 8966 | 2439 | 9911 | 0303 | 0856 | 1329 | 1801 | 34 | 39 | 1666 |
| 315 | 40 | 6 (7) 4350 | 4892 | 5293 | 5765 | 6237 | 6708 | 7180 | 7652 | 8194 | 8596 | 9068 | 9541 | 0013 | 0485 | 0958 | 1431 | 1903 | 32 | 40 | 4 1569 |
| 323 | 41 | 4453 | 4995 | 5396 | 5868 | 6339 | 6811 | 7983 | 7755 | 8927 | 8699 | 9171 | 9643 | 0115 | 0587 | 1060 | 1532 | 2005 | 31 | 41 | 1471 |
| 331 | 42 | 4556 | 5027 | 5499 | 5970 | 6442 | 6913 | 7385 | 7857 | 8329 | 8801 | 9273 | 9745 | 0217 | 0690 | 1169 | 1634 | 2107 | 29 | 42 | 1372 |
| 339 | 43 | 4659 | 5130 | 5601 | 6073 | 6544 | 7016 | 7488 | 7959 | 8431 | 0903 | 9375 | 9847 | 0320 | 0799 | 1964 | 1736 | 9909 | 27 | 43 | 1274 |
| 347 | 44 | 4762 | 5233 | 5704 | 6176 | 6647 | 7119 | 7590 | 8062 | 0534 | 9006 | 9478 | 9950 | 0499 | 0894 | 1366 | 1839 | 2311 | 26 | 44 | 1176 |
| 354 | 45 | 6 (7) 4865 | 5336 | 5807 | 6279 | 6750 | 7221 | 7693 | 8165 | 8636 | 9108 | 9580 | 0052 | 0524 | 0996 | 1469 | 1941 | 9413 | 24 | 45 | 4 1078 |
| 362 | 46 | 4968 | 5439 | 5910 | 6382 | 6853 | 7321 | 7796 | 0267 | 8739 | 9911 | 9683 | 0155 | 0627 | 1099 | 1571 | 2043 | 2516 | 93 | 46 | 0979 |
| 370 | 47 | 5071 | 5542 | 6013 | 6485 | 6956 | 7427 | 7899 | 8370 | 8842 | 9314 | 9785 | 0257 | 0729 | 1201 | 1673 | 2146 | 2610 | 21 | 47 | 0081 |
| 378 | 48 | 6174 | 5645 | 6116 | 6588 | 7059 | 7530 | 8002 | 8473 | 8945 | 9416 | 9888 | 0360 | 0832 | 1304 | 1776 | 2948 | 9720 | 19 | 48 | 0789 |
| 386 | 49 | 5978 | 5749 | 6220 | 6691 | 7162 | 7633 | 8105 | 8576 | 9048 | 9519 | 9991 | 0463 | 0935 | 1407 | 1879 | 2351 | 2823 | 18 | 49 | 0684 |
| 391 | 50 | 6 (7) 5381 | 5852 | 6393 | 6794 | 7265 | 7737 | 8208 | 8679 | 9151 | 9622 | 0094 | 0566 | 1037 | 1509 | 1981 | 9453 | 2995 | 16 | 50 | 4 0585 |
| 402 | 51 | 5185 | 5955 | 6426 | 6897 | 7369 | 7010 | 0311 | 8782 | 9254 | 9725 | 0197 | 0669 | 1140 | 1612 | 2084 | 2556 | 3028 | 15 | 61 | 0486 |
| 410 | 52 | 5588 | 6059 | 6530 | 7001 | 7472 | 7913 | 8414 | 8886 | 9357 | 9828 | 0300 | 0772 | 1943 | 1715 | 9187 | 2659 | 3131 | 13 | 52 | 0387 |
| 417 | 53 | 5692 | 6169 | 6633 | 7104 | 7575 | 8046 | 8518 | 8989 | 9460 | 9932 | 0403 | 0875 | 1346 | 1818 | 2990 | 2762 | 3934 | 11 | 63 | 0288 |
| 495 | 54 | 5795 | 6266 | 6737 | 7208 | 7679 | 0150 | 8621 | 9092 | 9563 | 0035 | 0506 | 0978 | 1449 | 1921 | 2393 | 2865 | 3337 | 10 | 54 | 0189 |
| 433 | 55 | 6 (7) 5899 | 6370 | 6841 | 7311 | 7782 | 8253 | 8794 | 9196 | 9667 | 0138 | 0610 | 1081 | 1553 | 2024 | 9496 | 9960 | 3439 | 8 | 65 | 1 0090 |
| 441 | 56 | 6003 | 6174 | 6944 | 7415 | 7886 | 8357 | 8898 | 9299 | 9770 | 0242 | 0713 | 1184 | 1656 | 9197 | 2599 | 3071 | 3543 | 6 | 56 | 3 9991 |
| 449 | 57 | 6107 | 6578 | 7048 | 7519 | 7990 | 0161 | 0932 | 9403 | 9874 | 0345 | 0816 | 1288 | 1759 | 2231 | 2702 | 3174 | 3646 | 5 | 67 | 9891 |
| 457 | 58 | 6911 | 6682 | 7152 | 7623 | 8094 | 8565 | 9035 | 9506 | 9977 | 0449 | 0920 | 1391 | 1862 | 2334 | 2806 | 3977 | 3749 | 3 | 60 | 9799 |
| 465 | 59 | 6315 | 6786 | 7256 | 7727 | 8198 | 8668 | 9139 | 9610 | 0081 | 0559 | 1023 | 1495 | 1966 | 2437 | 2909 | 3380 | 3852 | 2 | 59 | 9693 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 20° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 20° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 (7) 8367 | 8842 | 9317 | 9792 | 0267 | 0742 | 1218 | 1693 | 2168 | 2644 | 3119 | 3595 | 4071 | 4546 | 5022 | 5498 | 5974 | 0 | 0′ | 6 0307 |
| 8 | 1 | 8466 | 8941 | 9416 | 9891 | 0366 | 0841 | 1316 | 1791 | 2267 | 2742 | 3217 | 3693 | 1169 | 4644 | 5120 | 6596 | 6072 | 2 | 1 | 0407 |
| 16 | 2 | 8565 | 9040 | 9514 | 9989 | 0464 | 0939 | 1414 | 1890 | 2365 | 2810 | 3316 | 3791 | 4267 | 4742 | 6218 | 5694 | 6170 | 3 | 2 | 0507 |
| 24 | 3 | 8664 | 9138 | 9613 | 0008 | 0563 | 1038 | 1513 | 1988 | 2463 | 2939 | 3414 | 3890 | 4365 | 4841 | 5316 | 5792 | 6268 | 5 | 3 | 0606 |
| 32 | 4 | 8763 | 9237 | 9712 | 0187 | 0662 | 1137 | 1612 | 2087 | 2562 | 3037 | 3512 | 3988 | 1463 | 4939 | 5415 | 5890 | 6366 | 7 | 4 | 0706 |
| 40 | 5 | 6 (7) 8862 | 9336 | 9811 | 0286 | 0760 | 1235 | 1710 | 2185 | 2660 | 3136 | 3611 | 4086 | 4562 | 5037 | 5513 | 5989 | 6464 | 0 | 5 | 6 0806 |
| 47 | 6 | 8961 | 9435 | 9910 | 0385 | 0859 | 1334 | 1809 | 2284 | 2759 | 3234 | 3710 | 4185 | 1660 | 5136 | 5611 | 6087 | 6563 | 10 | 6 | 0906 |
| 55 | 7 | 9060 | 9634 | 0009 | 0484 | 0958 | 1433 | 1908 | 2383 | 2858 | 3333 | 3808 | 4283 | 4759 | 5234 | 5710 | 6185 | 6661 | 12 | 7 | 1006 |
| 63 | 8 | 9159 | 9633 | 0108 | 0683 | 1057 | 1532 | 2007 | 2482 | 2957 | 3432 | 3907 | 4382 | 4857 | 5333 | 5808 | 6284 | 6769 | 14 | 8 | 1106 |
| 71 | 9 | 9258 | 9733 | 0207 | 0682 | 1156 | 1631 | 2106 | 2581 | 3056 | 3531 | 1006 | 4481 | 4956 | 5431 | 5907 | 6382 | 6858 | 15 | 9 | 1206 |
| 79 | 10 | 6 (7) 9358 | 9832 | 0306 | 0781 | 1255 | 1730 | 2205 | 2680 | 3155 | 3630 | 4105 | 4580 | 5055 | 5530 | 6005 | 6481 | 6956 | 17 | 10 | 6 1306 |
| 87 | 11 | 9457 | 9931 | 0406 | 0880 | 1356 | 1829 | 2304 | 2779 | 3254 | 3729 | 4204 | 4679 | 5154 | 5629 | 6104 | 6580 | 7055 | 19 | 11 | 1407 |
| 95 | 12 | 9557 | 0031 | 0505 | 0980 | 1454 | 1929 | 2403 | 2878 | 3353 | 3828 | 4303 | 1778 | 5263 | 5728 | 6203 | 6678 | 7154 | 20 | 12 | 1507 |
| 103 | 13 | 9656 | 0131 | 0605 | 1079 | 1554 | 2028 | 2503 | 2977 | 3452 | 3927 | 4402 | 4877 | 5352 | 5827 | 6302 | 6777 | 7253 | 22 | 13 | 1607 |
| 111 | 14 | 9756 | 0230 | 0704 | 1179 | 1653 | 2127 | 2602 | 3077 | 3551 | 4026 | 1501 | 4976 | 5451 | 5926 | 6401 | 6876 | 7351 | 24 | 14 | 1708 |
| 119 | 15 | 6 (7) 9856 | 0330 | 0804 | 1278 | 1753 | 2227 | 2701 | 3176 | 3651 | 4125 | 1600 | 5075 | 5550 | 6025 | 6500 | 6975 | 7450 | 25 | 15 | 6 1809 |
| 126 | 16 | 9956 | 0430 | 0904 | 1378 | 1852 | 2327 | 2801 | 3276 | 3750 | 4225 | 4700 | 5174 | 5649 | 6124 | 6599 | 7074 | 7650 | 27 | 16 | 1909 |
| 134 | 17 | 7 0056 | 0530 | 1004 | 1478 | 1952 | 2426 | 2901 | 3375 | 3830 | 4324 | 4799 | 5274 | 5748 | 6223 | 6698 | 7173 | 7649 | 29 | 17 | 2010 |
| 142 | 18 | 0156 | 0630 | 1104 | 1578 | 2052 | 2526 | 3000 | 3475 | 3949 | 4424 | 1898 | 5373 | 5818 | 6323 | 6798 | 7273 | 7748 | 30 | 18 | 2111 |
| 150 | 19 | 0256 | 0730 | 1204 | 1678 | 2152 | 2626 | 3100 | 3575 | 4049 | 4523 | 1998 | 5473 | 5947 | 6422 | 6897 | 7372 | 7847 | 32 | 19 | 2212 |
| 158 | 20 | 7 0356 | 0830 | 1304 | 1778 | 2252 | 2726 | 3200 | 3674 | 1149 | 4623 | 5098 | 5572 | 6047 | 6522 | 6996 | 7471 | 7916 | 31 | 20 | 6 2313 |
| 166 | 21 | 0456 | 0930 | 1404 | 1878 | 2352 | 2826 | 3300 | 3774 | 4248 | 4723 | 5197 | 5672 | 6147 | 6621 | 7096 | 7571 | 8046 | 36 | 21 | 2114 |
| 174 | 22 | 0556 | 1030 | 1504 | 1978 | 2452 | 2926 | 3400 | 3874 | 4348 | 4823 | 5297 | 5772 | 6246 | 6721 | 7196 | 7670 | 8145 | 37 | 22 | 2515 |
| 182 | 23 | 0657 | 1131 | 1604 | 2078 | 2552 | 3026 | 3500 | 3974 | 1448 | 4923 | 5397 | 5872 | 6346 | 6821 | 7295 | 7770 | 8245 | 39 | 23 | 2617 |
| 190 | 24 | 0767 | 1231 | 1705 | 2178 | 2652 | 3126 | 3600 | 4074 | 4549 | 5023 | 5497 | 5971 | 6446 | 6920 | 7395 | 7870 | 8345 | 41 | 24 | 1718 |
| 198 | 25 | 7 0858 | 1332 | 1805 | 2279 | 2753 | 3227 | 3700 | 4175 | 1649 | 5123 | 5597 | 6071 | 6546 | 7020 | 7495 | 7970 | 8444 | 42 | 25 | 6 2819 |
| 205 | 26 | 0959 | 1432 | 1906 | 2379 | 2853 | 3327 | 3801 | 4275 | 1749 | 5223 | 5697 | 6171 | 6646 | 7120 | 7595 | 8069 | 8544 | 41 | 26 | 2921 |
| 213 | 27 | 1059 | 1533 | 2006 | 2480 | 2954 | 3427 | 3901 | 1375 | 4849 | 5323 | 5797 | 6272 | 6746 | 7220 | 7695 | 8169 | 8644 | 46 | 27 | 3023 |
| 221 | 28 | 1160 | 1633 | 2107 | 2581 | 3054 | 3528 | 4002 | 4476 | 4950 | 5424 | 5898 | 6372 | 6816 | 7320 | 7795 | 8269 | 8744 | 47 | 28 | 3124 |
| 229 | 29 | 1261 | 1734 | 2208 | 2681 | 3155 | 3629 | 4102 | 4576 | 5050 | 5524 | 5998 | 6472 | 6946 | 7421 | 7895 | 8370 | 8844 | 49 | 29 | 3226 |
| 237 | 30 | 7 1362 | 1835 | 2309 | 2782 | 3256 | 3729 | 4203 | 4677 | 5151 | 5625 | 6099 | 6573 | 7047 | 7521 | 7995 | 8470 | 8944 | 64 | 30 | 6 3328 |
| 245 | 31 | 1463 | 1936 | 2410 | 2883 | 3356 | 3830 | 4304 | 4777 | 5251 | 5725 | 6199 | 6673 | 7147 | 7621 | 8096 | 8570 | 9044 | 62 | 31 | 3430 |
| 253 | 32 | 1564 | 2037 | 2511 | 2984 | 3457 | 3931 | 4405 | 4878 | 5352 | 6826 | 6300 | 6774 | 7248 | 7722 | 8196 | 8670 | 9145 | 54 | 32 | 3532 |
| 261 | 33 | 1666 | 2138 | 2612 | 3085 | 3558 | 4032 | 4505 | 4979 | 5453 | 5926 | 6400 | 6874 | 7348 | 7822 | 8297 | 8771 | 9245 | 56 | 33 | 3634 |
| 269 | 34 | 1767 | 2240 | 2713 | 3186 | 3659 | 4133 | 4606 | 5080 | 5554 | 6027 | 6501 | 6975 | 7449 | 7923 | 8397 | 8871 | 9346 | 57 | 31 | 3736 |
| 277 | 36 | 7 1868 | 2341 | 2811 | 3287 | 3761 | 4234 | 4707 | 5181 | 5654 | 6128 | 6602 | 7076 | 7550 | 8024 | 8498 | 8972 | 9446 | 59 | 35 | 6 3838 |
| 284 | 36 | 1969 | 2442 | 2915 | 3389 | 3862 | 4335 | 4808 | 5282 | 5755 | 6229 | 6703 | 7177 | 7650 | 8124 | 8598 | 9073 | 9547 | 61 | 36 | 3940 |
| 292 | 37 | 2071 | 2544 | 3017 | 3490 | 3963 | 4436 | 4910 | 5383 | 5857 | 6330 | 6804 | 7278 | 7751 | 8225 | 8699 | 9173 | 9647 | 63 | 37 | 4013 |
| 300 | 38 | 2172 | 2645 | 3118 | 3591 | 1064 | 4538 | 5011 | 5484 | 5958 | 6431 | 6905 | 7379 | 7852 | 8326 | 8800 | 9274 | 9748 | 64 | 38 | 4145 |
| 308 | 39 | 2274 | 2747 | 3220 | 3693 | 4166 | 4639 | 5112 | 5586 | 6059 | 6532 | 7006 | 7180 | 7953 | 8427 | 8901 | 9375 | 9849 | 66 | 39 | 4248 |
| 316 | 40 | 7 2376 | 2849 | 3321 | 3794 | 4267 | 4741 | 5214 | 5687 | 6160 | 6634 | 7107 | 7581 | 8054 | 8528 | 9002 | 9476 | 9950 | 68 | 40 | 6 4350 |
| 324 | 41 | 7 (8) 2478 | 2950 | 3423 | 3896 | 4369 | 4842 | 5315 | 5788 | 6262 | 6735 | 7209 | 7682 | 8156 | 8629 | 9103 | 9577 | 0051 | 69 | 41 | 4453 |
| 332 | 42 | 2580 | 3052 | 3525 | 3998 | 4471 | 4944 | 5417 | 5890 | 6363 | 6837 | 7310 | 7783 | 8257 | 8731 | 9204 | 9678 | 0152 | 71 | 42 | 4556 |
| 340 | 43 | 2682 | 3154 | 3627 | 4100 | 4573 | 5045 | 5519 | 5992 | 6465 | 6938 | 7411 | 7885 | 8358 | 8832 | 9306 | 9779 | 0253 | 73 | 43 | 4659 |
| 348 | 44 | 2784 | 3256 | 3729 | 4202 | 4674 | 5147 | 5620 | 6093 | 6566 | 7040 | 7513 | 7986 | 8460 | 8933 | 9407 | 9881 | 0354 | 74 | 44 | 4762 |
| 356 | 46 | 7 (8) 2886 | 3358 | 3831 | 4304 | 4776 | 5249 | 5722 | 6195 | 6668 | 7141 | 7615 | 8088 | 8561 | 9036 | 9508 | 9982 | 0456 | 76 | 45 | 6 4865 |
| 363 | 46 | 2988 | 3460 | 3933 | 4406 | 4878 | 5351 | 5824 | 6297 | 6770 | 7243 | 7716 | 8189 | 8663 | 9136 | 9610 | 0083 | 0557 | 78 | 46 | 4968 |
| 371 | 47 | 3090 | 3563 | 4035 | 4608 | 4980 | 5453 | 5926 | 6399 | 6872 | 7345 | 7818 | 8291 | 8764 | 9238 | 9711 | 0185 | 0658 | 79 | 47 | 5074 |
| 379 | 48 | 3193 | 3666 | 4137 | 4610 | 5083 | 5555 | 6028 | 6501 | 6974 | 7447 | 7920 | 8393 | 8966 | 9340 | 9813 | 0286 | 0760 | 81 | 48 | 5174 |
| 387 | 49 | 3295 | 3767 | 4240 | 4712 | 5185 | 5657 | 6130 | 6603 | 7076 | 7549 | 8022 | 8495 | 8968 | 9441 | 9915 | 0388 | 0862 | 83 | 49 | 5278 |
| 395 | 60 | 7 (8) 3398 | 3870 | 4342 | 4815 | 5287 | 5760 | 6232 | 6705 | 7178 | 7651 | 8124 | 8597 | 9070 | 9543 | 0017 | 0490 | 0963 | 85 | 50 | 6 6381 |
| 403 | 61 | 3500 | 3972 | 4445 | 4917 | 5390 | 5862 | 6335 | 6807 | 7280 | 7753 | 8226 | 8699 | 9172 | 9645 | 0118 | 0592 | 1065 | 86 | 51 | 6485 |
| 411 | 62 | 3603 | 4075 | 4547 | 5020 | 5492 | 5964 | 6437 | 6910 | 7382 | 7855 | 8328 | 8801 | 9274 | 9747 | 0220 | 0694 | 1167 | 88 | 62 | 5588 |
| 419 | 63 | 3706 | 4178 | 4650 | 5122 | 5595 | 6067 | 6539 | 7012 | 7485 | 7957 | 8430 | 8903 | 9376 | 9849 | 0322 | 0796 | 1269 | 90 | 63 | 6692 |
| 427 | 54 | 3808 | 4281 | 4753 | 5225 | 5697 | 6170 | 6642 | 7116 | 7587 | 8060 | 8533 | 9005 | 9478 | 9951 | 0424 | 0898 | 1371 | 91 | 64 | 6796 |
| 435 | 56 | 7 (8) 3911 | 4383 | 4855 | 5328 | 6800 | 6272 | 6745 | 7217 | 7690 | 8162 | 8635 | 9108 | 9581 | 0054 | 0527 | 1000 | 1473 | 93 | 65 | 6 5899 |
| 442 | 66 | 4014 | 4486 | 4958 | 5430 | 5903 | 6375 | 6847 | 7320 | 7792 | 8265 | 8738 | 9210 | 9683 | 0156 | 0629 | 1102 | 1575 | 95 | 56 | 6003 |
| 460 | 67 | 4117 | 4589 | 5061 | 5533 | 6006 | 6478 | 6950 | 7422 | 7895 | 8367 | 8840 | 9313 | 9785 | 0258 | 0731 | 1204 | 1677 | 96 | 67 | 6107 |
| 458 | 58 | 4221 | 4692 | 5164 | 5636 | 6108 | 6581 | 7053 | 7525 | 7998 | 8170 | 8943 | 9415 | 9888 | 0361 | 0834 | 1307 | 1780 | 98 | 68 | 6211 |
| 466 | 59 | 4324 | 4796 | 5268 | 5740 | 6212 | 6684 | 7156 | 7628 | 8100 | 8573 | 9045 | 9518 | 9991 | 0463 | 0936 | 1409 | 1882 | 100 | 59 | 6313 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 21° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 21° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 (7) 6419 | 6820 | 7360 | 7831 | 8302 | 8772 | 9243 | 9714 | 0185 | 0656 | 1127 | 1528 | 2070 | 2541 | 3012 | 3484 | 3955 | 101 | 0' | 3 9593 |
| 8 | 1 | 6524 | 6994 | 7465 | 7935 | 3406 | 8876 | 9347 | 9818 | 0289 | 0760 | 1231 | 1702 | 2173 | 2645 | 3116 | 3587 | 4059 | 100 | 1 | 9493 |
| 16 | 2 | 6628 | 7098 | 7569 | 8039 | 8510 | 8980 | 9451 | 9922 | 0393 | 0854 | 1335 | 1805 | 2277 | 2748 | 3220 | 3691 | 4162 | 98 | 2 | 9394 |
| 24 | 3 | 6733 | 7203 | 7673 | 8144 | 8614 | 2085 | 9555 | 0026 | 0197 | 0968 | 1439 | 1910 | 2381 | 2852 | 3323 | 3795 | 4266 | 96 | 3 | 9294 |
| 31 | 4 | 6837 | 7307 | 7778 | 8218 | 8718 | 9189 | 9660 | 0130 | 0601 | 1072 | 1543 | 2014 | 2485 | 2956 | 3427 | 3898 | 4370 | 95 | 4 | 9191 |
| 39 | 5 | 6 (7) 6942 | 7412 | 7882 | 8352 | 8823 | 9293 | 9761 | 0234 | 0705 | 1175 | 1647 | 2118 | 2589 | 3060 | 3531 | 4002 | 4474 | 93 | 5 | 3 9094 |
| 47 | 6 | 7046 | 7517 | 7987 | 8457 | 8927 | 2398 | 9858 | 0339 | 0809 | 1280 | 1751 | 2222 | 2693 | 3164 | 3635 | 4106 | 4577 | 91 | 6 | 8994 |
| 55 | 7 | 7151 | 7621 | 8091 | 8562 | 2032 | 9502 | 2973 | 0143 | 0914 | 1384 | 1855 | 2325 | 2797 | 3268 | 3739 | 4210 | 4681 | 90 | 7 | 8894 |
| 63 | 8 | 7256 | 7726 | 8196 | 8566 | 9136 | 9607 | 0077 | 0548 | 1018 | 1489 | 1259 | 2430 | 2901 | 3372 | 3813 | 4314 | 4785 | 88 | 8 | 8794 |
| 70 | 9 | 7361 | 7831 | 8301 | 8771 | 9241 | 9711 | 0182 | 0652 | 1123 | 1593 | 2064 | 2535 | 3005 | 3476 | 3947 | 4418 | 4889 | 86 | 9 | 8621 |
| 76 | 10 | 6 (7) 7466 | 7936 | 8406 | 8876 | 9316 | 9816 | 0286 | 0757 | 1227 | 1598 | 2168 | 2639 | 3110 | 3580 | 4051 | 4522 | 4993 | 85 | 10 | 3 8593 |
| 86 | 11 | 7671 | 8041 | 8511 | 8981 | 9451 | 9921 | 0321 | 0861 | 1332 | 1802 | 2273 | 2743 | 3214 | 3685 | 4156 | 4627 | 5028 | 83 | 11 | 8423 |
| 94 | 12 | 7676 | 8146 | 8510 | 9086 | 9556 | 0026 | 0496 | 0266 | 1437 | 1207 | 2377 | 2848 | 3312 | 3782 | 4260 | 4731 | 5202 | 81 | 12 | 8393 |
| 102 | 13 | 7781 | 8251 | 8721 | 9191 | 9661 | 0131 | 0601 | 1071 | 1541 | 2012 | 2482 | 2953 | 3423 | 3821 | 4365 | 4835 | 5306 | 72 | 13 | 8292 |
| 110 | 14 | 7887 | 8356 | 8826 | 9226 | 9766 | 0236 | 0706 | 1176 | 1646 | 2117 | 2587 | 3057 | 3528 | 3999 | 4469 | 4940 | 5411 | 78 | 14 | 8191 |
| 117 | 15 | 6 (7) 7992 | 8462 | 8931 | 9401 | 9871 | 0341 | 0811 | 1281 | 1751 | 2222 | 2692 | 3162 | 3633 | 4103 | 4574 | 5045 | 5515 | 76 | 16 | 3 8091 |
| 125 | 16 | 8098 | 8557 | 9037 | 9506 | 9976 | 0146 | 0216 | 1386 | 1855 | 2325 | 2797 | 3267 | 3737 | 4208 | 4679 | 5149 | 5620 | 74 | 16 | 7990 |
| 133 | 17 | 8203 | 8673 | 9142 | 9612 | 0082 | 0551 | 1021 | 1491 | 1961 | 2431 | 2902 | 3372 | 3842 | 4313 | 4783 | 5254 | 5725 | 73 | 17 | 7889 |
| 141 | 18 | 8309 | 8778 | 9248 | 9717 | 0187 | 0557 | 1127 | 1597 | 2067 | 2537 | 3007 | 3477 | 3247 | 4418 | 4888 | 5359 | 5829 | 71 | 18 | 7788 |
| 149 | 12 | 8414 | 8881 | 2353 | 9823 | 0292 | 0762 | 1232 | 1702 | 2172 | 2542 | 3112 | 3582 | 4052 | 4523 | 4993 | 5464 | 5934 | 62 | 19 | 7687 |
| 157 | 20 | 6 (7) 8520 | 8920 | 9452 | 9228 | 0328 | 0868 | 1337 | 1807 | 2277 | 2747 | 3217 | 3587 | 4158 | 4628 | 5098 | 5569 | 6039 | 68 | 20 | 3 7586 |
| 164 | 21 | 8625 | 2095 | 9565 | 0034 | 0504 | 0973 | 1443 | 1913 | 2383 | 2853 | 3323 | 3793 | 4263 | 4733 | 5203 | 5674 | 5144 | 66 | 21 | 7485 |
| 172 | 22 | 8732 | 2201 | 9671 | 0140 | 0509 | 1079 | 1549 | 2018 | 2488 | 2958 | 3428 | 3898 | 4368 | 4838 | 5309 | 5779 | 6249 | 64 | 22 | 7383 |
| 180 | 23 | 8838 | 9307 | 9777 | 0246 | 0715 | 1185 | 1654 | 2124 | 2594 | 3064 | 3533 | 4003 | 4473 | 4914 | 5414 | 5884 | 6354 | 63 | 23 | 7282 |
| 188 | 24 | 0241 | 9413 | 9883 | 0352 | 0821 | 1221 | 1760 | 2230 | 2699 | 3169 | 3639 | 4109 | 4579 | 5049 | 5519 | 5289 | 6160 | 61 | 24 | 7181 |
| 196 | 25 | 6 (7) 9050 | 9519 | 9989 | 0458 | 0927 | 1397 | 1865 | 2336 | 2805 | 3275 | 3745 | 4215 | 4684 | 5151 | 5625 | 6095 | 6565 | 52 | 25 | 3 7079 |
| 203 | 26 | 9157 | 9626 | 0095 | 0561 | 1033 | 1503 | 1972 | 2441 | 2911 | 3381 | 3856 | 4320 | 4790 | 5260 | 5730 | 5200 | 6670 | 57 | 26 | 6977 |
| 211 | 27 | 9263 | 9732 | 0201 | 0570 | 1139 | 1609 | 2078 | 2547 | 3017 | 3487 | 3956 | 4426 | 4896 | 5366 | 5836 | 6306 | 6775 | 66 | 27 | 6876 |
| 212 | 28 | 9369 | 9838 | 0307 | 0776 | 1245 | 1715 | 2184 | 2653 | 3123 | 3593 | 4062 | 4532 | 5002 | 5471 | 5941 | 6111 | 6881 | 54 | 28 | 6774 |
| 227 | 29 | 9475 | 9946 | 0414 | 0883 | 1352 | 1821 | 2290 | 2760 | 3229 | 3699 | 4168 | 4638 | 5107 | 5577 | 6017 | 6517 | 6987 | 52 | 29 | 6672 |
| 235 | 30 | 6 (7) 9582 | 0051 | 0520 | 0989 | 1458 | 1927 | 2396 | 2866 | 3335 | 3805 | 4274 | 4744 | 5213 | 5683 | 6153 | 6623 | 7093 | 51 | 30 | 3 6570 |
| 243 | 31 | 9689 | 0158 | 0627 | 1096 | 1565 | 2034 | 2503 | 2972 | 3441 | 3911 | 4380 | 4850 | 5319 | 5789 | 6259 | 6729 | 7129 | 49 | 31 | 6468 |
| 250 | 32 | 9796 | 0264 | 0733 | 1202 | 1671 | 2140 | 2609 | 3078 | 3548 | 4017 | 4486 | 4956 | 5425 | 5823 | 6365 | 6835 | 7305 | 47 | 32 | 6366 |
| 258 | 33 | 9903 | 0371 | 0840 | 1309 | 1778 | 2247 | 2716 | 3185 | 3654 | 4123 | 4593 | 5062 | 5532 | 5001 | 6471 | 6941 | 7410 | 46 | 33 | 6264 |
| 266 | 31 | 7 0009 | 0478 | 0947 | 1415 | 1884 | 2353 | 2822 | 3291 | 3760 | 4230 | 4699 | 6168 | 5638 | 6107 | 6577 | 7047 | 7516 | 44 | 34 | 6162 |
| 274 | 35 | 7 0116 | 0585 | 1054 | 1522 | 1991 | 2460 | 2229 | 3398 | 3867 | 4336 | 4805 | 5275 | 5744 | 6214 | 6683 | 7153 | 7623 | 42 | 35 | 3 6060 |
| 282 | 36 | 0223 | 0692 | 1161 | 1629 | 2098 | 2567 | 3036 | 3505 | 3974 | 4443 | 4912 | 5381 | 5851 | 6320 | 6789 | 7259 | 7729 | 41 | 36 | 5957 |
| 290 | 37 | 0331 | 0799 | 1268 | 1736 | 2205 | 2674 | 3142 | 3011 | 4080 | 4549 | 5019 | 5488 | 5957 | 6426 | 6896 | 7365 | 7835 | 32 | 37 | 5855 |
| 297 | 38 | 0438 | 0906 | 1375 | 1843 | 2312 | 2781 | 3249 | 3718 | 4187 | 4656 | 5125 | 5524 | 6061 | 6533 | 7002 | 7472 | 7941 | 37 | 38 | 6752 |
| 305 | 39 | 0545 | 1013 | 1482 | 1950 | 2419 | 2888 | 3356 | 3825 | 4294 | 4763 | 5232 | 5701 | 6170 | 6639 | 7109 | 7578 | 8048 | 36 | 39 | 5650 |
| 313 | 40 | 7 0652 | 1121 | 1589 | 2057 | 2526 | 2925 | 3463 | 3932 | 4401 | 4870 | 5339 | 5808 | 6277 | 6746 | 7215 | 7685 | 8154 | 34 | 40 | 3 5547 |
| 321 | 41 | 0750 | 1228 | 1696 | 2165 | 2633 | 3102 | 3570 | 4039 | 4508 | 4977 | 5446 | 5915 | 6384 | 6853 | 7322 | 7791 | 8261 | 32 | 41 | 5444 |
| 329 | 42 | 0857 | 1335 | 1804 | 2272 | 2741 | 3209 | 3678 | 4146 | 4615 | 5084 | 5553 | 5022 | 6421 | 6260 | 7429 | 7898 | 8367 | 30 | 42 | 6341 |
| 336 | 43 | 0975 | 1443 | 1211 | 2380 | 2848 | 3316 | 3785 | 4253 | 4722 | 5191 | 5560 | 6129 | 6598 | 7067 | 7536 | 8005 | 8474 | 29 | 43 | 5238 |
| 344 | 44 | 1083 | 1550 | 2019 | 2487 | 2955 | 3424 | 3892 | 4361 | 4829 | 6298 | 6767 | 6236 | 6705 | 7174 | 7613 | 8112 | 8581 | 27 | 44 | 5135 |
| 352 | 45 | 7 1190 | 1658 | 2127 | 2595 | 3062 | 3531 | 4000 | 4468 | 4937 | 5405 | 5874 | 5343 | 6812 | 7281 | 7750 | 8212 | 8688 | 25 | 45 | 3 5032 |
| 360 | 46 | 1298 | 1766 | 2234 | 2702 | 3170 | 3639 | 4107 | 4576 | 5044 | 5513 | 6281 | 6460 | 6219 | 7388 | 7857 | 8326 | 8726 | 24 | 46 | 4929 |
| 368 | 47 | 1406 | 1874 | 2342 | 2810 | 3278 | 3746 | 4215 | 4683 | 5162 | 5620 | 6089 | 6557 | 7025 | 7496 | 7964 | 8433 | 8902 | 22 | 47 | 4826 |
| 376 | 48 | 1514 | 1282 | 2450 | 2918 | 3386 | 3854 | 4322 | 4791 | 5259 | 5728 | 6196 | 6665 | 7133 | 7602 | 8071 | 8540 | 9009 | 20 | 48 | 4722 |
| 383 | 49 | 1622 | 2090 | 2558 | 3026 | 3494 | 3962 | 4430 | 4898 | 5367 | 5835 | 6304 | 6772 | 7241 | 7709 | 8178 | 8647 | 9116 | 19 | 49 | 4619 |
| 391 | 50 | 7 1730 | 2198 | 2566 | 3134 | 3602 | 4070 | 4538 | 5006 | 5474 | 5943 | 6411 | 5880 | 7348 | 7817 | 8286 | 8755 | 9223 | 17 | 60 | 3 4515 |
| 399 | 51 | 1839 | 2306 | 2774 | 3242 | 3710 | 4178 | 4646 | 5114 | 5582 | 6050 | 6519 | 6987 | 7456 | 7924 | 8393 | 8852 | 9331 | 15 | 51 | 4412 |
| 407 | 62 | 1947 | 2414 | 2882 | 3350 | 3818 | 4286 | 4764 | 5222 | 5690 | 6158 | 6627 | 7095 | 7563 | 8032 | 8501 | 8969 | 9438 | 14 | 52 | 4308 |
| 415 | 63 | 2035 | 2523 | 2990 | 3458 | 3926 | 4394 | 4862 | 5330 | 5798 | 6266 | 6734 | 7203 | 7671 | 8140 | 8608 | 9077 | 9546 | 12 | 53 | 4204 |
| 423 | 54 | 2164 | 2631 | 3099 | 3566 | 4034 | 4502 | 4970 | 5438 | 5906 | 6374 | 6842 | 7311 | 7779 | 8247 | 8716 | 9185 | 9653 | 10 | 54 | 4101 |
| 430 | 55 | 7 2272 | 2740 | 3207 | 3575 | 4142 | 4610 | 5078 | 5546 | 6014 | 6482 | 6950 | 7419 | 7887 | 8355 | 8824 | 9292 | 9761 | 8 | 55 | 3 3997 |
| 438 | 56 | 2381 | 2848 | 3316 | 3783 | 4251 | 4719 | 5186 | 5654 | 6122 | 6590 | 7058 | 7527 | 7995 | 8463 | 8932 | 9400 | 9859 | 7 | 66 | 3893 |
| 446 | 67 | 2490 | 2957 | 3424 | 3892 | 4359 | 4827 | 5295 | 5763 | 6231 | 6699 | 7167 | 7635 | 8103 | 8571 | 9048 | 9508 | 9976 | 5 | 57 | 3789 |
| 454 | 58 | 7 (8) 2598 | 3066 | 3533 | 4000 | 4468 | 4936 | 5403 | 5871 | 6339 | 6807 | 7275 | 7743 | 8211 | 8679 | 9148 | 9616 | 0024 | 3 | 58 | 3685 |
| 469 | 59 | 2707 | 3174 | 3542 | 4109 | 4577 | 5044 | 5512 | 5980 | 6447 | 6915 | 7383 | 7851 | 8319 | 8787 | 9256 | 9724 | 0192 | 2 | 59 | 3580 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 21° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 (8) 4427 | 4899 | 5371 | 5843 | 6315 | 6787 | 7259 | 7731 | 8203 | 8676 | 2148 | 9621 | 0033 | 0566 | 1039 | 1612 | 1984 |
| 6 | 1 | 4531 | 5002 | 5474 | 5946 | 6418 | 6890 | 7362 | 7834 | 8306 | 8779 | 9251 | 9723 | 0196 | 0669 | 1141 | 1614 | 2087 |
| 16 | 2 | 4634 | 5106 | 5577 | 6019 | 6521 | 6993 | 7465 | 7937 | 8409 | 8882 | 9354 | 9826 | 0299 | 0771 | 1244 | 1717 | 2190 |
| 24 | 3 | 4737 | 5209 | 5681 | 6153 | 6624 | 7096 | 7568 | 8040 | 8512 | 8985 | 9457 | 9929 | 0402 | 0874 | 1347 | 1820 | 2292 |
| 31 | 4 | 4841 | 5313 | 5784 | 6256 | 6728 | 7200 | 7672 | 8144 | 8616 | 9088 | 9560 | 0032 | 0505 | 0977 | 1450 | 1922 | 2395 |
| 39 | 6 | 7 (8) 4915 | 5416 | 5888 | 6360 | 6831 | 7303 | 7775 | 8247 | 8719 | 9191 | 9663 | 0135 | 0608 | 1080 | 1553 | 2025 | 2498 |
| 47 | 6 | 6049 | 5520 | 5992 | 6463 | 6935 | 7407 | 7878 | 6350 | 8822 | 9294 | 9766 | 0239 | 0711 | 1183 | 1656 | 2128 | 2601 |
| 55 | 7 | 6153 | 6624 | 6095 | 6567 | 7038 | 7510 | 7982 | 8454 | 8926 | 9398 | 9870 | 0342 | 0814 | 1286 | 1759 | 2231 | 2704 |
| 63 | 6 | 5257 | 5728 | 6199 | 6671 | 7142 | 7614 | 8086 | 8557 | 9029 | 9561 | 9973 | 0445 | 0917 | 1390 | 1862 | 2334 | 2807 |
| 71 | 9 | 5360 | 5832 | 6303 | 6775 | 7216 | 7718 | 8189 | 8661 | 9133 | 9605 | 0077 | 0549 | 1021 | 1493 | 1965 | 2438 | 2910 |
| 78 | 10 | 7 (8) 5465 | 5936 | 6407 | 6879 | 7350 | 7821 | 8293 | 8765 | 9237 | 2708 | 0180 | 0652 | 1124 | 1596 | 2069 | 2541 | 3013 |
| 66 | 11 | 6569 | 6040 | 6511 | 6983 | 7454 | 7925 | 8397 | 0869 | 9340 | 9812 | 0284 | 0756 | 1228 | 1700 | 2172 | 2644 | 3117 |
| 94 | 12 | 5673 | 6144 | 6615 | 7087 | 7558 | 8029 | 8501 | 8972 | 9444 | 9916 | 0388 | 0859 | 1332 | 1804 | 2276 | 2748 | 3220 |
| 102 | 13 | 5777 | 6248 | 6720 | 7191 | 7662 | 8133 | 8605 | 9076 | 9548 | 0020 | 0491 | 0963 | 1435 | 1907 | 2372 | 2851 | 3324 |
| 110 | 14 | 6882 | 6353 | 6824 | 7295 | 7766 | 8238 | 8702 | 9180 | 9652 | 0124 | 0595 | 1067 | 1539 | 2011 | 2483 | 2955 | 3427 |
| 118 | 15 | 7 (8) 5986 | 6457 | 6928 | 7399 | 7871 | 8342 | 8813 | 9285 | 9756 | 0228 | 0699 | 1171 | 1643 | 2115 | 2587 | 3059 | 3531 |
| 125 | 16 | 6091 | 6562 | 7033 | 7501 | 7975 | 8416 | 8917 | 9389 | 9860 | 0332 | 0003 | 1275 | 1747 | 2212 | 2691 | 3162 | 3635 |
| 133 | 17 | 6195 | 6666 | 7137 | 7608 | 8079 | 8550 | 9022 | 9493 | 9964 | 0436 | 0907 | 1379 | 1851 | 2323 | 2794 | 3266 | 3738 |
| 141 | 18 | 6300 | 6771 | 7242 | 7713 | 8181 | 8655 | 9126 | 9597 | 0069 | 0540 | 1012 | 1483 | 1955 | 2427 | 2898 | 3370 | 3842 |
| 149 | 19 | 6405 | 6876 | 7346 | 7817 | 8288 | 8759 | 9231 | 9702 | 0173 | 0644 | 1116 | 1587 | 2059 | 2531 | 3002 | 3474 | 3246 |
| 157 | 20 | 7 (8) 6510 | 6980 | 7451 | 7922 | 8393 | 8864 | 9335 | 9806 | 0278 | 0749 | 1220 | 1692 | 2163 | 2635 | 3107 | 3578 | 4050 |
| 165 | 21 | 6615 | 7085 | 7556 | 8027 | 8498 | 8969 | 9440 | 9911 | 0382 | 0853 | 1325 | 1796 | 2267 | 2739 | 3211 | 3682 | 4154 |
| 173 | 22 | 6720 | 7190 | 7661 | 8132 | 8603 | 9073 | 9544 | 0016 | 0487 | 0938 | 1429 | 1900 | 2372 | 2843 | 3315 | 3707 | 4258 |
| 180 | 23 | 6825 | 7296 | 7766 | 8237 | 8707 | 9178 | 9649 | 0120 | 0591 | 1062 | 1534 | 2006 | 2476 | 2948 | 3419 | 3891 | 4363 |
| 188 | 24 | 6930 | 7401 | 7871 | 8342 | 8812 | 9283 | 9754 | 0225 | 0696 | 1167 | 1638 | 2110 | 2581 | 3052 | 3524 | 3995 | 4467 |
| 196 | 25 | 7 (8) 7035 | 7506 | 7976 | 8447 | 8918 | 9388 | 9859 | 0330 | 0801 | 1272 | 1743 | 2214 | 2686 | 3157 | 3628 | 4100 | 4571 |
| 204 | 26 | 7141 | 7611 | 8082 | 8552 | 9023 | 9493 | 9964 | 0435 | 0906 | 1377 | 1848 | 2319 | 2790 | 3262 | 3733 | 4204 | 4676 |
| 212 | 27 | 7246 | 7716 | 8187 | 8657 | 9128 | 9599 | 0069 | 0540 | 1011 | 1482 | 1953 | 2424 | 2895 | 3366 | 3838 | 4309 | 4780 |
| 220 | 26 | 7352 | 7822 | 8292 | 8763 | 9233 | 9704 | 0174 | 0645 | 1116 | 1587 | 2058 | 9529 | 3000 | 3471 | 3942 | 4414 | 4885 |
| 227 | 29 | 7457 | 7927 | 8398 | 8868 | 9338 | 9809 | 0289 | 0750 | 1221 | 1692 | 2163 | 2634 | 3105 | 3576 | 4047 | 4518 | 4990 |
| 235 | 30 | 7 (8) 7563 | 8033 | 8503 | 8974 | 9444 | 9914 | 0385 | 0856 | 1326 | 1797 | 2268 | 2739 | 3210 | 3681 | 4152 | 4623 | 5095 |
| 243 | 31 | 7669 | 8139 | 8609 | 9079 | 9549 | 0020 | 0490 | 0961 | 1432 | 1902 | 2373 | 2844 | 3315 | 3786 | 4257 | 4728 | 5199 |
| 251 | 32 | 7774 | 8244 | 8715 | 9185 | 9655 | 6195 | 0596 | 1066 | 1537 | 2006 | 2478 | 2949 | 3420 | 3891 | 4362 | 4833 | 5304 |
| 259 | 33 | 7880 | 8350 | 8820 | 9291 | 9761 | 0231 | 0701 | 1172 | 1642 | 2112 | 2584 | 3055 | 3595 | 3996 | 4467 | 4938 | 5409 |
| 267 | 34 | 7986 | 8456 | 8926 | 9396 | 9867 | 0337 | 0607 | 1277 | 1748 | 2218 | 2689 | 3160 | 3631 | 4101 | 4572 | 5043 | 5515 |
| 275 | 35 | 7 (8) 8092 | 8562 | 9032 | 9502 | 9972 | 0443 | 0913 | 1383 | 1854 | 2324 | 2795 | 3265 | 3736 | 4207 | 4678 | 5149 | 5620 |
| 282 | 36 | 8198 | 8668 | 9138 | 9608 | 0078 | 0548 | 1019 | 1489 | 1959 | 2430 | 2900 | 3371 | 3841 | 4312 | 4783 | 5254 | 5725 |
| 290 | 37 | 8305 | 8774 | 9244 | 9714 | 0184 | 0654 | 1124 | 1595 | 2065 | 2533 | 3006 | 3476 | 3947 | 4418 | 4889 | 5359 | 5830 |
| 298 | 38 | 8411 | 8881 | 9350 | 9820 | 0290 | 0760 | 1230 | 1701 | 2171 | 2641 | 3112 | 3582 | 4053 | 4523 | 4994 | 5465 | 5936 |
| 306 | 39 | 8517 | 8987 | 9457 | 9926 | 0396 | 0866 | 1336 | 1807 | 2277 | 2747 | 3217 | 3688 | 4158 | 4629 | 5100 | 5570 | 6041 |
| 314 | 40 | 7 (8) 8624 | 9093 | 9563 | 0033 | 0503 | 0973 | 1443 | 1913 | 2383 | 2853 | 3323 | 3794 | 4264 | 4735 | 5205 | 5676 | 6147 |
| 322 | 41 | 8730 | 9200 | 9669 | 0139 | 0609 | 1079 | 1549 | 2019 | 2489 | 2959 | 3429 | 3900 | 4370 | 4840 | 5311 | 5782 | 6252 |
| 329 | 42 | 8837 | 9306 | 9776 | 0246 | 0715 | 1185 | 1655 | 2125 | 2595 | 3065 | 3535 | 4006 | 4476 | 4946 | 5417 | 5887 | 6358 |
| 337 | 43 | 8944 | 9413 | 9882 | 0352 | 0822 | 1292 | 1761 | 2231 | 2701 | 3171 | 3642 | 4112 | 4582 | 5052 | 5523 | 5993 | 6464 |
| 345 | 44 | 9050 | 9520 | 9989 | 0459 | 0928 | 1398 | 1868 | 2338 | 2808 | 3278 | 3748 | 4218 | 4688 | 5158 | 5699 | 6099 | 6570 |
| 353 | 45 | 7 (8) 9157 | 9626 | 0096 | 0565 | 1035 | 1505 | 1974 | 2444 | 2914 | 3384 | 3854 | 4324 | 4794 | 5265 | 5735 | 6205 | 6676 |
| 361 | 46 | 9264 | 9733 | 0203 | 0672 | 1142 | 1611 | 2081 | 2550 | 3020 | 3490 | 3960 | 4430 | 4901 | 5371 | 5841 | 6311 | 6782 |
| 369 | 47 | 9371 | 9840 | 0310 | 0779 | 1248 | 1718 | 2188 | 2657 | 3127 | 3597 | 4067 | 4537 | 5007 | 5477 | 5947 | 6418 | 6888 |
| 377 | 48 | 9478 | 9947 | 0417 | 0886 | 1355 | 1825 | 2294 | 2764 | 3234 | 3703 | 4173 | 4643 | 5113 | 5563 | 6054 | 6524 | 6994 |
| 384 | 49 | 9585 | 0054 | 0524 | 0993 | 1462 | 1932 | 2401 | 2871 | 3340 | 3810 | 4280 | 4750 | 5220 | 5690 | 6160 | 6630 | 7100 |
| 392 | 60 | 7 (8) 9692 | 0161 | 0631 | 1100 | 1569 | 2039 | 2508 | 2977 | 3447 | 3917 | 4387 | 4856 | 5326 | 5796 | 6266 | 6737 | 7207 |
| 400 | 51 | 9800 | 0269 | 0738 | 1207 | 1676 | 2146 | 2615 | 3084 | 3554 | 4024 | 4493 | 4963 | 5433 | 5903 | 6373 | 6843 | 7313 |
| 408 | 52 | 9907 | 0376 | 0845 | 1314 | 1783 | 2253 | 2722 | 3191 | 3661 | 4130 | 4600 | 5670 | 5540 | 6010 | 6480 | 6950 | 7420 |
| 416 | 53 | 8 0015 | 0483 | 0952 | 1421 | 1891 | 2360 | 2829 | 3299 | 3768 | 4237 | 4707 | 5177 | 5646 | 6116 | 6506 | 7056 | 7526 |
| 423 | 54 | 0122 | 0591 | 1060 | 1529 | 1998 | 2467 | 2936 | 3406 | 3875 | 4344 | 4814 | 5284 | 5753 | 6223 | 6693 | 7163 | 7633 |
| 431 | 55 | 8 0230 | 0698 | 1167 | 1636 | 2105 | 2574 | 3044 | 3513 | 3982 | 4452 | 4921 | 5391 | 5860 | 6330 | 6800 | 7270 | 7740 |
| 439 | 56 | 0337 | 0806 | 1275 | 1744 | 2213 | 2682 | 3151 | 3620 | 4009 | 4539 | 5028 | 5498 | 5967 | 6437 | 6907 | 7376 | 7046 |
| 447 | 67 | 0445 | 0914 | 1383 | 1851 | 2320 | 2789 | 3258 | 3728 | 4197 | 4666 | 5135 | 5605 | 6074 | 6544 | 7014 | 7483 | 7953 |
| 455 | 58 | 0553 | 1022 | 1490 | 1959 | 2428 | 2897 | 3366 | 3835 | 4304 | 4773 | 5243 | 5712 | 6182 | 6651 | 7121 | 7590 | 8060 |
| 463 | 52 | 6661 | 1129 | 1598 | 2067 | 2536 | 3005 | 3473 | 3943 | 4412 | 4881 | 5350 | 5819 | 6289 | 6758 | 7228 | 7698 | 8167 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 21° | Núm. |
|---|---|---|
| 0 | 0' | 6 6419 |
| 2 | 1 | 0524 |
| 4 | 2 | 6628 |
| 6 | 3 | 0733 |
| 7 | 4 | 6837 |
| 9 | 5 | 6 0942 |
| 11 | 6 | 7046 |
| 12 | 7 | 7151 |
| 14 | 8 | 7256 |
| 16 | 2 | 7361 |
| 18 | 16 | 6 7466 |
| 19 | 11 | 7571 |
| 21 | 12 | 7676 |
| 23 | 13 | 7781 |
| 25 | 14 | 7807 |
| 27 | 15 | 6 7992 |
| 28 | 16 | 8098 |
| 30 | 17 | 0203 |
| 32 | 18 | 8309 |
| 34 | 19 | 8414 |
| 35 | 20 | 6 8520 |
| 37 | 21 | 8626 |
| 39 | 22 | 8732 |
| 41 | 23 | 8838 |
| 43 | 24 | 8944 |
| 44 | 25 | 6 9050 |
| 46 | 20 | 9157 |
| 48 | 27 | 9263 |
| 50 | 28 | 9362 |
| 51 | 29 | 9476 |
| 53 | 30 | 6 9582 |
| 55 | 31 | 9689 |
| 57 | 32 | 9796 |
| 59 | 33 | 2903 |
| 60 | 34 | 7 0010 |
| 62 | 35 | 7 0117 |
| 64 | 36 | 0224 |
| 66 | 37 | 0331 |
| 67 | 36 | 0438 |
| 69 | 39 | 0545 |
| 71 | 40 | 7 0652 |
| 73 | 41 | 0700 |
| 75 | 42 | 0867 |
| 76 | 43 | 6975 |
| 78 | 44 | 1083 |
| 80 | 45 | 7 1190 |
| 82 | 46 | 1298 |
| 83 | 47 | 1406 |
| 85 | 48 | 1514 |
| 87 | 49 | 1622 |
| 69 | 50 | 7 1730 |
| 91 | 51 | 1832 |
| 92 | 52 | 1947 |
| 94 | 53 | 2055 |
| 96 | 54 | 2164 |
| 96 | 55 | 7 2272 |
| 99 | 56 | 2381 |
| 101 | 57 | 2490 |
| 103 | 58 | 2590 |
| 105 | 59 | 2707 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 22° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 22° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 (8) 2816 | 3283 | 3751 | 4218 | 4685 | 5153 | 5620 | 6088 | 6556 | 7024 | 7492 | 7960 | 8428 | 8896 | 9364 | 9632 | 0300 | 106 | 0' | 3 3476 |
| 0 | 1 | 2925 | 3392 | 3859 | 4327 | 4794 | 5262 | 5729 | 6197 | 6664 | 7132 | 7600 | 8068 | 8536 | 9004 | 9472 | 9940 | 0409 | 105 | 1 | 3372 |
| 16 | 2 | 3034 | 3501 | 3968 | 4436 | 4903 | 5370 | 5838 | 6305 | 6773 | 7241 | 7708 | 8176 | 8644 | 9112 | 9580 | 0049 | 0517 | 103 | 2 | 3267 |
| 23 | 3 | 3143 | 3610 | 4077 | 4545 | 5012 | 5479 | 5947 | 6414 | 6882 | 7349 | 7817 | 8285 | 8753 | 9221 | 9689 | 0157 | 0625 | 101 | 3 | 3163 |
| 31 | 4 | 3253 | 3720 | 4187 | 4654 | 5121 | 5588 | 6056 | 6523 | 6990 | 7458 | 7926 | 8394 | 8861 | 9329 | 9797 | 0265 | 0733 | 99 | 4 | 3058 |
| 39 | 5 | 7 (0) 3362 | 3829 | 4296 | 4763 | 5230 | 5697 | 6165 | 6632 | 7099 | 7567 | 8035 | 8502 | 8970 | 9438 | 9906 | 0374 | 0842 | 98 | 5 | 3 2954 |
| 47 | 6 | 3471 | 3938 | 4405 | 4872 | 5339 | 5806 | 6274 | 6741 | 7208 | 7676 | 8143 | 8611 | 9079 | 9547 | 0014 | 0482 | 0950 | 96 | 6 | 2849 |
| 54 | 7 | 3581 | 4048 | 4514 | 4981 | 5448 | 5916 | 6383 | 6850 | 7317 | 7785 | 8252 | 8720 | 9187 | 9655 | 0123 | 0591 | 1059 | 94 | 7 | 2744 |
| 62 | 0 | 3690 | 4157 | 4624 | 5091 | 5558 | 6025 | 6492 | 6959 | 7496 | 7894 | 8361 | 8829 | 9296 | 9764 | 0232 | 0700 | 1168 | 92 | 8 | 2639 |
| 70 | 9 | 3800 | 4267 | 4733 | 5200 | 5667 | 6134 | 6601 | 7068 | 7536 | 8003 | 8470 | 8938 | 9405 | 9873 | 0341 | 0809 | 1276 | 91 | 9 | 2534 |
| 78 | 10 | 7 (8) 3910 | 4376 | 4843 | 5310 | 5777 | 6914 | 6711 | 7178 | 7645 | 8112 | 8580 | 9047 | 9515 | 9982 | 0450 | 0917 | 1385 | 89 | 10 | 3 2429 |
| 85 | 11 | 4019 | 4486 | 4953 | 6419 | 5886 | 6353 | 6820 | 7287 | 7764 | 8292 | 8689 | 9156 | 9624 | 0091 | 0559 | 1026 | 1494 | 07 | 11 | 2394 |
| 93 | 19 | 4129 | 4596 | 5062 | 5529 | 5996 | 6463 | 6930 | 7397 | 7864 | 8331 | 8798 | 9265 | 9733 | 0200 | 0668 | 1135 | 1603 | 85 | 12 | 2219 |
| 101 | 13 | 4239 | 4706 | 5172 | 5639 | 6106 | 6572 | 7039 | 7506 | 7973 | 8440 | 8908 | 9375 | 9842 | 0309 | 0777 | 1245 | 1712 | 83 | 13 | 2113 |
| 109 | 14 | 4349 | 4816 | 5282 | 5749 | 6215 | 6682 | 7149 | 7616 | 8083 | 8550 | 9017 | 9484 | 9951 | 0419 | 0886 | 1354 | 1821 | 82 | 14 | 2008 |
| 117 | 15 | 7 (8) 4459 | 4926 | 5392 | 5859 | 6325 | 6792 | 7259 | 7726 | 8193 | 8659 | 9126 | 9594 | 0061 | 0528 | 0996 | 1463 | 1931 | 80 | 15 | 3 1902 |
| 124 | 16 | 4570 | 5036 | 5502 | 5969 | 6435 | 6902 | 7369 | 7835 | 8302 | 8769 | 9236 | 9703 | 0171 | 0638 | 1105 | 1572 | 2040 | 78 | 16 | 1797 |
| 132 | 17 | 4680 | 5146 | 5612 | 6079 | 6545 | 7012 | 7479 | 7945 | 8412 | 8879 | 9346 | 9813 | 0281 | 0747 | 1214 | 1682 | 2149 | 76 | 17 | 1691 |
| 140 | 18 | 4790 | 5256 | 5723 | 6189 | 6655 | 7122 | 7589 | 8055 | 8522 | 8989 | 9456 | 9923 | 0390 | 0857 | 1324 | 1791 | 2259 | 75 | 18 | 1586 |
| 148 | 19 | 4901 | 5367 | 5833 | 6299 | 6766 | 7232 | 7699 | 8165 | 8632 | 9099 | 9566 | 0032 | 0499 | 0966 | 1434 | 1901 | 2368 | 73 | 19 | 1480 |
| 155 | 20 | 7 (0) 5011 | 5177 | 5943 | 6410 | 6876 | 7342 | 7809 | 8275 | 8742 | 9209 | 9676 | 0142 | 0609 | 1076 | 1543 | 2010 | 2478 | 71 | 20 | 3 1374 |
| 163 | 21 | 5122 | 5588 | 6054 | 6520 | 6986 | 7453 | 7919 | 8385 | 8852 | 9319 | 9786 | 0252 | 0719 | 1186 | 1653 | 2120 | 2587 | 69 | 21 | 1268 |
| 171 | 22 | 5232 | 5698 | 6164 | 6630 | 7097 | 7563 | 8029 | 8496 | 8962 | 9429 | 9896 | 0362 | 0829 | 1996 | 1763 | 2230 | 2697 | 67 | 22 | 1162 |
| 179 | 23 | 5343 | 5809 | 6275 | 6741 | 7207 | 7673 | 8140 | 8606 | 9073 | 9539 | 0006 | 0472 | 0939 | 1406 | 1873 | 2340 | 2807 | 66 | 23 | 1056 |
| 186 | 24 | 5154 | 5920 | 6386 | 6852 | 7318 | 7784 | 8250 | 8717 | 9183 | 9649 | 0116 | 0583 | 1049 | 1516 | 1983 | 2450 | 2917 | 64 | 24 | 0950 |
| 191 | 25 | 7 (0) 5565 | 6031 | 6497 | 6962 | 7428 | 7895 | 8361 | 8827 | 9293 | 9760 | 0226 | 0693 | 1160 | 1626 | 2093 | 2560 | 3027 | 62 | 25 | 3 0843 |
| 202 | 26 | 5676 | 6142 | 6607 | 7073 | 7539 | 8005 | 8471 | 8938 | 9404 | 9870 | 0337 | 0803 | 1270 | 1737 | 2203 | 2670 | 3137 | 60 | 26 | 0737 |
| 210 | 27 | 5787 | 6253 | 6718 | 7184 | 7650 | 8116 | 8582 | 9048 | 9514 | 9981 | 0447 | 0914 | 1380 | 1847 | 2314 | 2780 | 3247 | 59 | 27 | 0631 |
| 218 | 28 | 5898 | 6364 | 6829 | 7295 | 7761 | 8227 | 8693 | 9159 | 9625 | 0091 | 0558 | 1024 | 1491 | 1957 | 2424 | 9891 | 3357 | 57 | 28 | 0524 |
| 225 | 29 | 6009 | 6475 | 6940 | 7406 | 7872 | 8338 | 8804 | 9270 | 9736 | 0202 | 0668 | 1135 | 1601 | 2068 | 2534 | 3001 | 3468 | 65 | 29 | 0418 |
| 233 | 30 | 7 (8) 6120 | 6586 | 7052 | 7517 | 7983 | 8449 | 8915 | 9381 | 9847 | 0313 | 0779 | 1245 | 1712 | 2178 | 9645 | 3111 | 3578 | 53 | 30 | 3 0311 |
| 241 | 31 | 6232 | 6697 | 7163 | 7628 | 8094 | 8560 | 9026 | 9492 | 9958 | 0424 | 0890 | 1356 | 1829 | 2209 | 9755 | 3222 | 3689 | 51 | 31 | 0204 |
| 249 | 32 | 6343 | 6808 | 7274 | 7740 | 8205 | 8671 | 9137 | 9603 | 0069 | 0535 | 1001 | 1467 | 1933 | 2400 | 2866 | 3333 | 3799 | 50 | 32 | 0097 |
| 256 | 33 | 6455 | 6920 | 7385 | 7851 | 8317 | 8782 | 9248 | 9714 | 0180 | 0646 | 1112 | 1678 | 2044 | 2510 | 2977 | 3443 | 3910 | 48 | 33 | 2 9990 |
| 264 | 34 | 6566 | 7031 | 7497 | 7962 | 8428 | 8894 | 9359 | 9825 | 0291 | 0757 | 1293 | 1689 | 2155 | 2621 | 3088 | 3554 | 4020 | 46 | 34 | 9883 |
| 272 | 35 | 7 (8) 6678 | 7143 | 7609 | 8074 | 8539 | 9005 | 9471 | 9936 | 0402 | 0868 | 1334 | 1800 | 2266 | 2732 | 3199 | 3665 | 4131 | 44 | 35 | 2 9776 |
| 280 | 36 | 6790 | 7255 | 7720 | 8185 | 8651 | 9116 | 9582 | 0048 | 0513 | 0979 | 1445 | 1911 | 2377 | 2843 | 3310 | 3776 | 4242 | 43 | 36 | 9669 |
| 287 | 37 | 6902 | 7367 | 7832 | 8297 | 8763 | 9228 | 9693 | 0159 | 0625 | 1091 | 1556 | 2022 | 2488 | 2954 | 3421 | 3887 | 4353 | 41 | 37 | 9562 |
| 295 | 38 | 7014 | 7478 | 7944 | 8409 | 8874 | 9340 | 9805 | 0271 | 0736 | 1202 | 1668 | 2134 | 2599 | 3065 | 3632 | 3998 | 4464 | 39 | 30 | 9455 |
| 303 | 39 | 7126 | 7591 | 8066 | 8521 | 8986 | 9451 | 9917 | 0382 | 0848 | 1313 | 1779 | 2245 | 2711 | 3177 | 3643 | 4109 | 4575 | 37 | 39 | 9348 |
| 311 | 40 | 7 (0) 7238 | 7703 | 8168 | 8633 | 9098 | 9563 | 0028 | 0494 | 0959 | 1425 | 1891 | 2356 | 2822 | 3288 | 3754 | 4220 | 4686 | 35 | 40 | 2 9240 |
| 318 | 41 | 7350 | 7815 | 8280 | 8745 | 9210 | 9675 | 0140 | 0606 | 1071 | 1537 | 2002 | 2468 | 2934 | 3399 | 3865 | 4331 | 4797 | 34 | 41 | 9133 |
| 326 | 42 | 7462 | 7927 | 8392 | 0857 | 9322 | 9787 | 0252 | 0717 | 1183 | 1648 | 9114 | 2579 | 3015 | 3511 | 3977 | 4443 | 4909 | 32 | 49 | 9025 |
| 334 | 43 | 7574 | 8039 | 8504 | 8969 | 9434 | 9899 | 0361 | 0829 | 1295 | 1760 | 2226 | 2691 | 3157 | 3623 | 4088 | 4554 | 5020 | 30 | 43 | 8917 |
| 349 | 44 | 7687 | 8161 | 8616 | 9081 | 9546 | 0011 | 0476 | 0941 | 1407 | 1879 | 2337 | 2803 | 3268 | 3734 | 4200 | 4666 | 5132 | 28 | 44 | 8810 |
| 350 | 45 | 7 (8) 7799 | 8264 | 8728 | 9193 | 9658 | 0123 | 0588 | 1053 | 1519 | 1984 | 2449 | 2915 | 3380 | 3846 | 4311 | 4777 | 5243 | 27 | 45 | 2 8702 |
| 357 | 46 | 7912 | 8376 | 8841 | 9306 | 9770 | 0235 | 0700 | 1165 | 1631 | 2096 | 2561 | 3027 | 3492 | 3958 | 4423 | 4889 | 5355 | 25 | 46 | 8594 |
| 365 | 47 | 8024 | 8409 | 8953 | 9418 | 9883 | 0348 | 0813 | 1278 | 1743 | 2208 | 2673 | 3139 | 3604 | 4070 | 4635 | 5001 | 5466 | 23 | 47 | 6486 |
| 373 | 48 | 0137 | 8601 | 9066 | 9531 | 9995 | 0460 | 0925 | 1390 | 1855 | 2320 | 2785 | 3251 | 3716 | 4102 | 4647 | 5113 | 5578 | 21 | 40 | 8378 |
| 381 | 49 | 0250 | 8714 | 9179 | 9643 | 0108 | 0573 | 1037 | 1602 | 1967 | 2432 | 2897 | 3363 | 3828 | 4294 | 4769 | 5924 | 5690 | 19 | 49 | 0270 |
| 388 | 50 | 7 (8) 8362 | 8827 | 9291 | 9756 | 0220 | 0605 | 1150 | 1615 | 2080 | 2545 | 3010 | 3475 | 3940 | 4406 | 4871 | 5336 | 5802 | 10 | 50 | 2 8161 |
| 396 | 51 | 0475 | 8940 | 9404 | 9869 | 0333 | 0798 | 1262 | 1727 | 2192 | 9657 | 3122 | 3587 | 4052 | 4518 | 4983 | 5449 | 5914 | 16 | 51 | 8053 |
| 404 | 52 | 0588 | 9053 | 9517 | 9981 | 0446 | 0910 | 1375 | 1040 | 2305 | 2770 | 3935 | 3700 | 4165 | 4630 | 5095 | 5561 | 6096 | 14 | 52 | 7945 |
| 412 | 53 | 0701 | 9166 | 9630 | 0094 | 0559 | 1023 | 1488 | 1953 | 2417 | 2882 | 3347 | 3812 | 4277 | 4742 | 5207 | 6673 | 6138 | 12 | 53 | 7836 |
| 419 | 54 | 8815 | 9279 | 9743 | 0207 | 0672 | 1136 | 1601 | 9065 | 9530 | 2996 | 3460 | 3925 | 4390 | 4855 | 5320 | 5785 | 6251 | 11 | 54 | 7728 |
| 427 | 55 | 7 (6) 8929 | 9392 | 9856 | 0320 | 0785 | 1249 | 1714 | 2170 | 2643 | 3108 | 3572 | 4037 | 4502 | 4967 | 5432 | 5898 | 6363 | 9 | 55 | 2 7619 |
| 435 | 56 | 9041 | 9505 | 9969 | 0433 | 0898 | 1362 | 1027 | 9291 | 2756 | 3220 | 3685 | 4150 | 4615 | 5080 | 5546 | 6010 | 6475 | 7 | 56 | 7610 |
| 443 | 57 | 9154 | 9618 | 0082 | 0547 | 1011 | 1475 | 1940 | 2404 | 2869 | 3333 | 3790 | 4263 | 4728 | 5192 | 6657 | 6122 | 6588 | 5 | 57 | 7401 |
| 451 | 58 | 9968 | 9732 | 0196 | 0660 | 1124 | 1508 | 2053 | 9517 | 2982 | 3446 | 3911 | 4376 | 4840 | 5305 | 5770 | 6935 | 6700 | 4 | 68 | 7293 |
| 458 | 59 | 9381 | 9045 | 0309 | 0773 | 1237 | 1702 | 2166 | 2630 | 3096 | 3559 | 4024 | 4488 | 4953 | 5418 | 5883 | 6348 | 6813 | 2 | 59 | 7184 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 22° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 22° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | | | |
| 0 | 0' | 8 0769 | 1237 | 1706 | 2175 | 2643 | 3112 | 3581 | 4030 | 4519 | 4988 | 5458 | 5927 | 6396 | 6866 | 7335 | 7805 | 8274 | 0 | 0' | 7 2816 |
| 8 | 1 | 0877 | 1345 | 1814 | 2283 | 2751 | 3220 | 3689 | 4158 | 4627 | 5096 | 5565 | 6034 | 6504 | 6973 | 7442 | 7912 | 8382 | 2 | 1 | 2925 |
| 16 | 2 | 0985 | 1454 | 1922 | 2391 | 2859 | 3328 | 3797 | 4266 | 4735 | 5203 | 5673 | 6142 | 6511 | 7080 | 7550 | 8019 | 8489 | 4 | 2 | 3034 |
| 23 | 3 | 1093 | 1562 | 2030 | 2499 | 2967 | 3436 | 3905 | 4373 | 4842 | 5311 | 5780 | 6249 | 6719 | 7188 | 7657 | 8127 | 8596 | 6 | 3 | 3143 |
| 31 | 4 | 1202 | 1670 | 2138 | 2607 | 3075 | 3544 | 4013 | 4481 | 4950 | 5419 | 5888 | 6357 | 6826 | 7295 | 7765 | 8234 | 8704 | 7 | 4 | 3253 |
| 39 | 5 | 8 1310 | 1778 | 2247 | 2715 | 3183 | 3652 | 4121 | 4589 | 5058 | 5527 | 5996 | 6465 | 6934 | 7403 | 7872 | 8342 | 8811 | 9 | 5 | 7 3362 |
| 47 | 6 | 1419 | 1887 | 2355 | 2823 | 3292 | 3760 | 4229 | 4697 | 5165 | 5635 | 6104 | 6573 | 7042 | 7511 | 7980 | 8449 | 8919 | 11 | 6 | 3471 |
| 55 | 7 | 1527 | 1995 | 2463 | 2932 | 3400 | 3868 | 4337 | 4806 | 5274 | 5743 | 6212 | 6681 | 7150 | 7619 | 8088 | 8557 | 9026 | 13 | 7 | 3581 |
| 62 | 8 | 1536 | 2104 | 2572 | 3040 | 3508 | 3977 | 4445 | 4914 | 5382 | 5851 | 6320 | 6789 | 7258 | 7727 | 8196 | 8665 | 9134 | 15 | 8 | 3690 |
| 70 | 9 | 1744 | 2212 | 2680 | 3149 | 3617 | 4085 | 4554 | 5022 | 5491 | 5959 | 6428 | 6897 | 7366 | 7835 | 8304 | 8773 | 9242 | 17 | 9 | 3800 |
| 78 | 10 | 8 1853 | 2321 | 2789 | 3257 | 3725 | 4194 | 4662 | 5130 | 5599 | 6068 | 6536 | 7005 | 7474 | 7943 | 8412 | 8881 | 9350 | 19 | 10 | 7 3910 |
| 06 | 11 | 1962 | 2430 | 2898 | 3366 | 3834 | 4302 | 4771 | 5239 | 5707 | 6176 | 6645 | 7113 | 7582 | 8051 | 8520 | 8989 | 9458 | 20 | 11 | 4020 |
| 93 | 12 | 2071 | 2539 | 3007 | 3475 | 3943 | 4411 | 4879 | 5347 | 5816 | 6284 | 6753 | 7222 | 7690 | 8159 | 8628 | 9097 | 9566 | 22 | 12 | 4129 |
| 101 | 13 | 2180 | 2648 | 3116 | 3584 | 4052 | 4520 | 4988 | 5456 | 5924 | 6393 | 6861 | 7330 | 7799 | 8267 | 8736 | 9205 | 9674 | 24 | 13 | 4239 |
| 109 | 14 | 2289 | 2757 | 3225 | 3692 | 4160 | 4628 | 5097 | 5565 | 6033 | 6501 | 6970 | 7438 | 7907 | 8376 | 8844 | 9313 | 9782 | 26 | 14 | 4349 |
| 117 | 15 | 8 2398 | 2866 | 3334 | 3801 | 4269 | 4737 | 5205 | 5673 | 6142 | 6610 | 7078 | 7547 | 8015 | 8484 | 8953 | 9422 | 9890 | 28 | 15 | 7 4459 |
| 125 | 16 | 2507 | 2975 | 3443 | 3910 | 4378 | 4846 | 5314 | 5782 | 6251 | 6719 | 7187 | 7556 | 8124 | 8593 | 9061 | 9530 | 9999 | 30 | 16 | 4570 |
| 132 | 17 | 8 (9) 2617 | 3084 | 3552 | 4020 | 4487 | 4955 | 5423 | 5891 | 6359 | 6828 | 7296 | 7764 | 8233 | 8701 | 9170 | 9638 | 0197 | 32 | 17 | 4680 |
| 140 | 18 | 2726 | 3194 | 3661 | 4129 | 4597 | 5064 | 5532 | 6000 | 6468 | 6937 | 7405 | 7873 | 8341 | 8810 | 9278 | 9747 | 0216 | 33 | 18 | 4790 |
| 148 | 19 | 2836 | 3303 | 3771 | 4238 | 4706 | 5174 | 5641 | 6109 | 6577 | 7046 | 7514 | 7982 | 8450 | 8919 | 9387 | 9856 | 0324 | 35 | 19 | 4901 |
| 156 | 20 | 8 (9) 2945 | 3413 | 3880 | 4348 | 4815 | 5283 | 5751 | 6219 | 6686 | 7155 | 7623 | 8091 | 8559 | 9027 | 9496 | 9964 | 0433 | 37 | 20 | 7 5011 |
| 164 | 21 | 3055 | 3522 | 3990 | 4457 | 4925 | 5392 | 5860 | 6328 | 6796 | 7264 | 7732 | 8200 | 8668 | 9136 | 9605 | 0073 | 0542 | 39 | 21 | 5122 |
| 171 | 22 | 3164 | 3632 | 4099 | 4567 | 5034 | 5502 | 5969 | 6137 | 6905 | 7373 | 7841 | 8309 | 8777 | 9245 | 9714 | 0182 | 0650 | 41 | 22 | 5232 |
| 179 | 23 | 3274 | 3741 | 4209 | 4676 | 5144 | 5611 | 6079 | 6547 | 7014 | 7482 | 7950 | 8418 | 8886 | 9354 | 9823 | 0291 | 0759 | 43 | 23 | 5343 |
| 187 | 24 | 3384 | 3851 | 4318 | 4785 | 5253 | 5721 | 6188 | 6656 | 7124 | 7592 | 8059 | 8527 | 8995 | 9463 | 9932 | 0400 | 0868 | 45 | 24 | 5454 |
| 195 | 25 | 8 (9) 3494 | 3961 | 4428 | 4896 | 5363 | 5830 | 6290 | 6766 | 7233 | 7701 | 8169 | 8637 | 9105 | 9573 | 0041 | 0509 | 0977 | 47 | 25 | 7 5565 |
| 203 | 26 | 3604 | 4071 | 4538 | 5005 | 5473 | 5940 | 6408 | 6875 | 7343 | 7810 | 8278 | 8746 | 9214 | 9682 | 0150 | 0618 | 1086 | 48 | 26 | 5676 |
| 210 | 27 | 3714 | 4181 | 4648 | 5115 | 5583 | 6050 | 6517 | 6985 | 7452 | 7920 | 8388 | 8856 | 9323 | 9791 | 0259 | 0727 | 1196 | 50 | 27 | 5787 |
| 218 | 28 | 3824 | 4291 | 4758 | 5225 | 5693 | 6160 | 6627 | 7095 | 7552 | 8030 | 8497 | 8965 | 9433 | 9901 | 0369 | 0837 | 1305 | 52 | 28 | 5898 |
| 226 | 29 | 3935 | 4401 | 4868 | 5336 | 5803 | 6270 | 6737 | 7204 | 7672 | 8139 | 8607 | 9075 | 9542 | 0010 | 0478 | 0946 | 1414 | 54 | 29 | 6009 |
| 234 | 30 | 8 (9) 4045 | 4512 | 4979 | 5446 | 5913 | 6380 | 6847 | 7314 | 7782 | 8249 | 8717 | 9184 | 9652 | 0120 | 0588 | 1056 | 1524 | 56 | 30 | 7 6120 |
| 242 | 31 | 4155 | 4622 | 5089 | 5556 | 6023 | 6490 | 6957 | 7424 | 7892 | 8359 | 8827 | 9294 | 9762 | 0230 | 0697 | 1165 | 1633 | 58 | 31 | 6232 |
| 249 | 32 | 4266 | 4732 | 5199 | 5656 | 6133 | 6600 | 7067 | 7535 | 8002 | 8469 | 8937 | 9404 | 9872 | 0339 | 0807 | 1275 | 1743 | 59 | 32 | 6343 |
| 257 | 33 | 4376 | 4843 | 5310 | 5777 | 6243 | 6710 | 7178 | 7645 | 8112 | 8579 | 9047 | 9514 | 9981 | 0449 | 0917 | 1385 | 1852 | 61 | 33 | 6455 |
| 265 | 34 | 4487 | 4954 | 5420 | 5887 | 6354 | 6821 | 7288 | 7755 | 8222 | 8689 | 9157 | 9624 | 0091 | 0559 | 1027 | 1494 | 1962 | 63 | 34 | 6566 |
| 273 | 35 | 8 (9) 4598 | 5064 | 5531 | 5998 | 6464 | 6931 | 7398 | 7865 | 8332 | 8800 | 9267 | 9734 | 0201 | 0669 | 1136 | 1604 | 2072 | 65 | 35 | 7 6678 |
| 280 | 36 | 4708 | 5175 | 5642 | 6108 | 5575 | 7042 | 7609 | 7976 | 8443 | 8910 | 9377 | 9844 | 0312 | 0779 | 1246 | 1714 | 2182 | 67 | 36 | 6790 |
| 288 | 37 | 4819 | 5286 | 5752 | 6219 | 6686 | 7152 | 7619 | 8086 | 8553 | 9020 | 9487 | 9955 | 0422 | 0889 | 1357 | 1824 | 2292 | 69 | 37 | 6902 |
| 296 | 38 | 4930 | 5397 | 5863 | 6330 | 6796 | 7263 | 7730 | 8197 | 8664 | 9131 | 9598 | 0065 | 0532 | 0999 | 1467 | 1934 | 2402 | 71 | 38 | 7014 |
| 304 | 39 | 5041 | 5508 | 5974 | 6440 | 6907 | 7374 | 7840 | 8307 | 8774 | 9241 | 9708 | 0175 | 0642 | 1110 | 1577 | 2044 | 2512 | 72 | 39 | 7126 |
| 312 | 40 | 8 (9) 5152 | 5619 | 6085 | 6551 | 7018 | 7485 | 7951 | 8418 | 8885 | 9352 | 9819 | 0286 | 0753 | 1220 | 1687 | 2155 | 2622 | 74 | 40 | 7 7238 |
| 319 | 41 | 5264 | 5730 | 6196 | 6662 | 7129 | 7595 | 8062 | 8529 | 8996 | 9462 | 9929 | 0396 | 0863 | 1330 | 1798 | 2265 | 2732 | 76 | 41 | 7350 |
| 327 | 42 | 5375 | 5841 | 6307 | 6774 | 7240 | 7706 | 8173 | 8640 | 9106 | 9573 | 0040 | 0507 | 0974 | 1441 | 1908 | 2375 | 2843 | 78 | 42 | 7462 |
| 335 | 43 | 5486 | 5952 | 6418 | 6885 | 7351 | 7817 | 8284 | 8751 | 9217 | 9684 | 0151 | 0618 | 1081 | 1552 | 2019 | 2486 | 2953 | 80 | 43 | 7574 |
| 343 | 44 | 5598 | 6064 | 6530 | 6996 | 7462 | 7929 | 8395 | 8852 | 9328 | 9795 | 0262 | 0728 | 1195 | 1662 | 2129 | 2596 | 3064 | 82 | 44 | 7687 |
| 351 | 45 | 8 (9) 5709 | 6175 | 6641 | 7107 | 7574 | 8040 | 8506 | 8973 | 9439 | 9906 | 0373 | 0839 | 1306 | 1773 | 2240 | 2707 | 3174 | 84 | 45 | 7 7799 |
| 358 | 46 | 5821 | 6287 | 6753 | 7219 | 7685 | 8151 | 8617 | 9084 | 9550 | 0017 | 0484 | 0950 | 1417 | 1884 | 2351 | 2818 | 3285 | 86 | 46 | 7912 |
| 366 | 47 | 5932 | 6398 | 6864 | 7330 | 7796 | 8262 | 8729 | 9195 | 9651 | 0128 | 0595 | 1061 | 1528 | 1995 | 2462 | 2929 | 3396 | 87 | 47 | 8024 |
| 374 | 48 | 6044 | 6510 | 6976 | 7442 | 7908 | 8374 | 8840 | 2306 | 9773 | 0239 | 0706 | 1172 | 1639 | 2106 | 2573 | 3039 | 3506 | 89 | 48 | 8137 |
| 382 | 49 | 6156 | 6621 | 7087 | 7553 | 8019 | 8485 | 8951 | 9418 | 9884 | 0350 | 0817 | 1283 | 1750 | 2217 | 2684 | 3150 | 3617 | 91 | 49 | 8250 |
| 390 | 50 | 8 (9) 6268 | 6733 | 7199 | 7665 | 8131 | 8597 | 9063 | 9529 | 9995 | 0462 | 0928 | 1395 | 1861 | 2328 | 2795 | 3261 | 3728 | 93 | 60 | 7 8362 |
| 397 | 51 | 6380 | 6845 | 7311 | 7777 | 8243 | 8709 | 9175 | 9641 | 0107 | 0573 | 1040 | 1506 | 1973 | 2439 | 2906 | 3372 | 3839 | 95 | 51 | 8475 |
| 405 | 52 | 6492 | 6257 | 7423 | 7889 | 8354 | 8820 | 9286 | 9752 | 0219 | 0605 | 1151 | 1617 | 2084 | 2550 | 3017 | 3484 | 3950 | 97 | 52 | 8588 |
| 413 | 53 | 6604 | 7969 | 7535 | 0001 | 0466 | 8932 | 9398 | 9864 | 0330 | 0796 | 1263 | 1729 | 2195 | 2662 | 3128 | 3595 | 4062 | 99 | 53 | 8701 |
| 421 | 54 | 6716 | 7181 | 7647 | 8113 | 8578 | 9044 | 9510 | 9976 | 0442 | 0908 | 1374 | 1840 | 2307 | 2773 | 3240 | 3706 | 4173 | 100 | 54 | 8815 |
| 429 | 55 | 8 (9) 6828 | 7294 | 7759 | 8225 | 8690 | 9156 | 9622 | 0088 | 0554 | 1020 | 1486 | 1952 | 2418 | 2885 | 3351 | 3818 | 4284 | 192 | 55 | 7 8928 |
| 436 | 56 | 6940 | 7406 | 7071 | 8337 | 8802 | 9268 | 9734 | 0200 | 0666 | 1132 | 1598 | 2064 | 2530 | 2996 | 3463 | 3929 | 4396 | 104 | 56 | 9041 |
| 444 | 57 | 7853 | 7518 | 7984 | 8450 | 8915 | 9380 | 9846 | 0312 | 0778 | 1243 | 1709 | 2176 | 2642 | 3108 | 3574 | 4041 | 4507 | 106 | 57 | 9154 |
| 452 | 58 | 7155 | 7631 | 8096 | 8562 | 9027 | 9492 | 9958 | 0424 | 0890 | 1355 | 1021 | 2207 | 2754 | 3220 | 3686 | 4162 | 4619 | 108 | 50 | 9268 |
| 460 | 59 | 7278 | 7743 | 8208 | 8674 | 9139 | 9605 | 0970 | 0536 | 1002 | 1467 | 1933 | 2399 | 2855 | 3332 | 3798 | 4264 | 4730 | 110 | 59 | 9382 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 23° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 23° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 7 (8) 9425 | 9959 | 0423 | 0807 | 1351 | 1815 | 2279 | 2743 | 3208 | 3672 | 4137 | 4601 | 5066 | 5531 | 5996 | 6461 | 6926 | 111 | 0′ | 2 7075 |
| 8 | 1 | 9609 | 0073 | 0536 | 1000 | 1464 | 1928 | 2392 | 2857 | 3321 | 3785 | 4250 | 4714 | 5179 | 5644 | 6109 | 6573 | 7038 | 110 | 1 | 6966 |
| 15 | 2 | 9723 | 0186 | 0650 | 1114 | 1578 | 2049 | 2506 | 2970 | 3434 | 3899 | 4363 | 4828 | 5299 | 5757 | 6222 | 6686 | 7151 | 108 | 2 | 6857 |
| 23 | 3 | 9836 | 0300 | 0764 | 1928 | 1691 | 2155 | 2620 | 3084 | 3548 | 4012 | 4476 | 4241 | 5405 | 5870 | 6335 | 6799 | 7264 | 106 | 3 | 6747 |
| 31 | 4 | 9950 | 0414 | 0878 | 1341 | 1805 | 2269 | 2733 | 3197 | 3661 | 4125 | 4590 | 5054 | 5519 | 5983 | 6448 | 6912 | 7377 | 104 | 4 | 6630 |
| 39 | 5 | 8 0064 | 0528 | 0992 | 1455 | 1919 | 2383 | 2847 | 3311 | 3775 | 4239 | 4703 | 5168 | 5632 | 6096 | 6561 | 7026 | 7490 | 109 | 5 | 2 6522 |
| 46 | 6 | 0178 | 0642 | 1106 | 1569 | 2033 | 2497 | 2960 | 3424 | 3888 | 4353 | 4817 | 5281 | 5745 | 6210 | 6674 | 7139 | 7603 | 100 | 6 | 6419 |
| 54 | 7 | 0993 | 0756 | 1920 | 1683 | 2147 | 2610 | 3074 | 3538 | 4002 | 4466 | 4930 | 5395 | 5839 | 6325 | 6788 | 7252 | 7717 | 99 | 7 | 6310 |
| 62 | 8 | 0407 | 0870 | 1334 | 1797 | 2261 | 2724 | 3188 | 3652 | 4116 | 4580 | 5044 | 5508 | 5972 | 6437 | 6901 | 7365 | 7030 | 97 | 8 | 6200 |
| 69 | 9 | 0591 | 0985 | 1448 | 1911 | 9375 | 2838 | 3302 | 3766 | 4930 | 4694 | 5158 | 5622 | 6086 | 6550 | 7014 | 7472 | 7943 | 95 | 9 | 6090 |
| 77 | 10 | 8 0635 | 1099 | 1562 | 2026 | 2489 | 2953 | 3416 | 3880 | 4344 | 4808 | 5272 | 5736 | 6200 | 6664 | 7128 | 7592 | 8057 | 93 | 10 | 2 5980 |
| 85 | 11 | 0750 | 1213 | 1677 | 2140 | 2603 | 3067 | 3530 | 3994 | 4458 | 4922 | 5385 | 5849 | 6313 | 6777 | 7242 | 7706 | 8170 | 91 | 11 | 5871 |
| 22 | 12 | 0865 | 1328 | 1791 | 2254 | 2718 | 3181 | 3645 | 4108 | 4572 | 5036 | 5499 | 5963 | 6427 | 6891 | 7355 | 7820 | 8204 | 89 | 12 | 5751 |
| 100 | 13 | 0979 | 1442 | 1985 | 2369 | 2832 | 3295 | 3759 | 4222 | 4686 | 5150 | 5613 | 6077 | 6541 | 7005 | 7469 | 7933 | 8398 | 07 | 13 | 5651 |
| 108 | 14 | 1094 | 1557 | 2020 | 2483 | 2947 | 3410 | 3873 | 4337 | 4800 | 5264 | 5728 | 6191 | 6655 | 7119 | 7583 | 8047 | 8512 | 06 | 14 | 5541 |
| 116 | 15 | 8 1909 | 1672 | 2135 | 2598 | 3061 | 3594 | 3988 | 4451 | 4915 | 5378 | 5842 | 6306 | 6762 | 7933 | 7697 | 8161 | 8625 | 84 | 15 | 2 5430 |
| 123 | 16 | 1324 | 1707 | 2250 | 2713 | 3176 | 3639 | 4102 | 4566 | 5029 | 5492 | 5956 | 6420 | 6084 | 7347 | 7811 | 8275 | 8739 | 82 | 16 | 5320 |
| 131 | 17 | 1439 | 1901 | 2364 | 2827 | 3990 | 3753 | 4217 | 4680 | 5143 | 5607 | 6070 | 6534 | 6998 | 7462 | 7225 | 8389 | 8853 | 60 | 17 | 5910 |
| 139 | 10 | 1554 | 2016 | 2479 | 9949 | 3105 | 3868 | 4331 | 4795 | 5258 | 5721 | 6185 | 6648 | 7112 | 7576 | 8040 | 8503 | 8967 | 78 | 10 | 5092 |
| 146 | 19 | 1669 | 2131 | 2594 | 3057 | 3520 | 3983 | 4446 | 4909 | 5373 | 5836 | 6299 | 6763 | 7226 | 7690 | 8154 | 8618 | 9089 | 76 | 19 | 4989 |
| 154 | 90 | 8 1784 | 2246 | 2709 | 3172 | 3635 | 4098 | 4561 | 5024 | 5487 | 5951 | 6414 | 6877 | 7341 | 7805 | 8268 | 8732 | 9126 | 74 | 20 | 2 4878 |
| 162 | 21 | 1899 | 2362 | 2894 | 3287 | 3750 | 4213 | 4676 | 5139 | 5602 | 6065 | 6529 | 6992 | 7456 | 7912 | 8383 | 8846 | 9310 | 79 | 21 | 4760 |
| 170 | 29 | 2014 | 2477 | 9940 | 3402 | 3865 | 4328 | 4721 | 5254 | 5717 | 6180 | 6643 | 7107 | 7570 | 0034 | 8497 | 8961 | 9424 | 71 | 22 | 4657 |
| 177 | 23 | 2130 | 2599 | 3055 | 3518 | 3980 | 4443 | 4906 | 5369 | 5832 | 6295 | 6758 | 7221 | 7685 | 8146 | 8612 | 9075 | 9539 | 69 | 23 | 4546 |
| 105 | 24 | 2245 | 2708 | 3170 | 3633 | 4096 | 4558 | 5021 | 5484 | 5947 | 6410 | 6873 | 7336 | 7000 | 8263 | 8726 | 9190 | 9654 | 67 | 24 | 4435 |
| 193 | 25 | 8 2361 | 9893 | 3286 | 3748 | 4211 | 4674 | 5136 | 5599 | 6062 | 6595 | 6988 | 7451 | 7214 | 8378 | 8841 | 9305 | 9768 | 65 | 25 | 2 4324 |
| 200 | 26 | 2477 | 2939 | 3401 | 3864 | 4326 | 4789 | 5252 | 5714 | 6177 | 6640 | 7103 | 7566 | 8029 | 8493 | 8956 | 9419 | 9883 | 63 | 26 | 4213 |
| 908 | 27 | 2592 | 3055 | 3517 | 3979 | 4442 | 4904 | 5367 | 5830 | 6292 | 6755 | 7218 | 7681 | 8144 | 8608 | 9071 | 9534 | 9998 | 61 | 27 | 4102 |
| 216 | 20 | 8 (9) 2708 | 3170 | 3633 | 4095 | 4557 | 5020 | 5482 | 5945 | 6408 | 6871 | 7334 | 7726 | 8260 | 8793 | 9186 | 9649 | 0113 | 59 | 26 | 3991 |
| 224 | 29 | 2824 | 3986 | 3748 | 4911 | 4673 | 5135 | 5598 | 6061 | 6523 | 6286 | 7449 | 7912 | 8375 | 8838 | 9301 | 9764 | 0228 | 58 | 29 | 3860 |
| 231 | 30 | 8 (9) 2240 | 3402 | 3864 | 4326 | 4789 | 5251 | 5714 | 6176 | 6639 | 7101 | 7564 | 8027 | 8490 | 8953 | 2416 | 9879 | 0343 | 56 | 30 | 2 3760 |
| 939 | 31 | 3056 | 3518 | 3980 | 4442 | 4904 | 5367 | 5829 | 6292 | 6754 | 7217 | 7680 | 8142 | 8605 | 9068 | 9531 | 9994 | 0458 | 54 | 31 | 3657 |
| 947 | 32 | 3172 | 3634 | 4096 | 4558 | 5020 | 5483 | 5945 | 6407 | 6870 | 7333 | 7795 | 8258 | 8721 | 9184 | 9647 | 0110 | 0573 | 52 | 32 | 3545 |
| 254 | 33 | 3988 | 3750 | 4912 | 4674 | 5136 | 5598 | 6061 | 6593 | 6986 | 7448 | 7911 | 8373 | 8836 | 9299 | 9769 | 0925 | 0688 | 50 | 33 | 3434 |
| 262 | 34 | 3404 | 3866 | 4328 | 4790 | 5252 | 5714 | 6177 | 6639 | 7101 | 7564 | 8026 | 8409 | 8932 | 9415 | 9877 | 0340 | 0803 | 48 | 34 | 3322 |
| 270 | 35 | 8 (9) 3521 | 3983 | 4444 | 4906 | 5368 | 5830 | 6293 | 6755 | 7217 | 7680 | 8142 | 8605 | 9067 | 9530 | 9993 | 0436 | 0919 | 47 | 35 | 2 3210 |
| 278 | 36 | 3637 | 4099 | 4561 | 5023 | 5485 | 5947 | 6409 | 6671 | 7333 | 7796 | 8258 | 8721 | 9183 | 9645 | 0108 | 0571 | 1034 | 45 | 35 | 3098 |
| 285 | 37 | 3754 | 4915 | 4677 | 5139 | 5601 | 6063 | 6525 | 6987 | 7449 | 7919 | 8374 | 8836 | 9299 | 2761 | 0924 | 0687 | 1150 | 43 | 37 | 2986 |
| 293 | 38 | 3870 | 4332 | 4794 | 5255 | 5717 | 6179 | 6641 | 7103 | 7565 | 8028 | 8490 | 8959 | 9415 | 9877 | 0340 | 0803 | 1265 | 41 | 38 | 2874 |
| 301 | 39 | 3987 | 4448 | 4910 | 5379 | 5834 | 6296 | 6757 | 7219 | 7652 | 8144 | 8606 | 9068 | 9531 | 9993 | 0436 | 0918 | 1381 | 39 | 39 | 2769 |
| 300 | 40 | 0 (9) 4104 | 4565 | 5097 | 5488 | 5950 | 6412 | 6874 | 7336 | 7798 | 8260 | 8792 | 9184 | 9647 | 0102 | 0572 | 1034 | 1497 | 37 | 40 | 2 2650 |
| 316 | 41 | 4921 | 4682 | 5143 | 5605 | 6067 | 6528 | 6990 | 7452 | 7914 | 8376 | 8838 | 9301 | 9763 | 0925 | 0688 | 1150 | 1613 | 35 | 41 | 2538 |
| 324 | 42 | 4337 | 4799 | 5260 | 5792 | 6183 | 6645 | 7107 | 7569 | 8031 | 8493 | 8955 | 9417 | 9879 | 0341 | 0804 | 1266 | 1799 | 33 | 42 | 2426 |
| 331 | 43 | 4454 | 4916 | 5377 | 5839 | 6300 | 6762 | 7223 | 7685 | 8147 | 8609 | 9071 | 9533 | 9995 | 0457 | 0920 | 1389 | 1845 | 32 | 43 | 2313 |
| 339 | 44 | 4571 | 5033 | 5494 | 5955 | 6417 | 6878 | 7340 | 7802 | 8964 | 8726 | 2187 | 9650 | 0119 | 0574 | 1036 | 1498 | 1961 | 30 | 44 | 2201 |
| 347 | 45 | 8 (9) 4688 | 5150 | 5611 | 6072 | 6534 | 6995 | 7457 | 7919 | 8380 | 8842 | 9304 | 9766 | 0228 | 0690 | 1152 | 1615 | 2077 | 28 | 45 | 2 2088 |
| 355 | 46 | 4806 | 5267 | 5720 | 6189 | 6651 | 7112 | 7574 | 8035 | 8497 | 8959 | 9421 | 9083 | 0345 | 0807 | 1269 | 1731 | 9193 | 26 | 46 | 1976 |
| 362 | 47 | 4923 | 5304 | 5845 | 6306 | 6768 | 7299 | 7691 | 8152 | 8614 | 9075 | 9537 | 9999 | 0461 | 0923 | 1305 | 1647 | 9310 | 24 | 47 | 1063 |
| 370 | 40 | 5040 | 5501 | 5962 | 6424 | 6885 | 7346 | 7008 | 8269 | 8731 | 9192 | 9654 | 0116 | 0578 | 1040 | 1509 | 1964 | 2496 | 29 | 48 | 1750 |
| 370 | 49 | 5158 | 5619 | 6080 | 6541 | 7002 | 7463 | 7925 | 8386 | 8848 | 9309 | 9771 | 0233 | 0694 | 1156 | 1618 | 2080 | 9542 | 20 | 49 | 1638 |
| 385 | 60 | 8 (9) 5275 | 5736 | 6197 | 6658 | 7119 | 7581 | 8049 | 8503 | 8965 | 9426 | 9888 | 0349 | 0811 | 1273 | 1735 | 2197 | 2659 | 19 | 60 | 2 1593 |
| 393 | 51 | 5393 | 5854 | 6315 | 6776 | 7237 | 7698 | 8159 | 8620 | 9089 | 9543 | 0005 | 0466 | 0928 | 1390 | 1859 | 9314 | 9776 | 17 | 51 | 1412 |
| 401 | 52 | 5510 | 5971 | 6432 | 6893 | 7354 | 7815 | 8976 | 8738 | 9199 | 9660 | 0122 | 0583 | 1045 | 1507 | 1969 | 2430 | 9892 | 15 | 52 | 1299 |
| 409 | 53 | 5628 | 6089 | 6550 | 7011 | 7472 | 7933 | 8394 | 8855 | 9316 | 9777 | 0239 | 0700 | 1162 | 1624 | 9085 | 2547 | 3009 | 13 | 53 | 1185 |
| 416 | 54 | 5746 | 6207 | 6667 | 7128 | 7589 | 8050 | 8511 | 8972 | 9433 | 9895 | 0356 | 0018 | 1279 | 1741 | 2202 | 9664 | 3126 | 11 | 54 | 1072 |
| 424 | 55 | 6 (9) 5864 | 6324 | 6785 | 7946 | 7707 | 8168 | 8629 | 9090 | 9551 | 0012 | 0473 | 0935 | 1396 | 1858 | 9319 | 2781 | 3243 | 9 | 55 | 9 0959 |
| 432 | 56 | 6982 | 6449 | 6903 | 7364 | 7824 | 8985 | 8746 | 9207 | 9668 | 0130 | 0591 | 1052 | 1514 | 1975 | 2437 | 9898 | 3360 | 7 | 56 | 0840 |
| 439 | 57 | 6100 | 6560 | 7021 | 7482 | 7242 | 8403 | 8864 | 9323 | 9706 | 0247 | 0708 | 1170 | 1631 | 2022 | 2554 | 3015 | 3477 | 6 | 57 | 0732 |
| 447 | 50 | 6218 | 6678 | 7139 | 7600 | 8060 | 8521 | 8982 | 9443 | 9904 | 0365 | 0826 | 1987 | 1748 | 2210 | 2671 | 3133 | 3594 | 4 | 50 | 0618 |
| 455 | 59 | 6336 | 6797 | 7257 | 7718 | 8178 | 8639 | 9100 | 9560 | 0091 | 0482 | 0943 | 1405 | 1866 | 2327 | 2788 | 3250 | 3711 | 2 | 69 | 0505 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

| Partes para segundos del Arg. Auxiliar | 23° | Argumento Auxiliar. | 17′ | 16′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32 | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 8 (9) | 7391 | 7856 | 8321 | 8786 | 9252 | 9717 | 0183 | 0648 | 1114 | 1580 | 2045 | 2511 | 2977 | 3443 | 3910 | 4376 | 4842 |
| 8 | 1 | | 7503 | 7968 | 8431 | 8899 | 9364 | 9829 | 0295 | 0760 | 1226 | 1692 | 2158 | 2623 | 3089 | 3555 | 4022 | 4488 | 4954 |
| 16 | 2 | | 7616 | 8081 | 8546 | 9011 | 9477 | 9042 | 0107 | 0873 | 1338 | 1804 | 2270 | 2736 | 3201 | 3667 | 4134 | 4600 | 5066 |
| 23 | 3 | | 7729 | 8104 | 8650 | 9121 | 0589 | 0055 | 0520 | 0985 | 1451 | 1916 | 2382 | 2848 | 3314 | 3780 | 4246 | 4712 | 5178 |
| 31 | 4 | | 7812 | 8307 | 8772 | 9237 | 9702 | 0167 | 0633 | 1098 | 1563 | 2029 | 2494 | 2960 | 3426 | 3892 | 4358 | 4824 | 5290 |
| 39 | 5 | 6 (9) | 7955 | 8420 | 8885 | 9350 | 9815 | 0280 | 0745 | 1211 | 1676 | 2141 | 2607 | 3073 | 3538 | 4004 | 4470 | 4936 | 5402 |
| 46 | 6 | | 8068 | 8533 | 8998 | 9463 | 9928 | 0393 | 0858 | 1323 | 1789 | 2254 | 2719 | 3185 | 3651 | 4116 | 4582 | 5048 | 5515 |
| 54 | 7 | | 6181 | 8616 | 9111 | 9576 | 0041 | 0506 | 0271 | 1436 | 1901 | 2367 | 2832 | 3298 | 3763 | 4229 | 4695 | 5160 | 5626 |
| 62 | 8 | | 8295 | 8759 | 9224 | 0689 | 0154 | 0619 | 1081 | 1549 | 2014 | 2479 | 2945 | 3110 | 3876 | 4341 | 4807 | 5273 | 5739 |
| 70 | 9 | | 8408 | 8873 | 9337 | 9802 | 0267 | 0732 | 1197 | 1662 | 2127 | 2592 | 3058 | 3523 | 3988 | 4454 | 4920 | 5385 | 5851 |
| 77 | 10 | 8 (9) | 8521 | 8986 | 9451 | 9915 | 0380 | 0815 | 1310 | 1775 | 2240 | 2705 | 3170 | 3636 | 4101 | 4567 | 5032 | 5498 | 5963 |
| 85 | 11 | | 8635 | 9099 | 9564 | 0029 | 0403 | 0958 | 1423 | 1888 | 2353 | 2818 | 3283 | 3749 | 4214 | 4679 | 5145 | 5610 | 6076 |
| 93 | 12 | | 8748 | 9213 | 9677 | 0142 | 0607 | 1071 | 1536 | 2001 | 2466 | 2931 | 3396 | 3862 | 4327 | 4792 | 5258 | 5723 | 6180 |
| 101 | 13 | | 8862 | 0326 | 9791 | 0255 | 0720 | 1185 | 1650 | 2114 | 2570 | 3041 | 3509 | 3975 | 4440 | 4905 | 5370 | 5836 | 6301 |
| 108 | 14 | | 8976 | 0440 | 9904 | 0369 | 0834 | 1208 | 1763 | 2228 | 2692 | 3157 | 3623 | 4088 | 4553 | 5018 | 5183 | 5949 | 6414 |
| 116 | 16 | 8 (9) | 9089 | 9554 | 0018 | 0483 | 0947 | 1412 | 1676 | 2341 | 2806 | 3271 | 3735 | 4201 | 4666 | 5131 | 5596 | 6062 | 6527 |
| 124 | 16 | | 9203 | 9668 | 0132 | 0596 | 1061 | 1525 | 1290 | 2454 | 2919 | 3381 | 3819 | 4314 | 4779 | 5244 | 5709 | 6175 | 6640 |
| 132 | 17 | | 9317 | 9782 | 0246 | 0710 | 1171 | 1639 | 2103 | 2568 | 3033 | 3498 | 3062 | 1427 | 4892 | 5357 | 5823 | 6288 | 6753 |
| 139 | 18 | | 9431 | 9896 | 0360 | 0824 | 1288 | 1753 | 2217 | 2682 | 3146 | 3611 | 1076 | 4541 | 5005 | 5471 | 5936 | 6401 | 6866 |
| 147 | 19 | | 9546 | 0010 | 0474 | 0938 | 1402 | 1867 | 2331 | 2795 | 3260 | 3725 | 1189 | 1651 | 5119 | 5584 | 6049 | 6514 | 6970 |
| 165 | 20 | 6 (9) | 9660 | 0121 | 0588 | 1052 | 1516 | 1980 | 2445 | 2909 | 3371 | 3838 | 4303 | 4768 | 5233 | 5697 | 6162 | 6628 | 7093 |
| 162 | 21 | | 9774 | 0238 | 0702 | 1166 | 1630 | 2094 | 2559 | 3023 | 3488 | 3052 | 4417 | 4881 | 5346 | 5811 | 6276 | 6741 | 7206 |
| 170 | 22 | | 9888 | 0352 | 0816 | 1280 | 1744 | 2208 | 2673 | 3137 | 3601 | 4066 | 1530 | 4995 | 5460 | 5925 | 6389 | 6854 | 7319 |
| 178 | 23 | 9 | 0003 | 0467 | 0930 | 1394 | 1858 | 2323 | 2787 | 3251 | 3715 | 1180 | 4644 | 5109 | 5574 | 6038 | 6503 | 6968 | 7433 |
| 166 | 24 | | 0117 | 0581 | 1045 | 1502 | 1973 | 2437 | 2201 | 3365 | 3820 | 4294 | 1758 | 5223 | 5687 | 6152 | 6617 | 7081 | 7546 |
| 193 | 25 | 9 | 0232 | 0695 | 1159 | 1623 | 2087 | 2551 | 3015 | 3479 | 3943 | 4408 | 4872 | 5337 | 5801 | 6266 | 6730 | 7195 | 7660 |
| 201 | 26 | | 0346 | 0810 | 1274 | 1738 | 2201 | 2665 | 3129 | 3593 | 4058 | 4522 | 4986 | 5451 | 5915 | 6380 | 6844 | 7309 | 7774 |
| 209 | 27 | | 0461 | 0925 | 1388 | 1852 | 2316 | 2780 | 3244 | 3708 | 4172 | 4636 | 5100 | 5565 | 6029 | 6494 | 6958 | 7423 | 7888 |
| 217 | 28 | | 0576 | 1040 | 1503 | 1967 | 2430 | 2894 | 3358 | 3822 | 4286 | 4750 | 5215 | 5679 | 6143 | 6508 | 7072 | 7537 | 8001 |
| 224 | 29 | | 0691 | 1154 | 1618 | 2081 | 2515 | 3009 | 3473 | 3937 | 4401 | 4865 | 5329 | 5793 | 6257 | 6722 | 7186 | 7651 | 8115 |
| 232 | 30 | 9 | 0806 | 1269 | 1733 | 2196 | 2660 | 3124 | 3587 | 4051 | 4515 | 4979 | 5443 | 5907 | 6372 | 6836 | 7300 | 7765 | 8229 |
| 240 | 31 | | 0921 | 1384 | 1848 | 2311 | 2775 | 3238 | 3702 | 4166 | 4630 | 5094 | 5558 | 6022 | 6486 | 6950 | 7415 | 7879 | 8343 |
| 248 | 32 | | 1036 | 1409 | 1963 | 2426 | 2890 | 3353 | 3817 | 4281 | 4744 | 5208 | 5672 | 6136 | 6600 | 7065 | 7520 | 7993 | 8458 |
| 255 | 33 | | 1151 | 1614 | 2078 | 2541 | 3005 | 3468 | 3932 | 4395 | 4859 | 5323 | 5787 | 6251 | 6715 | 7170 | 7643 | 8108 | 8572 |
| 263 | 34 | | 1266 | 1730 | 2193 | 2656 | 3120 | 3583 | 4047 | 4510 | 4974 | 5138 | 5901 | 6363 | 6829 | 7294 | 7758 | 8222 | 8686 |
| 271 | 35 | 9 | 1382 | 1815 | 2308 | 2771 | 3235 | 3698 | 4162 | 4625 | 5089 | 5552 | 6016 | 6180 | 6944 | 7408 | 7872 | 8336 | 8801 |
| 278 | 36 | | 1497 | 1960 | 2423 | 2887 | 3350 | 3813 | 4277 | 4740 | 5204 | 5667 | 6131 | 6595 | 7059 | 7523 | 7987 | 8451 | 8915 |
| 286 | 37 | | 1613 | 2076 | 2539 | 3002 | 3165 | 3928 | 4392 | 4855 | 5319 | 5782 | 6216 | 6710 | 7174 | 7637 | 8101 | 8565 | 9030 |
| 294 | 38 | | 1728 | 2191 | 2654 | 3117 | 3580 | 4044 | 4507 | 4970 | 5434 | 5897 | 6361 | 6825 | 7288 | 7752 | 8216 | 8680 | 9144 |
| 302 | 39 | | 1844 | 2307 | 2770 | 3233 | 3696 | 4159 | 4622 | 5086 | 5549 | 6012 | 6476 | 6910 | 7403 | 7867 | 8331 | 8795 | 9259 |
| 309 | 40 | 9 | 1960 | 2422 | 2885 | 3318 | 3811 | 4274 | 4738 | 5201 | 5664 | 6128 | 6591 | 7055 | 7518 | 7982 | 8446 | 8910 | 9374 |
| 317 | 41 | | 2075 | 2538 | 3001 | 3464 | 3927 | 4390 | 4853 | 5316 | 5780 | 6243 | 6706 | 7170 | 7633 | 8097 | 8561 | 9025 | 9489 |
| 325 | 42 | | 2191 | 2654 | 3117 | 3580 | 4043 | 4506 | 4969 | 5432 | 5895 | 6358 | 6822 | 7285 | 7749 | 8212 | 8676 | 9140 | 9604 |
| 333 | 43 | | 2307 | 2770 | 3233 | 3695 | 4158 | 4622 | 5084 | 5547 | 6011 | 6474 | 6937 | 7400 | 7864 | 8327 | 8791 | 9255 | 9719 |
| 340 | 44 | | 2423 | 2886 | 3349 | 3811 | 1274 | 4737 | 5200 | 5663 | 6126 | 6589 | 7052 | 7516 | 7979 | 8443 | 8906 | 9370 | 9834 |
| 348 | 45 | 9 | 2539 | 3002 | 3465 | 3927 | 4390 | 4853 | 5316 | 5772 | 6242 | 6705 | 7168 | 7631 | 8095 | 8558 | 9922 | 0485 | 9949 |
| 356 | 46 | 9 (0) | 2656 | 3118 | 3581 | 4043 | 4506 | 4969 | 5131 | 5894 | 6357 | 6820 | 7281 | 7747 | 8210 | 8674 | 9137 | 2601 | 0064 |
| 364 | 47 | | 2772 | 3234 | 3697 | 4159 | 4622 | 5085 | 5547 | 6010 | 6473 | 6936 | 7399 | 7862 | 8326 | 8789 | 9252 | 9716 | 0179 |
| 371 | 48 | | 2888 | 3351 | 3813 | 4275 | 4738 | 5201 | 5663 | 6126 | 6589 | 7052 | 7515 | 7978 | 8141 | 8905 | 9368 | 9831 | 0295 |
| 379 | 49 | | 3005 | 3467 | 3929 | 4392 | 4854 | 5317 | 5779 | 6242 | 6705 | 7168 | 7631 | 8094 | 8557 | 9020 | 9484 | 9947 | 0410 |
| 387 | 60 | 9 (0) | 3121 | 3583 | 4046 | 4508 | 4970 | 5433 | 5896 | 6358 | 6821 | 7284 | 7747 | 8210 | 8673 | 9136 | 9599 | 0062 | 0526 |
| 394 | 51 | | 3238 | 3700 | 4162 | 4624 | 5087 | 5540 | 6012 | 6474 | 6937 | 7400 | 7863 | 8326 | 8789 | 9252 | 9715 | 0178 | 0641 |
| 402 | 52 | | 3354 | 3816 | 4279 | 4741 | 5203 | 5666 | 6128 | 6591 | 7053 | 7516 | 7979 | 8442 | 8905 | 9368 | 9831 | 0294 | 0757 |
| 410 | 53 | | 3471 | 3933 | 4325 | 4857 | 5320 | 5782 | 6244 | 6707 | 7170 | 7632 | 8095 | 8558 | 9021 | 9484 | 9947 | 0410 | 0872 |
| 418 | 54 | | 3588 | 4050 | 4512 | 4974 | 5436 | 5899 | 6361 | 6823 | 7286 | 7748 | 8211 | 8674 | 9137 | 9606 | 0063 | 0526 | 0989 |
| 425 | 65 | 9 (0) | 3705 | 4167 | 4629 | 5091 | 5553 | 6015 | 6477 | 6940 | 7402 | 7865 | 8327 | 8790 | 9253 | 9716 | 0179 | 0642 | 1105 |
| 433 | 58 | | 3822 | 4284 | 4745 | 5208 | 5570 | 6132 | 6594 | 7056 | 7519 | 7981 | 8444 | 8906 | 9369 | 9832 | 0295 | 0758 | 1221 |
| 441 | 57 | | 3939 | 4401 | 4862 | 5324 | 5786 | 6249 | 6711 | 7173 | 7635 | 8098 | 8560 | 9023 | 9485 | 9948 | 0411 | 0874 | 1337 |
| 449 | 58 | | 4056 | 4518 | 4979 | 5441 | 5903 | 6365 | 6827 | 7290 | 7752 | 8214 | 8677 | 9139 | 9602 | 0064 | 0527 | 0090 | 1453 |
| 455 | 59 | | 4173 | 4635 | 5037 | 5558 | 6020 | 6182 | 6944 | 7406 | 7869 | 8331 | 8793 | 9256 | 9718 | 0181 | 0643 | 1108 | 1569 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos | 23° | Núm. |
|---|---|---|
| 0 | 0′ | 7 9495 |
| 2 | 1 | 9609 |
| 4 | 2 | 9723 |
| 6 | 3 | 9836 |
| 8 | 4 | 9950 |
| 10 | 5 | 8 0064 |
| 12 | 6 | 0179 |
| 13 | 7 | 0293 |
| 15 | 6 | 0407 |
| 17 | 9 | 0521 |
| 19 | 10 | 6 0636 |
| 21 | 11 | 0750 |
| 23 | 12 | 0865 |
| 25 | 13 | 0979 |
| 27 | 14 | 1094 |
| 29 | 15 | 6 1209 |
| 31 | 16 | 1324 |
| 33 | 17 | 1439 |
| 35 | 16 | 1554 |
| 37 | 19 | 1669 |
| 39 | 20 | 6 1784 |
| 41 | 21 | 1890 |
| 42 | 22 | 2014 |
| 44 | 23 | 2130 |
| 46 | 24 | 2245 |
| 46 | 25 | 8 2361 |
| 50 | 26 | 2477 |
| 52 | 27 | 2592 |
| 54 | 28 | 2708 |
| 56 | 29 | 2824 |
| 68 | 30 | 8 2940 |
| 60 | 31 | 3056 |
| 62 | 32 | 3172 |
| 64 | 33 | 3288 |
| 66 | 34 | 3405 |
| 68 | 35 | 8 3521 |
| 70 | 36 | 3637 |
| 71 | 37 | 3754 |
| 73 | 38 | 3870 |
| 75 | 39 | 3987 |
| 77 | 40 | 8 4104 |
| 79 | 41 | 4221 |
| 81 | 42 | 4337 |
| 83 | 43 | 4454 |
| 85 | 44 | 4571 |
| 87 | 45 | 6 4689 |
| 89 | 46 | 4806 |
| 91 | 47 | 4923 |
| 93 | 48 | 5010 |
| 95 | 49 | 5158 |
| 97 | 50 | 8 5275 |
| 99 | 51 | 5393 |
| 100 | 52 | 5510 |
| 102 | 53 | 5628 |
| 104 | 54 | 5746 |
| 106 | 55 | 8 5864 |
| 108 | 56 | 5982 |
| 110 | 57 | 6100 |
| 112 | 58 | 6218 |
| 114 | 59 | 6336 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 24° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 24° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 (9) 6451 | 6915 | 7375 | 7836 | 8296 | 8757 | 9218 | 9678 | 0139 | 0600 | 1061 | 1522 | 1983 | 2445 | 2906 | 3367 | 3829 | 116 | 0' | 2 0391 |
| 8 | 1 | 6573 | 7033 | 7493 | 7954 | 8414 | 8875 | 9336 | 9796 | 0257 | 0718 | 1179 | 1640 | 2101 | 2562 | 3023 | 3485 | 3946 | 114 | 1 | 0277 |
| 15 | 2 | 6691 | 7152 | 7612 | 8072 | 8533 | 8993 | 9454 | 9914 | 0375 | 0836 | 1297 | 1758 | 2219 | 2680 | 3141 | 3602 | 4064 | 112 | 2 | 0164 |
| 23 | 3 | 6810 | 7270 | 7730 | 8190 | 8651 | 9111 | 9572 | 0032 | 0493 | 0954 | 1415 | 1875 | 2336 | 2798 | 3259 | 3720 | 4181 | 110 | 3 | 0050 |
| 31 | 4 | 6928 | 7388 | 7849 | 8309 | 8769 | 9229 | 9690 | 0151 | 0611 | 1072 | 1533 | 1993 | 2454 | 2915 | 3376 | 3838 | 4299 | 108 | 4 | 1 9936 |
| 38 | 5 | 8 (9) 7047 | 7507 | 7967 | 8427 | 8888 | 9348 | 9808 | 0269 | 0729 | 1190 | 1651 | 2111 | 2572 | 3033 | 3494 | 3955 | 4417 | 106 | 5 | 1 9821 |
| 46 | 6 | 7166 | 7626 | 8086 | 8546 | 9006 | 9466 | 9927 | 0387 | 0848 | 1308 | 1769 | 2230 | 2690 | 3151 | 3612 | 4073 | 4534 | 104 | 6 | 9707 |
| 54 | 7 | 7285 | 7745 | 8204 | 8664 | 9125 | 9585 | 0045 | 0505 | 0966 | 1426 | 1887 | 2340 | 2808 | 3269 | 3730 | 4191 | 4652 | 102 | 7 | 9593 |
| 61 | 8 | 7404 | 7863 | 8323 | 8783 | 9243 | 9703 | 0164 | 0624 | 1084 | 1545 | 2005 | 2466 | 2927 | 3387 | 3848 | 4309 | 4770 | 100 | 8 | 9479 |
| 69 | 9 | 7523 | 7982 | 8442 | 8902 | 9362 | 9822 | 0282 | 0743 | 1203 | 1663 | 2124 | 2584 | 3045 | 3506 | 3966 | 4427 | 4888 | 29 | 9 | 9364 |
| 77 | 10 | 8 (9) 7642 | 8101 | 8561 | 9021 | 9481 | 9941 | 0401 | 0861 | 1321 | 1782 | 2242 | 2703 | 3163 | 3621 | 4085 | 4545 | 5006 | 97 | 10 | 1 9250 |
| 84 | 11 | 7761 | 8220 | 8680 | 9140 | 9600 | 0060 | 0520 | 0980 | 1440 | 1900 | 2361 | 2821 | 3282 | 3742 | 4203 | 4664 | 5124 | 95 | 11 | 9135 |
| 92 | 12 | 7880 | 8339 | 8799 | 9259 | 9719 | 0179 | 0639 | 1099 | 1559 | 2019 | 2479 | 2910 | 3400 | 3861 | 4321 | 4782 | 5243 | 93 | 12 | 9021 |
| 100 | 13 | 7999 | 8459 | 8918 | 9378 | 9838 | 0298 | 0758 | 1218 | 1678 | 2138 | 2598 | 3058 | 3519 | 3979 | 4440 | 4900 | 5361 | 91 | 13 | 8906 |
| 107 | 14 | 8118 | 8578 | 9038 | 9497 | 9957 | 0417 | 0877 | 1337 | 1797 | 2257 | 2717 | 3177 | 3637 | 4098 | 4558 | 5012 | 5479 | 89 | 14 | 8791 |
| 115 | 15 | 8 (9) 8238 | 8697 | 9157 | 9616 | 0076 | 0536 | 0996 | 1456 | 1916 | 2375 | 2836 | 3296 | 3756 | 4216 | 4677 | 5137 | 5598 | 87 | 15 | 1 8676 |
| 123 | 16 | 8357 | 8817 | 9276 | 9736 | 0195 | 0655 | 1115 | 1575 | 2035 | 2494 | 2955 | 3415 | 3875 | 4335 | 4795 | 5256 | 5716 | 85 | 16 | 8561 |
| 130 | 17 | 8477 | 8936 | 9396 | 9855 | 0315 | 0774 | 1234 | 1694 | 2154 | 2613 | 3074 | 3534 | 3994 | 4454 | 4914 | 5375 | 5835 | 83 | 17 | 8446 |
| 138 | 18 | 8597 | 9056 | 9515 | 9975 | 0434 | 0894 | 1353 | 1813 | 2273 | 2733 | 3193 | 3653 | 4113 | 4573 | 5033 | 5493 | 5954 | 81 | 18 | 8331 |
| 146 | 19 | 8716 | 9176 | 9635 | 0094 | 0554 | 1013 | 1473 | 1932 | 2392 | 2852 | 3312 | 3772 | 4232 | 4692 | 5152 | 5612 | 6072 | 79 | 12 | 8216 |
| 153 | 20 | 8 (9) 8836 | 9295 | 9755 | 0214 | 0673 | 1133 | 1592 | 2052 | 2511 | 2971 | 3431 | 3891 | 4351 | 4811 | 5271 | 5731 | 6191 | 77 | 20 | 1 8101 |
| 161 | 21 | 8956 | 9415 | 9874 | 0334 | 0793 | 1252 | 1712 | 2171 | 2631 | 3090 | 3550 | 4010 | 4470 | 4930 | 5390 | 5850 | 6310 | 75 | 21 | 7986 |
| 168 | 22 | 9076 | 9535 | 9994 | 0453 | 0913 | 1372 | 1831 | 2291 | 2750 | 3210 | 3670 | 4129 | 4589 | 5019 | 5509 | 5969 | 6429 | 73 | 22 | 7870 |
| 176 | 23 | 9196 | 9655 | 0114 | 0573 | 1032 | 1492 | 1951 | 2410 | 2870 | 3329 | 3789 | 4249 | 4708 | 5168 | 5628 | 6088 | 6548 | 71 | 23 | 7755 |
| 184 | 24 | 9316 | 9775 | 0234 | 0693 | 1152 | 1611 | 2071 | 2530 | 2989 | 3449 | 3908 | 4368 | 4828 | 5288 | 5747 | 6207 | 6667 | 70 | 24 | 7639 |
| 191 | 25 | 8 (9) 9436 | 9895 | 0354 | 0813 | 1272 | 1731 | 2191 | 2650 | 3109 | 3569 | 4028 | 4488 | 4947 | 5407 | 5867 | 6327 | 6787 | 68 | 25 | 1 7523 |
| 199 | 26 | 9557 | 0016 | 0474 | 0933 | 1392 | 1851 | 2310 | 2770 | 3229 | 3688 | 4148 | 4607 | 5067 | 5527 | 5986 | 6446 | 6906 | 66 | 26 | 7408 |
| 207 | 27 | 9677 | 0136 | 0595 | 1053 | 1512 | 1971 | 2430 | 2890 | 3349 | 3808 | 4268 | 4727 | 5186 | 5646 | 6106 | 6566 | 7025 | 64 | 27 | 7292 |
| 214 | 28 | 9798 | 0256 | 0715 | 1174 | 1633 | 2091 | 2550 | 3010 | 3469 | 3928 | 4387 | 4847 | 5306 | 5766 | 6225 | 6685 | 7145 | 62 | 28 | 7176 |
| 222 | 29 | 9918 | 0377 | 0835 | 1294 | 1753 | 2212 | 2671 | 3130 | 3589 | 4048 | 4507 | 4967 | 5426 | 5885 | 6345 | 6805 | 7264 | 60 | 29 | 7060 |
| 230 | 30 | 9 0039 | 0497 | 0956 | 1414 | 1873 | 2332 | 2791 | 3250 | 3709 | 4168 | 4627 | 5087 | 5546 | 6005 | 6465 | 6924 | 7384 | 58 | 30 | 1 6944 |
| 237 | 31 | 0159 | 0618 | 1076 | 1535 | 1994 | 2452 | 2911 | 3370 | 3829 | 4288 | 4747 | 5207 | 5666 | 6125 | 6585 | 7044 | 7504 | 56 | 31 | 6828 |
| 245 | 32 | 0280 | 0738 | 1197 | 1655 | 2114 | 2573 | 3032 | 3490 | 3949 | 4408 | 4867 | 5327 | 5786 | 6245 | 6705 | 7164 | 7623 | 54 | 32 | 6712 |
| 253 | 33 | 0401 | 0859 | 1318 | 1776 | 2235 | 2693 | 3152 | 3611 | 4070 | 4529 | 4988 | 5447 | 5906 | 6365 | 6824 | 7284 | 7743 | 52 | 33 | 6595 |
| 260 | 34 | 0522 | 0980 | 1438 | 1897 | 2355 | 2814 | 3273 | 3731 | 4190 | 4649 | 5108 | 5567 | 6026 | 6485 | 6944 | 7404 | 7863 | 50 | 31 | 6479 |
| 268 | 35 | 9 0643 | 1101 | 1559 | 2018 | 2476 | 2935 | 3393 | 3851 | 4311 | 4769 | 5228 | 5687 | 6146 | 6605 | 7065 | 7524 | 7983 | 48 | 35 | 1 6363 |
| 276 | 36 | 0764 | 1222 | 1680 | 2139 | 2597 | 3055 | 3514 | 3972 | 4431 | 4890 | 5349 | 5808 | 6267 | 6726 | 7185 | 7644 | 8103 | 46 | 36 | 6246 |
| 283 | 37 | 0885 | 1343 | 1801 | 2260 | 2718 | 3176 | 3635 | 4093 | 4552 | 5011 | 5469 | 5928 | 6387 | 6846 | 7305 | 7764 | 8223 | 44 | 37 | 6130 |
| 291 | 38 | 1006 | 1464 | 1922 | 2381 | 2839 | 3297 | 3755 | 4214 | 4673 | 5131 | 5590 | 6049 | 6507 | 6966 | 7425 | 7885 | 8344 | 42 | 38 | 6013 |
| 299 | 39 | 1127 | 1585 | 2043 | 2502 | 2960 | 3418 | 3876 | 4335 | 4793 | 5252 | 5710 | 6169 | 6628 | 7087 | 7546 | 8005 | 8464 | 41 | 39 | 5896 |
| 306 | 40 | 9 1249 | 1707 | 2165 | 2623 | 3081 | 3539 | 3997 | 4456 | 4914 | 5373 | 5831 | 6290 | 6749 | 7208 | 7666 | 8125 | 8584 | 39 | 40 | 1 5779 |
| 314 | 41 | 1370 | 1828 | 2286 | 2744 | 3202 | 3660 | 4118 | 4577 | 5035 | 5494 | 5952 | 6411 | 6869 | 7328 | 7787 | 8246 | 8705 | 37 | 41 | 5663 |
| 322 | 42 | 1492 | 1950 | 2407 | 2865 | 3323 | 3781 | 4240 | 4698 | 5156 | 5614 | 6073 | 6532 | 6990 | 7449 | 7908 | 8366 | 8825 | 35 | 42 | 5546 |
| 329 | 43 | 1613 | 2071 | 2529 | 2987 | 3445 | 3903 | 4361 | 4819 | 5277 | 5736 | 6194 | 6652 | 7111 | 7570 | 8028 | 8487 | 8946 | 33 | 43 | 5429 |
| 337 | 44 | 1735 | 2193 | 2650 | 3108 | 3566 | 4024 | 4482 | 4940 | 5398 | 5857 | 6315 | 6773 | 7232 | 7690 | 8149 | 8608 | 9067 | 31 | 44 | 5311 |
| 345 | 45 | 9 1857 | 2314 | 2772 | 3230 | 3688 | 4145 | 4603 | 5061 | 5520 | 5978 | 6436 | 6894 | 7353 | 7811 | 8270 | 8729 | 9187 | 29 | 45 | 1 5194 |
| 352 | 46 | 1979 | 2436 | 2894 | 3351 | 3809 | 4267 | 4725 | 5183 | 5641 | 6099 | 6557 | 7015 | 7474 | 7932 | 8391 | 8850 | 9308 | 27 | 46 | 5077 |
| 360 | 47 | 2100 | 2558 | 3015 | 3473 | 3931 | 4389 | 4846 | 5304 | 5762 | 6220 | 6679 | 7137 | 7595 | 8054 | 8512 | 8971 | 9429 | 25 | 47 | 4960 |
| 368 | 48 | 2222 | 2680 | 3137 | 3595 | 4053 | 4510 | 4968 | 5426 | 5884 | 6342 | 6800 | 7258 | 7716 | 8175 | 8633 | 9092 | 9550 | 23 | 48 | 4842 |
| 375 | 49 | 2345 | 2802 | 3259 | 3717 | 4174 | 4632 | 5090 | 5548 | 6005 | 6463 | 6921 | 7380 | 7838 | 8296 | 8754 | 9213 | 9671 | 21 | 49 | 4725 |
| 383 | 50 | 2 2467 | 2924 | 3381 | 3839 | 4296 | 4754 | 5212 | 5669 | 6127 | 6585 | 7043 | 7501 | 7959 | 8417 | 8876 | 9334 | 9793 | 19 | 50 | 1 4607 |
| 391 | 51 | 2589 | 3046 | 3503 | 3961 | 4418 | 4876 | 5333 | 5791 | 6249 | 6707 | 7164 | 7622 | 8081 | 8539 | 8997 | 9455 | 9914 | 17 | 51 | 4490 |
| 398 | 52 | 9 (0) 2711 | 3168 | 3626 | 4083 | 4540 | 4998 | 5455 | 5913 | 6371 | 6828 | 7286 | 7744 | 8202 | 8660 | 9118 | 9577 | 0035 | 15 | 52 | 4372 |
| 406 | 53 | 2834 | 3291 | 3748 | 4205 | 4662 | 5120 | 5577 | 6035 | 6492 | 6950 | 7408 | 7866 | 8324 | 8782 | 9240 | 9698 | 0156 | 13 | 53 | 4254 |
| 414 | 54 | 2956 | 3413 | 3870 | 4327 | 4785 | 5242 | 5699 | 6157 | 6614 | 7073 | 7530 | 7988 | 8445 | 8903 | 9361 | 9820 | 0278 | 12 | 54 | 4136 |
| 421 | 55 | 9 (0) 3078 | 3535 | 3992 | 4450 | 4907 | 5364 | 5821 | 6279 | 6736 | 7194 | 7652 | 8109 | 8567 | 9025 | 9483 | 9941 | 0399 | 10 | 55 | 1 4018 |
| 429 | 56 | 3201 | 3658 | 4115 | 4572 | 5029 | 5486 | 5944 | 6401 | 6858 | 7316 | 7774 | 8231 | 8689 | 9147 | 9605 | 0063 | 0521 | 8 | 56 | 3900 |
| 437 | 57 | 3324 | 3781 | 4238 | 4695 | 5152 | 5609 | 6066 | 6523 | 6981 | 7438 | 7896 | 8354 | 8811 | 9269 | 9727 | 0185 | 0642 | 6 | 57 | 3782 |
| 444 | 58 | 3446 | 3903 | 4360 | 4817 | 5274 | 5731 | 6188 | 6646 | 7103 | 7560 | 8018 | 8475 | 8933 | 9391 | 9849 | 0306 | 0764 | 4 | 58 | 3664 |
| 452 | 59 | 3569 | 4026 | 4483 | 4940 | 5397 | 5854 | 6311 | 6768 | 7225 | 7683 | 8140 | 8597 | 9055 | 9513 | 9970 | 0428 | 0886 | 2 | 59 | 3545 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 24° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 24° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 9 (0) 4296 | 4752 | 5213 | 5675 | 6137 | 6599 | 7061 | 7623 | 7985 | 6447 | 8916 | 9372 | 9835 | 6297 | 0760 | 1223 | 1685 | 0 | 0' | 6 6455 |
| 8 | 1 | 4408 | 4869 | 5331 | 5793 | 6254 | 6716 | 7170 | 7640 | 8102 | 8564 | 9027 | 9489 | 9951 | 0414 | 6876 | 1339 | 1802 | 2 | 1 | 6573 |
| 16 | 2 | 4526 | 4987 | 5448 | 5910 | 6372 | 6833 | 7295 | 7757 | 8219 | 8681 | 9144 | 9606 | 0068 | 0531 | 0993 | 1456 | 1918 | 4 | 2 | 6691 |
| 23 | 3 | 4643 | 5154 | 6565 | 6627 | 6489 | 6951 | 7412 | 7074 | 8336 | 8790 | 9260 | 9723 | 0185 | 0647 | 1110 | 1572 | 2035 | 6 | 3 | 6810 |
| 31 | 4 | 4760 | 5221 | 5683 | 6144 | 6666 | 7060 | 7530 | 7991 | 8453 | 8916 | 9377 | 9840 | 6309 | 0764 | 1226 | 1689 | 2151 | 8 | 4 | 6920 |
| 38 | 5 | 9 (0) 4878 | 6339 | 5800 | 6262 | 6723 | 7185 | 7647 | 8109 | 8570 | 9032 | 9494 | 9957 | 0119 | 0881 | 1343 | 1806 | 2268 | 10 | 5 | 8 7047 |
| 46 | 6 | 4905 | 5457 | 5918 | 6379 | 6041 | 7303 | 7764 | 8226 | 8688 | 9150 | 9612 | 0074 | 0536 | 0998 | 1460 | 1922 | 2385 | 12 | 6 | 7166 |
| 54 | 7 | 5113 | 6574 | 6036 | 6497 | 6959 | 7420 | 7882 | 8343 | 8805 | 9267 | 9729 | 0191 | 0653 | 1115 | 1577 | 2639 | 2502 | 14 | 7 | 7285 |
| 61 | 8 | 6231 | 5692 | 6163 | 6615 | 7076 | 7538 | 7999 | 0461 | 0922 | 9384 | 9846 | 0308 | 0776 | 1232 | 1694 | 2156 | 2619 | 16 | 8 | 7404 |
| 69 | 9 | 5349 | 5810 | 6271 | 6733 | 7194 | 7655 | 8117 | 8578 | 9040 | 9502 | 9963 | 0425 | 6887 | 1349 | 1811 | 2273 | 2736 | 18 | 9 | 7523 |
| 77 | 10 | 9 (0) 5467 | 5928 | 6389 | 6850 | 7312 | 7773 | 0234 | 6696 | 9157 | 9619 | 0081 | 0543 | 1004 | 1466 | 1928 | 2390 | 2853 | 20 | 10 | 8 7642 |
| 84 | 11 | 6585 | 6046 | 6507 | 6968 | 7430 | 7091 | 8352 | 8814 | 9275 | 9737 | 0198 | 0660 | 1122 | 1584 | 2046 | 2508 | 2970 | 22 | 11 | 7761 |
| 92 | 12 | 5703 | 6164 | 6625 | 7086 | 7547 | 8009 | 8470 | 8931 | 9393 | 9854 | 0316 | 0777 | 1239 | 1701 | 2163 | 2625 | 3087 | 24 | 12 | 7880 |
| 100 | 13 | 5822 | 6283 | 6743 | 7204 | 7665 | 8127 | 8588 | 9049 | 9511 | 9972 | 0433 | 0895 | 1357 | 1019 | 2280 | 9742 | 3204 | 26 | 13 | 7999 |
| 107 | 14 | 5940 | 6401 | 6862 | 7323 | 7704 | 8245 | 8706 | 9167 | 9628 | 0090 | 0561 | 1013 | 1474 | 1936 | 2398 | 2860 | 3322 | 28 | 14 | 8119 |
| 115 | 15 | 9 (0) 6058 | 6519 | 6980 | 7441 | 7902 | 8363 | 8024 | 9285 | 9746 | 0208 | 0669 | 1131 | 1592 | 2054 | 2515 | 2977 | 3439 | 30 | 15 | 8 0238 |
| 123 | 16 | 6177 | 6638 | 7098 | 7659 | 8020 | 8181 | 8942 | 9403 | 9864 | 6326 | 0787 | 1248 | 1710 | 2171 | 2633 | 3095 | 3557 | 32 | 16 | 8357 |
| 130 | 17 | 6295 | 6756 | 7217 | 7678 | 8138 | 8599 | 9060 | 9521 | 9982 | 6444 | 0905 | 1366 | 1828 | 2289 | 2751 | 3212 | 3674 | 34 | 17 | 6477 |
| 138 | 18 | 6414 | 6875 | 7335 | 7796 | 8257 | 8718 | 9179 | 9639 | 0101 | 0562 | 1023 | 1484 | 1946 | 2107 | 2869 | 3330 | 3792 | 36 | 18 | 8597 |
| 146 | 19 | 6533 | 6993 | 7454 | 7914 | 8375 | 8836 | 9297 | 9758 | 6219 | 0680 | 1141 | 1602 | 2064 | 2525 | 2986 | 3448 | 3910 | 38 | 19 | 8716 |
| 153 | 20 | 9 (0) 6652 | 7112 | 7573 | 8033 | 8194 | 8954 | 9415 | 9876 | 6337 | 0798 | 1259 | 1720 | 2182 | 2643 | 3104 | 3566 | 4027 | 40 | 20 | 8 8836 |
| 161 | 21 | 6770 | 7231 | 7691 | 8152 | 8612 | 9073 | 9634 | 9995 | 5456 | 6916 | 1377 | 1839 | 2300 | 2761 | 3222 | 3684 | 4145 | 42 | 21 | 8956 |
| 168 | 22 | 6889 | 7360 | 7810 | 8271 | 8731 | 9192 | 9652 | 0113 | 0574 | 1035 | 1496 | 1957 | 2418 | 2079 | 3341 | 3802 | 4263 | 44 | 22 | 9076 |
| 176 | 23 | 7008 | 7469 | 7929 | 8389 | 8850 | 9310 | 9771 | 0232 | 0692 | 1153 | 1614 | 2075 | 2536 | 2997 | 3459 | 3920 | 4381 | 46 | 23 | 0196 |
| 184 | 24 | 7128 | 7508 | 8048 | 8508 | 8969 | 9429 | 9090 | 0350 | 6011 | 1272 | 1733 | 2194 | 2655 | 3116 | 3577 | 4038 | 4499 | 48 | 24 | 0316 |
| 192 | 25 | 9 (0) 7247 | 7707 | 8167 | 8627 | 9088 | 9540 | 0009 | 0469 | 0930 | 1390 | 1051 | 2312 | 9773 | 3234 | 3695 | 4156 | 4618 | 50 | 25 | 8 9437 |
| 200 | 26 | 7366 | 7826 | 8286 | 8746 | 9207 | 9667 | 0127 | 0588 | 1049 | 1509 | 1970 | 2431 | 2892 | 3353 | 3814 | 4275 | 4736 | 52 | 26 | 0557 |
| 207 | 27 | 7485 | 7945 | 8405 | 8865 | 9326 | 9786 | 0246 | 0707 | 1167 | 1628 | 2089 | 2549 | 3010 | 3471 | 3932 | 4393 | 4854 | 54 | 27 | 9677 |
| 215 | 28 | 7605 | 8065 | 8525 | 8985 | 9445 | 9905 | 0365 | 0826 | 1286 | 1747 | 2207 | 2668 | 3129 | 3590 | 4651 | 4512 | 4973 | 56 | 28 | 9798 |
| 223 | 29 | 7724 | 8184 | 8644 | 9104 | 9564 | 0024 | 0485 | 0945 | 1405 | 1866 | 2326 | 2787 | 3248 | 3708 | 4169 | 4630 | 5091 | 58 | 29 | 9918 |
| 230 | 30 | 9 (0) 7814 | 8354 | 8763 | 9223 | 9683 | 0144 | 0604 | 1064 | 1524 | 1985 | 2445 | 2906 | 3367 | 3827 | 4288 | 4749 | 5210 | 60 | 30 | 9 0039 |
| 238 | 31 | 7963 | 8423 | 8883 | 9343 | 9803 | 0263 | 0723 | 1183 | 1644 | 2104 | 2564 | 3025 | 3485 | 3946 | 4407 | 4868 | 5328 | 62 | 31 | 5159 |
| 246 | 32 | 8083 | 8543 | 9003 | 9462 | 9922 | 5382 | 0842 | 1303 | 1763 | 2223 | 2683 | 3144 | 3604 | 4065 | 4526 | 4986 | 5417 | 64 | 32 | 0285 |
| 253 | 33 | 8203 | 8662 | 9122 | 9582 | 0542 | 0502 | 0962 | 1422 | 1882 | 2342 | 2803 | 3263 | 3723 | 4184 | 4645 | 5105 | 5566 | 66 | 33 | 0401 |
| 261 | 34 | 8323 | 8782 | 9242 | 9702 | 0161 | 0621 | 1081 | 1541 | 2001 | 2162 | 2922 | 3382 | 3843 | 4303 | 4764 | 5224 | 5685 | 68 | 34 | 0522 |
| 269 | 35 | 9 (0) 8443 | 8902 | 9362 | 9821 | 0281 | 0741 | 1201 | 1661 | 2121 | 9581 | 3041 | 3501 | 3962 | 4422 | 4883 | 5343 | 5804 | 70 | 35 | 9 0643 |
| 276 | 36 | 8563 | 9022 | 9482 | 9941 | 0401 | 0061 | 1321 | 1780 | 2240 | 2700 | 3161 | 3621 | 4081 | 4541 | 5002 | 5462 | 5923 | 72 | 36 | 0761 |
| 284 | 37 | 8683 | 9142 | 9602 | 0061 | 0521 | 0980 | 1440 | 1900 | 2360 | 2820 | 3200 | 3740 | 4200 | 4661 | 5121 | 5582 | 6042 | 74 | 37 | 0885 |
| 292 | 38 | 8803 | 9262 | 9722 | 0181 | 0641 | 1100 | 1560 | 2026 | 2480 | 2940 | 3400 | 3060 | 4320 | 4780 | 6940 | 5781 | 6161 | 76 | 38 | 1006 |
| 299 | 39 | 8923 | 9382 | 9842 | 9301 | 0761 | 1220 | 1680 | 2140 | 2599 | 3059 | 3519 | 3979 | 4139 | 4900 | 5360 | 5820 | 6281 | 78 | 39 | 1128 |
| 307 | 40 | 9 (0) 9043 | 9503 | 9962 | 0421 | 0881 | 1340 | 1800 | 2260 | 2719 | 3179 | 3639 | 4099 | 4559 | 5019 | 5479 | 5940 | 6400 | 80 | 40 | 9 1249 |
| 315 | 41 | 9164 | 9623 | 0082 | 0511 | 1001 | 1460 | 1920 | 2380 | 2039 | 3299 | 3759 | 4219 | 4679 | 5139 | 5599 | 6659 | 6519 | 82 | 41 | 1370 |
| 322 | 42 | 9284 | 9743 | 0203 | 0662 | 1121 | 1580 | 2040 | 2500 | 2959 | 3419 | 3879 | 4338 | 4798 | 5258 | 5718 | 6178 | 6639 | 84 | 42 | 1492 |
| 330 | 43 | 9405 | 9864 | 0323 | 0782 | 1241 | 1701 | 2160 | 2620 | 3079 | 3339 | 3999 | 4458 | 4918 | 5370 | 5838 | 6298 | 6758 | 86 | 43 | 1613 |
| 338 | 44 | 9526 | 9984 | 0443 | 0903 | 1362 | 1821 | 2280 | 2740 | 3199 | 3659 | 1119 | 4578 | 5038 | 5496 | 5958 | 6418 | 6078 | 88 | 44 | 1735 |
| 345 | 45 | 9 (0) 9646 | 0105 | 0564 | 1023 | 1482 | 1941 | 2401 | 2060 | 3319 | 3779 | 4239 | 4698 | 5158 | 5610 | 6070 | 6538 | 6998 | 90 | 45 | 9 1857 |
| 353 | 46 | 2767 | 0226 | 0605 | 1144 | 1603 | 2862 | 2521 | 2980 | 3140 | 3899 | 4359 | 4818 | 5278 | 6738 | 6190 | 6657 | 7117 | 92 | 46 | 1979 |
| 361 | 47 | 0880 | 0347 | 0006 | 1264 | 1723 | 2182 | 9642 | 3101 | 3560 | 4019 | 4479 | 4939 | 5390 | 5858 | 6318 | 6777 | 7237 | 94 | 47 | 2101 |
| 368 | 48 | 0 0009 | 0460 | 0926 | 1385 | 1044 | 2303 | 2762 | 3221 | 3681 | 4140 | 4590 | 5059 | 5516 | 6978 | 6438 | 6897 | 7357 | 96 | 48 | 2223 |
| 376 | 49 | 0130 | 0588 | 1047 | 1506 | 1965 | 2424 | 2883 | 3342 | 3801 | 4260 | 4790 | 5172 | 5639 | 6098 | 6558 | 7010 | 7477 | 98 | 49 | 2345 |
| 384 | 50 | 0 6251 | 0709 | 1168 | 1627 | 2086 | 2545 | 3004 | 3463 | 3922 | 4381 | 4846 | 5299 | 5759 | 6218 | 6678 | 7138 | 7597 | 100 | 50 | 9 2467 |
| 391 | 51 | 0372 | 0031 | 1289 | 1740 | 2207 | 2665 | 3124 | 3683 | 4042 | 4501 | 4961 | 5420 | 5879 | 6332 | 6798 | 7258 | 7710 | 102 | 51 | 2569 |
| 399 | 52 | 0493 | 6952 | 1410 | 1069 | 2328 | 2786 | 3245 | 3764 | 4163 | 4622 | 5001 | 5640 | 6000 | 6459 | 6919 | 7370 | 7038 | 104 | 52 | 2711 |
| 407 | 53 | 6615 | 1073 | 1532 | 1990 | 2149 | 2907 | 3366 | 3825 | 4284 | 4743 | 5202 | 5661 | 6120 | 6500 | 7039 | 7490 | 7958 | 106 | 53 | 2034 |
| 414 | 54 | 0736 | 1194 | 1653 | 2111 | 2570 | 3028 | 3187 | 3946 | 4405 | 4064 | 5323 | 5782 | 6211 | 6766 | 7160 | 7619 | 8078 | 108 | 54 | 2956 |
| 422 | 55 | 0 0057 | 1316 | 1774 | 2232 | 2621 | 3150 | 3608 | 4067 | 4526 | 4985 | 5444 | 5903 | 6362 | 6821 | 7200 | 7740 | 8199 | 110 | 55 | 9 3070 |
| 430 | 56 | 0272 | 1437 | 1895 | 2354 | 2019 | 3271 | 3729 | 4188 | 4647 | 5106 | 5565 | 6021 | 6183 | 6942 | 7401 | 7866 | 8319 | 112 | 56 | 3201 |
| 437 | 57 | 1151 | 1569 | 2017 | 2475 | 2934 | 3392 | 3851 | 4309 | 4760 | 5227 | 5686 | 6144 | 6603 | 7063 | 7522 | 7981 | 8440 | 114 | 57 | 3324 |
| 446 | 58 | 1222 | 1680 | 2139 | 2597 | 3055 | 3513 | 3972 | 4431 | 4889 | 5348 | 5807 | 6265 | 6724 | 7183 | 7642 | 8102 | 8561 | 116 | 58 | 3440 |
| 453 | 59 | 1344 | 1002 | 2260 | 2718 | 3177 | 3635 | 4593 | 4552 | 5010 | 5460 | 5928 | 6387 | 6846 | 7304 | 7763 | 8222 | 8682 | 118 | 59 | 3569 |

**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 25° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 25° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 9 (0) 3692 | 4149 | 4606 | 5062 | 5519 | 5276 | 6433 | 6898 | 7348 | 7805 | 8262 | 8720 | 9177 | 9635 | 0092 | 0550 | 1008 | 120 | 0' | 1 3427 |
| 8 | 1 | 3815 | 4272 | 4728 | 6185 | 5642 | 6099 | 6556 | 7813 | 7470 | 7927 | 8385 | 8842 | 9299 | 9757 | 0215 | 0672 | 1130 | 118 | 1 | 3302 |
| 15 | 2 | 3938 | 4395 | 4851 | 5308 | 5765 | 6222 | 6679 | 7136 | 7593 | 8050 | 8587 | 8961 | 9422 | 9879 | 0337 | 0794 | 1252 | 116 | 2 | 3190 |
| 23 | 3 | 4861 | 4518 | 4974 | 5431 | 5888 | 6344 | 6881 | 7258 | 7715 | 8172 | 8630 | 9087 | 9544 | 0002 | 0459 | 0217 | 1374 | 114 | 3 | 3072 |
| 30 | 4 | 4184 | 4641 | 5097 | 5551 | 6011 | 6467 | 6924 | 7381 | 7838 | 8295 | 8752 | 9209 | 9667 | 0124 | 0581 | 1032 | 1496 | 112 | 4 | 2953 |
| 38 | 5 | 9 (0) 4308 | 4764 | 5221 | 5677 | 6134 | 6590 | 7047 | 7504 | 7961 | 8418 | 8875 | 9332 | 9789 | 0246 | 0704 | 1161 | 1619 | 110 | 5 | 1 2834 |
| 46 | 6 | 4431 | 4887 | 5344 | 5800 | 6257 | 6713 | 7170 | 7827 | 8084 | 8541 | 8998 | 9455 | 9912 | 0369 | 0826 | 1284 | 1741 | 108 | 6 | 2715 |
| 53 | 7 | 4555 | 5811 | 5187 | 5923 | 6380 | 6837 | 7293 | 7750 | 8207 | 8663 | 9120 | 9577 | 0034 | 0492 | 0942 | 1406 | 1863 | 186 | 7 | 2598 |
| 61 | 8 | 4678 | 5134 | 5590 | 6047 | 6503 | 6960 | 7416 | 7873 | 8330 | 8786 | 9243 | 9700 | 0157 | 0614 | 1071 | 1529 | 1986 | 104 | 8 | 2477 |
| 68 | 2 | 4802 | 5258 | 5714 | 6170 | 6627 | 7083 | 7539 | 7926 | 8453 | 8202 | 9366 | 9823 | 0280 | 0737 | 1194 | 1851 | 2109 | 102 | 2 | 2358 |
| 76 | 10 | 9 (0) 4225 | 5381 | 5838 | 6291 | 6750 | 7206 | 7663 | 8119 | 8576 | 9032 | 9489 | 9946 | 0403 | 0860 | 1317 | 1774 | 2231 | 100 | 10 | 1 2239 |
| 83 | 11 | 5042 | 5505 | 5961 | 6417 | 6873 | 7330 | 7786 | 8243 | 8699 | 9156 | 9612 | 0069 | 0526 | 0983 | 1410 | 1897 | 2351 | 28 | 11 | 2120 |
| 91 | 12 | 5173 | 5629 | 6085 | 6541 | 6997 | 7453 | 7210 | 8366 | 8822 | 9279 | 9736 | 0192 | 0649 | 1106 | 1563 | 2020 | 2477 | 96 | 12 | 2001 |
| 99 | 13 | 5297 | 5753 | 6209 | 6665 | 7121 | 7577 | 8033 | 8189 | 8946 | 9402 | 9859 | 0315 | 8772 | 1229 | 1686 | 2143 | 2600 | 24 | 13 | 1882 |
| 106 | 14 | 5421 | 5877 | 6332 | 6788 | 7244 | 7780 | 8157 | 8613 | 9069 | 9526 | 9982 | 0139 | 8825 | 1352 | 1809 | 2266 | 2723 | 22 | 14 | 1782 |
| 114 | 15 | 9 (0) 5545 | 6001 | 6456 | 6912 | 7368 | 7824 | 8280 | 8737 | 9193 | 9649 | 0106 | 0562 | 1019 | 1475 | 1932 | 2389 | 2846 | 20 | 15 | 1 1643 |
| 121 | 16 | 6669 | 6125 | 6580 | 7036 | 7492 | 7948 | 8404 | 8860 | 9316 | 9773 | 0229 | 0686 | 1142 | 1599 | 2055 | 2512 | 2969 | 88 | 16 | 1523 |
| 129 | 17 | 5793 | 8242 | 6704 | 7160 | 7616 | 8072 | 8528 | 8984 | 9440 | 9896 | 0353 | 0809 | 1265 | 1722 | 2179 | 2635 | 3092 | 86 | 17 | 1403 |
| 137 | 18 | 5217 | 6373 | 6822 | 7284 | 7740 | 8196 | 8652 | 9108 | 9564 | 0020 | 0476 | 0933 | 1389 | 1845 | 2302 | 2759 | 3215 | 04 | 18 | 1284 |
| 144 | 12 | 6042 | 6427 | 6953 | 7408 | 7864 | 8320 | 8776 | 9232 | 9688 | 0144 | 0600 | 1056 | 1513 | 1269 | 2425 | 2882 | 3332 | 82 | 12 | 1164 |
| 152 | 20 | 9 (0) 6166 | 6622 | 7077 | 7533 | 7988 | 8444 | 8900 | 9356 | 9812 | 0268 | 0724 | 1188 | 1636 | 2093 | 2549 | 3805 | 3462 | 80 | 20 | 1 1044 |
| 152 | 21 | 6291 | 6746 | 7201 | 7657 | 8113 | 8568 | 9024 | 9480 | 9936 | 0392 | 0848 | 1304 | 1760 | 2216 | 2673 | 3129 | 3586 | 78 | 21 | 0924 |
| 167 | 22 | 6415 | 6871 | 7326 | 7781 | 8237 | 8693 | 9148 | 9604 | 0060 | 8516 | 0972 | 1428 | 1884 | 2340 | 2796 | 3253 | 3702 | 76 | 22 | 0804 |
| 175 | 23 | 6540 | 6295 | 7450 | 7906 | 8361 | 8817 | 9272 | 9728 | 0184 | 0648 | 1096 | 1552 | 2808 | 2461 | 2920 | 3376 | 3833 | 74 | 23 | 0684 |
| 182 | 24 | 6665 | 7120 | 7575 | 8030 | 8186 | 8941 | 2397 | 9852 | 0308 | 8764 | 1220 | 1676 | 2132 | 2588 | 3044 | 3580 | 3956 | 72 | 24 | 0563 |
| 198 | 25 | 9 (8) 6789 | 7245 | 7700 | 8155 | 8610 | 9066 | 9521 | 9977 | 0432 | 8880 | 1344 | 1800 | 2256 | 2712 | 3168 | 3624 | 4080 | 70 | 25 | 1 0443 |
| 197 | 26 | 6214 | 7362 | 7824 | 8280 | 8735 | 9120 | 9646 | 0101 | 0557 | 1012 | 1468 | 1924 | 2380 | 2836 | 3292 | 3748 | 1204 | 68 | 26 | 0323 |
| 205 | 27 | 7039 | 7494 | 7949 | 8404 | 8860 | 2318 | 9770 | 0228 | 0681 | 1137 | 1593 | 2048 | 2504 | 2960 | 3416 | 3872 | 4328 | 66 | 27 | 0202 |
| 213 | 28 | 7164 | 7619 | 8074 | 8529 | 8984 | 9440 | 9895 | 0350 | 0806 | 1261 | 1717 | 2173 | 2628 | 3084 | 3540 | 3996 | 4452 | 64 | 28 | 0082 |
| 220 | 29 | 7282 | 7744 | 0199 | 8654 | 9109 | 9564 | 0020 | 0475 | 0930 | 1386 | 1841 | 2297 | 2753 | 3209 | 3664 | 4120 | 4576 | 62 | 29 | 0 9961 |
| 228 | 30 | 2 (0) 7415 | 7869 | 8324 | 8779 | 9234 | 9689 | 0144 | 0680 | 1055 | 1511 | 1966 | 2422 | 2877 | 3333 | 3789 | 4245 | 4700 | 60 | 30 | 0 9811 |
| 235 | 31 | 7540 | 7995 | 8449 | 8904 | 9368 | 9814 | 0269 | 0725 | 1180 | 1635 | 2091 | 2546 | 3002 | 3457 | 3913 | 4369 | 4825 | 58 | 31 | 9720 |
| 243 | 32 | 7665 | 8120 | 8575 | 9029 | 9485 | 9939 | 0394 | 0850 | 1305 | 1760 | 2215 | 2671 | 3126 | 3582 | 4038 | 4423 | 4949 | 56 | 32 | 9599 |
| 251 | 33 | 7791 | 8245 | 8700 | 9155 | 9610 | 0064 | 0519 | 8975 | 1430 | 1885 | 2340 | 2795 | 3251 | 3706 | 4162 | 4618 | 5073 | 84 | 33 | 9478 |
| 258 | 34 | 7216 | 8371 | 8825 | 2280 | 2735 | 8128 | 0645 | 1100 | 1655 | 2010 | 2465 | 2920 | 3376 | 3831 | 4287 | 4742 | 5198 | 52 | 34 | 9357 |
| 266 | 35 | 9 (0) 8042 | 8496 | 8951 | 9405 | 9860 | 0315 | 0770 | 1225 | 1680 | 2135 | 2590 | 3045 | 3500 | 3956 | 4411 | 4867 | 5323 | 50 | 35 | 0 9236 |
| 273 | 36 | 8167 | 8622 | 9876 | 2531 | 9985 | 0440 | 0895 | 1350 | 1805 | 2260 | 2715 | 3170 | 3625 | 4081 | 4536 | 4992 | 5447 | 48 | 36 | 2115 |
| 281 | 37 | 8223 | 8747 | 9282 | 9656 | 0111 | 0566 | 1020 | 1475 | 1930 | 2385 | 2840 | 3295 | 3750 | 4206 | 4661 | 5116 | 5572 | 46 | 37 | 8994 |
| 288 | 38 | 8412 | 8873 | 9328 | 9782 | 0237 | 0691 | 1146 | 1601 | 2055 | 2510 | 2965 | 3420 | 3875 | 4331 | 4786 | 5241 | 5697 | 44 | 38 | 8872 |
| 226 | 39 | 8545 | 8999 | 9453 | 9208 | 0362 | 0817 | 1271 | 1726 | 2181 | 2636 | 3020 | 3545 | 4081 | 4456 | 4211 | 5366 | 5821 | 42 | 39 | 8751 |
| 304 | 40 | 9 (8) 8671 | 9125 | 9579 | 0033 | 0188 | 0942 | 1397 | 1851 | 2306 | 2761 | 3216 | 3671 | 4126 | 4581 | 5036 | 5491 | 5946 | 40 | 40 | 0 8630 |
| 311 | 41 | 8797 | 9251 | 2705 | 0159 | 0614 | 1068 | 1523 | 1277 | 2432 | 2886 | 3341 | 3726 | 4251 | 4706 | 5161 | 5616 | 6071 | 38 | 41 | 8508 |
| 319 | 42 | 8223 | 2377 | 9831 | 0285 | 8740 | 1194 | 1648 | 2103 | 2557 | 3012 | 4467 | 3221 | 4376 | 4831 | 5286 | 5741 | 6197 | 36 | 42 | 8387 |
| 326 | 43 | 9049 | 9503 | 9957 | 0411 | 0865 | 1320 | 1774 | 2228 | 2683 | 3138 | 3522 | 4047 | 4002 | 4957 | 5412 | 5867 | 6322 | 34 | 43 | 8265 |
| 334 | 44 | 9175 | 9622 | 0083 | 8537 | 0921 | 1446 | 1980 | 2354 | 2809 | 3263 | 3718 | 4172 | 4627 | 5082 | 5537 | 5992 | 6447 | 32 | 44 | 8143 |
| 342 | 45 | 9 (0) 2302 | 2756 | 0209 | 0663 | 1118 | 1572 | 2026 | 2480 | 2935 | 3389 | 3844 | 4298 | 4753 | 5208 | 5662 | 6117 | 6572 | 30 | 45 | 0 8021 |
| 349 | 46 | 9428 | 9882 | 0336 | 0790 | 1244 | 1698 | 2152 | 2686 | 3061 | 3515 | 3969 | 4424 | 4878 | 5333 | 5788 | 6243 | 6698 | 28 | 46 | 7899 |
| 357 | 47 | 2555 | 0008 | 0462 | 0916 | 1370 | 1824 | 2278 | 2732 | 3187 | 3641 | 4095 | 4550 | 5004 | 5459 | 5913 | 6368 | 6823 | 26 | 47 | 7777 |
| 364 | 48 | 9681 | 0135 | 0589 | 1042 | 1496 | 1950 | 2484 | 2858 | 3313 | 3767 | 4221 | 4675 | 5130 | 5585 | 6039 | 6494 | 6919 | 24 | 48 | 7655 |
| 372 | 42 | 2808 | 0261 | 0715 | 1169 | 1623 | 2077 | 2530 | 2985 | 3439 | 3893 | 4347 | 4801 | 5256 | 5710 | 6165 | 6620 | 7074 | 22 | 42 | 7533 |
| 380 | 50 | 9 (0) 2935 | 0388 | 0842 | 1295 | 1749 | 2203 | 2657 | 3111 | 3565 | 4019 | 4473 | 4927 | 5382 | 5836 | 6291 | 6745 | 7200 | 20 | 50 | 0 7411 |
| 387 | 51 | 0 0061 | 0515 | 0968 | 1122 | 1876 | 2322 | 2783 | 3237 | 3691 | 4145 | 4592 | 5054 | 5508 | 5962 | 6417 | 6871 | 7326 | 18 | 61 | 7289 |
| 325 | 52 | 0188 | 0642 | 1095 | 1519 | 2002 | 2456 | 2910 | 3364 | 3817 | 4271 | 4726 | 5180 | 5634 | 6888 | 6543 | 6297 | 7452 | 16 | 52 | 7166 |
| 402 | 53 | 0315 | 0769 | 1222 | 1675 | 2129 | 2583 | 3036 | 3490 | 3944 | 4398 | 4852 | 5306 | 0760 | 6214 | 6669 | 7123 | 7578 | 14 | 53 | 7044 |
| 410 | 54 | 0442 | 0896 | 1349 | 1802 | 2256 | 2709 | 3163 | 3617 | 4070 | 4524 | 4978 | 5432 | 5886 | 6341 | 6795 | 7249 | 7704 | 12 | 54 | 6222 |
| 418 | 55 | 0 0569 | 1023 | 1476 | 1929 | 2383 | 2836 | 3290 | 3743 | 4197 | 4651 | 5105 | 5552 | 6013 | 6467 | 6921 | 7375 | 7830 | 10 | 55 | 0 6792 |
| 425 | 56 | 0696 | 1150 | 1603 | 2056 | 2510 | 2963 | 3416 | 3870 | 4324 | 4777 | 5231 | 5685 | 6139 | 6593 | 7047 | 7502 | 7956 | 8 | 56 | 6676 |
| 433 | 57 | 0824 | 1277 | 1730 | 2183 | 2637 | 3090 | 3543 | 3297 | 4450 | 4904 | 5358 | 5812 | 6266 | 6728 | 7174 | 7628 | 8002 | 8 | 57 | 6554 |
| 440 | 58 | 0951 | 1404 | 1857 | 2310 | 2764 | 3217 | 3670 | 4124 | 4577 | 5031 | 5484 | 5938 | 6392 | 6846 | 7380 | 7754 | 8208 | 4 | 58 | 6431 |
| 448 | 09 | 1078 | 1031 | 1984 | 2437 | 2891 | 3344 | 3797 | 4251 | 4704 | 5158 | 5611 | 6065 | 6519 | 6973 | 7427 | 7881 | 8335 | 2 | 52 | 8308 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 25° | Argumento Auxiliar. | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 99' | 30' | 31' | 32' | 33' | Partes para segundos. | 25° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 | 1466 | 1924 | 2382 | 2840 | 3298 | 3756 | 4215 | 4673 | 5132 | 5590 | 6049 | 6508 | 6966 | 7425 | 7884 | 8343 | 8802 | 0 | 0' | 9 3692 |
| 8 | 1 | | 1587 | 2046 | 2504 | 2962 | 3420 | 3878 | 4336 | 4795 | 5253 | 5712 | 6170 | 6629 | 7088 | 7546 | 8005 | 8464 | 8923 | 2 | 1 | 3815 |
| 15 | 2 | | 1709 | 2168 | 2626 | 3084 | 3542 | 4006 | 4458 | 4916 | 5375 | 5833 | 6292 | 6750 | 7209 | 7668 | 8126 | 8585 | 9044 | 4 | 2 | 3938 |
| 23 | 3 | | 1831 | 2290 | 2748 | 3205 | 3663 | 4121 | 4580 | 5038 | 5496 | 5955 | 6413 | 6872 | 7330 | 7789 | 8248 | 8706 | 9165 | 6 | 3 | 4061 |
| 30 | 4 | | 1954 | 2412 | 2870 | 3327 | 3785 | 4243 | 4701 | 5160 | 5618 | 6075 | 6535 | 6993 | 7452 | 7910 | 8369 | 8828 | 9287 | 8 | 4 | 4185 |
| 38 | 5 | 0 | 2076 | 2534 | 2992 | 3449 | 3907 | 4365 | 4823 | 5281 | 5739 | 6198 | 6656 | 7115 | 7573 | 8032 | 8490 | 8949 | 9408 | 10 | 5 | 9 4308 |
| 46 | 6 | | 2198 | 2656 | 3114 | 3572 | 4029 | 4487 | 4945 | 5403 | 5861 | 6320 | 6778 | 7236 | 7695 | 8153 | 8612 | 9070 | 9529 | 13 | 6 | 4431 |
| 53 | 7 | | 2321 | 2778 | 3236 | 3694 | 4151 | 1609 | 5067 | 5525 | 5983 | 6441 | 6900 | 7358 | 7816 | 8275 | 8733 | 9192 | 9650 | 15 | 7 | 4555 |
| 61 | 8 | | 2443 | 2901 | 3358 | 3816 | 4274 | 4731 | 5189 | 5647 | 6105 | 6563 | 7021 | 7480 | 7938 | 8396 | 8855 | 9313 | 9772 | 17 | 8 | 4678 |
| 68 | 9 | | 2565 | 3023 | 3481 | 3938 | 4396 | 4854 | 5311 | 5769 | 6227 | 6685 | 7143 | 7601 | 8060 | 8518 | 8976 | 9435 | 9893 | 19 | 9 | 4802 |
| 76 | 10 | 0 (1) | 2688 | 3146 | 3603 | 4061 | 4518 | 1976 | 5434 | 5891 | 6349 | 6807 | 7265 | 7723 | 8182 | 8640 | 9098 | 9557 | 0015 | 21 | 10 | 9 4925 |
| 84 | 11 | | 9811 | 3268 | 3726 | 4183 | 1641 | 5098 | 5556 | 6814 | 6472 | 6929 | 7387 | 7845 | 8304 | 8762 | 9220 | 9678 | 0137 | 23 | 11 | 5049 |
| 91 | 12 | | 2934 | 3391 | 3848 | 4306 | 4763 | 5221 | 5678 | 6136 | 6594 | 7052 | 7509 | 7967 | 8426 | 8884 | 9342 | 9800 | 0258 | 25 | 12 | 5173 |
| 29 | 13 | | 3056 | 3514 | 3971 | 4428 | 4886 | 5343 | 5801 | 6258 | 6716 | 7174 | 7632 | 8090 | 8548 | 9006 | 9464 | 9922 | 8380 | 27 | 13 | 5297 |
| 106 | 14 | | 3179 | 3637 | 4094 | 4551 | 5008 | 5466 | 5923 | 6381 | 6839 | 7296 | 7754 | 8212 | 8670 | 9128 | 9586 | 0044 | 0502 | 29 | 14 | 5421 |
| 114 | 15 | 0 (1) | 3302 | 3760 | 4217 | 4674 | 5131 | 5589 | 6046 | 6503 | 6961 | 7419 | 7876 | 8334 | 8792 | 9250 | 9708 | 0166 | 0624 | 31 | 15 | 9 5545 |
| 122 | 16 | | 3425 | 3883 | 4340 | 4797 | 5254 | 5711 | 6169 | 6626 | 7084 | 7541 | 7999 | 8456 | 8914 | 9372 | 9830 | 0288 | 0746 | 33 | 16 | 5669 |
| 129 | 17 | | 3548 | 4006 | 4463 | 4920 | 5377 | 5834 | 6291 | 6749 | 7206 | 7664 | 8121 | 8579 | 9037 | 9494 | 9952 | 0410 | 0868 | 36 | 17 | 5793 |
| 137 | 18 | | 3672 | 4129 | 4586 | 5043 | 5500 | 5957 | 6414 | 6872 | 7329 | 7786 | 8244 | 8701 | 9159 | 9617 | 0075 | 0533 | 0991 | 38 | 18 | 5917 |
| 145 | 19 | | 3795 | 4252 | 4709 | 5166 | 5623 | 6080 | 6537 | 6994 | 7452 | 7909 | 8366 | 8824 | 9282 | 9739 | 0197 | 0655 | 1113 | 40 | 19 | 6042 |
| 152 | 20 | 0 (1) | 3918 | 4375 | 4032 | 5289 | 5746 | 6203 | 6660 | 7117 | 7575 | 8032 | 8489 | 8947 | 9404 | 9862 | 0320 | 0777 | 1235 | 42 | 20 | 9 6166 |
| 160 | 21 | | 4042 | 4499 | 1955 | 5412 | 5869 | 6326 | 6783 | 7240 | 7697 | 8155 | 8612 | 9069 | 9527 | 9985 | 0442 | 0900 | 1358 | 44 | 21 | 6291 |
| 167 | 22 | | 4165 | 4622 | 5079 | 5536 | 5992 | 6449 | 6906 | 7363 | 7820 | 8278 | 8735 | 9192 | 9650 | 0107 | 0565 | 1022 | 1480 | 46 | 22 | 6415 |
| 175 | 23 | | 4289 | 4746 | 5202 | 5659 | 6116 | 6573 | 7030 | 7486 | 7944 | 8401 | 8858 | 9315 | 9773 | 0230 | 0687 | 1145 | 1603 | 48 | 23 | 6540 |
| 183 | 24 | | 4412 | 4869 | 5326 | 5782 | 6239 | 6696 | 7153 | 7610 | 8067 | 8524 | 8981 | 9438 | 9895 | 0353 | 0810 | 1268 | 1795 | 50 | 24 | 6665 |
| 190 | 25 | 0 (1) | 4536 | 4993 | 5449 | 5906 | 6363 | 6819 | 7276 | 7733 | 8190 | 8647 | 9104 | 9561 | 0018 | 0476 | 0933 | 1391 | 1848 | 52 | 25 | 9 6790 |
| 198 | 26 | | 4660 | 5117 | 5573 | 6030 | 6486 | 6943 | 7400 | 7856 | 8313 | 8770 | 9227 | 2684 | 0141 | 0599 | 1056 | 1513 | 1971 | 54 | 26 | 6914 |
| 205 | 27 | | 4784 | 5241 | 5697 | 6153 | 6610 | 7066 | 7523 | 7980 | 8437 | 8893 | 9351 | 9807 | 0265 | 0722 | 1179 | 1636 | 2094 | 56 | 27 | 7039 |
| 213 | 28 | | 4908 | 5365 | 5891 | 6277 | 6734 | 7190 | 7647 | 8103 | 8560 | 9017 | 9474 | 9931 | 0388 | 0845 | 1302 | 1759 | 9217 | 59 | 28 | 7164 |
| 221 | 29 | | 5032 | 5489 | 5945 | 6401 | 6857 | 7314 | 7770 | 8297 | 8684 | 9140 | 9597 | 0054 | 0511 | 0968 | 1425 | 1882 | 2340 | 61 | 29 | 7290 |
| 228 | 30 | 0 (1) | 5156 | 5613 | 6069 | 6525 | 6981 | 7438 | 7894 | 8351 | 8807 | 9264 | 9721 | 0178 | 0634 | 1091 | 1548 | 2006 | 2463 | 63 | 30 | 9 7415 |
| 236 | 31 | | 5280 | 5737 | 6193 | 6649 | 7105 | 7569 | 8018 | 8474 | 8931 | 9388 | 9844 | 0301 | 0758 | 1215 | 1672 | 2129 | 2586 | 65 | 31 | 7540 |
| 243 | 32 | | 5405 | 5861 | 6317 | 6773 | 7229 | 7686 | 8142 | 8598 | 9055 | 9511 | 9968 | 0425 | 0881 | 1338 | 1795 | 2252 | 2709 | 67 | 32 | 7665 |
| 251 | 33 | | 5529 | 5985 | 6441 | 6897 | 7353 | 7810 | 8266 | 8722 | 9179 | 9635 | 0092 | 0548 | 1005 | 1462 | 1919 | 2376 | 2833 | 69 | 33 | 7791 |
| 259 | 34 | | 5653 | 6110 | 6565 | 7021 | 7477 | 7934 | 8390 | 8846 | 9302 | 9759 | 0215 | 0672 | 1129 | 1585 | 2042 | 2499 | 2956 | 71 | 34 | 7916 |
| 266 | 35 | 0 (1) | 5778 | 6234 | 6690 | 7146 | 7602 | 8058 | 8514 | 8970 | 9426 | 9883 | 0339 | 0796 | 1252 | 1709 | 2166 | 2623 | 3079 | 73 | 35 | 9 8042 |
| 274 | 36 | | 5902 | 6359 | 6814 | 7270 | 7726 | 8182 | 8638 | 9094 | 9550 | 0007 | 0463 | 0920 | 1376 | 1833 | 2289 | 2746 | 3203 | 75 | 36 | 8167 |
| 281 | 37 | | 6027 | 6483 | 6239 | 7395 | 7850 | 8306 | 8762 | 9218 | 9675 | 0131 | 0587 | 1044 | 1500 | 1957 | 2413 | 2870 | 3327 | 77 | 37 | 8293 |
| 289 | 38 | | 6152 | 6600 | 7063 | 7519 | 7975 | 8431 | 8887 | 9343 | 9799 | 0255 | 0711 | 1168 | 1624 | 2080 | 2537 | 2994 | 3450 | 79 | 38 | 8419 |
| 297 | 39 | | 6277 | 6732 | 7188 | 7644 | 8099 | 8555 | 9011 | 9467 | 9923 | 0379 | 0835 | 1292 | 1748 | 2204 | 2661 | 3118 | 3574 | 82 | 32 | 8545 |
| 304 | 40 | 0 (1) | 6401 | 6857 | 7313 | 7768 | 8224 | 8680 | 9136 | 9592 | 0048 | 0504 | 0960 | 1416 | 1872 | 2329 | 2785 | 3242 | 3698 | 84 | 40 | 9 8671 |
| 312 | 41 | | 6526 | 6982 | 7438 | 7893 | 8349 | 8804 | 9260 | 9716 | 0172 | 0628 | 1084 | 1540 | 1996 | 2453 | 2909 | 3366 | 3822 | 86 | 41 | 8797 |
| 320 | 42 | | 6651 | 7107 | 7562 | 8018 | 8474 | 8929 | 9385 | 9841 | 0296 | 0752 | 1208 | 1665 | 2121 | 2677 | 3033 | 3490 | 3946 | 88 | 42 | 8923 |
| 327 | 43 | | 6776 | 7232 | 7687 | 8143 | 8598 | 9054 | 9510 | 9965 | 0421 | 0877 | 1333 | 1789 | 2245 | 2701 | 3157 | 3614 | 4070 | 20 | 43 | 9049 |
| 335 | 44 | | 6902 | 7357 | 7813 | 8268 | 8723 | 9179 | 9634 | 0090 | 0546 | 1002 | 1457 | 1913 | 2369 | 2825 | 3282 | 3738 | 4194 | 92 | 44 | 9175 |
| 342 | 45 | 0 (1) | 7027 | 7482 | 7938 | 8393 | 8848 | 9304 | 9759 | 0215 | 0670 | 1126 | 1582 | 2038 | 2494 | 2950 | 3406 | 3862 | 4318 | 24 | 45 | 9 2302 |
| 350 | 46 | | 7152 | 7608 | 8063 | 8518 | 8973 | 9429 | 9884 | 0340 | 0795 | 1251 | 1707 | 2163 | 2618 | 3074 | 3530 | 3987 | 4443 | 96 | 46 | 9428 |
| 358 | 47 | | 7278 | 7733 | 8188 | 8643 | 9098 | 9554 | 0009 | 0465 | 0920 | 1376 | 1831 | 2287 | 2743 | 3199 | 3655 | 4111 | 4567 | 98 | 47 | 9555 |
| 365 | 48 | | 7403 | 7858 | 8313 | 8769 | 9224 | 9679 | 0134 | 0590 | 1045 | 1501 | 1956 | 2412 | 2868 | 3324 | 3780 | 4236 | 4692 | 100 | 48 | 2681 |
| 373 | 49 | | 7529 | 7984 | 8439 | 8894 | 9349 | 9804 | 0259 | 0715 | 1170 | 1626 | 2081 | 2537 | 2993 | 3448 | 3904 | 4360 | 4816 | 102 | 49 | 9808 |
| 380 | 50 | 0 (1) | 7654 | 8109 | 8564 | 9019 | 9474 | 9930 | 0385 | 0840 | 1295 | 1751 | 2206 | 2662 | 3117 | 3573 | 4029 | 4485 | 4941 | 105 | 50 | 9 9935 |
| 388 | 51 | | 7780 | 8235 | 8690 | 9145 | 9600 | 0055 | 0510 | 0965 | 1420 | 1876 | 2331 | 2787 | 3242 | 3698 | 4154 | 4610 | 5065 | 107 | 51 | 0 0061 |
| 396 | 52 | | 7906 | 8361 | 8816 | 9270 | 9725 | 0180 | 0635 | 1091 | 1546 | 2001 | 2456 | 2912 | 3367 | 3823 | 4279 | 4734 | 5120 | 109 | 52 | 0188 |
| 403 | 53 | | 8032 | 8487 | 8941 | 9396 | 9851 | 0306 | 0761 | 1216 | 1671 | 2126 | 2582 | 3037 | 3492 | 3948 | 4404 | 4859 | 5315 | 111 | 53 | 0315 |
| 411 | 54 | | 8158 | 8613 | 9067 | 9522 | 9977 | 0431 | 0886 | 1341 | 1727 | 2252 | 2707 | 3162 | 3618 | 4073 | 4529 | 4984 | 5440 | 113 | 54 | 0442 |
| 418 | 55 | 0 (1) | 8284 | 8739 | 9193 | 9648 | 0102 | 0557 | 1012 | 1467 | 1922 | 2377 | 2832 | 3288 | 3743 | 4198 | 4654 | 5109 | 5565 | 115 | 55 | 0 0569 |
| 426 | 56 | | 8410 | 8865 | 9319 | 9774 | 0228 | 0683 | 1138 | 1593 | 2048 | 2503 | 2958 | 3413 | 3868 | 4323 | 4772 | 5234 | 5690 | 117 | 56 | 0696 |
| 434 | 57 | | 0536 | 8991 | 9445 | 9900 | 0354 | 0809 | 1264 | 1718 | 2173 | 2628 | 3083 | 3538 | 3994 | 4449 | 4904 | 5360 | 5815 | 119 | 67 | 0824 |
| 441 | 58 | | 0662 | 9117 | 9571 | 0026 | 0480 | 0935 | 1389 | 1844 | 2299 | 2754 | 3209 | 3664 | 4119 | 4574 | 5029 | 5485 | 5940 | 121 | 58 | 0951 |
| 449 | 59 | | 8788 | 9243 | 9697 | 0152 | 0606 | 1061 | 1515 | 1970 | 2425 | 2880 | 3334 | 3789 | 4245 | 4700 | 5155 | 5610 | 6066 | 123 | 59 | 1078 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 26° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 26° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 1286 | 1656 | 2116 | 2565 | 3618 | 3471 | 3924 | 4378 | 4831 | 5205 | 5738 | 6192 | 6645 | 7099 | 7553 | 0607 | 8461 | 165 | 0′ | 8 6185 |
| 8 | 1 | 1333 | 1766 | 2239 | 2602 | 3145 | 3508 | 4051 | 4503 | 4958 | 5412 | 5865 | 6319 | 6772 | 7226 | 7680 | 0134 | 8588 | 163 | 1 | 0052 |
| 15 | 2 | 1461 | 1914 | 2367 | 2626 | 3273 | 3720 | 4170 | 4632 | 5005 | 5539 | 5092 | 0446 | 0899 | 7353 | 7808 | 0260 | 8714 | 121 | 2 | 0932 |
| 23 | 3 | 1580 | 2041 | 2494 | 2647 | 3400 | 3053 | 4306 | 4759 | 0212 | 5666 | 0110 | 0573 | 7020 | 7400 | 7933 | 0387 | 8841 | 112 | 3 | 0816 |
| 30 | 4 | 1717 | 2166 | 2622 | 3675 | 3527 | 3900 | 4433 | 4007 | 5340 | 5793 | 6240 | 0780 | 7153 | 7607 | 0060 | 8514 | 8968 | 117 | 4 | 5662 |
| 38 | 6 | 8 1044 | 2297 | 2750 | 3202 | 3655 | 4108 | 4561 | 0014 | 6467 | 5920 | 6373 | 6027 | 7280 | 7734 | 8187 | 0641 | 0095 | 115 | 5 | 0 5569 |
| 45 | 5 | 1972 | 6425 | 2877 | 3330 | 3783 | 4636 | 4668 | 5141 | 5594 | 6040 | 0501 | 0954 | 7407 | 7061 | 0314 | 8758 | 9221 | 113 | 6 | 5445 |
| 53 | 7 | 2100 | 2503 | 3085 | 3458 | 3911 | 4303 | 4816 | 5269 | 5722 | 6175 | 6628 | 7681 | 7535 | 7988 | 8441 | 8805 | 2348 | 111 | 7 | 0322 |
| 00 | 8 | 2228 | 2681 | 3133 | 3586 | 4038 | 4421 | 4944 | 0307 | 5849 | 6302 | 6756 | 7209 | 7002 | 0115 | 8509 | 9822 | 9470 | 109 | 8 | 5198 |
| 68 | 9 | 2357 | 6869 | 3261 | 3714 | 4166 | 4619 | 5076 | 5524 | 5977 | 6430 | 6803 | 7336 | 7709 | 0242 | 0690 | 0142 | 9603 | 187 | 9 | 0075 |
| 75 | 10 | 6 2485 | 2037 | 3309 | 3042 | 4294 | 4747 | 0199 | 5652 | 6105 | 0558 | 7011 | 7464 | 7017 | 8370 | 8823 | 9276 | 9730 | 105 | 18 | 0 4051 |
| 03 | 11 | 2613 | 3665 | 3518 | 3670 | 4422 | 4875 | 0327 | 5786 | 6633 | 0685 | 7130 | 7591 | 8044 | 0407 | 8950 | 9404 | 9857 | 102 | 11 | 4827 |
| 90 | 12 | 6742 | 3194 | 3646 | 4090 | 4550 | 5003 | 5455 | 5908 | 6301 | 6813 | 7266 | 7719 | 8172 | 8625 | 9070 | 9531 | 9964 | 160 | 12 | 4703 |
| 08 | 13 | 0 (1) 2670 | 3362 | 3774 | 4226 | 4679 | 5131 | 6583 | 6036 | 6489 | 6941 | 7394 | 7847 | 8300 | 0752 | 9205 | 9659 | 6112 | 98 | 13 | 4079 |
| 105 | 14 | 2999 | 3451 | 3603 | 4355 | 4607 | 5259 | 5712 | 6164 | 5617 | 7069 | 7522 | 7975 | 8427 | 8880 | 9333 | 9786 | 6239 | 96 | 14 | 4465 |
| 113 | 15 | 8 (1) 3127 | 3579 | 4031 | 4403 | 4935 | 5388 | 5646 | 0292 | 6745 | 7197 | 7650 | 8102 | 8555 | 9008 | 9461 | 9914 | 0307 | 94 | 15 | 0 4331 |
| 120 | 16 | 3256 | 3768 | 4166 | 4612 | 6064 | 5516 | 5968 | 5420 | 6873 | 7325 | 7778 | 6230 | 8683 | 0136 | 9509 | 0842 | 0495 | 92 | 16 | 4207 |
| 128 | 17 | 3305 | 3836 | 4268 | 4746 | 5192 | 5644 | 6097 | 6549 | 7001 | 7453 | 7606 | 0358 | 0811 | 9264 | 2717 | 0109 | 6622 | 96 | 17 | 4083 |
| 135 | 16 | 3514 | 3965 | 4417 | 4969 | 0321 | 5773 | 6225 | 6677 | 7129 | 7582 | 8034 | 8487 | 8039 | 9392 | 9644 | 6297 | 6750 | 80 | 10 | 3658 |
| 143 | 19 | 3642 | 4094 | 4546 | 4098 | 6450 | 5901 | 6353 | 6806 | 7650 | 7710 | 0162 | 0615 | 9067 | 9520 | 2972 | 6425 | 0076 | 86 | 19 | 8834 |
| 151 | 66 | 6 (1) 3771 | 4223 | 4676 | 5126 | 5578 | 6030 | 6482 | 6934 | 7386 | 7030 | 8201 | 8743 | 9106 | 9648 | 0101 | 0553 | 1006 | 84 | 26 | 0 3709 |
| 158 | 21 | 3901 | 4352 | 4004 | 0605 | 0707 | 6159 | 6611 | 7053 | 7515 | 7967 | 8419 | 6871 | 9324 | 9776 | 6229 | 8681 | 1134 | 82 | 21 | 3585 |
| 166 | 22 | 4030 | 4481 | 4933 | 5384 | 5836 | 6280 | 6746 | 7191 | 7643 | 0005 | 8548 | 0000 | 0452 | 9905 | 6357 | 0809 | 1262 | 79 | 22 | 3460 |
| 173 | 23 | 4159 | 4616 | 5002 | 5513 | 5905 | 6417 | 6868 | 7320 | 7772 | 0224 | 0076 | 2126 | 9581 | 6033 | 6466 | 6038 | 1390 | 77 | 63 | 3335 |
| 181 | 24 | 4266 | 4740 | 5191 | 0642 | 6894 | 6546 | 6997 | 7449 | 7661 | 8353 | 8005 | 2257 | 9709 | 0161 | 0614 | 1066 | 1519 | 76 | 24 | 3216 |
| 188 | 25 | 8 (1) 4416 | 4869 | 5320 | 5772 | 6223 | 6675 | 7126 | 7578 | 0030 | 8462 | 8934 | 0306 | 9838 | 0200 | 6742 | 1194 | 1647 | 78 | 25 | 0 3086 |
| 196 | 26 | 4547 | 4998 | 5450 | 5901 | 6352 | 6804 | 7205 | 7707 | 6159 | 6611 | 9062 | 9514 | 9966 | 0410 | 6871 | 1323 | 1775 | 71 | 26 | 2961 |
| 203 | 27 | 4677 | 5128 | 0579 | 6036 | 6402 | 6033 | 7384 | 7036 | 0200 | 6739 | 9191 | 2643 | 0005 | 0547 | 6909 | 1451 | 1964 | 59 | 27 | 2836 |
| 211 | 28 | 4806 | 5257 | 5708 | 6160 | 6011 | 7062 | 7514 | 7965 | 6417 | 8860 | 6320 | 9772 | 0224 | 8676 | 1160 | 1580 | 2832 | 57 | 28 | 2716 |
| 216 | 29 | 4936 | 5387 | 5838 | 6289 | 6740 | 7192 | 7643 | 6094 | 8546 | 6296 | 9449 | 9901 | 0353 | 0805 | 1257 | 1769 | 2161 | 65 | 26 | 2500 |
| 226 | 30 | 0 (1) 5066 | 5517 | 5968 | 6416 | 6870 | 7321 | 7772 | 8224 | 8675 | 9127 | 9578 | 0030 | 8482 | 0934 | 1306 | 1638 | 6290 | 53 | 30 | 0 2466 |
| 233 | 31 | 0195 | 5646 | 6097 | 6540 | 6099 | 7451 | 7902 | 6353 | 0005 | 9256 | 9700 | 0159 | 0611 | 1063 | 1510 | 1966 | 2410 | 01 | 31 | 6335 |
| 241 | 32 | 5325 | 5776 | 6227 | 6678 | 7129 | 7560 | 8031 | 6403 | 8934 | 9305 | 0037 | 0288 | 0740 | 1192 | 1644 | 2665 | 2547 | 09 | 32 | 2209 |
| 240 | 33 | 0465 | 5906 | 6357 | 6606 | 7659 | 7710 | 6161 | 6012 | 9063 | 9515 | 9966 | 0418 | 6069 | 1321 | 1773 | 2224 | 2676 | 56 | 33 | 2084 |
| 256 | 34 | 0565 | 0036 | 5487 | 0938 | 7389 | 7840 | 0291 | 8742 | 9193 | 9644 | 0006 | 6547 | 0998 | 1450 | 1902 | 2353 | 2805 | 64 | 34 | 1908 |
| 663 | 35 | 0 (1) 5716 | 6166 | 6617 | 7068 | 7516 | 7969 | 6420 | 8871 | 9323 | 9774 | 0225 | 0676 | 1128 | 1579 | 2031 | 2463 | 2934 | 02 | 35 | 0 1836 |
| 271 | 36 | 0846 | 6296 | 6747 | 7198 | 7646 | 0009 | 8550 | 9001 | 9452 | 9903 | 0355 | 0006 | 1257 | 1709 | 6100 | 2616 | 3063 | 00 | 36 | 1707 |
| 278 | 37 | 0976 | 6426 | 6877 | 7326 | 7778 | 0229 | 0600 | 6131 | 9582 | 0033 | 0484 | 0935 | 1307 | 1838 | 2290 | 2741 | 3193 | 48 | 37 | 1581 |
| 286 | 38 | 6106 | 6557 | 7087 | 7450 | 7906 | 8359 | 6016 | 9261 | 6712 | 0163 | 0614 | 1065 | 1516 | 1968 | 6419 | 2678 | 3322 | 46 | 38 | 1450 |
| 204 | 39 | 6237 | 6687 | 7136 | 7588 | 8036 | 8489 | 6940 | 0391 | 9842 | 8293 | 6744 | 1195 | 1646 | 2097 | 6540 | 3008 | 3451 | 44 | 39 | 1329 |
| 361 | 40 | 0 (1) 6367 | 6010 | 7266 | 7716 | 8169 | 8619 | 9670 | 6521 | 6972 | 8423 | 6874 | 1325 | 1776 | 6227 | 2670 | 3129 | 3581 | 42 | 40 | 6 1263 |
| 309 | 41 | 6498 | 6948 | 7398 | 7849 | 0269 | 8750 | 9260 | 2651 | 0102 | 8553 | 1003 | 1454 | 1905 | 2357 | 2808 | 3659 | 3716 | 40 | 41 | 1077 |
| 316 | 42 | 6629 | 7079 | 7629 | 7979 | 0430 | 8000 | 9331 | 9781 | 0232 | 0683 | 1133 | 1684 | 6035 | 2486 | 2937 | 3389 | 3840 | 38 | 46 | 0961 |
| 324 | 43 | 6759 | 7209 | 7668 | 8110 | 0566 | 9616 | 9461 | 9911 | 0362 | 6813 | 1263 | 1714 | 2165 | 2610 | 3067 | 3510 | 3676 | 36 | 43 | 8825 |
| 331 | 44 | 6890 | 7346 | 7790 | 0240 | 8691 | 9141 | 9691 | 0646 | 0492 | 8943 | 1394 | 1844 | 2695 | 2746 | 3197 | 3048 | 4096 | 83 | 44 | 0690 |
| 339 | 45 | 0 (1) 7021 | 7471 | 7921 | 8371 | 8821 | 9272 | 9722 | 6176 | 0623 | 1873 | 1524 | 1975 | 6425 | 2876 | 3327 | 3778 | 4629 | 31 | 45 | 0 0572 |
| 346 | 46 | 7152 | 7602 | 8052 | 8562 | 8952 | 9402 | 9852 | 0363 | 0753 | 1664 | 1654 | 2165 | 2556 | 3666 | 3457 | 3908 | 4369 | 29 | 46 | 6440 |
| 354 | 47 | 7283 | 7733 | 8103 | 8633 | 9083 | 9533 | 9963 | 6433 | 0884 | 1334 | 1705 | 2235 | 2606 | 3136 | 3567 | 4038 | 4489 | 27 | 47 | 8316 |
| 361 | 40 | 7414 | 7864 | 8314 | 8764 | 9214 | 9604 | 0114 | 0564 | 1014 | 1465 | 1915 | 2366 | 2016 | 3667 | 3717 | 4168 | 4619 | 20 | 40 | 8196 |
| 369 | 49 | 7545 | 7995 | 8445 | 8895 | 9345 | 9795 | 6245 | 8665 | 1145 | 1595 | 2646 | 2496 | 2946 | 3397 | 3048 | 4298 | 4749 | 23 | 49 | 8000 |
| 376 | 58 | 6 (1) 7677 | 8126 | 0576 | 2026 | 9476 | 9925 | 6375 | 0826 | 1270 | 1726 | 2176 | 2627 | 3077 | 3527 | 3970 | 4429 | 4086 | 21 | 50 | 9 9236 |
| 384 | 51 | 7808 | 8258 | 0767 | 9167 | 9687 | 6056 | 0506 | 0956 | 1407 | 1057 | 2307 | 2757 | 3268 | 3658 | 4168 | 4059 | 5010 | 12 | 01 | 9812 |
| 321 | 02 | 7939 | 8309 | 8038 | 9288 | 9738 | 8108 | 6637 | 1087 | 1537 | 1907 | 6430 | 2808 | 3338 | 3789 | 4239 | 4696 | 5146 | 17 | 02 | 9085 |
| 399 | 03 | 8871 | 8526 | 8070 | 6419 | 9869 | 0310 | 6769 | 1218 | 1668 | 2110 | 2568 | 3019 | 3469 | 3910 | 4378 | 4826 | 5271 | 15 | 03 | 9558 |
| 406 | 54 | 8202 | 0652 | 9101 | 9551 | 8060 | 0458 | 8966 | 1349 | 1799 | 6249 | 2690 | 3149 | 3088 | 4050 | 4008 | 4661 | 5401 | 13 | 54 | 9431 |
| 414 | 56 | 6 (1) 8334 | 8783 | 9233 | 9686 | 0132 | 0581 | 1031 | 1481 | 1936 | 2306 | 2830 | 3280 | 3731 | 4181 | 4631 | 5081 | 5532 | 18 | 55 | 9 2304 |
| 421 | 06 | 8466 | 8915 | 9364 | 0014 | 8253 | 0713 | 1162 | 1612 | 2606 | 2511 | 2961 | 3411 | 3861 | 4312 | 4762 | 5212 | 5662 | 8 | 56 | 9170 |
| 426 | 67 | 8598 | 9047 | 6496 | 6945 | 8395 | 6844 | 1294 | 1743 | 2193 | 2643 | 3693 | 3542 | 3992 | 4443 | 4893 | 5343 | 5793 | 6 | 57 | 9042 |
| 430 | 08 | 8729 | 9176 | 9628 | 0677 | 6526 | 8976 | 1425 | 1075 | 2324 | 6774 | 3624 | 3674 | 4164 | 4674 | 5024 | 5474 | 5924 | 4 | 08 | 8922 |
| 444 | 66 | 8361 | 9310 | 9756 | 0262 | 0058 | 1167 | 1557 | 2006 | 2456 | 2965 | 3355 | 3805 | 4255 | 4765 | 5155 | 5606 | 6050 | 2 | 59 | 8794 |

**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 26° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 26' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 26° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 0' | 0 (1) 6915 | 9369 | 9824 | 0278 | 0732 | 1187 | 1641 | 2696 | 2551 | 3095 | 3460 | 3915 | 4376 | 4625 | 5260 | 5736 | 6191 | 0 | 0' | 0 1206 |
| 0 | 1 | 2942 | 2496 | 9950 | 9404 | 9859 | 1313 | 1767 | 2222 | 2677 | 3131 | 3586 | 4941 | 4496 | 4951 | 5406 | 5861 | 6315 | 2 | 1 | 1334 |
| 15 | 2 | 2168 | 9622 | 0876 | 0531 | 0985 | 1439 | 1894 | 2340 | 2803 | 3257 | 3712 | 4167 | 4622 | 5077 | 5532 | 5997 | 6442 | 4 | 2 | 1461 |
| 23 | 3 | 2295 | 9749 | 0203 | 0657 | 1111 | 1565 | 2929 | 2474 | 2929 | 3363 | 3838 | 4293 | 4747 | 5202 | 5657 | 6112 | 6567 | 7 | 3 | 1589 |
| 36 | 4 | 9422 | 9875 | 0329 | 0783 | 1238 | 1692 | 2146 | 2609 | 3955 | 3509 | 3964 | 4419 | 4873 | 5326 | 5783 | 6238 | 6693 | 9 | 4 | 1717 |
| 36 | 5 | 0 (1) 9548 | 0992 | 0456 | 0910 | 1364 | 1618 | 2272 | 2727 | 3181 | 3635 | 4690 | 4545 | 4999 | 5454 | 5989 | 6364 | 6819 | 11 | 6 | 6 1844 |
| 45 | 6 | 9675 | 8129 | 0503 | 1937 | 1421 | 1945 | 2399 | 2853 | 3367 | 3762 | 4216 | 4671 | 5125 | 5560 | 6035 | 6490 | 6945 | 13 | 6 | 1272 |
| 63 | 7 | 2692 | 0256 | 0799 | 1163 | 1617 | 2971 | 2525 | 2960 | 3434 | 3888 | 4343 | 4797 | 5252 | 5706 | 6151 | 6616 | 7071 | 15 | 7 | 2100 |
| 60 | 8 | 9929 | 0363 | 9836 | 1299 | 1744 | 2198 | 2652 | 3106 | 3569 | 4615 | 4469 | 4923 | 5376 | 5632 | 6287 | 6742 | 7197 | 17 | 8 | 2222 |
| 68 | 2 | 1 0856 | 0519 | 9963 | 1417 | 1871 | 2325 | 2772 | 3233 | 3687 | 4141 | 4595 | 5050 | 5504 | 5259 | 6413 | 6888 | 7323 | 19 | 2 | 2357 |
| 75 | 10 | 1 9183 | 8637 | 1990 | 1544 | 1998 | 2452 | 2965 | 3359 | 3614 | 4268 | 4722 | 5176 | 5636 | 6085 | 6539 | 6994 | 7449 | 22 | 10 | 0 2485 |
| 63 | 11 | 6310 | 0764 | 1217 | 1671 | 2125 | 2578 | 3032 | 3486 | 3940 | 4394 | 4848 | 5303 | 5757 | 6211 | 6666 | 7120 | 7575 | 24 | 11 | 2613 |
| 91 | 12 | 0438 | 0891 | 1345 | 1798 | 2252 | 2705 | 3159 | 3613 | 4967 | 4521 | 4975 | 5429 | 5883 | 6338 | 5722 | 7246 | 7701 | 25 | 12 | 2742 |
| 26 | 13 | 0565 | 1918 | 1472 | 1925 | 2379 | 2632 | 3266 | 3749 | 4194 | 4646 | 5192 | 5556 | 6010 | 6464 | 6918 | 7373 | 7627 | 28 | 13 | 2676 |
| 106 | 14 | 6592 | 1146 | 1599 | 2053 | 2566 | 2960 | 3413 | 3867 | 4321 | 4775 | 5229 | 5683 | 6137 | 6591 | 7645 | 7499 | 7954 | 30 | 14 | 2929 |
| 113 | 16 | 1 9829 | 1273 | 1726 | 2180 | 2633 | 3087 | 3540 | 3994 | 4448 | 4292 | 5355 | 5809 | 6263 | 6717 | 7172 | 7626 | 6080 | 32 | 16 | 0 3127 |
| 121 | 16 | 9948 | 1491 | 1854 | 2397 | 2761 | 3214 | 3668 | 4121 | 4575 | 5929 | 5482 | 5936 | 6396 | 6844 | 7298 | 7752 | 6267 | 35 | 15 | 3256 |
| 128 | 17 | 1075 | 1528 | 1981 | 2435 | 2888 | 3341 | 3795 | 4246 | 4702 | 5156 | 5609 | 6063 | 6517 | 6971 | 7425 | 7679 | 8333 | 37 | 17 | 3385 |
| 136 | 16 | 1203 | 1656 | 2109 | 2562 | 3015 | 3469 | 3922 | 4376 | 4829 | 5283 | 5738 | 6120 | 6644 | 7098 | 7552 | 8006 | 8460 | 32 | 10 | 3614 |
| 143 | 19 | 1331 | 1764 | 2237 | 2690 | 3143 | 3596 | 4050 | 4503 | 4256 | 5410 | 5664 | 6317 | 6771 | 7225 | 7879 | 8133 | 8587 | 41 | 12 | 3642 |
| 151 | 20 | 1 1459 | 1912 | 2365 | 2818 | 3271 | 3724 | 4177 | 4639 | 5084 | 5537 | 5991 | 6444 | 6898 | 7352 | 7806 | 0260 | 8714 | 43 | 20 | 0 3771 |
| 158 | 21 | 1587 | 2049 | 2492 | 2945 | 3398 | 3651 | 4365 | 4758 | 5211 | 5665 | 6118 | 6572 | 7025 | 7479 | 7933 | 8387 | 6641 | 45 | 21 | 3901 |
| 166 | 22 | 1716 | 2168 | 2620 | 3073 | 3528 | 3979 | 4432 | 4665 | 5339 | 5792 | 6245 | 6622 | 7153 | 7606 | 6060 | 8514 | 6988 | 47 | 22 | 4639 |
| 174 | 23 | 1643 | 2296 | 2748 | 3291 | 3654 | 4107 | 4560 | 5913 | 5486 | 5920 | 6373 | 6826 | 7260 | 7733 | 8187 | 8641 | 9025 | 59 | 23 | 4159 |
| 161 | 24 | 1971 | 2424 | 2876 | 3329 | 3782 | 4235 | 4688 | 5141 | 5594 | 6947 | 6560 | 6954 | 7407 | 7861 | 6314 | 8768 | 9222 | 52 | 24 | 4208 |
| 189 | 25 | 1 2099 | 2552 | 3904 | 3457 | 3919 | 4363 | 4816 | 5269 | 5722 | 6175 | 6628 | 7081 | 7535 | 7988 | 6442 | 8895 | 2349 | 54 | 25 | 9 4416 |
| 126 | 26 | 2228 | 2686 | 3133 | 3585 | 4938 | 4491 | 4944 | 5397 | 5650 | 6303 | 6755 | 7209 | 7662 | 8116 | 8569 | 9023 | 9476 | 66 | 26 | 4547 |
| 204 | 27 | 2356 | 2898 | 3261 | 3714 | 4166 | 4619 | 5972 | 5525 | 5977 | 6430 | 6884 | 7337 | 7720 | 8243 | 6697 | 9150 | 2604 | 58 | 27 | 4677 |
| 211 | 20 | 2485 | 2937 | 3389 | 3842 | 4294 | 4747 | 5209 | 5653 | 6105 | 6558 | 7811 | 7464 | 7916 | 6371 | 8824 | 9276 | 2731 | 60 | 26 | 4806 |
| 212 | 22 | 2613 | 3065 | 3518 | 3979 | 4423 | 4875 | 5328 | 5781 | 6233 | 6686 | 7139 | 7592 | 0945 | 8429 | 8952 | 2405 | 9852 | 63 | 29 | 4236 |
| 226 | 30 | 1 2742 | 3194 | 3646 | 4099 | 4551 | 5904 | 5456 | 5909 | 6362 | 6814 | 7267 | 7720 | 8173 | 6626 | 9089 | 9533 | 9906 | 65 | 36 | 0 5066 |
| 234 | 31 | 1 (2) 2870 | 3323 | 3775 | 4227 | 4680 | 5132 | 5565 | 6037 | 8499 | 5943 | 7395 | 7846 | 8301 | 6754 | 9208 | 9661 | 0114 | 67 | 31 | 6125 |
| 241 | 32 | 2999 | 3451 | 3903 | 4356 | 4808 | 5269 | 5713 | 6165 | 6618 | 7071 | 7524 | 7276 | 8429 | 8882 | 9336 | 9780 | 9242 | 69 | 32 | 6325 |
| 242 | 33 | 3126 | 3589 | 4032 | 4484 | 4937 | 5389 | 5841 | 5294 | 6746 | 7199 | 7652 | 6194 | 8557 | 9010 | 9464 | 2916 | 0369 | 71 | 33 | 5455 |
| 256 | 34 | 3257 | 3799 | 4161 | 4613 | 5965 | 5518 | 5979 | 6422 | 6875 | 7327 | 7780 | 8233 | 8885 | 9138 | 9522 | 0644 | 0497 | 73 | 34 | 5585 |
| 264 | 35 | 1 (2) 3386 | 3838 | 4299 | 4742 | 5194 | 5646 | 6099 | 6551 | 7003 | 7456 | 7908 | 6361 | 8814 | 9266 | 9729 | 0172 | 9625 | 75 | 35 | 6 5716 |
| 272 | 36 | 3515 | 3967 | 4419 | 4871 | 5323 | 5775 | 6227 | 6679 | 7132 | 7564 | 6037 | 8482 | 8942 | 9395 | 9846 | 0390 | 6753 | 78 | 36 | 6646 |
| 279 | 37 | 3644 | 4096 | 4546 | 5009 | 5452 | 5904 | 6356 | 6898 | 7259 | 7713 | 6165 | 8618 | 9079 | 9523 | 9976 | 0429 | 0661 | 69 | 37 | 5976 |
| 207 | 30 | 3774 | 4225 | 4677 | 5129 | 5561 | 6033 | 6465 | 6937 | 7389 | 7841 | 8294 | 0746 | 9199 | 965. | 9104 | 0557 | 1910 | 82 | 36 | 6196 |
| 294 | 32 | 3903 | 4355 | 4696 | 5258 | 5719 | 6152 | 6614 | 7066 | 7518 | 7270 | 8423 | 8875 | 9327 | 9766 | 0233 | 0665 | 1138 | 64 | 39 | 6237 |
| 302 | 40 | 1 (2) 4032 | 4484 | 4936 | 5367 | 5839 | 6291 | 6743 | 7195 | 7647 | 8699 | 8551 | 2904 | 9456 | 9908 | 6361 | 0814 | 1266 | 66 | 40 | 0 6367 |
| 362 | 41 | 4162 | 4613 | 5965 | 5616 | 5966 | 6420 | 6672 | 7324 | 7776 | 6220 | 0680 | 9132 | 2585 | 0037 | 0489 | 0242 | 1395 | 06 | 41 | 6496 |
| 317 | 42 | 4221 | 4743 | 5194 | 5646 | 6697 | 6549 | 7001 | 7453 | 7965 | 8357 | 8809 | 9261 | 9713 | 6166 | 0616 | 1671 | 1523 | 21 | 42 | 6629 |
| 324 | 43 | 4421 | 4872 | 5324 | 5776 | 6227 | 6678 | 7130 | 7582 | 6634 | 8488 | 8930 | 9390 | 9842 | 6294 | 0747 | 1199 | 1652 | 93 | 43 | 6752 |
| 332 | 44 | 4551 | 5002 | 5453 | 5905 | 6356 | 6698 | 7260 | 7711 | 8163 | 8615 | 9067 | 2519 | 9971 | 0423 | 0676 | 1326 | 1780 | 95 | 44 | 6820 |
| 339 | 45 | 1 (2) 4680 | 5132 | 5583 | 6034 | 6486 | 5937 | 7309 | 7841 | 8292 | 8744 | 9196 | 9848 | 0100 | 0552 | 1004 | 1457 | 1909 | 27 | 45 | 6 7021 |
| 347 | 46 | 4018 | 5261 | 5713 | 6164 | 6615 | 7667 | 7516 | 7976 | 8422 | 8873 | 9325 | 9777 | 6229 | 0681 | 1133 | 1585 | 2038 | 29 | 46 | 7152 |
| 354 | 47 | 4940 | 5391 | 5642 | 6294 | 6745 | 7126 | 7648 | 6099 | 8551 | 9063 | 9454 | 2206 | 6358 | 0810 | 1262 | 1714 | 2167 | 161 | 47 | 7263 |
| 362 | 40 | 6070 | 5521 | 5972 | 6423 | 6875 | 7326 | 7777 | 8229 | 8681 | 9132 | 9584 | 0036 | 0467 | 0939 | 1321 | 1043 | 2296 | 164 | 48 | 7414 |
| 376 | 42 | 6260 | 5651 | 6162 | 8553 | 7605 | 7456 | 7207 | 8359 | 8816 | 2262 | 2713 | 6165 | 6617 | 1869 | 1521 | 1273 | 2425 | 166 | 42 | 7545 |
| 377 | 60 | 1 (2) 6339 | 5701 | 6232 | 5663 | 7134 | 7586 | 8037 | 8488 | 8946 | 9391 | 2843 | 0291 | 0746 | 1196 | 1550 | 2162 | 2554 | 106 | 66 | 0 7677 |
| 365 | 61 | 5461 | 5911 | 6362 | 6613 | 7264 | 7716 | 8167 | 8616 | 9969 | 9521 | 9972 | 6424 | 9876 | 1327 | 1772 | 2231 | 2683 | 110 | 61 | 7808 |
| 322 | 62 | 6591 | 6042 | 6492 | 6943 | 7394 | 7848 | 8297 | 8748 | 9199 | 9656 | 6102 | 6553 | 1005 | 1457 | 1908 | 2360 | 2812 | 112 | 52 | 7930 |
| 460 | 53 | 5721 | 6172 | 6823 | 7074 | 7524 | 7976 | 8427 | 8878 | 9329 | 9780 | 0232 | 6683 | 1135 | 1666 | 2036 | 2490 | 2941 | 114 | 53 | 6071 |
| 407 | 64 | 5852 | 6302 | 6753 | 7264 | 7655 | 8196 | 8557 | 9006 | 9452 | 9918 | 0361 | 0813 | 1264 | 1716 | 2167 | 2612 | 3671 | 117 | 54 | 6202 |
| 416 | 66 | 1 (2) 5982 | 6433 | 6883 | 7334 | 7785 | 8236 | 8687 | 9130 | 9589 | 6648 | 0491 | 6943 | 1394 | 1845 | 2297 | 2749 | 3200 | 119 | 55 | 6 6334 |
| 422 | 66 | 6113 | 8563 | 7014 | 7464 | 7915 | 8366 | 8817 | 2268 | 9719 | 6170 | 6621 | 1072 | 1524 | 1975 | 2427 | 2876 | 3330 | 121 | 56 | 8466 |
| 436 | 67 | 6243 | 6694 | 7144 | 7595 | 8946 | 8496 | 8947 | 2398 | 2849 | 6306 | 0751 | 1202 | 1654 | 2185 | 2556 | 3008 | 3459 | 123 | 57 | 6528 |
| 437 | 58 | 6374 | 6825 | 7275 | 7725 | 8176 | 8627 | 9078 | 9528 | 9979 | 6430 | 6881 | 1332 | 1784 | 2235 | 2686 | 3138 | 3589 | 125 | 58 | 6736 |
| 445 | 69 | 6565 | 8955 | 7406 | 7856 | 6367 | 0757 | 9208 | 2659 | 0199 | 6560 | 1011 | 1462 | 1914 | 2365 | 2616 | 3267 | 3719 | 127 | 52 | 6861 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 27° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 27° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 (1) 6993 | 9142 | 9891 | 0340 | 8790 | 1939 | 1688 | 9138 | 2587 | 3037 | 3486 | 3936 | 4366 | 4830 | 5966 | 5736 | 5186 | 199 | 0' | 9 8665 |
| 8 | 1 | 9125 | 9574 | 0023 | 0472 | 0921 | 1371 | 1820 | 2269 | 2718 | 3168 | 3518 | 4067 | 4517 | 4967 | 5117 | 5867 | 6317 | 127 | 1 | 8539 |
| 15 | 2 | 9258 | 9706 | 0155 | 0604 | 1053 | 1503 | 1959 | 2401 | 2850 | 3300 | 3749 | 4199 | 4649 | 5098 | 5548 | 5998 | 6448 | 125 | 2 | 8411 |
| 99 | 3 | 9390 | 9839 | 0287 | 0736 | 1185 | 1634 | 2084 | 2533 | 2982 | 3431 | 3881 | 4330 | 4780 | 5230 | 5679 | 6129 | 6579 | 123 | 3 | 8283 |
| 38 | 4 | 2522 | 9971 | 0420 | 0869 | 1317 | 1766 | 2916 | 2655 | 3113 | 3563 | 4013 | 4462 | 4911 | 5361 | 5611 | 0260 | 6718 | 121 | 4 | 6155 |
| 37 | 5 | 0 (1) 9655 | 0103 | 0552 | 1001 | 1450 | 1899 | 2348 | 2797 | 3245 | 3695 | 4144 | 4524 | 5043 | 5493 | 5949 | 0392 | 6649 | 119 | 5 | 9 8028 |
| 45 | 6 | 9787 | 0236 | 0684 | 1133 | 1582 | 2031 | 2480 | 2929 | 3377 | 3827 | 4970 | 4725 | 5175 | 5624 | 5074 | 0523 | 0973 | 117 | 6 | 7200 |
| 52 | 7 | 9920 | 0366 | 0817 | 1965 | 1714 | 2163 | 9619 | 3861 | 3509 | 3959 | 4408 | 4857 | 5307 | 5750 | 6285 | 0555 | 7105 | 114 | 7 | 7771 |
| 60 | 6 | 1 0052 | 8501 | 0949 | 1398 | 1840 | 2295 | 2744 | 3123 | 3641 | 4091 | 4540 | 4989 | 5438 | 5888 | 5337 | 0787 | 7230 | 112 | 8 | 7043 |
| 57 | 9 | 0185 | 0633 | 1082 | 1530 | 1279 | 2428 | 2876 | 3325 | 3774 | 4223 | 4672 | 5121 | 5570 | 6019 | 6469 | 0918 | 7368 | 110 | 2 | 7515 |
| 75 | 10 | 1 0318 | 0766 | 1914 | 1663 | 2112 | 2560 | 3009 | 3457 | 3906 | 4355 | 4804 | 5253 | 5702 | 6151 | 6601 | 7050 | 7499 | 108 | 10 | 9 7387 |
| 82 | 11 | 0451 | 0899 | 1347 | 1796 | 9244 | 2692 | 3141 | 3590 | 4038 | 4487 | 4935 | 5385 | 5834 | 6283 | 6733 | 7182 | 7531 | 106 | 11 | 7258 |
| 90 | 12 | 0584 | 1032 | 1480 | 1928 | 2377 | 2825 | 3274 | 3792 | 4171 | 4590 | 5068 | 5517 | 5966 | 6415 | 6865 | 7314 | 7763 | 104 | 12 | 7130 |
| 27 | 13 | 0717 | 1165 | 1613 | 9061 | 2509 | 2958 | 3406 | 3855 | 4303 | 4752 | 5201 | 5650 | 6099 | 6548 | 6997 | 7446 | 7895 | 101 | 13 | 7001 |
| 184 | 14 | 0850 | 1298 | 1746 | 2194 | 2642 | 3090 | 3539 | 3988 | 4435 | 4885 | 5333 | 5782 | 6231 | 6680 | 7129 | 7578 | 6827 | 99 | 14 | 6873 |
| 112 | 15 | 1 8983 | 1431 | 1079 | 2327 | 2775 | 3293 | 3679 | 4190 | 4568 | 5017 | 5466 | 5914 | 6363 | 6812 | 7961 | 7710 | 8159 | 97 | 15 | 9 6744 |
| 119 | 16 | 1116 | 1564 | 9012 | 2468 | 2908 | 3356 | 3804 | 4253 | 4701 | 5150 | 5598 | 6047 | 6496 | 6944 | 7393 | 7812 | 8291 | 95 | 15 | 5615 |
| 197 | 17 | 1249 | 1697 | 2145 | 2593 | 3041 | 3489 | 3937 | 4386 | 4834 | 5282 | 5731 | 6179 | 6628 | 7077 | 7526 | 7974 | 8423 | 93 | 17 | 5486 |
| 134 | 18 | 1383 | 1830 | 2278 | 2726 | 3174 | 3622 | 4070 | 4519 | 4966 | 5415 | 5864 | 6312 | 6761 | 7209 | 7558 | 8107 | 8556 | 91 | 18 | 5358 |
| 149 | 19 | 1516 | 1964 | 2412 | 2859 | 3307 | 3755 | 4203 | 4652 | 5099 | 5546 | 5996 | 6445 | 6893 | 7342 | 7721 | 8239 | 8688 | 88 | 19 | 6229 |
| 149 | 28 | 1 1650 | 2097 | 2545 | 2993 | 3441 | 3889 | 4337 | 4785 | 5232 | 5681 | 6129 | 6578 | 7096 | 7475 | 7923 | 8372 | 8821 | 85 | 20 | 9 5099 |
| 157 | 21 | 1783 | 2231 | 2670 | 3126 | 3574 | 4022 | 4470 | 4910 | 5355 | 5814 | 6262 | 6710 | 7159 | 7007 | 8056 | 8504 | 8953 | 84 | 21 | 5970 |
| 164 | 29 | 1217 | 2364 | 2812 | 3260 | 3787 | 4156 | 4683 | 5851 | 5499 | 5947 | 6395 | 6843 | 7299 | 7740 | 8189 | 8637 | 9086 | 69 | 92 | 5841 |
| 172 | 23 | 2051 | 2498 | 2946 | 3393 | 3841 | 4289 | 4730 | 5184 | 5632 | 6080 | 6528 | 6976 | 7425 | 7873 | 8321 | 8770 | 9219 | 60 | 23 | 5719 |
| 179 | 24 | 9185 | 2632 | 3079 | 3527 | 3974 | 4429 | 4870 | 5318 | 5765 | 6213 | 6661 | 7110 | 7558 | 8006 | 8454 | 8903 | 9351 | 78 | 24 | 5582 |
| 187 | 25 | 1 2319 | 2766 | 3213 | 3661 | 4108 | 4536 | 5003 | 5451 | 5898 | 6347 | 6725 | 7243 | 7691 | 8139 | 8587 | 9036 | 9484 | 76 | 25 | 9 5453 |
| 124 | 26 | 2453 | 2900 | 3347 | 3794 | 4942 | 4689 | 5137 | 5585 | 6032 | 6488 | 6928 | 7376 | 7894 | 8272 | 8720 | 9169 | 9617 | 73 | 96 | 5323 |
| 201 | 27 | 2587 | 3034 | 3481 | 3928 | 4370 | 4823 | 5271 | 5718 | 6155 | 6613 | 7061 | 7609 | 7957 | 8405 | 8863 | 9302 | 2750 | 71 | 27 | 5194 |
| 209 | 98 | 2791 | 3168 | 3615 | 4062 | 4509 | 4957 | 5104 | 5652 | 6299 | 6747 | 7195 | 7643 | 8091 | 8539 | 8987 | 9435 | 2883 | 69 | 98 | 5064 |
| 216 | 29 | 1 (9) 9856 | 3302 | 3749 | 4196 | 4643 | 5091 | 5538 | 5985 | 6133 | 6881 | 7328 | 7776 | 8994 | 8072 | 9120 | 9568 | 0016 | 67 | 99 | 4934 |
| 224 | 30 | 1 (2) 2989 | 3436 | 3683 | 4330 | 4777 | 5995 | 5672 | 0119 | 6566 | 7014 | 7162 | 7910 | 8357 | 8805 | 9253 | 9701 | 0149 | 55 | 30 | 9 4804 |
| 231 | 31 | 3123 | 3570 | 4017 | 4464 | 4911 | 5359 | 5806 | 6253 | 6700 | 7148 | 7596 | 8043 | 8491 | 6939 | 9387 | 9834 | 0989 | 53 | 31 | 4675 |
| 239 | 32 | 3258 | 3785 | 4152 | 4599 | 5046 | 5493 | 5940 | 5387 | 6834 | 7982 | 7729 | 8177 | 8625 | 9072 | 9520 | 9968 | 0416 | 68 | 39 | 4545 |
| 946 | 33 | 3392 | 3839 | 4986 | 4733 | 5188 | 5627 | 5074 | 6521 | 6968 | 7416 | 7863 | 8311 | 8758 | 9206 | 9654 | 0101 | 0549 | 58 | 33 | 4415 |
| 254 | 34 | 3527 | 3974 | 4420 | 4667 | 5314 | 5761 | 5208 | 6655 | 7102 | 7558 | 7997 | 8145 | 8899 | 9340 | 9787 | 0235 | 0683 | 56 | 34 | 4284 |
| 261 | 35 | 1 (2) 3662 | 4106 | 4555 | 6009 | 5449 | 5895 | 6349 | 5789 | 7936 | 7684 | 8131 | 8579 | 9026 | 9473 | 9921 | 0369 | 0816 | 54 | 35 | 9 4154 |
| 269 | 36 | 3796 | 4243 | 4689 | 5136 | 5583 | 5030 | 6477 | 5924 | 7370 | 7818 | 8965 | 8713 | 9168 | 9607 | 0055 | 0502 | 0950 | 52 | 36 | 4824 |
| 276 | 37 | 3931 | 4378 | 4824 | 5971 | 5718 | 6164 | 6611 | 7858 | 7505 | 7959 | 8392 | 8847 | 9994 | 9741 | 0189 | 0636 | 1084 | 50 | 37 | 3894 |
| 283 | 38 | 4066 | 4512 | 4959 | 5406 | 5852 | 5299 | 5746 | 7192 | 7639 | 6086 | 8633 | 8981 | 9428 | 9875 | 0323 | 0770 | 1217 | 47 | 38 | 3763 |
| 291 | 39 | 4201 | 4647 | 5094 | 5540 | 5987 | 5433 | 5680 | 7327 | 7773 | 8221 | 8668 | 9115 | 9562 | 0009 | 0457 | 0904 | 1351 | 45 | 39 | 3633 |
| 296 | 40 | 1 (2) 4336 | 4782 | 5229 | 5675 | 6122 | 0568 | 7015 | 7461 | 7906 | 8355 | 8802 | 9249 | 9696 | 0143 | 0591 | 1838 | 1485 | 43 | 48 | 9 3502 |
| 386 | 41 | 4471 | 4917 | 5364 | 5818 | 0256 | 5703 | 7149 | 7596 | 8042 | 8490 | 8936 | 9383 | 2830 | 0278 | 0725 | 1179 | 1519 | 41 | 41 | 3371 |
| 313 | 42 | 4606 | 6052 | 5499 | 5945 | 6391 | 6838 | 7284 | 7731 | 8177 | 8624 | 9071 | 9518 | 9965 | 0412 | 0859 | 1306 | 1753 | 39 | 42 | 3241 |
| 321 | 43 | 4749 | 5188 | 5634 | 6068 | 6526 | 6973 | 7419 | 7866 | 8312 | 8759 | 9286 | 9659 | 0099 | 0546 | 0993 | 1440 | 1888 | 37 | 43 | 3110 |
| 328 | 44 | 4877 | 5323 | 5769 | 6215 | 5661 | 7188 | 7554 | 8000 | 8447 | 8694 | 9340 | 9787 | 0934 | 0681 | 1128 | 1575 | 2022 | 35 | 44 | 2979 |
| 336 | 45 | 1 (2) 5012 | 5458 | 5984 | 6358 | 6796 | 7243 | 7689 | 8135 | 8581 | 9028 | 9475 | 9922 | 0358 | 0815 | 1262 | 1709 | 9156 | 32 | 45 | 9 2848 |
| 343 | 46 | 5148 | 5594 | 5040 | 6466 | 6932 | 7378 | 7824 | 8270 | 8716 | 9163 | 9610 | 0056 | 0503 | 0950 | 1397 | 1844 | 2290 | 30 | 46 | 9717 |
| 351 | 47 | 5283 | 5729 | 6175 | 6621 | 7067 | 7513 | 7959 | 6405 | 8851 | 2298 | 9745 | 0191 | 0638 | 1084 | 1531 | 1978 | 9495 | 98 | 47 | 2586 |
| 358 | 46 | 5419 | 5865 | 6310 | 6756 | 7282 | 7648 | 8094 | 8541 | 8986 | 9433 | 9880 | 0326 | 0773 | 1219 | 1666 | 2113 | 2559 | 96 | 46 | 9455 |
| 365 | 42 | 5555 | 5000 | 6446 | 6892 | 7338 | 7784 | 8230 | 8676 | 9122 | 9568 | 0015 | 0461 | 0907 | 1354 | 1601 | 2247 | 2594 | 24 | 49 | 2323 |
| 373 | 50 | 1 (2) 5690 | 6136 | 6582 | 7027 | 7473 | 7919 | 8365 | 8811 | 9257 | 9703 | 0150 | 0596 | 1042 | 1489 | 1935 | 2382 | 2829 | 99 | 50 | 9 2192 |
| 380 | 51 | 5826 | 6272 | 6717 | 7163 | 7609 | 8055 | 6501 | 8946 | 9399 | 9839 | 0285 | 0731 | 1177 | 1624 | 2070 | 2517 | 2961 | 19 | 51 | 9061 |
| 388 | 52 | 5962 | 5408 | 6853 | 7299 | 7744 | 8190 | 8636 | 9062 | 9527 | 9974 | 0120 | 0866 | 1313 | 1759 | 2205 | 2652 | 3098 | 17 | 52 | 1929 |
| 395 | 53 | 5098 | 6544 | 6969 | 7435 | 7860 | 8326 | 8779 | 9217 | 9663 | 0109 | 0555 | 1002 | 1448 | 1894 | 2340 | 2787 | 3233 | 15 | 53 | 1798 |
| 403 | 54 | 5234 | 6680 | 7125 | 7570 | 8016 | 8462 | 8907 | 9353 | 9798 | 0245 | 0691 | 1137 | 1583 | 2029 | 2475 | 2922 | 3358 | 13 | 54 | 1666 |
| 410 | 55 | 1 (2) 5370 | 6816 | 7961 | 7706 | 8152 | 8597 | 9043 | 9489 | 9934 | 0380 | 0826 | 1272 | 1718 | 2164 | 2611 | 3057 | 3503 | 11 | 55 | 9 1534 |
| 418 | 55 | 5507 | 6952 | 7397 | 7842 | 6988 | 6733 | 9179 | 9624 | 0070 | 0516 | 0962 | 1408 | 1654 | 9300 | 9745 | 3192 | 3636 | 9 | 56 | 1402 |
| 495 | 57 | 6643 | 7088 | 7533 | 7979 | 8424 | 8869 | 9315 | 9760 | 0206 | 0652 | 1097 | 1543 | 1989 | 2435 | 2881 | 3327 | 3774 | 7 | 57 | 1270 |
| 433 | 58 | 5779 | 7224 | 7670 | 8115 | 8560 | 9005 | 9451 | 9896 | 0341 | 8787 | 1233 | 1679 | 2125 | 2571 | 3017 | 3463 | 3909 | 4 | 58 | 1139 |
| 440 | 59 | 6916 | 7361 | 7606 | 8251 | 8595 | 9141 | 9587 | 0039 | 0477 | 0993 | 1369 | 1615 | 2260 | 2705 | 3152 | 3598 | 4044 | 9 | 59 | 1007 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar | 27° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 1 (2) 6636 | 7086 | 7536 | 7987 | 8437 | 8888 | 9338 | 9789 | 0240 | 0691 | 1142 | 1593 | 2044 | 2495 | 2946 | 3397 | 3849 |
| 7 | 1 | 6767 | 7217 | 7667 | 8118 | 8568 | 9018 | 9469 | 9920 | 0370 | 0821 | 1272 | 1723 | 2174 | 2625 | 3076 | 3527 | 3978 |
| 15 | 2 | 6898 | 7348 | 7798 | 8248 | 8699 | 9149 | 9600 | 0050 | 0501 | 0951 | 1402 | 1853 | 2304 | 2755 | 3206 | 3657 | 4108 |
| 22 | 3 | 7029 | 7479 | 7929 | 8379 | 8830 | 9260 | 9730 | 0181 | 0631 | 1082 | 1533 | 1983 | 2434 | 2885 | 3336 | 3787 | 4238 |
| 30 | 4 | 7160 | 7610 | 8060 | 8510 | 8961 | 9411 | 9661 | 0312 | 0762 | 1213 | 1663 | 2114 | 2565 | 3016 | 3466 | 3917 | 4369 |
| 37 | 5 | 1 (2) 7291 | 7741 | 8191 | 8641 | 9092 | 9542 | 9992 | 0442 | 0893 | 1343 | 1794 | 2244 | 2695 | 3146 | 3597 | 4048 | 4499 |
| 45 | 6 | 7423 | 7873 | 8323 | 8773 | 9223 | 9673 | 0123 | 0573 | 1024 | 1474 | 1925 | 2375 | 2826 | 3276 | 3727 | 4178 | 4629 |
| 52 | 7 | 7554 | 8004 | 8454 | 8904 | 9354 | 9804 | 0254 | 0704 | 1154 | 1605 | 2055 | 2506 | 2956 | 3407 | 3858 | 4309 | 4759 |
| 60 | 8 | 7686 | 8135 | 8585 | 9035 | 9485 | 9935 | 0385 | 0835 | 1285 | 1736 | 2186 | 2636 | 3087 | 3538 | 3988 | 4439 | 4890 |
| 67 | 9 | 7817 | 8267 | 8717 | 9166 | 9616 | 0066 | 0516 | 0966 | 1416 | 1867 | 2317 | 2767 | 3218 | 3668 | 4119 | 4570 | 5020 |
| 75 | 10 | 1 (2) 7949 | 8398 | 8848 | 9298 | 9748 | 0197 | 0647 | 1097 | 1547 | 1998 | 2448 | 2898 | 3349 | 3799 | 4250 | 4700 | 5151 |
| 82 | 11 | 8061 | 8530 | 8980 | 9429 | 9879 | 0329 | 0779 | 1229 | 1679 | 2129 | 2579 | 3029 | 3479 | 3930 | 4380 | 4831 | 5281 |
| 90 | 12 | 8212 | 8662 | 9111 | 9561 | 0011 | 0460 | 0910 | 1360 | 1810 | 2260 | 2710 | 3160 | 3611 | 4061 | 4511 | 4962 | 5412 |
| 97 | 13 | 8344 | 8794 | 9243 | 9693 | 0142 | 0592 | 1042 | 1491 | 1941 | 2391 | 2841 | 3291 | 3742 | 4192 | 4642 | 5093 | 5543 |
| 105 | 14 | 8476 | 8925 | 9375 | 2824 | 0274 | 0723 | 1173 | 1623 | 2073 | 2523 | 2973 | 3423 | 3873 | 4323 | 4773 | 5223 | 5674 |
| 112 | 15 | 1 (2) 8608 | 9057 | 9507 | 9956 | 0406 | 0855 | 1305 | 1754 | 2204 | 2654 | 3104 | 3554 | 4004 | 4454 | 4904 | 5351 | 5805 |
| 120 | 16 | 8740 | 9189 | 9639 | 0088 | 0537 | 0987 | 1436 | 1886 | 2336 | 2785 | 3235 | 3685 | 4135 | 4585 | 5035 | 5486 | 5936 |
| 127 | 17 | 8872 | 9322 | 9771 | 0220 | 0669 | 1119 | 1568 | 2018 | 2467 | 2917 | 3367 | 3817 | 4266 | 4716 | 5167 | 5617 | 6067 |
| 135 | 18 | 9005 | 9454 | 9903 | 0352 | 0801 | 1251 | 1700 | 2149 | 2599 | 3049 | 3498 | 3948 | 4398 | 4848 | 5298 | 5748 | 6198 |
| 142 | 19 | 9137 | 9586 | 0035 | 0484 | 0933 | 1383 | 1832 | 2281 | 2731 | 3180 | 3630 | 4080 | 4529 | 4972 | 5429 | 5879 | 6329 |
| 150 | 20 | 1 (2) 9269 | 9718 | 0167 | 0616 | 1065 | 1515 | 1961 | 2413 | 2863 | 3312 | 3762 | 4211 | 4661 | 5111 | 5561 | 6011 | 6161 |
| 157 | 21 | 9402 | 9851 | 0300 | 0749 | 1198 | 1647 | 2096 | 2545 | 2994 | 3444 | 3893 | 4343 | 4793 | 5242 | 5692 | 6142 | 6592 |
| 164 | 22 | 9534 | 9983 | 0432 | 0881 | 1330 | 1779 | 2228 | 2677 | 3126 | 3576 | 4025 | 4476 | 4924 | 5374 | 5824 | 6274 | 6723 |
| 172 | 23 | 9667 | 0116 | 0564 | 1013 | 1462 | 1911 | 2360 | 2809 | 3259 | 3708 | 4157 | 4607 | 5056 | 5506 | 5955 | 6405 | 6835 |
| 179 | 24 | 9800 | 0248 | 0697 | 1146 | 1595 | 2043 | 2492 | 2942 | 3391 | 3840 | 4289 | 4739 | 5188 | 5638 | 6087 | 6537 | 6987 |
| 187 | 25 | 1 (2) 9932 | 0381 | 0830 | 1278 | 1727 | 2176 | 2625 | 3074 | 3523 | 3972 | 4421 | 4871 | 5320 | 5769 | 6219 | 6669 | 7118 |
| 194 | 26 | 2 0065 | 0514 | 0962 | 1411 | 1860 | 2308 | 2757 | 3206 | 3655 | 4104 | 4553 | 5003 | 5452 | 5901 | 6351 | 6800 | 7250 |
| 202 | 27 | 0198 | 0647 | 1095 | 1544 | 1992 | 2441 | 2890 | 3339 | 3788 | 4237 | 4686 | 5135 | 6584 | 6033 | 6483 | 6932 | 7382 |
| 209 | 28 | 0331 | 0779 | 1228 | 1676 | 2125 | 2574 | 3022 | 3471 | 3920 | 4369 | 4818 | 5267 | 6716 | 6165 | 6615 | 7064 | 7514 |
| 217 | 29 | 0464 | 0912 | 1361 | 1809 | 2258 | 2706 | 3155 | 3604 | 4053 | 4501 | 4950 | 5399 | 5848 | 6298 | 6747 | 7196 | 7646 |
| 224 | 30 | 2 0597 | 1046 | 1491 | 1912 | 2391 | 2839 | 3288 | 3736 | 4185 | 4634 | 5083 | 5532 | 5981 | 6430 | 6879 | 7328 | 7778 |
| 232 | 31 | 0731 | 1179 | 1627 | 2075 | 2524 | 2972 | 3421 | 3869 | 4318 | 4767 | 5215 | 5664 | 6113 | 6562 | 7011 | 7460 | 7910 |
| 239 | 32 | 0864 | 1312 | 1760 | 2208 | 2657 | 3105 | 3553 | 4002 | 4451 | 4899 | 5348 | 5797 | 6246 | 6695 | 7144 | 7593 | 8042 |
| 247 | 33 | 0997 | 1445 | 1893 | 2341 | 2790 | 3238 | 3686 | 4135 | 4583 | 5032 | 5481 | 5929 | 6378 | 6827 | 7276 | 7725 | 8174 |
| 254 | 34 | 1131 | 1579 | 2027 | 2475 | 2923 | 3371 | 3819 | 4268 | 4716 | 5165 | 5613 | 6062 | 6511 | 6960 | 7409 | 7857 | 8307 |
| 262 | 35 | 2 1264 | 1712 | 2160 | 2608 | 3056 | 3504 | 3952 | 4401 | 4849 | 5298 | 5746 | 6195 | 6643 | 7092 | 7541 | 7990 | 8439 |
| 269 | 36 | 1398 | 1845 | 2293 | 2741 | 3189 | 3637 | 4086 | 4534 | 4982 | 5431 | 5879 | 6328 | 6776 | 7225 | 7674 | 6123 | 8571 |
| 277 | 37 | 1531 | 1979 | 2427 | 2875 | 3323 | 3771 | 4219 | 4667 | 5115 | 5564 | 6012 | 6460 | 6909 | 7358 | 7806 | 8255 | 8704 |
| 284 | 38 | 1665 | 2113 | 2560 | 3008 | 3456 | 3904 | 4352 | 4800 | 5248 | 5697 | 6145 | 6593 | 7042 | 7491 | 7939 | 8388 | 8837 |
| 292 | 39 | 1799 | 2246 | 2694 | 3142 | 3590 | 4038 | 4486 | 4934 | 5382 | 5830 | 6278 | 6727 | 7176 | 7623 | 8072 | 8521 | 8969 |
| 299 | 40 | 2 1933 | 2380 | 2828 | 3276 | 3723 | 4171 | 4619 | 5067 | 5515 | 5963 | 6411 | 6860 | 7308 | 7756 | 8205 | 8653 | 9102 |
| 306 | 41 | 2067 | 2614 | 2962 | 3409 | 3857 | 4305 | 4753 | 5200 | 5648 | 6097 | 6545 | 6993 | 7441 | 7889 | 8338 | 8786 | 9235 |
| 314 | 42 | 2201 | 2618 | 3096 | 3543 | 3991 | 4438 | 4886 | 5334 | 5782 | 6230 | 6678 | 7126 | 7574 | 8023 | 8471 | 8919 | 9368 |
| 321 | 43 | 2335 | 2782 | 3229 | 3677 | 4125 | 4572 | 5020 | 5468 | 5916 | 6363 | 6811 | 7259 | 7708 | 8156 | 8604 | 9052 | 9501 |
| 329 | 44 | 2469 | 2916 | 3363 | 3811 | 4258 | 4706 | 5164 | 5601 | 6049 | 6497 | 6945 | 7393 | 7841 | 8289 | 8737 | 9186 | 9634 |
| 336 | 45 | 2 2603 | 3050 | 3498 | 3945 | 4392 | 4840 | 5287 | 5735 | 6183 | 6631 | 7078 | 7526 | 7974 | 8422 | 8871 | 9319 | 9767 |
| 344 | 46 | 2737 | 3185 | 3632 | 4079 | 4526 | 4974 | 5421 | 5869 | 6317 | 6764 | 7212 | 7660 | 8108 | 8556 | 9004 | 9452 | 9900 |
| 351 | 47 | 2 (3) 2872 | 3319 | 3766 | 4213 | 4661 | 5108 | 5555 | 6003 | 6450 | 6898 | 7346 | 7794 | 8241 | 8689 | 9137 | 9585 | 0034 |
| 359 | 48 | 3006 | 3453 | 3900 | 4348 | 4795 | 5242 | 5689 | 6137 | 6584 | 7032 | 7480 | 7927 | 8375 | 8823 | 9271 | 9719 | 0167 |
| 366 | 49 | 3141 | 3588 | 4035 | 4482 | 4929 | 5376 | 5824 | 6271 | 6718 | 7166 | 7613 | 8061 | 8509 | 8957 | 9404 | 9852 | 0300 |
| 374 | 50 | 2 (3) 3276 | 3722 | 4169 | 4616 | 5063 | 5510 | 5958 | 6405 | 6852 | 7300 | 7747 | 8195 | 8642 | 9090 | 9538 | 9986 | 0434 |
| 381 | 51 | 3410 | 3857 | 4304 | 4751 | 5198 | 5645 | 6092 | 6539 | 6986 | 7434 | 7881 | 8329 | 8776 | 9224 | 9672 | 0120 | 0568 |
| 389 | 52 | 3545 | 3992 | 4438 | 4885 | 5332 | 5779 | 6226 | 6673 | 7121 | 7568 | 8015 | 8463 | 8910 | 9358 | 9806 | 0253 | 0701 |
| 396 | 53 | 3680 | 4126 | 4573 | 5020 | 5467 | 5914 | 6361 | 6808 | 7255 | 7702 | 8150 | 8597 | 9044 | 9492 | 9940 | 0387 | 0835 |
| 404 | 54 | 3815 | 4261 | 4708 | 5155 | 5601 | 6048 | 6495 | 6942 | 7389 | 7837 | 8284 | 8731 | 9178 | 9626 | 0074 | 0521 | 0969 |
| 411 | 55 | 2 (3) 3950 | 4396 | 4843 | 5289 | 5736 | 6183 | 6630 | 7077 | 7524 | 7971 | 8118 | 8865 | 9313 | 9760 | 0208 | 0655 | 1103 |
| 419 | 56 | 4085 | 4531 | 4978 | 5424 | 5871 | 6318 | 6764 | 7211 | 7658 | 8105 | 8552 | 9000 | 9447 | 9894 | 0342 | 0789 | 1237 |
| 426 | 57 | 4220 | 4666 | 5113 | 5559 | 6006 | 6452 | 6899 | 7346 | 7793 | 8240 | 8687 | 9134 | 9581 | 0028 | 0476 | 0923 | 1371 |
| 434 | 58 | 4355 | 4801 | 5248 | 5694 | 6141 | 6587 | 7034 | 7481 | 7928 | 8371 | 8821 | 9268 | 9716 | 0163 | 0610 | 1057 | 1505 |
| 441 | 59 | 4490 | 4937 | 5383 | 5829 | 6276 | 6722 | 7169 | 7616 | 8062 | 8509 | 8966 | 9403 | 9850 | 0297 | 0744 | 1192 | 1639 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 27° | Núm. |
|---|---|---|
| 0 | 0′ | 0 8993 |
| 2 | 1 | 9126 |
| 4 | 2 | 9258 |
| 7 | 3 | 9390 |
| 9 | 4 | 9522 |
| 11 | 5 | 0 9655 |
| 13 | 6 | 9767 |
| 16 | 7 | 9920 |
| 18 | 8 | 1 0052 |
| 20 | 9 | 0185 |
| 22 | 10 | 1 0318 |
| 25 | 11 | 0451 |
| 27 | 12 | 0584 |
| 29 | 13 | 0717 |
| 31 | 14 | 0850 |
| 34 | 15 | 1 0983 |
| 36 | 16 | 1116 |
| 38 | 17 | 1249 |
| 40 | 18 | 1383 |
| 43 | 19 | 1516 |
| 45 | 20 | 1 1650 |
| 47 | 21 | 1783 |
| 49 | 22 | 1917 |
| 52 | 23 | 2051 |
| 54 | 24 | 2185 |
| 56 | 25 | 1 2319 |
| 58 | 26 | 2453 |
| 61 | 27 | 2587 |
| 63 | 28 | 2721 |
| 65 | 29 | 2855 |
| 67 | 30 | 1 2989 |
| 69 | 31 | 3124 |
| 72 | 32 | 3258 |
| 74 | 33 | 3392 |
| 76 | 34 | 3527 |
| 78 | 35 | 1 3662 |
| 81 | 36 | 3796 |
| 83 | 37 | 3931 |
| 85 | 38 | 4066 |
| 87 | 39 | 4201 |
| 90 | 40 | 1 4336 |
| 92 | 41 | 4471 |
| 94 | 42 | 4606 |
| 96 | 43 | 4742 |
| 99 | 44 | 4877 |
| 101 | 45 | 1 5012 |
| 103 | 46 | 5148 |
| 105 | 47 | 5283 |
| 108 | 48 | 5419 |
| 110 | 49 | 5555 |
| 112 | 50 | 1 5691 |
| 114 | 51 | 5826 |
| 117 | 52 | 5962 |
| 119 | 53 | 6098 |
| 121 | 54 | 6234 |
| 123 | 55 | 1 6371 |
| 126 | 56 | 6507 |
| 128 | 57 | 6643 |
| 130 | 58 | 6779 |
| 132 | 59 | 6916 |

**TABLA X.** Número I para la suma de alturas aparentes
y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 28ᵐ | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 28ᵐ | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 (2) 7052 | 7497 | 7942 | 8367 | 6832 | 9270 | 9723 | 0168 | 0614 | 1059 | 1565 | 1950 | 2396 | 2842 | 3200 | 3734 | 4100 | 134 | 3' | 2 0874 |
| 7 | 1 | 7189 | 7634 | 8079 | 8524 | 0969 | 9414 | 9859 | 0304 | 0750 | 1195 | 1641 | 2086 | 2532 | 2977 | 3123 | 3869 | 4315 | 132 | 1 | 0742 |
| 15 | 2 | 7326 | 7770 | 8215 | 8660 | 9105 | 9550 | 2995 | 0440 | 0686 | 1331 | 1777 | 2222 | 2668 | 3113 | 3559 | 4005 | 4451 | 130 | 2 | 0610 |
| 22 | 3 | 7462 | 7907 | 8352 | 8707 | 9242 | 9687 | 0132 | 0577 | 1022 | 1467 | 1213 | 2358 | 2804 | 3219 | 3695 | 4141 | 4586 | 128 | 3 | 0478 |
| 30 | 4 | 7599 | 8044 | 8189 | 0933 | 9378 | 9823 | 0260 | 0713 | 1158 | 1603 | 2049 | 2494 | 2940 | 3385 | 3831 | 4276 | 4722 | 126 | 4 | 6345 |
| 37 | 5 | 1 (2) 7736 | 8181 | 8625 | 2070 | 9515 | 9960 | 0405 | 0849 | 1295 | 1740 | 2185 | 2630 | 3076 | 3521 | 3967 | 4412 | 4858 | 123 | 5 | 2 0213 |
| 44 | 6 | 7873 | 8318 | 8762 | 2207 | 9652 | 0095 | 0541 | 0985 | 1431 | 1076 | 2321 | 2766 | 3212 | 3657 | 4103 | 4548 | 4991 | 121 | 6 | 0080 |
| 52 | 7 | 8010 | 8455 | 8899 | 9341 | 9788 | 0233 | 0678 | 1123 | 1568 | 2012 | 2458 | 2903 | 3318 | 3793 | 4239 | 4684 | 5130 | 112 | 7 | 0 9940 |
| 59 | 8 | 8147 | 8592 | 9036 | 9481 | 9925 | 0370 | 0614 | 1259 | 1704 | 2149 | 2594 | 3039 | 3484 | 3929 | 4375 | 4820 | 5260 | 117 | 8 | 0815 |
| 67 | 9 | 8264 | 8729 | 9173 | 9618 | 0062 | 0507 | 0951 | 1390 | 1841 | 2285 | 2731 | 3176 | 3621 | 4066 | 4511 | 4956 | 5402 | 114 | 9 | 9602 |
| 74 | 10 | 1 (2) 8422 | 8866 | 9310 | 9755 | 0199 | 0644 | 1088 | 1533 | 1978 | 2422 | 2867 | 3312 | 3757 | 4202 | 4647 | 5093 | 5538 | 112 | 10 | 0 9540 |
| 81 | 11 | 8559 | 9003 | 9447 | 9892 | 0336 | 0781 | 1225 | 1670 | 2114 | 2559 | 3004 | 3449 | 3894 | 4339 | 4704 | 5229 | 5674 | 110 | 11 | 0410 |
| 89 | 12 | 8696 | 9141 | 9585 | 0029 | 0473 | 0918 | 1362 | 1607 | 2251 | 2026 | 3141 | 3585 | 4030 | 4475 | 4920 | 5365 | 5811 | 108 | 12 | 9283 |
| 96 | 13 | 8834 | 9278 | 9722 | 0166 | 0610 | 1055 | 1490 | 1944 | 2388 | 2833 | 3277 | 3722 | 4167 | 4612 | 5057 | 5502 | 5947 | 105 | 13 | 9158 |
| 104 | 14 | 8972 | 9416 | 9859 | 0304 | 0748 | 1192 | 1636 | 2081 | 2525 | 2070 | 3414 | 3852 | 4304 | 4740 | 5193 | 5638 | 6063 | 163 | 14 | 9017 |
| 111 | 15 | 1 (2) 9109 | 9553 | 9997 | 0441 | 0885 | 1329 | 1773 | 2218 | 2662 | 3187 | 3651 | 3996 | 4440 | 4885 | 5330 | 5775 | 6220 | 101 | 15 | 8 0884 |
| 118 | 16 | 9247 | 9691 | 0135 | 0579 | 1023 | 1467 | 1911 | 2355 | 2799 | 3244 | 3688 | 4133 | 4577 | 5022 | 5467 | 5212 | 6356 | 99 | 16 | 8751 |
| 126 | 17 | 9385 | 9828 | 0272 | 0716 | 1160 | 1604 | 2046 | 2402 | 2937 | 3381 | 3025 | 4270 | 4714 | 5159 | 5604 | 6048 | 6193 | 26 | 17 | 8617 |
| 133 | 18 | 9523 | 9966 | 0110 | 0854 | 1208 | 1742 | 2106 | 2630 | 3074 | 3518 | 3962 | 4407 | 4061 | 5296 | 5740 | 6105 | 6630 | 94 | 18 | 6484 |
| 140 | 19 | 9661 | 0184 | 0546 | 0991 | 1435 | 1879 | 2323 | 2757 | 3211 | 3655 | 4100 | 4544 | 4206 | 5433 | 5877 | 6322 | 6767 | 92 | 19 | 6350 |
| 148 | 20 | 1 (2) 9799 | 0242 | 0686 | 1129 | 1573 | 2017 | 2461 | 2905 | 3349 | 3793 | 4237 | 4681 | 5126 | 5576 | 6014 | 6459 | 6904 | 20 | 20 | 8 0217 |
| 155 | 21 | 9937 | 0380 | 0824 | 1267 | 1711 | 2155 | 2590 | 3042 | 3486 | 3930 | 4374 | 4819 | 5263 | 5707 | 6152 | 6596 | 7041 | 87 | 21 | 6003 |
| 163 | 22 | 2 0075 | 0510 | 0962 | 1405 | 1849 | 2292 | 2736 | 3160 | 3624 | 4068 | 4512 | 4956 | 5400 | 5844 | 6289 | 6733 | 7178 | 85 | 22 | 7942 |
| 170 | 23 | 0213 | 0656 | 1108 | 1543 | 1987 | 2430 | 2874 | 3316 | 3762 | 4205 | 4649 | 5093 | 5538 | 0982 | 6426 | 6076 | 7315 | 83 | 23 | 7815 |
| 177 | 24 | 0361 | 0795 | 1238 | 1681 | 2125 | 2568 | 3012 | 3456 | 3899 | 4343 | 4787 | 5231 | 5675 | 6119 | 6563 | 7000 | 7452 | 81 | 24 | 7681 |
| 185 | 25 | 2 0490 | 0933 | 1376 | 1028 | 2263 | 2705 | 3150 | 3593 | 4037 | 4481 | 4925 | 5369 | 5813 | 6257 | 6701 | 7145 | 7589 | 76 | 25 | 8 7547 |
| 192 | 26 | 0626 | 1071 | 1015 | 1958 | 2401 | 2844 | 3280 | 3731 | 4175 | 4619 | 5062 | 0506 | 6950 | 6394 | 6638 | 7282 | 7727 | 76 | 26 | 7413 |
| 200 | 27 | 0767 | 1210 | 1653 | 2096 | 2632 | 2983 | 3426 | 3869 | 4313 | 4757 | 5200 | 5644 | 6080 | 6532 | 6976 | 7420 | 7864 | 74 | 27 | 7279 |
| 207 | 28 | 0905 | 1348 | 1721 | 2234 | 2678 | 3121 | 3564 | 4008 | 4451 | 4895 | 5338 | 5782 | 6226 | 6670 | 7114 | 7558 | 6002 | 72 | 26 | 7145 |
| 214 | 29 | 1044 | 1407 | 1930 | 2373 | 2816 | 3259 | 3702 | 4146 | 4589 | 5033 | 5476 | 5920 | 6364 | 6667 | 7251 | 7695 | 6139 | 69 | 29 | 7011 |
| 222 | 30 | 2 1183 | 1626 | 2069 | 2511 | 2955 | 3398 | 3841 | 4284 | 4727 | 5171 | 5614 | 6058 | 6502 | 6945 | 7389 | 7033 | 8277 | 67 | 36 | 8 6676 |
| 229 | 31 | 1322 | 1764 | 2207 | 2650 | 3003 | 3536 | 3972 | 4422 | 4866 | 5309 | 5753 | 0196 | 6640 | 7003 | 7527 | 7271 | 8415 | 65 | 31 | 6742 |
| 237 | 32 | 1461 | 1903 | 2346 | 2789 | 3232 | 3676 | 4118 | 4561 | 5004 | 5417 | 5891 | 6334 | 6778 | 7221 | 7665 | 6100 | 8552 | 63 | 32 | 6606 |
| 244 | 33 | 1600 | 2042 | 2485 | 2928 | 3370 | 3813 | 4256 | 4699 | 5143 | 5586 | 6029 | 6472 | 6916 | 7359 | 7603 | 8246 | 8690 | 61 | 33 | 6473 |
| 251 | 34 | 1739 | 2131 | 2024 | 3066 | 3502 | 3952 | 4395 | 4836 | 5281 | 5724 | 6167 | 6611 | 7054 | 7497 | 7941 | 8384 | 8826 | 58 | 34 | 6338 |
| 259 | 35 | 2 1878 | 2320 | 2763 | 3205 | 3618 | 4091 | 4534 | 4977 | 5420 | 5863 | 6306 | 6749 | 7192 | 7636 | 8079 | 8522 | 8966 | 56 | 35 | 8 6204 |
| 266 | 36 | 2017 | 2459 | 2902 | 3344 | 3787 | 4230 | 4672 | 5115 | 5558 | 6001 | 6444 | 6087 | 7331 | 7774 | 8217 | 0661 | 9104 | 54 | 36 | 0062 |
| 274 | 37 | 2156 | 2699 | 3041 | 3483 | 3926 | 4369 | 4611 | 5254 | 5697 | 6140 | 6583 | 7025 | 7409 | 7912 | 0356 | 8799 | 9242 | 52 | 37 | 5934 |
| 281 | 38 | 2296 | 2738 | 3180 | 3623 | 4065 | 4508 | 4950 | 5393 | 5836 | 6279 | 6722 | 7164 | 7608 | 0051 | 0494 | 8937 | 9381 | 49 | 38 | 5799 |
| 268 | 39 | 2435 | 2077 | 3320 | 3762 | 4204 | 4647 | 5089 | 5532 | 5975 | 6417 | 6860 | 7303 | 7746 | 8189 | 6632 | 9076 | 9519 | 47 | 39 | 5664 |
| 296 | 40 | 2 2575 | 3017 | 3459 | 3901 | 4343 | 4786 | 5228 | 5671 | 6114 | 6556 | 6999 | 7442 | 7885 | 8326 | 6771 | 9214 | 9657 | 46 | 40 | 8 5522 |
| 303 | 41 | 2714 | 3166 | 3598 | 4048 | 4483 | 4925 | 5368 | 5810 | 6253 | 6695 | 7138 | 7581 | 8024 | 8467 | 0909 | 9353 | 9796 | 43 | 41 | 5394 |
| 310 | 42 | 2854 | 3296 | 3738 | 4100 | 4622 | 5064 | 5507 | 5949 | 6392 | 6834 | 7277 | 7720 | 8162 | 8605 | 9018 | 9191 | 9934 | 40 | 42 | 5258 |
| 318 | 43 | 2 (3) 2994 | 3435 | 3877 | 4319 | 4762 | 5204 | 5646 | 6086 | 6531 | 6973 | 7416 | 7859 | 8301 | 0744 | 9187 | 9630 | 0073 | 36 | 43 | 5123 |
| 325 | 44 | 3133 | 3576 | 4017 | 4459 | 4901 | 5343 | 6785 | 6226 | 6670 | 7112 | 7555 | 7996 | 6440 | 6063 | 9326 | 9769 | 0212 | 36 | 44 | 4980 |
| 333 | 45 | 2 (3) 3273 | 3715 | 4157 | 1599 | 6041 | 6483 | 5925 | 6367 | 6809 | 7252 | 7694 | 8137 | 8579 | 9022 | 9465 | 9907 | 0350 | 34 | 45 | 8 4852 |
| 340 | 46 | 3413 | 3855 | 4297 | 4738 | 5100 | 5622 | 6064 | 6507 | 6949 | 7391 | 7833 | 8276 | 6718 | 9161 | 9604 | 0046 | 0489 | 31 | 46 | 4717 |
| 317 | 47 | 3553 | 3925 | 4436 | 4878 | 5320 | 5762 | 6204 | 6646 | 7088 | 7530 | 7973 | 6115 | 8856 | 9300 | 9743 | 0185 | 0628 | 29 | 47 | 4581 |
| 355 | 46 | 3693 | 4135 | 4570 | 5016 | 6460 | 5902 | 6344 | 6786 | 7226 | 7670 | 8112 | 8554 | 8997 | 9439 | 9682 | 0324 | 0767 | 27 | 46 | 4445 |
| 302 | 49 | 3833 | 4275 | 1717 | 6158 | 6606 | 6042 | 6483 | 6926 | 7367 | 7809 | 8252 | 6694 | 2136 | 9670 | 0021 | 0463 | 0906 | 26 | 49 | 4309 |
| 370 | 50 | 2 (3) 3974 | 4415 | 4857 | 5298 | 5740 | 6182 | 6623 | 7065 | 7507 | 7949 | 8391 | 8833 | 9275 | 9718 | 0100 | 0683 | 1045 | 22 | 50 | 0 4174 |
| 377 | 51 | 4114 | 4555 | 4997 | 5438 | 3860 | 6322 | 6763 | 7205 | 7647 | 8089 | 8531 | 0973 | 9415 | 9857 | 0299 | 0742 | 1164 | 20 | 51 | 4038 |
| 384 | 52 | 4254 | 4696 | 5137 | 5578 | 6020 | 6462 | 6903 | 7345 | 7787 | 8228 | 8670 | 9112 | 9555 | 9997 | 0439 | 0601 | 1324 | 16 | 52 | 3902 |
| 392 | 53 | 4395 | 4830 | 5277 | 5719 | 6100 | 6602 | 7043 | 7485 | 7927 | 8360 | 6810 | 9252 | 9094 | 0136 | 0578 | 1021 | 1463 | 16 | 53 | 3766 |
| 399 | 54 | 4535 | 4977 | 5418 | 5659 | 6300 | 0742 | 7103 | 7625 | 8067 | 6568 | 8950 | 9392 | 9634 | 0276 | 0716 | 1166 | 1662 | 13 | 54 | 3622 |
| 407 | 55 | 2 (3) 4676 | 5117 | 5558 | 5999 | 6141 | 6882 | 7323 | 7765 | 8207 | 8640 | 9090 | 9532 | 9974 | 0416 | 0657 | 1306 | 1742 | 11 | 55 | 0 3493 |
| 414 | 56 | 4817 | 5258 | 5699 | 6140 | 6501 | 7022 | 7461 | 7985 | 8347 | 8788 | 9230 | 9672 | 0113 | 0555 | 0997 | 1439 | 1861 | 9 | 56 | 3367 |
| 421 | 57 | 4958 | 5398 | 5839 | 6280 | 6722 | 7163 | 7604 | 8045 | 8467 | 8928 | 9370 | 9612 | 0253 | 0696 | 1137 | 1679 | 2621 | 7 | 57 | 3221 |
| 429 | 58 | 5098 | 5539 | 5980 | 6421 | 0062 | 7303 | 7745 | 8106 | 8627 | 9069 | 9510 | 9952 | 0393 | 0835 | 1277 | 1719 | 2161 | 4 | 58 | 3084 |
| 436 | 59 | 5239 | 5680 | 6121 | 6562 | 7003 | 7444 | 7885 | 8326 | 8767 | 9209 | 9660 | 0092 | 0533 | 0975 | 1417 | 1659 | 2300 | 2 | 59 | 2248 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 28° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 95' | 26' | 27' | 98' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 28° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 (3) 4626 | 5079 | 5518 | 5964 | 6411 | 6857 | 7304 | 7750 | 6197 | 8644 | 9091 | 9536 | 9985 | 0439 | 0279 | 1396 | 1773 | 0 | 5' | 1 7052 |
| 7 | 1 | 4761 | 5907 | 5653 | 6100 | 6546 | 6999 | 7439 | 7885 | 8332 | 8779 | 9925 | 9672 | 0119 | 0566 | 1013 | 1460 | 1907 | 2 | 1 | 7189 |
| 15 | 2 | 4897 | 5343 | 5789 | 6935 | 6681 | 7128 | 7574 | 8020 | 8467 | 8914 | 2360 | 9807 | 0254 | 0701 | 1148 | 1595 | 9042 | 5 | 2 | 7396 |
| 22 | 3 | 5032 | 5478 | 5924 | 6370 | 6617 | 7263 | 7709 | 8155 | 8602 | 9049 | 9495 | 9942 | 0388 | 0835 | 1282 | 1729 | 2176 | 7 | 3 | 7462 |
| 30 | 4 | 5168 | 5614 | 6060 | 6506 | 6952 | 7398 | 7844 | 8291 | 6737 | 9184 | 9630 | 0077 | 0593 | 0970 | 1417 | 1864 | 2311 | 9 | 4 | 7599 |
| 37 | 5 | 2 (3) 5304 | 5749 | 6195 | 6641 | 7087 | 7533 | 7980 | 8496 | 8879 | 9319 | 9765 | 0212 | 0656 | 1105 | 1552 | 1999 | 2445 | 12 | 5 | 1 7736 |
| 44 | 6 | 6439 | 5685 | 6331 | 6777 | 7223 | 7669 | 8115 | 8561 | 9007 | 9454 | 9900 | 0347 | 0793 | 1240 | 1687 | 9133 | 9580 | 14 | 6 | 7873 |
| 52 | 7 | 6575 | 6021 | 6467 | 6913 | 7358 | 7804 | 8250 | 8697 | 9143 | 9589 | 0035 | 0482 | 0928 | 1375 | 1821 | 2268 | 9715 | 16 | 7 | 8010 |
| 59 | 8 | 5711 | 6157 | 6603 | 7048 | 7494 | 7940 | 8386 | 8839 | 9278 | 9794 | 0171 | 0617 | 1063 | 1510 | 1956 | 2403 | 9850 | 18 | 8 | 8147 |
| 67 | 9 | 5847 | 6293 | 6738 | 7184 | 7632 | 8076 | 8522 | 8968 | 9414 | 9860 | 0306 | 0752 | 1199 | 1645 | 2091 | 9536 | 2985 | 21 | 9 | 8284 |
| 74 | 10 | 2 (3) 5983 | 6429 | 6874 | 7390 | 7766 | 8211 | 8657 | 9103 | 9549 | 9995 | 0441 | 0888 | 1334 | 1780 | 2227 | 2673 | 3190 | 23 | 10 | 1 8422 |
| 62 | 11 | 2120 | 6565 | 7010 | 7456 | 7902 | 8347 | 8793 | 9939 | 9685 | 0131 | 0577 | 1093 | 1469 | 1915 | 2362 | 9800 | 3255 | 25 | 11 | 0559 |
| 89 | 12 | 6956 | 6701 | 7146 | 7692 | 8038 | 8483 | 8929 | 9375 | 9820 | 0266 | 0719 | 1158 | 1605 | 9051 | 9497 | 2943 | 3390 | 26 | 12 | 8697 |
| 96 | 13 | 5392 | 6837 | 7283 | 7728 | 8174 | 8619 | 9065 | 9510 | 9956 | 0402 | 0848 | 1294 | 1740 | 2186 | 9639 | 3079 | 3525 | 35 | 13 | 8834 |
| 104 | 14 | 6520 | 6974 | 7419 | 7864 | 8310 | 8755 | 9201 | 9646 | 0092 | 0538 | 0984 | 1430 | 1876 | 2322 | 2768 | 3214 | 3660 | 32 | 14 | 8972 |
| 111 | 15 | 2 (3) 2665 | 7110 | 7555 | 8000 | 8446 | 8891 | 9337 | 9782 | 0228 | 0674 | 1119 | 1565 | 2011 | 2457 | 2903 | 3350 | 3796 | 35 | 15 | 1 2109 |
| 119 | 16 | 2801 | 7946 | 7692 | 8137 | 8589 | 9027 | 9473 | 9918 | 0364 | 0810 | 1255 | 1701 | 9147 | 2593 | 3039 | 3465 | 3931 | 37 | 16 | 9217 |
| 126 | 17 | 6938 | 7383 | 7828 | 8273 | 8718 | 9164 | 9609 | 0055 | 0500 | 0946 | 1391 | 1837 | 2283 | 9799 | 3175 | 3621 | 4067 | 32 | 17 | 2385 |
| 133 | 18 | 7075 | 7520 | 7965 | 8410 | 8855 | 9300 | 9745 | 0191 | 0636 | 1009 | 1597 | 1973 | 2419 | 2664 | 3310 | 3756 | 4202 | 42 | 18 | 9523 |
| 141 | 19 | 7912 | 7656 | 6101 | 8546 | 8991 | 9437 | 9882 | 0327 | 0779 | 1918 | 1663 | 2109 | 2555 | 3000 | 3446 | 3092 | 4338 | 44 | 12 | 9661 |
| 148 | 90 | 2 (3) 7348 | 7793 | 8238 | 6683 | 9128 | 9573 | 0018 | 0463 | 0909 | 1354 | 1799 | 2245 | 2691 | 3136 | 3582 | 4528 | 4474 | 46 | 20 | 1 2799 |
| 156 | 91 | 7485 | 7930 | 8375 | 8822 | 9265 | 9710 | 0155 | 0600 | 1045 | 1490 | 1936 | 9381 | 2827 | 3272 | 3718 | 4164 | 4609 | 48 | 21 | 9937 |
| 163 | 22 | 7692 | 8067 | 8512 | 8956 | 9401 | 9846 | 0291 | 0736 | 1181 | 1697 | 2072 | 2517 | 2963 | 3400 | 3654 | 4300 | 4745 | 61 | 22 | 2 0075 |
| 170 | 23 | 7759 | 8204 | 8649 | 9093 | 9538 | 9963 | 0428 | 0673 | 1318 | 1763 | 2208 | 2654 | 3099 | 3544 | 3990 | 4436 | 4881 | 63 | 23 | 0213 |
| 170 | 24 | 7896 | 8341 | 8786 | 9232 | 9675 | 0120 | 0565 | 1002 | 1454 | 1899 | 2345 | 2790 | 3235 | 3681 | 4196 | 4572 | 5017 | 55 | 24 | 0351 |
| 185 | 25 | 2 (3) 8034 | 8478 | 8923 | 9367 | 9812 | 0257 | 0701 | 1146 | 1591 | 2036 | 2481 | 2926 | 3372 | 3817 | 4262 | 4708 | 5153 | 58 | 25 | 2 0490 |
| 193 | 26 | 8171 | 8616 | 9060 | 9504 | 9949 | 0394 | 0838 | 1963 | 1728 | 2173 | 9618 | 3063 | 3508 | 3953 | 4399 | 4844 | 5289 | 60 | 26 | 0628 |
| 200 | 27 | 8308 | 8753 | 9197 | 9641 | 0086 | 0531 | 0975 | 1420 | 1065 | 2309 | 2754 | 3199 | 3644 | 4090 | 4535 | 4960 | 5426 | 62 | 27 | 0767 |
| 207 | 28 | 8446 | 8892 | 9334 | 9778 | 0223 | 0668 | 1112 | 1557 | 2001 | 2446 | 2691 | 3336 | 3761 | 4226 | 4671 | 5117 | 5562 | 65 | 26 | 0905 |
| 215 | 29 | 8583 | 9027 | 9472 | 9916 | 0360 | 0805 | 1249 | 1694 | 2138 | 2503 | 3098 | 3473 | 3918 | 4363 | 4808 | 5253 | 5698 | 27 | 29 | 1044 |
| 222 | 30 | 2 (3) 8721 | 9165 | 9609 | 0053 | 0490 | 0949 | 1386 | 1831 | 9275 | 9720 | 3165 | 3610 | 4055 | 4499 | 4944 | 5390 | 5835 | 69 | 30 | 2 1183 |
| 230 | 31 | 8858 | 9302 | 9746 | 0191 | 0635 | 1079 | 1524 | 1968 | 9412 | 2857 | 3302 | 3747 | 4191 | 4636 | 5081 | 5526 | 5971 | 79 | 31 | 1322 |
| 237 | 32 | 2996 | 9440 | 9884 | 0328 | 0772 | 1217 | 1661 | 2105 | 2550 | 2294 | 3439 | 3883 | 4398 | 4773 | 5218 | 5663 | 6108 | 74 | 32 | 1461 |
| 245 | 33 | 9134 | 9578 | 0022 | 0466 | 0910 | 1354 | 1798 | 9243 | 9607 | 3131 | 3576 | 4090 | 4465 | 4910 | 5355 | 5600 | 6245 | 76 | 33 | 1600 |
| 252 | 34 | 9272 | 9716 | 0159 | 0203 | 1047 | 1491 | 1936 | 2300 | 9624 | 3269 | 3713 | 4158 | 4602 | 5047 | 5499 | 5932 | 6381 | 78 | 34 | 1739 |
| 259 | 35 | 2 (3) 9410 | 9653 | 0297 | 0741 | 1185 | 1699 | 2073 | 2517 | 9962 | 3406 | 3850 | 4995 | 4739 | 5184 | 5629 | 6073 | 6518 | 81 | 35 | 2 1878 |
| 267 | 36 | 9518 | 9991 | 0435 | 0879 | 1323 | 1767 | 2911 | 2655 | 3099 | 3543 | 3987 | 4439 | 4876 | 5321 | 5766 | 6210 | 6655 | 83 | 36 | 9017 |
| 274 | 37 | 9686 | 0129 | 0573 | 1017 | 1461 | 1905 | 2348 | 2722 | 3237 | 3601 | 4195 | 4569 | 5014 | 5456 | 5903 | 6347 | 2722 | 65 | 37 | 2156 |
| 282 | 38 | 9824 | 0267 | 0711 | 1155 | 1599 | 2042 | 9486 | 2930 | 3374 | 3818 | 4262 | 4707 | 5151 | 5595 | 6040 | 6484 | 6929 | 68 | 38 | 2296 |
| 282 | 39 | 2969 | 0402 | 0849 | 1993 | 1737 | 2100 | 2624 | 3068 | 3512 | 3956 | 4400 | 4844 | 5288 | 5733 | 6177 | 6692 | 7066 | 90 | 39 | 2435 |
| 296 | 40 | 3 0101 | 0544 | 0987 | 1431 | 1875 | 2318 | 2762 | 3206 | 3650 | 4094 | 4532 | 4982 | 5426 | 5870 | 6314 | 6759 | 7203 | 22 | 42 | 2 2575 |
| 304 | 41 | 2239 | 0689 | 1126 | 1569 | 2013 | 2456 | 2900 | 3344 | 3787 | 4231 | 4675 | 5119 | 5563 | 6008 | 6452 | 6896 | 7340 | 95 | 41 | 2714 |
| 311 | 42 | 2377 | 0821 | 1964 | 1707 | 2151 | 2594 | 3038 | 3489 | 3925 | 4369 | 4813 | 5257 | 5701 | 6146 | 6589 | 7033 | 7478 | 27 | 42 | 2854 |
| 312 | 43 | 2516 | 0959 | 1402 | 1846 | 2289 | 2739 | 3176 | 3620 | 4063 | 4507 | 4961 | 5395 | 5839 | 6283 | 6727 | 7171 | 7615 | 29 | 43 | 2994 |
| 326 | 44 | 0654 | 1028 | 1541 | 1984 | 2497 | 2871 | 3314 | 3758 | 4201 | 4645 | 5069 | 5532 | 5976 | 6420 | 6664 | 7309 | 7753 | 122 | 44 | 3133 |
| 333 | 46 | 3 2793 | 1236 | 1679 | 2122 | 2566 | 3009 | 3452 | 3896 | 4339 | 4783 | 5227 | 6670 | 6114 | 6558 | 7002 | 7446 | 7890 | 154 | 45 | 2 3273 |
| 341 | 46 | 0932 | 1375 | 1816 | 2261 | 2704 | 3147 | 3591 | 4034 | 4476 | 4921 | 5365 | 5808 | 6252 | 6696 | 7140 | 7584 | 6028 | 156 | 45 | 3413 |
| 348 | 47 | 1071 | 1514 | 1957 | 2400 | 2843 | 3286 | 3729 | 4172 | 4616 | 5059 | 5503 | 5946 | 6390 | 5834 | 7278 | 7722 | 8165 | 108 | 47 | 3553 |
| 356 | 46 | 1210 | 1652 | 2095 | 2536 | 2981 | 3424 | 3868 | 4311 | 4754 | 5198 | 5641 | 6085 | 6528 | 6972 | 7412 | 7859 | 6303 | 111 | 48 | 3693 |
| 363 | 49 | 1349 | 1791 | 2234 | 2677 | 3120 | 3563 | 4006 | 4442 | 4893 | 5336 | 6779 | 6223 | 2666 | 7110 | 7554 | 7997 | 8441 | 113 | 49 | 3833 |
| 370 | 50 | 3 1488 | 1930 | 2373 | 2812 | 3259 | 3702 | 4115 | 4568 | 5031 | 5474 | 5918 | 6361 | 6805 | 7248 | 7692 | 5135 | 8579 | 115 | 55 | 2 3974 |
| 378 | 51 | 1627 | 2069 | 2512 | 2955 | 3398 | 3841 | 4283 | 4726 | 5170 | 5613 | 6056 | 2499 | 6943 | 7386 | 7630 | 8273 | 8717 | 116 | 51 | 4114 |
| 365 | 52 | 1766 | 2209 | 2651 | 3094 | 3537 | 3972 | 4422 | 4065 | 5306 | 5751 | 6195 | 6638 | 7081 | 7525 | 7968 | 8411 | 8855 | 120 | 52 | 4254 |
| 323 | 53 | 1905 | 2348 | 2790 | 3233 | 3676 | 4118 | 4561 | 5004 | 5447 | 5890 | 6333 | 6776 | 7290 | 7663 | 8155 | 8549 | 6993 | 122 | 63 | 4325 |
| 400 | 54 | 2045 | 2487 | 2922 | 3372 | 3815 | 4257 | 4700 | 5143 | 5586 | 6029 | 6472 | 6216 | 7358 | 7651 | 6245 | 6688 | 9131 | 125 | 54 | 4535 |
| 427 | 55 | 3 2184 | 2526 | 3069 | 3511 | 3954 | 4396 | 4839 | 5282 | 5724 | 6167 | 6610 | 7053 | 7427 | 7240 | 8383 | 8826 | 9270 | 127 | 55 | 2 4576 |
| 415 | 56 | 2324 | 2766 | 3208 | 3650 | 4893 | 4535 | 4978 | 5421 | 5863 | 6306 | 6749 | 7192 | 7636 | 6078 | 8521 | 8965 | 9408 | 129 | 56 | 4817 |
| 422 | 57 | 2463 | 2905 | 3347 | 3790 | 4232 | 4675 | 5117 | 5560 | 6022 | 6445 | 6888 | 7331 | 7774 | 6217 | 6660 | 9153 | 9547 | 132 | 57 | 4958 |
| 430 | 58 | 2603 | 3045 | 3487 | 3929 | 4372 | 4814 | 5256 | 5699 | 5141 | 6584 | 7027 | 7470 | 7913 | 8356 | 5729 | 9242 | 9685 | 134 | 58 | 5098 |
| 437 | 22 | 2742 | 3184 | 3627 | 4069 | 4511 | 4953 | 5396 | 5838 | 6261 | 6723 | 7165 | 7656 | 8051 | 8494 | 6937 | 9300 | 9824 | 135 | 59 | 5239 |

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**Tabla X: Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 29° | Argumento Auxiliar. 0' | | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 29° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 2 (3) | 5380 | 5821 | 6262 | 6703 | 7144 | 7584 | 8026 | 8467 | 8908 | 2349 | 2791 | 0232 | 0673 | 1115 | 1557 | 1998 | 2440 | 138 | 0' | 8 2811 |
| 7 | 1 | | 5521 | 5962 | 6403 | 6843 | 7284 | 7725 | 8166 | 8607 | 9048 | 2490 | 9931 | 0372 | 0814 | 1255 | 1697 | 2139 | 2580 | 136 | 1 | 2674 |
| 15 | 2 | | 5663 | 6103 | 6544 | 6984 | 7425 | 7866 | 8307 | 8748 | 9189 | 9630 | 0071 | 0513 | 0954 | 1395 | 1837 | 2279 | 2720 | 134 | 2 | 2538 |
| 22 | 3 | | 5804 | 6244 | 6685 | 7125 | 7566 | 8007 | 8448 | 8889 | 9330 | 9771 | 0212 | 0653 | 1094 | 1536 | 1277 | 2419 | 2860 | 132 | 3 | 2401 |
| 29 | 4 | | 5945 | 6385 | 6826 | 7266 | 7707 | 8140 | 8582 | 2629 | 9470 | 2911 | 0352 | 0794 | 1235 | 1676 | 2117 | 2559 | 3060 | 129 | 4 | 2264 |
| 37 | 5 | 2 (3) | 6086 | 6527 | 6967 | 7408 | 7848 | 8289 | 8730 | 9170 | 9611 | 0052 | 0493 | 0934 | 1375 | 1817 | 2258 | 2699 | 3141 | 127 | 5 | 0 2127 |
| 44 | 6 | | 6228 | 6668 | 7108 | 7549 | 7982 | 8430 | 8871 | 9311 | 9752 | 0123 | 0634 | 1075 | 1516 | 1957 | 2398 | 2840 | 3281 | 125 | 6 | 1990 |
| 61 | 7 | | 6362 | 6809 | 7250 | 7690 | 8131 | 8571 | 9012 | 2452 | 9893 | 0334 | 0775 | 1216 | 1657 | 2098 | 2539 | 2980 | 3421 | 122 | 7 | 1853 |
| 59 | 8 | | 6511 | 6951 | 7321 | 7831 | 8272 | 8712 | 9153 | 9523 | 0034 | 0475 | 0915 | 1356 | 1797 | 2238 | 2679 | 3120 | 3562 | 120 | 8 | 1716 |
| 66 | 9 | | 6652 | 7023 | 7533 | 7973 | 8413 | 8853 | 9294 | 9734 | 0175 | 0616 | 1056 | 1497 | 1938 | 2379 | 2820 | 3261 | 3702 | 118 | 9 | 1578 |
| 73 | 10 | 2 (3) | 6794 | 7234 | 7674 | 8114 | 8555 | 8995 | 9435 | 9876 | 0316 | 0757 | 1197 | 1638 | 2079 | 2520 | 2961 | 3402 | 3843 | 115 | 10 | 8 1441 |
| 81 | 11 | | 6236 | 7376 | 7816 | 8256 | 8626 | 2136 | 9577 | 0017 | 0457 | 0898 | 1338 | 1779 | 2220 | 2661 | 3102 | 3543 | 3983 | 113 | 11 | 1303 |
| 88 | 12 | | 7378 | 7518 | 7958 | 8398 | 8838 | 2278 | 9710 | 0158 | 0529 | 1632 | 1480 | 1920 | 2361 | 2802 | 3242 | 3683 | 4124 | 111 | 12 | 1165 |
| 95 | 13 | | 7220 | 7660 | 8092 | 8532 | 8979 | 2419 | 2860 | 0300 | 0740 | 1180 | 1521 | 2061 | 2502 | 2943 | 3383 | 3824 | 4265 | 108 | 13 | 1028 |
| 102 | 14 | | 7362 | 7802 | 8241 | 8681 | 2121 | 9561 | 0001 | 0441 | 0882 | 1322 | 1762 | 2263 | 2643 | 3084 | 3524 | 3965 | 4406 | 106 | 14 | 0891 |
| 110 | 15 | 2 (3) | 7504 | 7944 | 8383 | 8823 | 9263 | 2703 | 0143 | 0583 | 1023 | 1463 | 1904 | 2344 | 2784 | 3225 | 3665 | 4106 | 4547 | 164 | 15 | 8 6753 |
| 117 | 16 | | 7645 | 8086 | 8525 | 8965 | 2405 | 2845 | 0285 | 0725 | 1165 | 1605 | 2045 | 2485 | 2226 | 3366 | 3807 | 4247 | 4688 | 102 | 16 | 0615 |
| 124 | 17 | | 7788 | 8228 | 8667 | 9107 | 9547 | 9987 | 0426 | 0856 | 1305 | 1746 | 2186 | 2627 | 3067 | 3507 | 3948 | 4388 | 4829 | 92 | 17 | 6477 |
| 132 | 18 | | 7931 | 8370 | 8810 | 9242 | 9682 | 6122 | 0568 | 1008 | 1448 | 1888 | 2328 | 2768 | 3209 | 3649 | 4089 | 4530 | 4270 | 97 | 18 | 0339 |
| 139 | 19 | | 8673 | 8512 | 8952 | 2321 | 9831 | 0271 | 0710 | 1150 | 1590 | 2030 | 2470 | 2910 | 3350 | 3790 | 4231 | 4571 | 5111 | 95 | 19 | 0201 |
| 146 | 20 | 2 (3) | 8216 | 8655 | 9024 | 2534 | 9973 | 6413 | 0852 | 1292 | 1732 | 2172 | 2612 | 3052 | 3492 | 3932 | 4372 | 4812 | 5253 | 92 | 20 | 8 0063 |
| 154 | 21 | | 8358 | 8727 | 9237 | 9676 | 0115 | 0555 | 0994 | 1434 | 1874 | 2314 | 2753 | 3193 | 3633 | 4073 | 4514 | 4954 | 5394 | 90 | 21 | 7 9925 |
| 161 | 22 | | 8561 | 8940 | 9379 | 9818 | 0258 | 0697 | 1137 | 1575 | 2016 | 2456 | 2895 | 3335 | 3775 | 4215 | 4655 | 5095 | 5536 | 88 | 22 | 9787 |
| 168 | 23 | | 8643 | 9082 | 2522 | 2961 | 0406 | 0839 | 1279 | 1718 | 2158 | 2598 | 3037 | 3477 | 3917 | 4357 | 4797 | 5237 | 5677 | 85 | 23 | 9649 |
| 176 | 21 | | 8786 | 9225 | 2664 | 0103 | 0543 | 0982 | 1421 | 1861 | 2300 | 2740 | 3172 | 3619 | 4059 | 4499 | 4939 | 5379 | 5819 | 83 | 21 | 9516 |
| 183 | 25 | 2 (3) | 8929 | 2368 | 2807 | 0246 | 0685 | 1124 | 1564 | 2003 | 2442 | 2882 | 3321 | 3761 | 4201 | 4641 | 5080 | 5520 | 5960 | 81 | 25 | 7 2372 |
| 190 | 26 | | 9072 | 9511 | 9950 | 0389 | 0828 | 1267 | 1766 | 2145 | 2585 | 3024 | 3464 | 3963 | 4343 | 4783 | 5222 | 5662 | 6102 | 78 | 26 | 9233 |
| 198 | 27 | | 9215 | 2651 | 0092 | 0531 | 0970 | 1409 | 1049 | 2288 | 2727 | 3166 | 3606 | 4045 | 4485 | 4925 | 5364 | 5804 | 6244 | 76 | 27 | 9095 |
| 265 | 28 | | 9358 | 2797 | 0235 | 0674 | 1113 | 1552 | 1921 | 2430 | 2870 | 3309 | 3748 | 4188 | 4627 | 5067 | 5506 | 5946 | 6386 | 74 | 28 | 8956 |
| 212 | 29 | | 9501 | 9940 | 0378 | 0817 | 1256 | 1695 | 2134 | 2573 | 3012 | 3451 | 3891 | 4330 | 4769 | 5262 | 5648 | 6088 | 6528 | 72 | 29 | 8817 |
| 220 | 30 | 2 (3) | 9644 | 0083 | 0521 | 0960 | 1399 | 1838 | 2277 | 2716 | 3155 | 3594 | 4033 | 4472 | 4912 | 5351 | 5791 | 6230 | 6670 | 69 | 30 | 7 8578 |
| 227 | 31 | | 9787 | 0226 | 0665 | 1103 | 1542 | 1981 | 2412 | 2858 | 3297 | 3737 | 4176 | 4615 | 5054 | 5493 | 5233 | 6372 | 6812 | 67 | 31 | 8532 |
| 234 | 32 | | 9931 | 0369 | 0808 | 1246 | 1685 | 2124 | 2562 | 3001 | 3140 | 3879 | 4318 | 4757 | 5127 | 5636 | 6075 | 6515 | 6954 | 65 | 32 | 8400 |
| 242 | 33 | 3 | 6074 | 0513 | 0961 | 1389 | 1828 | 2267 | 2705 | 3144 | 3583 | 4022 | 4461 | 4900 | 5332 | 5778 | 6218 | 6657 | 7096 | 62 | 33 | 8261 |
| 249 | 34 | | 0218 | 0656 | 1694 | 1533 | 1971 | 2416 | 2849 | 3287 | 3726 | 4165 | 4604 | 5043 | 6482 | 5921 | 6360 | 6799 | 7239 | 60 | 34 | 8122 |
| 256 | 35 | 3 | 0361 | 6800 | 1238 | 1676 | 2115 | 2553 | 2922 | 3430 | 3862 | 4308 | 4747 | 5186 | 5625 | 6064 | 6503 | 6942 | 7381 | 68 | 36 | 7 7983 |
| 263 | 36 | | 0505 | 0943 | 1381 | 1820 | 2258 | 2696 | 3135 | 3573 | 4012 | 4451 | 4890 | 5328 | 5767 | 6206 | 6645 | 7084 | 7524 | 65 | 36 | 7844 |
| 271 | 37 | | 0649 | 1087 | 1525 | 1263 | 2401 | 2840 | 3278 | 3717 | 4155 | 4594 | 5033 | 5471 | 5910 | 6342 | 6788 | 7227 | 7666 | 53 | 37 | 7704 |
| 278 | 38 | | 0723 | 1231 | 1669 | 2107 | 2545 | 2283 | 3421 | 3860 | 4298 | 4737 | 5176 | 5614 | 6053 | 6422 | 6931 | 7370 | 7802 | 51 | 38 | 7565 |
| 285 | 32 | | 0936 | 1374 | 1812 | 2250 | 2688 | 3127 | 3565 | 4003 | 4442 | 4888 | 5319 | 5767 | 6196 | 6635 | 7074 | 7513 | 7952 | 48 | 39 | 7425 |
| 293 | 40 | 3 | 1080 | 1518 | 1956 | 2394 | 2832 | 3270 | 3708 | 4147 | 4585 | 5023 | 5462 | 5900 | 6339 | 6778 | 7217 | 7656 | 0094 | 46 | 40 | 7 7286 |
| 306 | 41 | | 1224 | 1662 | 2100 | 2538 | 2976 | 3414 | 3852 | 4290 | 4728 | 5167 | 5605 | 6014 | 6482 | 6921 | 7360 | 7799 | 8237 | 44 | 41 | 7146 |
| 307 | 42 | | 1368 | 1806 | 2244 | 2682 | 3120 | 3558 | 3296 | 4434 | 4872 | 5316 | 6749 | 5187 | 6625 | 7064 | 7503 | 7942 | 8380 | 42 | 42 | 7006 |
| 315 | 43 | | 1513 | 1250 | 2388 | 2826 | 3264 | 3701 | 4139 | 4577 | 5016 | 5454 | 5822 | 6330 | 6762 | 7267 | 7646 | 8085 | 8623 | 39 | 43 | 6867 |
| 322 | 44 | | 1657 | 2694 | 2532 | 2970 | 3407 | 3845 | 4283 | 4721 | 5159 | 6597 | 6036 | 6474 | 6912 | 7350 | 7789 | 8228 | 8666 | 37 | 44 | 6727 |
| 322 | 46 | 3 | 1861 | 2239 | 2676 | 3114 | 3551 | 3289 | 4427 | 4865 | 5303 | 5741 | 6179 | 6617 | 7056 | 7494 | 7932 | 8371 | 8809 | 35 | 45 | 7 6587 |
| 337 | 46 | | 1946 | 2383 | 2820 | 3258 | 3695 | 4133 | 4571 | 5009 | 5447 | 6885 | 6323 | 6761 | 7129 | 7637 | 8076 | 8514 | 8953 | 32 | 46 | 6447 |
| 344 | 47 | | 2090 | 2527 | 2965 | 3402 | 3840 | 4277 | 4715 | 5153 | 5591 | 6028 | 6466 | 6204 | 7343 | 7781 | 8219 | 0657 | 2096 | 36 | 47 | 6307 |
| 351 | 40 | | 2234 | 2672 | 3109 | 3546 | 3984 | 4421 | 4859 | 5297 | 5734 | 6172 | 6610 | 7048 | 7486 | 7924 | 8363 | 8801 | 2239 | 28 | 48 | 6167 |
| 359 | 49 | | 2379 | 2816 | 3254 | 3621 | 4128 | 4566 | 5003 | 5441 | 5878 | 6316 | 6754 | 7192 | 7630 | 8068 | 8506 | 8944 | 2383 | 25 | 49 | 6026 |
| 366 | 50 | 3 | 2524 | 2961 | 3328 | 3835 | 4273 | 4710 | 5147 | 5585 | 6023 | 6466 | 6828 | 7336 | 7774 | 0212 | 8656 | 9088 | 9526 | 23 | 60 | 7 5886 |
| 373 | 51 | | 2669 | 3106 | 3543 | 3980 | 4417 | 4054 | 5292 | 5729 | 6167 | 6604 | 7042 | 7480 | 7918 | 8356 | 8724 | 2232 | 9670 | 21 | 51 | 5746 |
| 381 | 52 | | 2813 | 3250 | 3687 | 4124 | 4562 | 4992 | 5436 | 5874 | 6311 | 6749 | 7186 | 7624 | 8062 | 8499 | 8237 | 9375 | 9813 | 18 | 52 | 5605 |
| 388 | 53 | | 2958 | 3395 | 3832 | 4269 | 4706 | 5143 | 5581 | 6018 | 6455 | 6823 | 7330 | 7768 | 8206 | 8643 | 2681 | 9512 | 2957 | 16 | 53 | 5465 |
| 395 | 64 | 3 (4) | 3103 | 3540 | 3977 | 4414 | 4851 | 5288 | 5725 | 6162 | 6600 | 7037 | 7475 | 7912 | 8360 | 8787 | 9225 | 9663 | 8101 | 14 | 54 | 5324 |
| 462 | 65 | 3 (4) | 3248 | 3685 | 4122 | 4659 | 4926 | 5433 | 5870 | 6307 | 6744 | 7182 | 7612 | 8056 | 8494 | 8231 | 9369 | 9867 | 0245 | 12 | 55 | 7 5183 |
| 416 | 56 | | 3393 | 3830 | 4267 | 4704 | 5140 | 5677 | 6014 | 6452 | 6889 | 7326 | 7763 | 8201 | 8638 | 2076 | 9513 | 9951 | 0389 | 9 | 66 | 5042 |
| 417 | 57 | | 3539 | 3975 | 4412 | 4849 | 5285 | 5722 | 6159 | 6526 | 7033 | 7470 | 7908 | 0345 | 8782 | 2220 | 9657 | 0095 | 0533 | 7 | 57 | 4902 |
| 424 | 58 | | 3684 | 4120 | 4557 | 4924 | 5430 | 5867 | 6304 | 6741 | 7178 | 7515 | 8052 | 8420 | 8927 | 9364 | 2802 | 0239 | 0677 | 5 | 50 | 4761 |
| 432 | 59 | | 3829 | 4266 | 4702 | 5139 | 5575 | 6012 | 6449 | 6806 | 7323 | 7760 | 8127 | 8634 | 9071 | 9509 | 9946 | 0383 | 0821 | 2 | 59 | 4626 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

| Partes para segundos del Arg. Auxiliar. | 29° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0′ | 3 2882 | 3324 | 3766 | 4208 | 4650 | 5093 | 5535 | 6977 | 6420 | 6862 | 7305 | 7748 | 8190 | 8633 | 9076 | 9519 | 9902 |
| 7 | 1 | 3 (4) 3022 | 3464 | 3906 | 4348 | 4790 | 5232 | 5674 | 6117 | 6559 | 7002 | 7444 | 7887 | 8329 | 8772 | 9215 | 9658 | 0101 |
| 16 | 2 | 3162 | 3604 | 4046 | 4488 | 4230 | 5372 | 5814 | 6256 | 6698 | 7141 | 7583 | 8026 | 8468 | 8911 | 2354 | 2797 | 0240 |
| 22 | 3 | 3302 | 3744 | 4186 | 4627 | 5069 | 5511 | 5954 | 6396 | 6838 | 7280 | 7723 | 8165 | 8608 | 9050 | 9493 | 9936 | 0379 |
| 29 | 4 | 3442 | 3884 | 4325 | 4767 | 5209 | 5651 | 6093 | 6535 | 0977 | 7420 | 7862 | 8364 | 8747 | 9189 | 9632 | 0075 | 6518 |
| 37 | 5 | 3 (4) 3582 | 4024 | 4465 | 4907 | 5349 | 5791 | 6233 | 6675 | 7117 | 7559 | 8001 | 8144 | 8886 | 9329 | 9771 | 0214 | 0657 |
| 44 | 6 | 3722 | 4164 | 4606 | 5047 | 5489 | 5931 | 6373 | 6816 | 7257 | 7699 | 8141 | 0583 | 9026 | 9468 | 9910 | 0353 | 0796 |
| 61 | 7 | 3863 | 4304 | 4746 | 5187 | 5629 | 6071 | 6513 | 6954 | 7396 | 7836 | 8281 | 6723 | 9165 | 9607 | 0050 | 0492 | 0935 |
| 09 | 6 | 4003 | 4444 | 4886 | 5327 | 5769 | 6211 | 6652 | 7094 | 7536 | 7978 | 8420 | 8862 | 9304 | 9747 | 0189 | 0631 | 1074 |
| 06 | 9 | 4144 | 4585 | 5026 | 5468 | 5909 | 6351 | 6792 | 7234 | 7676 | 6118 | 8560 | 9002 | 9444 | 9886 | 0328 | 6771 | 1213 |
| 73 | 10 | 3 (4) 4284 | 4725 | 5167 | 5608 | 6049 | 6491 | 6933 | 7374 | 7816 | 8268 | 8700 | 9142 | 9584 | 0026 | 0468 | 0910 | 1353 |
| 81 | 11 | 4425 | 4866 | 5307 | 5748 | 6190 | 6631 | 7072 | 7514 | 7956 | 8398 | 8840 | 9281 | 9723 | 0165 | 0608 | 1050 | 1492 |
| 60 | 12 | 4565 | 5006 | 5447 | 5889 | 6330 | 6771 | 7213 | 7654 | 6096 | 8538 | 8980 | 9421 | 9863 | 0306 | 6747 | 1189 | 1632 |
| 95 | 13 | 4706 | 5147 | 5588 | 6029 | 6471 | 6912 | 7353 | 7795 | 8236 | 8678 | 9120 | 9561 | 0003 | 0445 | 0887 | 1329 | 1771 |
| 103 | 14 | 4847 | 5288 | 5729 | 6170 | 6611 | 7052 | 7494 | 7935 | 8376 | 8818 | 9260 | 9701 | 0143 | 0685 | 1027 | 1469 | 1911 |
| 110 | 16 | 3 (4) 4988 | 5429 | 5870 | 6311 | 6752 | 7193 | 7634 | 0076 | 0517 | 8958 | 9400 | 9811 | 0283 | 0725 | 1167 | 1609 | 2050 |
| 117 | 16 | 5129 | 5569 | 6010 | 6451 | 6892 | 7333 | 7775 | 8216 | 8657 | 9098 | 9540 | 9981 | 0423 | 0865 | 1307 | 1748 | 2190 |
| 125 | 17 | 5270 | 5710 | 6151 | 0692 | 7033 | 7474 | 7915 | 8356 | 8798 | 9239 | 9680 | 0122 | 0563 | 1005 | 1447 | 1888 | 2330 |
| 132 | 18 | 6411 | 5851 | 6292 | 6733 | 7174 | 7615 | 8056 | 0497 | 0936 | 9379 | 9821 | 0262 | 0704 | 1145 | 1587 | 2026 | 2470 |
| 139 | 19 | 5552 | 5992 | 6433 | 6874 | 7315 | 7756 | 8197 | 6638 | 9079 | 9520 | 9961 | 0402 | 0844 | 1285 | 1727 | 2168 | 2610 |
| 147 | 26 | 3 (4) 5693 | 6134 | 6574 | 7615 | 7456 | 7896 | 8337 | 0778 | 9219 | 9660 | 0102 | 0543 | 0984 | 1426 | 1867 | 2309 | 2750 |
| 154 | 21 | 5834 | 6275 | 6715 | 7156 | 7697 | 8037 | 0470 | 8919 | 9366 | 9801 | 0242 | 0683 | 1125 | 1566 | 2007 | 2449 | 2890 |
| 161 | 22 | 0976 | 6416 | 6857 | 7297 | 7738 | 8178 | 8619 | 9060 | 9501 | 9242 | 6383 | 0824 | 1265 | 1706 | 2148 | 2589 | 3031 |
| 162 | 23 | 6117 | 6558 | 6998 | 7438 | 7879 | 8320 | 0760 | 9201 | 9642 | 0083 | 0624 | 0965 | 1406 | 1847 | 2288 | 2730 | 3171 |
| 176 | 24 | 6259 | 6699 | 7139 | 7580 | 8026 | 8461 | 6901 | 9342 | 9783 | 0224 | 0664 | 1105 | 1546 | 1988 | 2429 | 2870 | 3311 |
| 184 | 25 | 3 (4) 6400 | 6841 | 7281 | 7721 | 8162 | 8602 | 9042 | 9483 | 9924 | 0365 | 0805 | 1216 | 1687 | 2128 | 2569 | 3010 | 3452 |
| 191 | 26 | 6542 | 6982 | 7422 | 7663 | 8303 | 8743 | 9184 | 9624 | 6065 | 0506 | 6946 | 1387 | 1826 | 2269 | 2716 | 3151 | 3592 |
| 198 | 27 | 6684 | 7124 | 7564 | 8064 | 6444 | 8885 | 9325 | 9766 | 6206 | 0647 | 1087 | 1528 | 1962 | 2410 | 2851 | 3292 | 3733 |
| 206 | 28 | 6826 | 7266 | 7706 | 8146 | 8586 | 9026 | 9466 | 9907 | 0347 | 0788 | 1228 | 1669 | 2110 | 2651 | 2992 | 3433 | 3874 |
| 213 | 29 | 6968 | 7408 | 7847 | 6287 | 8728 | 9168 | 9608 | 0048 | 6489 | 6922 | 1370 | 1816 | 2251 | 2692 | 3132 | 3673 | 4014 |
| 226 | 30 | 3 (4) 7110 | 7549 | 7989 | 8429 | 6869 | 9309 | 9749 | 6190 | 0636 | 1076 | 1611 | 1951 | 2392 | 2833 | 3273 | 3714 | 4155 |
| 228 | 31 | 7252 | 7691 | 8131 | 6571 | 9011 | 9451 | 9091 | 0331 | 0771 | 1212 | 1662 | 2093 | 2533 | 2974 | 3414 | 3855 | 4296 |
| 235 | 32 | 7394 | 7833 | 8273 | 8713 | 2163 | 9593 | 6033 | 6473 | 6913 | 1353 | 1794 | 2234 | 2674 | 3116 | 3556 | 3296 | 1437 |
| 242 | 33 | 7536 | 7970 | 8415 | 8855 | 2295 | 9736 | 0174 | 0615 | 1055 | 1425 | 1935 | 2370 | 2816 | 3256 | 3697 | 4137 | 4578 |
| 250 | 34 | 7678 | 6118 | 8557 | 8997 | 9437 | 9876 | 6316 | 6756 | 1196 | 1630 | 2077 | 2517 | 2957 | 3398 | 3838 | 4270 | 4719 |
| 257 | 35 | 3 (4) 7821 | 8260 | 8700 | 9139 | 9579 | 0018 | 0458 | 0898 | 1338 | 1776 | 2218 | 2658 | 3099 | 3539 | 3979 | 4420 | 4860 |
| 204 | 36 | 7963 | 8402 | 8042 | 9281 | 9721 | 0161 | 0600 | 1040 | 1480 | 1920 | 2360 | 2806 | 3240 | 3680 | 4121 | 4561 | 5002 |
| 272 | 37 | 8106 | 8545 | 8984 | 9424 | 9863 | 0303 | 6742 | 1182 | 1622 | 2062 | 2602 | 2942 | 3302 | 3822 | 4262 | 4702 | 5143 |
| 279 | 38 | 8248 | 8687 | 9127 | 9566 | 0005 | 0445 | 0084 | 1324 | 1764 | 2204 | 2643 | 3083 | 3523 | 3964 | 4404 | 4844 | 6264 |
| 286 | 39 | 8391 | 8830 | 9269 | 9708 | 0148 | 0687 | 1027 | 1466 | 1906 | 2340 | 2785 | 3225 | 3665 | 4105 | 4545 | 4985 | 5426 |
| 294 | 40 | 3 (4) 8533 | 8972 | 9412 | 9851 | 0290 | 0729 | 1169 | 1608 | 2048 | 2488 | 2927 | 3367 | 3807 | 4247 | 4687 | 5127 | 5567 |
| 301 | 41 | 8676 | 9115 | 9554 | 9993 | 0433 | 0872 | 1311 | 1751 | 2120 | 2630 | 3069 | 3509 | 3949 | 4309 | 4829 | 5269 | 5709 |
| 368 | 42 | 8812 | 9268 | 9697 | 6136 | 0670 | 1014 | 1454 | 1093 | 2332 | 2772 | 3212 | 3651 | 4091 | 4531 | 4971 | 5416 | 5851 |
| 316 | 43 | 8962 | 9461 | 9840 | 0279 | 0718 | 1157 | 1696 | 2036 | 2475 | 2914 | 3354 | 3793 | 4233 | 4673 | 5113 | 5552 | 5992 |
| 323 | 44 | 9105 | 9544 | 9983 | 0422 | 0860 | 1300 | 1739 | 2178 | 2617 | 3057 | 3496 | 3936 | 4375 | 4016 | 5265 | 5694 | 6134 |
| 330 | 45 | 3 (4) 9248 | 9687 | 0126 | 0564 | 1003 | 1442 | 1881 | 2320 | 2760 | 3199 | 3636 | 4078 | 4517 | 4957 | 5397 | 6836 | 6276 |
| 338 | 46 | 9391 | 9830 | 0269 | 0707 | 1146 | 1585 | 2024 | 2463 | 2902 | 3342 | 3781 | 4226 | 4600 | 6699 | 5539 | 5978 | 6418 |
| 345 | 47 | 9534 | 9273 | 0412 | 0856 | 1262 | 1728 | 2167 | 2606 | 3645 | 3484 | 3923 | 4363 | 4802 | 0241 | 5681 | 6126 | 6560 |
| 362 | 48 | 9678 | 6116 | 0555 | 0993 | 1432 | 1871 | 2310 | 2749 | 3188 | 3627 | 4066 | 4565 | 4944 | 5384 | 5823 | 6203 | 6702 |
| 360 | 49 | 9821 | 6259 | 6628 | 1136 | 1575 | 2014 | 2453 | 2891 | 3330 | 3769 | 4208 | 4648 | 5087 | 0526 | 5965 | 6465 | 6844 |
| 367 | 66 | 3 (4) 9964 | 0463 | 0841 | 1280 | 1710 | 2157 | 2596 | 3034 | 3473 | 3912 | 4361 | 4790 | 5222 | 5669 | 6106 | 6547 | 6967 |
| 374 | 51 | 4 6108 | 0646 | 6985 | 1423 | 1861 | 2366 | 2732 | 3177 | 3616 | 4055 | 4494 | 4933 | 5372 | 5811 | 6250 | 6690 | 7122 |
| 302 | 02 | 6252 | 0690 | 1128 | 1666 | 2665 | 2443 | 2062 | 3326 | 3759 | 4128 | 4637 | 5676 | 5515 | 5954 | 6323 | 6832 | 7271 |
| 389 | 03 | 6320 | 0633 | 1272 | 1710 | 2148 | 2566 | 3625 | 3464 | 3902 | 4341 | 4760 | 5218 | 6657 | 6696 | 6536 | 0975 | 7414 |
| 320 | 04 | 6539 | 0977 | 1415 | 1853 | 2292 | 2736 | 3168 | 3667 | 4045 | 4404 | 4923 | 5301 | 6060 | 6239 | 6670 | 7117 | 7056 |
| 464 | 65 | 4 0603 | 1121 | 1559 | 1997 | 2436 | 2873 | 3312 | 3756 | 4168 | 4627 | 5066 | 5504 | 5943 | 6382 | 6821 | 7200 | 7629 |
| 411 | 06 | 0827 | 1264 | 1762 | 2140 | 2579 | 3617 | 3455 | 3823 | 4332 | 4770 | 5262 | 5648 | 6006 | 6525 | 6904 | 7463 | 7842 |
| 418 | 07 | 6971 | 1408 | 1846 | 2284 | 2722 | 3160 | 3599 | 4037 | 4475 | 4914 | 6352 | 5721 | 6229 | 6608 | 7107 | 7540 | 7984 |
| 426 | 58 | 1115 | 1552 | 1996 | 2420 | 2860 | 3304 | 3742 | 4100 | 4619 | 6057 | 5425 | 5934 | 6372 | 6011 | 7250 | 7606 | 6127 |
| 433 | 09 | 1259 | 1696 | 2134 | 2572 | 3016 | 3448 | 3886 | 4324 | 4762 | 5260 | 6632 | 6077 | 6516 | 6904 | 7393 | 7831 | 8270 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 29° | Núm. |
|---|---|---|
| 0 | 6′ | 2 6386 |
| 2 | 1 | 0521 |
| 5 | 2 | 6662 |
| 7 | 3 | 5864 |
| 10 | 4 | 6945 |
| 12 | 0 | 2 6086 |
| 14 | 6 | 6228 |
| 17 | 7 | 6369 |
| 19 | 8 | 6511 |
| 22 | 9 | 6653 |
| 24 | 10 | 2 6794 |
| 26 | 11 | 6930 |
| 29 | 12 | 7078 |
| 31 | 13 | 7220 |
| 33 | 14 | 7362 |
| 36 | 15 | 2 7564 |
| 38 | 16 | 7646 |
| 41 | 17 | 7788 |
| 43 | 10 | 7931 |
| 45 | 19 | 6073 |
| 48 | 20 | 2 8216 |
| 50 | 21 | 8358 |
| 53 | 22 | 0501 |
| 55 | 23 | 8643 |
| 57 | 24 | 6786 |
| 60 | 25 | 2 8929 |
| 62 | 26 | 9072 |
| 65 | 27 | 9216 |
| 67 | 28 | 9358 |
| 69 | 29 | 9501 |
| 72 | 30 | 2 9644 |
| 74 | 31 | 9788 |
| 77 | 32 | 9931 |
| 79 | 33 | 3 6074 |
| 61 | 34 | 0218 |
| 84 | 36 | 3 0361 |
| 86 | 36 | 0500 |
| 88 | 37 | 0649 |
| 91 | 38 | 6723 |
| 93 | 39 | 6936 |
| 96 | 46 | 3 1080 |
| 98 | 41 | 1224 |
| 100 | 42 | 1368 |
| 103 | 43 | 1513 |
| 165 | 44 | 1657 |
| 108 | 45 | 3 1801 |
| 110 | 46 | 1916 |
| 112 | 47 | 2020 |
| 115 | 46 | 2235 |
| 117 | 49 | 2379 |
| 126 | 56 | 3 2524 |
| 122 | 51 | 2669 |
| 124 | 52 | 2813 |
| 127 | 03 | 2968 |
| 129 | 54 | 3163 |
| 132 | 05 | 3 3248 |
| 134 | 56 | 3393 |
| 136 | 07 | 3539 |
| 139 | 58 | 3684 |
| 141 | 52 | 3629 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 30° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 30° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 3 (4) 3975 | 4411 | 4647 | 5284 | 5721 | 6157 | 6524 | 7031 | 7468 | 7905 | 8342 | 8779 | 9216 | 9653 | 6890 | 0528 | 0965 | 143 | 0' | 7 4479 |
| 7 | 1 | 4126 | 4556 | 4993 | 5429 | 5866 | 6302 | 6739 | 7176 | 7613 | 8049 | 8486 | 8923 | 2360 | 2728 | 0235 | 0672 | 1110 | 141 | 1 | 4330 |
| 15 | 2 | 4266 | 4782 | 5138 | 5574 | 6011 | 6447 | 6884 | 7321 | 7758 | 8194 | 8631 | 9068 | 9505 | 9942 | 0372 | 0817 | 1254 | 132 | 2 | 4196 |
| 22 | 3 | 4411 | 4847 | 5284 | 5720 | 6156 | 6593 | 7029 | 7466 | 7903 | 8339 | 8776 | 9213 | 9650 | 0087 | 6524 | 0961 | 1328 | 136 | 3 | 4055 |
| 29 | 4 | 4557 | 4993 | 5429 | 5865 | 6392 | 6738 | 7174 | 7611 | 8048 | 8484 | 8921 | 9358 | 9795 | 6232 | 0669 | 1106 | 1543 | 134 | 4 | 3914 |
| 36 | 5 | 3 (4) 4703 | 5138 | 5575 | 6811 | 6447 | 6883 | 7320 | 7756 | 8193 | 8629 | 9066 | 9503 | 9940 | 0376 | 0813 | 1250 | 1687 | 132 | 5 | 7 3772 |
| 44 | 6 | 4849 | 5284 | 5728 | 6157 | 6593 | 7029 | 7465 | 7902 | 8338 | 8775 | 9211 | 9648 | 0085 | 0521 | 0958 | 1325 | 1832 | 129 | 6 | 3631 |
| 51 | 7 | 4995 | 5438 | 5866 | 6302 | 6738 | 7175 | 7611 | 8047 | 8483 | 8920 | 9356 | 2793 | 0230 | 0666 | 1103 | 1540 | 1977 | 127 | 7 | 3489 |
| 58 | 8 | 5141 | 5576 | 6012 | 6448 | 6864 | 7320 | 7756 | 8192 | 8629 | 9065 | 9502 | 2938 | 0375 | 0811 | 1240 | 1665 | 2122 | 124 | 8 | 3347 |
| 65 | 9 | 5287 | 5722 | 6158 | 6594 | 7030 | 7466 | 7902 | 8338 | 8774 | 9211 | 9647 | 0083 | 0520 | 0958 | 1393 | 1830 | 2267 | 122 | 9 | 3208 |
| 73 | 10 | 3 (4) 5433 | 5868 | 6304 | 6740 | 7176 | 7612 | 8048 | 8484 | 8920 | 9356 | 9792 | 0229 | 0665 | 1102 | 1536 | 1276 | 2412 | 120 | 10 | 7 3064 |
| 80 | 11 | 5579 | 6014 | 6450 | 6886 | 7322 | 7757 | 8193 | 8629 | 9065 | 9502 | 9938 | 0374 | 0810 | 1247 | 1683 | 2120 | 2557 | 117 | 11 | 2922 |
| 87 | 12 | 5725 | 6161 | 6596 | 7032 | 7468 | 7903 | 8339 | 8775 | 9211 | 9647 | 0083 | 0520 | 0256 | 1392 | 1829 | 2265 | 2702 | 115 | 12 | 2780 |
| 94 | 13 | 5871 | 6307 | 6742 | 7178 | 7614 | 8049 | 8485 | 8921 | 9357 | 9793 | 0229 | 0665 | 1101 | 1538 | 1974 | 2410 | 2847 | 112 | 13 | 2638 |
| 102 | 14 | 6018 | 6453 | 6889 | 7324 | 7760 | 8195 | 8631 | 9067 | 9503 | 9939 | 0375 | 0811 | 1247 | 1683 | 2119 | 2556 | 2992 | 116 | 14 | 2426 |
| 109 | 15 | 3 (4) 6164 | 6600 | 7035 | 7470 | 7206 | 8341 | 8777 | 9213 | 9649 | 0085 | 0526 | 0956 | 1392 | 1829 | 2265 | 2701 | 3137 | 106 | 15 | 7 2354 |
| 116 | 16 | 6311 | 6746 | 7182 | 7617 | 8652 | 8488 | 8923 | 9359 | 9795 | 0230 | 0666 | 1102 | 1538 | 1974 | 2410 | 2847 | 3283 | 105 | 16 | 2212 |
| 123 | 17 | 6458 | 6893 | 7328 | 7763 | 8199 | 8634 | 9069 | 9505 | 9941 | 0376 | 0812 | 1248 | 1664 | 2120 | 2556 | 2222 | 3428 | 103 | 17 | 2069 |
| 131 | 16 | 6604 | 7039 | 7475 | 7910 | 8345 | 8780 | 9216 | 9651 | 0087 | 0522 | 0958 | 1324 | 1830 | 2266 | 2702 | 3138 | 3574 | 100 | 16 | 1927 |
| 138 | 19 | 6751 | 7186 | 7621 | 8056 | 8492 | 8927 | 9362 | 9797 | 0233 | 0669 | 1184 | 1540 | 1276 | 2412 | 2847 | 3283 | 3719 | 98 | 19 | 1784 |
| 145 | 20 | 3 (4) 6898 | 7333 | 7768 | 8203 | 8638 | 9073 | 9509 | 9944 | 0379 | 0815 | 1250 | 1686 | 2122 | 2557 | 2993 | 3429 | 3865 | 96 | 20 | 7 1642 |
| 152 | 21 | 7045 | 7480 | 7915 | 8356 | 8785 | 9220 | 9655 | 0090 | 0526 | 6961 | 1396 | 1832 | 2268 | 2703 | 3139 | 3575 | 4011 | 93 | 21 | 1499 |
| 160 | 22 | 7192 | 7627 | 8662 | 8496 | 8932 | 2366 | 9802 | 6237 | 6672 | 1107 | 1543 | 1978 | 2414 | 2849 | 3285 | 3721 | 4157 | 91 | 22 | 1357 |
| 167 | 23 | 7339 | 7774 | 8269 | 8643 | 9078 | 9513 | 9948 | 0383 | 6819 | 1254 | 1689 | 2124 | 2560 | 2996 | 3431 | 3867 | 4303 | 88 | 23 | 1214 |
| 174 | 24 | 7486 | 7921 | 8356 | 8790 | 9225 | 9666 | 0095 | 0530 | 6965 | 1400 | 1836 | 2271 | 2706 | 3142 | 3577 | 4013 | 4449 | 86 | 24 | 1071 |
| 181 | 25 | 3 (4) 7633 | 8668 | 8503 | 8937 | 9372 | 9807 | 0242 | 0677 | 1112 | 1547 | 1982 | 2417 | 2853 | 3268 | 3723 | 4159 | 4595 | 84 | 25 | 7 0928 |
| 189 | 26 | 7781 | 8215 | 8650 | 9084 | 9519 | 2954 | 8389 | 0824 | 1258 | 1693 | 2129 | 2564 | 2999 | 3434 | 3870 | 4305 | 4741 | 81 | 26 | 0785 |
| 196 | 27 | 7928 | 8363 | 8797 | 9232 | 9666 | 0101 | 0536 | 0976 | 1405 | 1840 | 2275 | 2710 | 3146 | 3581 | 4016 | 4451 | 4687 | 79 | 27 | 0642 |
| 203 | 28 | 6876 | 8510 | 8944 | 9379 | 9813 | 8248 | 0683 | 1117 | 1552 | 1987 | 2422 | 2857 | 3292 | 3727 | 4163 | 4598 | 5033 | 77 | 28 | 0499 |
| 210 | 29 | 8223 | 8657 | 9692 | 9526 | 9961 | 8395 | 0830 | 1264 | 1699 | 2134 | 2569 | 3004 | 3439 | 3674 | 4309 | 4744 | 5180 | 74 | 29 | 0356 |
| 218 | 30 | 3 (4) 8371 | 8605 | 9239 | 9674 | 0168 | 6542 | 6977 | 1411 | 1846 | 2281 | 2716 | 3150 | 3585 | 4026 | 4456 | 4891 | 5326 | 72 | 30 | 7 0212 |
| 225 | 31 | 8518 | 8953 | 9367 | 9821 | 0255 | 0696 | 1124 | 1559 | 1923 | 2428 | 2863 | 3297 | 3732 | 4167 | 4602 | 5037 | 5472 | 69 | 31 | 6669 |
| 232 | 32 | 8666 | 9100 | 9534 | 9968 | 0403 | 6837 | 1271 | 1766 | 2140 | 2575 | 3010 | 3444 | 3879 | 4314 | 4749 | 5184 | 5619 | 67 | 32 | 6 9926 |
| 239 | 33 | 8614 | 9248 | 9682 | 0116 | 0550 | 0964 | 1419 | 1853 | 2287 | 2722 | 3157 | 3591 | 4826 | 4461 | 4896 | 5331 | 5766 | 65 | 33 | 9762 |
| 247 | 34 | 8962 | 9396 | 9830 | 0264 | 0698 | 1132 | 1566 | 2660 | 2435 | 2669 | 3364 | 3738 | 4173 | 4608 | 5043 | 5477 | 5912 | 62 | 34 | 9639 |
| 254 | 35 | 3 (4) 9110 | 9544 | 9976 | 0411 | 0845 | 1260 | 1714 | 2146 | 2582 | 3017 | 3451 | 3886 | 4320 | 4755 | 5189 | 5624 | 6859 | 66 | 35 | 6 9495 |
| 261 | 36 | 9258 | 9692 | 0126 | 0659 | 0993 | 1427 | 1861 | 2295 | 2730 | 3164 | 3598 | 4633 | 4467 | 4202 | 5336 | 6771 | 6266 | 57 | 36 | 9351 |
| 268 | 37 | 9406 | 9840 | 0274 | 0707 | 1141 | 1576 | 2009 | 2443 | 2877 | 3311 | 3746 | 4168 | 4614 | 5049 | 5484 | 5918 | 6353 | 55 | 37 | 2207 |
| 276 | 38 | 9554 | 9988 | 6422 | 0855 | 1289 | 1723 | 2157 | 2521 | 3025 | 3459 | 3893 | 4327 | 4782 | 5196 | 5631 | 6065 | 6500 | 53 | 38 | 9063 |
| 283 | 39 | 9762 | 0136 | 0570 | 1003 | 1437 | 1871 | 2304 | 2736 | 3172 | 3606 | 4041 | 4475 | 4909 | 5343 | 5776 | 6212 | 6647 | 56 | 32 | 8919 |
| 290 | 46 | 3 (4) 2851 | 0284 | 0718 | 1151 | 1585 | 2612 | 2452 | 2886 | 3320 | 3754 | 4188 | 4622 | 5056 | 5491 | 5925 | 6360 | 6724 | 48 | 40 | 6 8775 |
| 297 | 41 | 9999 | 6433 | 0866 | 1299 | 1733 | 2167 | 2606 | 3634 | 3468 | 3902 | 4336 | 4778 | 5264 | 5638 | 6073 | 6567 | 6941 | 45 | 41 | 8631 |
| 305 | 42 | 4 0148 | 0581 | 1014 | 1448 | 1681 | 2315 | 2748 | 3182 | 3616 | 4850 | 4484 | 4918 | 5352 | 5786 | 6226 | 6654 | 7689 | 43 | 42 | 8487 |
| 312 | 43 | 0296 | 0729 | 1163 | 1596 | 2029 | 2463 | 2096 | 3330 | 3764 | 4197 | 4631 | 5065 | 5499 | 5933 | 6367 | 6062 | 7236 | 41 | 43 | 8343 |
| 319 | 44 | 0445 | 0878 | 1311 | 1744 | 2178 | 2611 | 3045 | 3478 | 3912 | 4345 | 4779 | 5213 | 5647 | 6061 | 6515 | 6942 | 7383 | 36 | 44 | 8199 |
| 326 | 45 | 4 0594 | 1027 | 1460 | 1893 | 2326 | 2759 | 3193 | 3626 | 4060 | 4493 | 4927 | 5361 | 5795 | 6229 | 6663 | 7097 | 7531 | 36 | 45 | 6 8654 |
| 334 | 46 | 0742 | 1175 | 1608 | 2041 | 2475 | 2908 | 3341 | 3775 | 4208 | 4642 | 6076 | 5509 | 5943 | 6376 | 6810 | 7244 | 7678 | 33 | 46 | 7910 |
| 341 | 47 | 0691 | 1324 | 1757 | 2190 | 2623 | 3056 | 3496 | 3923 | 4356 | 4790 | 5223 | 5657 | 6091 | 6524 | 6958 | 7392 | 7826 | 31 | 47 | 7765 |
| 348 | 48 | 1640 | 1473 | 1906 | 2339 | 2772 | 3205 | 3638 | 4071 | 4565 | 4938 | 5371 | 5605 | 6239 | 6672 | 7106 | 7540 | 7974 | 29 | 48 | 7621 |
| 355 | 49 | 1189 | 1622 | 2055 | 2487 | 2920 | 3363 | 3787 | 4220 | 4653 | 5066 | 5520 | 5953 | 6387 | 6620 | 7254 | 7688 | 8121 | 26 | 49 | 7476 |
| 362 | 50 | 4 1338 | 1771 | 2203 | 2636 | 3069 | 3502 | 3935 | 4368 | 4801 | 5235 | 5668 | 6101 | 6535 | 6968 | 7402 | 7836 | 8262 | 24 | 66 | 6 7331 |
| 370 | 61 | 1487 | 1920 | 2352 | 2785 | 3218 | 3651 | 4084 | 4517 | 4950 | 5383 | 5616 | 6250 | 6683 | 7116 | 7550 | 7984 | 8417 | 22 | 61 | 7167 |
| 377 | 52 | 1636 | 2069 | 2501 | 2934 | 3367 | 3808 | 4233 | 4666 | 5099 | 5532 | 5265 | 6398 | 6831 | 7265 | 7698 | 8132 | 8565 | 19 | 52 | 7042 |
| 384 | 53 | 1786 | 2218 | 2651 | 3083 | 3516 | 3949 | 4381 | 4814 | 5247 | 5680 | 6113 | 6546 | 6980 | 7413 | 7846 | 6280 | 8713 | 17 | 53 | 6897 |
| 392 | 54 | 1935 | 2367 | 2800 | 3232 | 3665 | 4098 | 4530 | 4963 | 5396 | 5029 | 6262 | 6696 | 7128 | 7561 | 7995 | 8426 | 8861 | 14 | 54 | 6752 |
| 399 | 55 | 4 2084 | 2517 | 2949 | 3382 | 3814 | 4247 | 4679 | 5112 | 5545 | 6978 | 6411 | 6844 | 7277 | 7710 | 8143 | 8576 | 9010 | 12 | 66 | 6 6607 |
| 406 | 66 | 2234 | 2666 | 3098 | 3531 | 3963 | 4396 | 4828 | 5261 | 5694 | 6126 | 6569 | 6992 | 7426 | 7858 | 8291 | 6726 | 9158 | 10 | 56 | 6461 |
| 413 | 57 | 2384 | 2816 | 3248 | 3680 | 4112 | 4545 | 4977 | 5410 | 5843 | 6275 | 6708 | 7141 | 7574 | 6007 | 8440 | 8873 | 9306 | 7 | 57 | 6316 |
| 421 | 58 | 2533 | 2965 | 3397 | 3829 | 4262 | 4694 | 5127 | 5559 | 5992 | 6424 | 6857 | 7290 | 7723 | 8166 | 6589 | 9022 | 9465 | 5 | 58 | 6171 |
| 428 | 59 | 2683 | 3115 | 3547 | 3979 | 4411 | 4844 | 5276 | 5708 | 6141 | 6673 | 7606 | 7439 | 7871 | 8304 | 8737 | 9170 | 9603 | 2 | 69 | 6025 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia sparente. . . . } y el Argumento Auxiliar. | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 30° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 30° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 4 1403 | 1840 | 2278 | 2716 | 3154 | 3592 | 4830 | 4468 | 4006 | 5344 | 5789 | 6220 | 6659 | 7007 | 7536 | 7975 | 8413 | 0 | 0′ | 3 3975 |
| 7 | 1 | 1547 | 1084 | 2422 | 2860 | 3208 | 3735 | 4173 | 4611 | 5040 | 5487 | 5026 | 6364 | 6802 | 7241 | 7670 | 8118 | 8556 | 2 | 1 | 4120 |
| 15 | 2 | 1691 | 2129 | 2566 | 3004 | 3442 | 3872 | 4317 | 1755 | 5193 | 5631 | 6069 | 6307 | 6946 | 7384 | 7822 | 8261 | 8609 | 5 | 2 | 4265 |
| 22 | 3 | 1836 | 2273 | 2711 | 3148 | 3586 | 4023 | 4461 | 4809 | 5337 | 5775 | 6213 | 6651 | 7089 | 7527 | 7966 | 8404 | 8843 | 7 | 3 | 4411 |
| 29 | 4 | 1080 | 2417 | 2855 | 3292 | 3730 | 4167 | 4605 | 5043 | 5481 | 5919 | 6357 | 6795 | 7233 | 7671 | 8100 | 8547 | 8986 | 10 | 4 | 4557 |
| 36 | 5 | 4 2125 | 2562 | 2990 | 3437 | 3874 | 4312 | 4740 | 5187 | 5625 | 6062 | 6500 | 6938 | 7376 | 7814 | 8253 | 8691 | 0120 | 19 | 5 | 3 4703 |
| 44 | 6 | 2269 | 2706 | 3144 | 3581 | 4018 | 4456 | 4803 | 5331 | 5769 | 6206 | 6644 | 7082 | 7520 | 7958 | 8396 | 8834 | 9973 | 15 | 3 | 4840 |
| 51 | 7 | 2414 | 2851 | 3208 | 3725 | 4163 | 4600 | 5038 | 5475 | 5913 | 6350 | 6788 | 7226 | 7664 | 8102 | 8540 | 8978 | 9416 | 17 | 7 | 4995 |
| 58 | 8 | 2550 | 9996 | 3433 | 3870 | 4307 | 4744 | 5182 | 5612 | 6057 | 6494 | 6932 | 7370 | 7808 | 8246 | 8684 | 9122 | 9560 | 20 | 8 | 5141 |
| 65 | 9 | 2703 | 3140 | 3577 | 4015 | 4452 | 4882 | 5326 | 5764 | 6201 | 6630 | 7076 | 7514 | 7952 | 8389 | 8827 | 9265 | 9703 | 22 | 9 | 5287 |
| 73 | 10 | 4 2848 | 3285 | 3722 | 4159 | 4505 | 5033 | 5471 | 5008 | 6345 | 6783 | 7220 | 7658 | 8006 | 8533 | 8971 | 9409 | 9847 | 25 | 10 | 3 5433 |
| 80 | 11 | 2993 | 3430 | 3867 | 4304 | 4741 | 5178 | 5615 | 6052 | 6490 | 6027 | 7365 | 7802 | 8240 | 8677 | 9115 | 9553 | 9991 | 27 | 11 | 5570 |
| 87 | 12 | 4 (5) 3138 | 3575 | 4012 | 4449 | 4886 | 5323 | 5760 | 6197 | 6634 | 7071 | 7500 | 7946 | 8384 | 8821 | 9250 | 9697 | 0135 | 29 | 12 | 5725 |
| 95 | 13 | 3283 | 3720 | 4157 | 4594 | 5030 | 5467 | 5904 | 6342 | 6779 | 7216 | 7653 | 8001 | 8528 | 8966 | 0403 | 0841 | 0270 | 32 | 13 | 5879 |
| 102 | 14 | 3420 | 3865 | 4302 | 4730 | 5175 | 5619 | 6049 | 6486 | 6023 | 7360 | 7798 | 8235 | 8672 | 9110 | 9547 | 9005 | 0423 | 34 | 14 | 6018 |
| 109 | 15 | 4 (5) 3574 | 4010 | 4447 | 4884 | 5320 | 5757 | 6104 | 6631 | 7068 | 7505 | 7942 | 8370 | 8817 | 9254 | 9699 | 0129 | 0567 | 37 | 15 | 3 3164 |
| 113 | 16 | 3710 | 4156 | 4502 | 5029 | 5465 | 5009 | 6339 | 6776 | 7213 | 7650 | 8087 | 8524 | 8061 | 9398 | 0836 | 0273 | 0711 | 39 | 16 | 6311 |
| 124 | 17 | 3865 | 4301 | 4737 | 5174 | 5610 | 6047 | 6484 | 6921 | 7357 | 7794 | 8231 | 8668 | 9106 | 9543 | 9980 | 0417 | 0855 | 42 | 17 | 6458 |
| 131 | 18 | 4010 | 4146 | 4883 | 5319 | 5756 | 6192 | 6629 | 7066 | 7502 | 7930 | 8376 | 8813 | 9250 | 0687 | 0125 | 0562 | 0900 | 44 | 18 | 6604 |
| 138 | 19 | 4156 | 1592 | 5028 | 5464 | 5901 | 6337 | 6774 | 7211 | 7647 | 8084 | 8521 | 8958 | 0305 | 9832 | 0269 | 0706 | 1144 | 47 | 19 | 3751 |
| 145 | 20 | 4 (5) 4301 | 4737 | 5174 | 5610 | 6046 | 6483 | 6919 | 7356 | 7702 | 8229 | 8666 | 0103 | 9540 | 9977 | 0414 | 0851 | 1288 | 49 | 20 | 3 6898 |
| 153 | 21 | 4447 | 1883 | 5319 | 5755 | 6192 | 6628 | 7064 | 7501 | 7937 | 8374 | 8811 | 9247 | 9684 | 0191 | 0558 | 0095 | 1432 | 52 | 21 | 7045 |
| 130 | 22 | 4593 | 5029 | 5465 | 5001 | 6337 | 6773 | 7210 | 7646 | 8083 | 8510 | 8956 | 0392 | 9829 | 0266 | 0703 | 1140 | 1577 | 54 | 22 | 7192 |
| 137 | 23 | 4730 | 5174 | 5310 | 6046 | 6483 | 6010 | 7355 | 7791 | 8228 | 8664 | 0101 | 0537 | 9974 | 0411 | 0848 | 1285 | 1722 | 57 | 93 | 7339 |
| 174 | 24 | 4884 | 5320 | 5756 | 6192 | 6628 | 7064 | 7500 | 7937 | 8373 | 8809 | 9246 | 9683 | 0119 | 0556 | 0093 | 1420 | 1866 | 59 | 24 | 7486 |
| 182 | 25 | 4 (5) 5030 | 5466 | 5902 | 6338 | 6774 | 7210 | 7646 | 8082 | 8518 | 8955 | 9391 | 0828 | 0264 | 0701 | 1138 | 1574 | 2011 | 62 | 25 | 3 7634 |
| 189 | 26 | 5176 | 5612 | 6048 | 6484 | 6020 | 7356 | 7792 | 8228 | 8664 | 9100 | 0537 | 9073 | 0400 | 0846 | 1283 | 1710 | 2156 | 64 | 26 | 7781 |
| 196 | 27 | 5322 | 5758 | 6194 | 6630 | 7065 | 7501 | 7937 | 8373 | 8809 | 9246 | 9682 | 0118 | 0555 | 0991 | 1428 | 1864 | 2301 | 66 | 97 | 7928 |
| 204 | 28 | 5469 | 5904 | 6340 | 6776 | 7211 | 7647 | 8083 | 8519 | 8055 | 9301 | 0827 | 0264 | 0700 | 1136 | 1573 | 2000 | 2446 | 69 | 28 | 8076 |
| 211 | 29 | 5615 | 6050 | 6486 | 6922 | 7357 | 7793 | 8229 | 8665 | 0101 | 9537 | 9973 | 0400 | 0845 | 1282 | 1718 | 2154 | 2501 | 71 | 29 | 8223 |
| 218 | 30 | 4 (5) 5761 | 6197 | 6632 | 7068 | 7503 | 7939 | 8375 | 8811 | 9246 | 9602 | 0118 | 0555 | 0991 | 1427 | 1863 | 2300 | 2736 | 74 | 30 | 3 8371 |
| 225 | 31 | 5908 | 6343 | 6778 | 7214 | 7649 | 8085 | 8521 | 8056 | 0392 | 0828 | 0264 | 0700 | 1136 | 1572 | 2009 | 2445 | 2881 | 76 | 31 | 8519 |
| 233 | 32 | 6054 | 6489 | 6925 | 7360 | 7796 | 8231 | 8667 | 0102 | 9538 | 9974 | 0410 | 0846 | 1282 | 1718 | 2154 | 2590 | 3027 | 79 | 32 | 8666 |
| 240 | 33 | 3201 | 6636 | 7071 | 7506 | 7042 | 8377 | 8813 | 0248 | 9684 | 0120 | 0556 | 0991 | 1427 | 1863 | 2300 | 2736 | 3172 | 81 | 33 | 8814 |
| 247 | 34 | 6347 | 6782 | 7218 | 7653 | 8088 | 8523 | 8959 | 0304 | 9830 | 0266 | 0701 | 1137 | 1573 | 2000 | 2445 | 2881 | 3317 | 84 | 34 | 8962 |
| 254 | 35 | 4 (5) 6494 | 6920 | 7364 | 7799 | 8235 | 8670 | 9105 | 9541 | 0976 | 0412 | 0847 | 1283 | 1719 | 2155 | 2591 | 3027 | 3463 | 86 | 35 | 3 0110 |
| 262 | 36 | 6641 | 7076 | 7511 | 7946 | 8381 | 8816 | 9252 | 9687 | 0122 | 0558 | 0993 | 1420 | 1865 | 2301 | 2737 | 3179 | 3608 | 08 | 36 | 9258 |
| 269 | 37 | 6788 | 7223 | 7657 | 8092 | 8528 | 8963 | 0398 | 9833 | 0260 | 0704 | 1140 | 1575 | 2311 | 2447 | 2882 | 3318 | 3754 | 91 | 37 | 9406 |
| 273 | 38 | 6035 | 7369 | 7804 | 8239 | 8674 | 9109 | 0544 | 9980 | 0415 | 0850 | 1286 | 1791 | 2157 | 2592 | 3028 | 3464 | 3900 | 93 | 38 | 9554 |
| 283 | 39 | 7082 | 7516 | 7951 | 8386 | 8891 | 0256 | 9691 | 0126 | 0561 | 0997 | 1432 | 1867 | 2303 | 2738 | 3174 | 3610 | 4046 | 96 | 39 | 9703 |
| 291 | 43 | 4 (5) 7229 | 7663 | 8098 | 8533 | 8968 | 9403 | 9837 | 0273 | 0708 | 1143 | 1578 | 2014 | 2449 | 2884 | 3320 | 3756 | 4191 | 98 | 40 | 3 9851 |
| 298 | 41 | 7376 | 7810 | 8945 | 8680 | 9114 | 9549 | 9984 | 0410 | 0854 | 1280 | 1725 | 2160 | 2595 | 3031 | 3466 | 3902 | 4337 | 101 | 41 | 9909 |
| 305 | 42 | 7593 | 7957 | 8392 | 8827 | 9261 | 9696 | 0131 | 0566 | 1001 | 1436 | 1871 | 2306 | 2742 | 3177 | 3612 | 4048 | 4483 | 103 | 42 | 4 0148 |
| 313 | 43 | 7670 | 8105 | 8539 | 8974 | 9408 | 9843 | 0278 | 0713 | 1148 | 1582 | 2018 | 2453 | 9888 | 3323 | 3759 | 4194 | 4629 | 106 | 43 | 0206 |
| 320 | 44 | 7818 | 8252 | 8686 | 9121 | 9555 | 9990 | 0425 | 0859 | 1294 | 1790 | 2164 | 9599 | 3034 | 3470 | 3905 | 4340 | 4776 | 108 | 44 | 0445 |
| 327 | 45 | 4 (5) 7965 | 8399 | 8834 | 9968 | 9702 | 0137 | 0572 | 1006 | 1441 | 1876 | 2311 | 2746 | 3181 | 3616 | 4051 | 4486 | 4992 | 111 | 45 | 4 0594 |
| 334 | 46 | 8112 | 8547 | 8981 | 0415 | 9850 | 0284 | 0719 | 1153 | 1588 | 2023 | 2458 | 2893 | 3327 | 3763 | 4198 | 4633 | 5068 | 113 | 45 | 0742 |
| 342 | 47 | 8260 | 8694 | 9128 | 9563 | 9997 | 0431 | 0866 | 1300 | 1735 | 2170 | 2604 | 3039 | 3474 | 3909 | 4344 | 4779 | 5215 | 116 | 47 | 3891 |
| 349 | 48 | 8408 | 8842 | 9276 | 9710 | 0144 | 0579 | 1013 | 1447 | 1889 | 2317 | 2751 | 3186 | 3621 | 4056 | 4491 | 4926 | 5361 | 118 | 48 | 1040 |
| 356 | 49 | 8555 | 8989 | 9423 | 9857 | 0299 | 0726 | 1160 | 1595 | 2029 | 2464 | 9898 | 3333 | 3768 | 4209 | 4637 | 5072 | 5507 | 120 | 49 | 1109 |
| 363 | 50 | 4 (5) 8703 | 9137 | 9571 | 0005 | 0439 | 0873 | 1308 | 1742 | 2176 | 2611 | 3045 | 3480 | 3915 | 4349 | 4784 | 5219 | 5654 | 193 | 50 | 4 1338 |
| 371 | 51 | 3851 | 9985 | 9719 | 0153 | 0587 | 1021 | 1455 | 1889 | 2324 | 2758 | 3192 | 3627 | 4069 | 4496 | 4931 | 5366 | 5801 | 125 | 51 | 1487 |
| 378 | 52 | 8999 | 9433 | 9866 | 0300 | 0734 | 1168 | 1602 | 2037 | 2471 | 9905 | 3339 | 3774 | 4209 | 4643 | 5078 | 5513 | 5947 | 128 | 52 | 1636 |
| 385 | 53 | 9147 | 9581 | 0014 | 0448 | 0889 | 1316 | 1750 | 2184 | 2618 | 3052 | 3487 | 3921 | 4356 | 4790 | 5225 | 5659 | 6094 | 130 | 53 | 1786 |
| 392 | 54 | 9295 | 9799 | 0162 | 0596 | 1030 | 1464 | 1808 | 2339 | 2766 | 3900 | 3634 | 4068 | 4503 | 4937 | 5379 | 5806 | 3241 | 133 | 54 | 1035 |
| 400 | 55 | 4 (5) 9443 | 9877 | 0310 | 0744 | 1178 | 1611 | 2045 | 2479 | 2913 | 3347 | 3781 | 4916 | 4650 | 5084 | 5519 | 5953 | 6388 | 135 | 55 | 4 2085 |
| 407 | 56 | 9591 | 0025 | 0458 | 0892 | 1325 | 1759 | 2193 | 9627 | 3061 | 3495 | 3929 | 4363 | 4797 | 5232 | 5666 | 6100 | 6535 | 138 | 55 | 2234 |
| 414 | 57 | 9740 | 0173 | 0606 | 1040 | 1473 | 1907 | 2341 | 2775 | 3209 | 3642 | 1076 | 4511 | 4945 | 5379 | 5813 | 6248 | 6682 | 140 | 57 | 2384 |
| 422 | 58 | 9888 | 0321 | 0755 | 1188 | 1621 | 2055 | 2489 | 2929 | 3356 | 3790 | 4224 | 1658 | 5092 | 5526 | 5961 | 6395 | 6899 | 143 | 58 | 2533 |
| 429 | 59 | 5 0036 | 0470 | 0903 | 1336 | 1770 | 2203 | 2637 | 3070 | 3504 | 3938 | 4372 | 4806 | 5240 | 5674 | 6108 | 6542 | 6976 | 145 | 59 | 2683 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar | 31° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 31° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9' | 4 | 2833 | 3266 | 3697 | 4129 | 4561 | 4993 | 5425 | 5858 | 6290 | 6722 | 7155 | 7588 | 0020 | 8453 | 8805 | 9319 | 2762 | 147 | 6' | 6 5086 |
| 7 | 1 | | 2982 | 3114 | 3846 | 4278 | 4710 | 5142 | 5575 | 6007 | 6439 | 6872 | 7304 | 7737 | 8159 | 8692 | 9036 | 9468 | 9900 | 145 | 1 | 5734 |
| 14 | 2 | 4 (5) | 3132 | 3564 | 3996 | 4428 | 4860 | 6292 | 5724 | 6156 | 6589 | 7021 | 7453 | 7806 | 5318 | 8751 | 2184 | 9616 | 2042 | 143 | 2 | 5589 |
| 22 | 3 | | 3282 | 3714 | 4146 | 4578 | 5010 | 5442 | 5874 | 6305 | 6738 | 7178 | 7502 | 8036 | 8467 | 8900 | 2333 | 9765 | 2198 | 140 | 3 | 5443 |
| 29 | 4 | | 3433 | 3864 | 4296 | 4728 | 5152 | 5591 | 6023 | 6455 | 6887 | 7312 | 7752 | 0184 | 8617 | 9949 | 9482 | 9914 | 8347 | 138 | 4 | 5297 |
| 36 | 5 | 4 (5) | 3583 | 4014 | 4146 | 4877 | 5302 | 5741 | 6173 | 6605 | 7037 | 7469 | 7901 | 8333 | 5766 | 9198 | 9631 | 0063 | 0496 | 138 | 5 | 6 5151 |
| 43 | 6 | | 3733 | 4164 | 4596 | 5027 | 5459 | 5891 | 6323 | 6755 | 7187 | 7619 | 8051 | 8483 | 8915 | 9347 | 9780 | 0212 | 0646 | 133 | 6 | 5005 |
| 50 | 7 | | 3883 | 4315 | 4746 | 5178 | 5609 | 6011 | 6472 | 6904 | 7336 | 7768 | 8200 | 8632 | 9964 | 9497 | 9929 | 0361 | 0794 | 130 | 7 | 4859 |
| 67 | 8 | | 4034 | 4465 | 4826 | 5328 | 5739 | 6191 | 6622 | 7054 | 7486 | 7918 | 0360 | 8782 | 9214 | 2646 | 0078 | 0512 | 0943 | 128 | 0 | 4713 |
| 65 | 9 | | 4184 | 4615 | 5046 | 5478 | 5909 | 6341 | 6772 | 7204 | 7636 | 8068 | 8499 | 8931 | 9363 | 9796 | 0228 | 9660 | 1092 | 125 | 2 | 4567 |
| 72 | 10 | 4 (5) | 4334 | 4768 | 5127 | 5628 | 6060 | 6491 | 6922 | 7354 | 7786 | 8217 | 8649 | 9081 | 9613 | 9945 | 0377 | 0809 | 1242 | 123 | 10 | 6 4421 |
| 79 | 11 | | 4485 | 4916 | 5347 | 5779 | 6210 | 6641 | 7073 | 7504 | 7936 | 8367 | 8799 | 9231 | 9663 | 0095 | 0527 | 0959 | 1391 | 120 | 11 | 4275 |
| 86 | 12 | | 4636 | 5067 | 5198 | 5929 | 6369 | 6791 | 7223 | 7654 | 8086 | 8517 | 8949 | 9381 | 9812 | 0244 | 0676 | 1108 | 1640 | 118 | 12 | 4128 |
| 93 | 13 | | 4786 | 5217 | 5648 | 6979 | 6511 | 6942 | 7373 | 7894 | 8236 | 0667 | 9099 | 9531 | 9962 | 2394 | 0826 | 1258 | 1690 | 118 | 13 | 3982 |
| 100 | 14 | | 4937 | 5368 | 5799 | 6230 | 6661 | 7992 | 7623 | 7955 | 8386 | 8817 | 9242 | 9681 | 0112 | 0544 | 9976 | 1408 | 1839 | 113 | 14 | 3835 |
| 108 | 15 | 4 (5) | 5088 | 5519 | 5950 | 6381 | 6812 | 7243 | 7674 | 8105 | 8536 | 8968 | 9392 | 9831 | 2262 | 0694 | 1125 | 1657 | 1989 | 111 | 15 | 6 3589 |
| 115 | 16 | | 5239 | 5670 | 6100 | 6531 | 6962 | 7393 | 7825 | 8255 | 8687 | 9118 | 9549 | 2981 | 0412 | 0844 | 1275 | 1707 | 2139 | 190 | 16 | 3542 |
| 122 | 17 | | 5390 | 5821 | 6251 | 6682 | 7113 | 7544 | 7975 | 8406 | 8837 | 9268 | 9699 | 0131 | 0562 | 0994 | 1425 | 1857 | 2289 | 106 | 17 | 3396 |
| 129 | 18 | | 5541 | 5972 | 6402 | 6833 | 7264 | 7695 | 8125 | 8656 | 8987 | 2112 | 9850 | 0201 | 9712 | 1144 | 1575 | 2007 | 2438 | 103 | 10 | 3249 |
| 136 | 19 | | 5692 | 6123 | 6553 | 6984 | 7415 | 7845 | 8276 | 8707 | 2138 | 9562 | 0909 | 0431 | 0863 | 1294 | 1725 | 2157 | 2688 | 101 | 12 | 3102 |
| 143 | 20 | 4 (5) | 5844 | 6274 | 6794 | 7135 | 7566 | 7996 | 8427 | 8858 | 9289 | 2720 | 0151 | 0582 | 1013 | 1444 | 1876 | 2307 | 2738 | 28 | 20 | 6 2955 |
| 151 | 21 | | 5995 | 6425 | 6856 | 7286 | 7717 | 8147 | 8575 | 9009 | 9432 | 2870 | 0391 | 0732 | 1163 | 1695 | 2026 | 2467 | 2888 | 96 | 21 | 2008 |
| 158 | 22 | | 6146 | 6576 | 7007 | 7437 | 7860 | 8298 | 8722 | 9152 | 9690 | 0021 | 0452 | 0883 | 1314 | 1745 | 2176 | 2607 | 3039 | 23 | 22 | 2681 |
| 165 | 23 | | 6298 | 6728 | 7158 | 7588 | 8019 | 8449 | 8880 | 9310 | 9741 | 0172 | 0602 | 1033 | 1464 | 1095 | 2326 | 2758 | 3182 | 91 | 23 | 2514 |
| 172 | 24 | | 6449 | 6872 | 7309 | 7740 | 8170 | 8600 | 9031 | 9481 | 9892 | 9322 | 0753 | 1184 | 1615 | 2846 | 2477 | 2908 | 3332 | 88 | 24 | 2366 |
| 179 | 25 | 4 (5) | 6601 | 7031 | 7461 | 7891 | 8321 | 8731 | 2182 | 9612 | 9013 | 9473 | 0994 | 1335 | 1766 | 2196 | 2627 | 3058 | 3420 | 86 | 25 | 6 2212 |
| 186 | 26 | | 6752 | 7182 | 7612 | 8042 | 8473 | 8903 | 9333 | 9763 | 0194 | 2624 | 1055 | 1486 | 1916 | 2347 | 2770 | 3209 | 3640 | 84 | 26 | 2072 |
| 194 | 27 | | 6904 | 7331 | 7764 | 8194 | 8624 | 9054 | 9484 | 9916 | 9346 | 0776 | 1206 | 1637 | 2067 | 2498 | 2929 | 3359 | 3790 | 81 | 27 | 1924 |
| 201 | 28 | | 7056 | 7486 | 7916 | 8345 | 8776 | 9296 | 2636 | 0066 | 9196 | 0927 | 1357 | 1788 | 2218 | 2649 | 3072 | 3610 | 3941 | 79 | 28 | 1777 |
| 205 | 29 | | 7208 | 7637 | 8067 | 8497 | 8927 | 9357 | 9787 | 0217 | 0647 | 1078 | 1508 | 1939 | 2369 | 2000 | 3230 | 3661 | 4092 | 76 | 22 | 1622 |
| 215 | 30 | 4 (5) | 7360 | 7789 | 8219 | 8649 | 9079 | 9502 | 9932 | 0369 | 0729 | 1229 | 1652 | 2090 | 2520 | 2951 | 3381 | 3812 | 4242 | 74 | 30 | 6 1401 |
| 222 | 31 | | 7512 | 7941 | 8371 | 8891 | 9230 | 9669 | 0090 | 0520 | 0950 | 1300 | 1811 | 2241 | 2671 | 3192 | 3632 | 3963 | 4393 | 71 | 31 | 1334 |
| 229 | 32 | | 7664 | 8093 | 8523 | 8953 | 9382 | 9812 | 0242 | 0672 | 1102 | 1532 | 1962 | 2392 | 2822 | 3253 | 3603 | 4114 | 4644 | 69 | 32 | 1186 |
| 237 | 33 | | 7816 | 8245 | 8675 | 9105 | 9534 | 9961 | 9394 | 0823 | 1253 | 1683 | 2113 | 2543 | 2974 | 3404 | 3834 | 4265 | 4695 | 66 | 33 | 1030 |
| 244 | 34 | | 7968 | 8398 | 8827 | 9257 | 9686 | 0116 | 9645 | 9975 | 1405 | 1835 | 2265 | 2695 | 3125 | 3655 | 3985 | 4415 | 4846 | 64 | 34 | 0890 |
| 251 | 35 | 4 (5) | 8121 | 8550 | 8979 | 9402 | 9838 | 0268 | 0697 | 1127 | 1567 | 1986 | 2416 | 2846 | 3276 | 3796 | 4137 | 4567 | 4997 | 62 | 35 | 5 0742 |
| 258 | 36 | | 8273 | 8702 | 9131 | 9561 | 9990 | 9420 | 9849 | 1279 | 1700 | 2138 | 2568 | 2998 | 3425 | 3858 | 4288 | 4718 | 5148 | 59 | 36 | 0594 |
| 265 | 37 | | 8425 | 8855 | 9284 | 9713 | 9142 | 0572 | 1001 | 1431 | 1860 | 2220 | 2729 | 3149 | 3579 | 4999 | 4139 | 4889 | 5299 | 57 | 37 | 0446 |
| 272 | 38 | | 8578 | 9097 | 9436 | 9865 | 0294 | 0724 | 1153 | 1583 | 2012 | 2442 | 2871 | 3301 | 3731 | 4161 | 4591 | 5021 | 5451 | 54 | 38 | 0297 |
| 280 | 39 | | 8731 | 2160 | 9589 | 0018 | 9447 | 0876 | 1395 | 1735 | 2164 | 2594 | 3023 | 3463 | 3883 | 4312 | 4742 | 5172 | 5692 | 52 | 39 | 8142 |
| 287 | 40 | 4 (5) | 8883 | 9312 | 9741 | 0170 | 0599 | 1028 | 1458 | 1887 | 2316 | 2746 | 3175 | 3695 | 4034 | 4464 | 4894 | 5324 | 5751 | 49 | 46 | 6 2001 |
| 294 | 41 | | 9036 | 9465 | 9894 | 0323 | 0752 | 1181 | 1610 | 2039 | 2468 | 2890 | 3327 | 3757 | 4186 | 4615 | 5015 | 5475 | 6995 | 47 | 41 | 5 2852 |
| 301 | 42 | | 9189 | 9618 | 0016 | 0475 | 0904 | 1333 | 1762 | 2191 | 2620 | 3059 | 3479 | 3909 | 4338 | 4768 | 5197 | 5627 | 6057 | 44 | 42 | 9704 |
| 308 | 43 | | 9342 | 9770 | 0199 | 0828 | 1057 | 1486 | 1915 | 2344 | 2773 | 3292 | 3631 | 4061 | 4490 | 4919 | 6349 | 5779 | 6298 | 42 | 43 | 2955 |
| 315 | 44 | | 9495 | 9923 | 9352 | 0751 | 1209 | 1638 | 2067 | 2496 | 2925 | 3354 | 3783 | 4213 | 4642 | 5971 | 5501 | 5930 | 6360 | 39 | 44 | 2406 |
| 323 | 45 | 4 (5) | 9648 | 0076 | 0505 | 0933 | 1362 | 1791 | 2220 | 2642 | 3077 | 3597 | 3936 | 4365 | 4794 | 6223 | 6653 | 6982 | 6512 | 37 | 45 | 5 2250 |
| 330 | 46 | | 9801 | 0229 | 0658 | 1006 | 1515 | 1944 | 2372 | 2891 | 3232 | 3659 | 4000 | 4517 | 4946 | 6378 | 5895 | 6234 | 6664 | 34 | 46 | 2102 |
| 337 | 47 | | 9954 | 0382 | 0811 | 1239 | 1668 | 2096 | 2526 | 2954 | 3383 | 3811 | 4240 | 4669 | 6099 | 5528 | 5957 | 6386 | 6016 | 32 | 47 | 8962 |
| 344 | 48 | 5 | 0107 | 0535 | 0964 | 1392 | 1821 | 2249 | 2678 | 3196 | 3535 | 3964 | 4392 | 4822 | 6251 | 6600 | 6102 | 6538 | 6968 | 29 | 48 | 8811 |
| 351 | 49 | | 0261 | 0689 | 1117 | 1545 | 1974 | 2402 | 2831 | 3259 | 3688 | 4117 | 4545 | 4974 | 5403 | 6032 | 6261 | 6621 | 7129 | 27 | 49 | 8662 |
| 368 | 50 | 5 | 0414 | 0842 | 1279 | 1698 | 2127 | 2655 | 2984 | 3412 | 3841 | 4262 | 4698 | 5127 | 5556 | 5985 | 6414 | 6843 | 7272 | 25 | 30 | 6 0613 |
| 366 | 81 | | 0567 | 0995 | 1423 | 1852 | 2289 | 2798 | 3137 | 3565 | 3994 | 4422 | 4851 | 5279 | 5700 | 6137 | 6566 | 6295 | 7424 | 22 | 51 | 8364 |
| 373 | 52 | | 0721 | 1149 | 1577 | 2005 | 2433 | 2861 | 3299 | 3718 | 4146 | 4575 | 5903 | 5432 | 5861 | 6290 | 6712 | 7147 | 7576 | 20 | 52 | 8214 |
| 380 | 83 | | 0875 | 1302 | 1730 | 2158 | 2586 | 3015 | 3443 | 3871 | 4299 | 4728 | 5136 | 5585 | 6014 | 6442 | 6871 | 7300 | 7729 | 17 | 53 | 8065 |
| 387 | 54 | | 1028 | 1456 | 1804 | 2312 | 2749 | 3168 | 3596 | 4924 | 4452 | 4801 | 5309 | 5738 | 0166 | 6596 | 7924 | 7462 | 7881 | 15 | 54 | 7915 |
| 394 | 55 | 5 | 1182 | 1610 | 2930 | 2465 | 2893 | 3321 | 3749 | 4177 | 4606 | 6034 | 5462 | 5891 | 6319 | 6740 | 7176 | 7605 | 0934 | 12 | 55 | 5 7766 |
| 401 | 56 | | 1336 | 1764 | 2191 | 2619 | 3047 | 3475 | 3903 | 4331 | 4759 | 6187 | 5615 | 6044 | 6472 | 6901 | 7329 | 7758 | 8186 | 19 | 56 | 7616 |
| 409 | 57 | | 1490 | 1917 | 2345 | 2773 | 3209 | 3628 | 4056 | 4484 | 4912 | 5340 | 5768 | 6197 | 6626 | 7053 | 7482 | 7910 | 8339 | 7 | 57 | 7467 |
| 416 | 50 | | 1644 | 2071 | 2499 | 2926 | 3354 | 3702 | 4210 | 4637 | 6065 | 5493 | 5922 | 6350 | 6778 | 7206 | 7635 | 8063 | 8492 | 5 | 58 | 7317 |
| 423 | 52 | | 1798 | 2225 | 2663 | 3080 | 3600 | 3935 | 4363 | 4791 | 5219 | 5647 | 6075 | 6503 | 6931 | 7359 | 7788 | 8216 | 0645 | 2 | 59 | 7167 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 31° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 31° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 | 0185 | 0618 | 1051 | 1485 | 1918 | 2351 | 2785 | 3218 | 3659 | 4086 | 4519 | 4953 | 5387 | 5821 | 6255 | 6689 | 7124 | 0 | 0′ | 4 2833 |
| 7 | 1 | | 0333 | 0766 | 1200 | 1633 | 2066 | 2492 | 2933 | 3366 | 3800 | 4234 | 4667 | 5101 | 5535 | 5962 | 6403 | 6837 | 7971 | 2 | 1 | 2983 |
| 14 | 2 | | 0482 | 0916 | 1348 | 1781 | 2214 | 2648 | 3081 | 3514 | 3948 | 4382 | 4815 | 5242 | 5683 | 6116 | 6550 | 6984 | 7418 | 5 | 2 | 3132 |
| 22 | 3 | | 0031 | 1064 | 1497 | 1930 | 9363 | 2796 | 3229 | 3663 | 4096 | 4530 | 4963 | 5397 | 5830 | 6264 | 6698 | 7132 | 7566 | 8 | 3 | 3282 |
| 29 | 4 | | 0780 | 1212 | 1645 | 2078 | 2511 | 2944 | 3378 | 3811 | 4944 | 4678 | 5111 | 5545 | 5978 | 6412 | 6846 | 7280 | 7713 | 10 | 4 | 3433 |
| 36 | 5 | 5 | 0928 | 1361 | 1794 | 2227 | 9660 | 3093 | 3526 | 3959 | 4399 | 4896 | 5259 | 5693 | 6126 | 6560 | 6993 | 7427 | 7861 | 13 | 5 | 4 3583 |
| 43 | 6 | | 1077 | 1510 | 1943 | 2376 | 2809 | 3949 | 3675 | 4108 | 4541 | 4974 | 5407 | 5841 | 6274 | 6708 | 7141 | 7575 | 8009 | 15 | 6 | 3733 |
| 50 | 7 | | 1926 | 1659 | 2092 | 2594 | 2257 | 3390 | 3893 | 4256 | 4689 | 5192 | 5556 | 5289 | 6429 | 6856 | 7989 | 7723 | 8157 | 18 | 7 | 3883 |
| 58 | 8 | | 1375 | 1808 | 2241 | 2673 | 3106 | 3539 | 3972 | 4405 | 4838 | 5971 | 5704 | 6137 | 6570 | 7004 | 7437 | 7871 | 8304 | 20 | 8 | 4034 |
| 65 | 9 | | 1525 | 1957 | 2390 | 2822 | 3255 | 3688 | 4120 | 4533 | 4986 | 5419 | 5852 | 6285 | 6719 | 7152 | 7585 | 8019 | 8452 | 23 | 9 | 4184 |
| 72 | 10 | 5 | 1674 | 2106 | 2539 | 2971 | 3404 | 3836 | 4969 | 4702 | 5135 | 5568 | 6001 | 6434 | 6867 | 7300 | 7734 | 8167 | 8600 | 25 | 10 | 4 4335 |
| 79 | 11 | | 1893 | 2255 | 2688 | 3190 | 3553 | 3985 | 4418 | 4851 | 5283 | 5716 | 6149 | 6582 | 7015 | 7449 | 7882 | 8315 | 8748 | 28 | 11 | 4485 |
| 86 | 12 | | 1972 | 2405 | 2837 | 3269 | 3702 | 4134 | 4567 | 4929 | 5132 | 5865 | 6298 | 6731 | 7164 | 7527 | 8030 | 8463 | 8897 | 30 | 12 | 4636 |
| 93 | 13 | | 2122 | 2554 | 2986 | 3419 | 3851 | 4283 | 4716 | 5148 | 5581 | 6014 | 6447 | 6872 | 7319 | 7745 | 8178 | 8612 | 2045 | 33 | 13 | 4786 |
| 101 | 14 | | 2271 | 2703 | 3136 | 3568 | 4000 | 4432 | 4865 | 5997 | 5730 | 6163 | 6595 | 7028 | 7461 | 7894 | 8327 | 8760 | 9193 | 35 | 14 | 4937 |
| 108 | 15 | 5 | 2421 | 2853 | 3985 | 3717 | 4149 | 4582 | 5014 | 6446 | 5879 | 6311 | 6744 | 7177 | 7610 | 8042 | 8475 | 8908 | 2341 | 38 | 15 | 4 5088 |
| 115 | 16 | | 2571 | 3003 | 3435 | 3867 | 4299 | 4731 | 5163 | 5596 | 6028 | 6460 | 6893 | 7396 | 7758 | 8191 | 8624 | 9057 | 2490 | 40 | 16 | 5239 |
| 122 | 17 | | 2720 | 3152 | 3584 | 4016 | 4448 | 4880 | 5312 | 5745 | 6177 | 6609 | 7049 | 7475 | 7907 | 8340 | 8773 | 2205 | 9638 | 43 | 17 | 5390 |
| 129 | 18 | | 2870 | 3302 | 3734 | 4166 | 4598 | 5030 | 5462 | 5894 | 6326 | 6752 | 7191 | 7694 | 8056 | 8489 | 8921 | 9354 | 9787 | 46 | 10 | 6541 |
| 137 | 19 | | 3020 | 3452 | 3883 | 4315 | 4747 | 5179 | 5611 | 6043 | 6476 | 6908 | 7340 | 7773 | 8205 | 8637 | 9070 | 9503 | 9936 | 48 | 19 | 5692 |
| 144 | 20 | 5 (6) | 3170 | 3609 | 4033 | 4465 | 4897 | 5329 | 5761 | 6193 | 6625 | 7057 | 7489 | 7999 | 8354 | 8786 | 9219 | 9652 | 0081 | 51 | 20 | 4 5844 |
| 151 | 21 | | 3390 | 3751 | 4183 | 4615 | 5046 | 5478 | 5910 | 6342 | 6774 | 7206 | 7639 | 8071 | 8503 | 8935 | 9368 | 9801 | 0233 | 53 | 21 | 5995 |
| 158 | 22 | | 3470 | 3901 | 4333 | 4765 | 5196 | 5698 | 6060 | 6499 | 6924 | 7356 | 7788 | 8290 | 8659 | 9085 | 9517 | 9950 | 0382 | 56 | 92 | 6146 |
| 165 | 23 | | 3620 | 4052 | 4403 | 4915 | 5346 | 5778 | 6210 | 6641 | 7073 | 7505 | 7937 | 8369 | 8801 | 9234 | 9666 | 0099 | 0531 | 58 | 93 | 6298 |
| 179 | 24 | | 3770 | 4902 | 4633 | 5065 | 5496 | 5928 | 6359 | 6791 | 7223 | 7655 | 8087 | 0519 | 8951 | 9383 | 9815 | 0248 | 0680 | 61 | 94 | 6449 |
| 180 | 25 | 5 (6) | 3921 | 4352 | 4783 | 5215 | 5646 | 6078 | 6509 | 6241 | 7372 | 7804 | 8936 | 8668 | 9100 | 2532 | 9964 | 0397 | 0822 | 63 | 25 | 4 6601 |
| 187 | 26 | | 4071 | 4502 | 4933 | 5365 | 5796 | 6228 | 6659 | 7091 | 7529 | 7954 | 8386 | 8818 | 9250 | 9682 | 0114 | 0546 | 0978 | 66 | 26 | 6752 |
| 194 | 27 | | 4221 | 4653 | 5084 | 5515 | 5946 | 6378 | 6802 | 7240 | 7672 | 8104 | 8535 | 8967 | 9399 | 9831 | 0263 | 0695 | 1197 | 68 | 27 | 6904 |
| 201 | 28 | | 4372 | 4803 | 5934 | 5665 | 6096 | 6528 | 6259 | 7320 | 7829 | 8254 | 8685 | 9117 | 9549 | 9981 | 0412 | 0844 | 1276 | 71 | 28 | 7056 |
| 209 | 29 | | 4523 | 4953 | 5384 | 5816 | 6247 | 6678 | 7109 | 7540 | 7972 | 8403 | 8835 | 2267 | 9698 | 0130 | 0562 | 0994 | 1496 | 73 | 29 | 7208 |
| 216 | 30 | 5 (6) | 4673 | 5104 | 5535 | 5266 | 6397 | 6828 | 7959 | 7691 | 8122 | 8553 | 8985 | 9416 | 9848 | 0280 | 0712 | 1143 | 1575 | 76 | 30 | 4 7360 |
| 223 | 31 | | 4824 | 5255 | 5685 | 6116 | 6547 | 6978 | 7410 | 7841 | 8272 | 8703 | 9135 | 9566 | 9998 | 0429 | 0861 | 1293 | 1795 | 78 | 31 | 7519 |
| 230 | 32 | | 4975 | 5405 | 5836 | 6267 | 6698 | 7129 | 7560 | 7921 | 8122 | 8854 | 9285 | 9716 | 0148 | 0579 | 1011 | 1443 | 1874 | 81 | 32 | 7664 |
| 237 | 33 | | 5126 | 5556 | 5987 | 6418 | 6848 | 7279 | 7710 | 8141 | 8573 | 9004 | 9435 | 9866 | 0298 | 0729 | 1161 | 1592 | 2021 | 84 | 33 | 7816 |
| 244 | 34 | | 5277 | 5707 | 6138 | 6568 | 6999 | 7430 | 7861 | 8292 | 8723 | 9154 | 9585 | 0016 | 0448 | 0879 | 1310 | 1742 | 9174 | 86 | 34 | 7968 |
| 252 | 35 | 5 (6) | 5498 | 5858 | 6289 | 6719 | 7150 | 7581 | 8011 | 8442 | 8873 | 9304 | 9735 | 0166 | 0598 | 1029 | 1460 | 1892 | 2323 | 89 | 35 | 4 8121 |
| 259 | 36 | | 5579 | 6009 | 6439 | 6870 | 7301 | 7731 | 8169 | 8593 | 2024 | 2455 | 2886 | 0317 | 0748 | 1179 | 1610 | 2042 | 9473 | 91 | 36 | 8273 |
| 266 | 37 | | 5730 | 6160 | 6590 | 7091 | 7451 | 7882 | 8313 | 8743 | 9174 | 9605 | 0036 | 0467 | 0898 | 1329 | 1761 | 2192 | 2693 | 94 | 37 | 8425 |
| 273 | 38 | | 5881 | 6311 | 6742 | 7172 | 7609 | 8033 | 8463 | 8824 | 2325 | 9756 | 0186 | 0617 | 1048 | 1480 | 1911 | 2342 | 2773 | 96 | 38 | 8578 |
| 280 | 39 | | 6032 | 6469 | 6893 | 7393 | 7753 | 8184 | 8614 | 2045 | 2475 | 9906 | 0337 | 0768 | 1199 | 1630 | 2061 | 9422 | 2923 | 99 | 39 | 8731 |
| 288 | 40 | 5 (6) | 6184 | 6614 | 7044 | 7474 | 7904 | 8335 | 8765 | 9196 | 2626 | 0057 | 0488 | 0918 | 1349 | 1780 | 2211 | 2649 | 3073 | 101 | 40 | 4 8883 |
| 295 | 41 | | 6335 | 6765 | 7195 | 7625 | 8055 | 8486 | 8916 | 9347 | 9777 | 0208 | 0638 | 1069 | 1500 | 1931 | 2361 | 9723 | 3994 | 101 | 41 | 9036 |
| 302 | 42 | | 6487 | 6916 | 7346 | 7777 | 8207 | 8637 | 9067 | 9497 | 2928 | 0358 | 0782 | 1220 | 1650 | 9081 | 2512 | 2943 | 3374 | 106 | 42 | 9189 |
| 309 | 43 | | 6638 | 7068 | 7498 | 7928 | 8358 | 8788 | 9218 | 9649 | 0079 | 0509 | 0940 | 1370 | 1801 | 2232 | 2662 | 3093 | 3594 | 109 | 43 | 9342 |
| 316 | 44 | | 6790 | 7220 | 7649 | 8079 | 8509 | 8939 | 9369 | 9800 | 0230 | 0660 | 1091 | 1521 | 1952 | 2382 | 2813 | 3244 | 3675 | 111 | 44 | 9425 |
| 324 | 45 | 5 (6) | 6941 | 7371 | 7801 | 8231 | 8661 | 9091 | 9521 | 9951 | 0381 | 0811 | 1242 | 1672 | 2103 | 2533 | 2964 | 3394 | 3825 | 114 | 45 | 4 9648 |
| 331 | 46 | | 7093 | 7523 | 7953 | 8382 | 8812 | 9942 | 9679 | 0102 | 0532 | 0962 | 1393 | 1823 | 2253 | 2684 | 3114 | 3545 | 3976 | 116 | 46 | 9801 |
| 338 | 47 | | 7945 | 7675 | 8104 | 8534 | 8964 | 9394 | 9823 | 0253 | 0683 | 1114 | 1544 | 1974 | 2404 | 2835 | 3965 | 3696 | 4126 | 119 | 47 | 9954 |
| 345 | 48 | | 7397 | 7897 | 8256 | 8686 | 9115 | 9543 | 9975 | 0405 | 0835 | 1265 | 1695 | 2195 | 2555 | 2986 | 3416 | 3846 | 4977 | 122 | 48 | 5 0107 |
| 352 | 49 | | 7549 | 7978 | 8408 | 8837 | 9267 | 9697 | 0126 | 0556 | 0286 | 1416 | 1846 | 2276 | 2706 | 3137 | 3567 | 3997 | 4428 | 124 | 49 | 0261 |
| 360 | 50 | 5 (6) | 7701 | 8130 | 8560 | 8989 | 9412 | 9848 | 0978 | 0708 | 1138 | 1567 | 1297 | 2427 | 2857 | 3288 | 3718 | 4148 | 4579 | 127 | 50 | 5 0414 |
| 367 | 61 | | 7853 | 8283 | 8712 | 2141 | 2571 | 0000 | 0430 | 0859 | 1289 | 1719 | 2149 | 2579 | 3002 | 3439 | 3862 | 4999 | 4729 | 199 | 51 | 0567 |
| 374 | 52 | | 8006 | 8435 | 8864 | 9293 | 9723 | 0152 | 0581 | 1011 | 1441 | 1870 | 2300 | 2730 | 3160 | 3590 | 4020 | 4450 | 4880 | 132 | 52 | 0791 |
| 381 | 53 | | 8158 | 8587 | 2016 | 9445 | 9875 | 0304 | 0733 | 1163 | 1599 | 2029 | 2452 | 2881 | 3311 | 3741 | 4171 | 4601 | 5031 | 134 | 53 | 0875 |
| 388 | 54 | | 8310 | 8739 | 9168 | 9597 | 0027 | 0456 | 0883 | 1316 | 1744 | 2174 | 2603 | 3033 | 3463 | 3823 | 4323 | 4753 | 5183 | 137 | 54 | 1028 |
| 395 | 55 | 6 (6) | 8463 | 8892 | 9321 | 9750 | 0179 | 0608 | 1037 | 1466 | 1896 | 2325 | 2755 | 3185 | 3614 | 4044 | 4474 | 4904 | 5331 | 139 | 55 | 5 1182 |
| 403 | 56 | | 8615 | 9044 | 9473 | 9902 | 0331 | 0760 | 1189 | 1618 | 2048 | 2477 | 2907 | 3336 | 3766 | 4196 | 4625 | 5055 | 5185 | 142 | 56 | 1336 |
| 410 | 57 | | 8768 | 9196 | 9625 | 0054 | 0483 | 0912 | 1341 | 1770 | 2200 | 2629 | 3058 | 3488 | 3917 | 4347 | 4777 | 5207 | 5636 | 144 | 57 | 1490 |
| 417 | 58 | | 8920 | 9349 | 9778 | 0207 | 0635 | 1064 | 1493 | 1923 | 2352 | 2781 | 3210 | 3640 | 4062 | 4499 | 4928 | 5358 | 5788 | 147 | 58 | 1644 |
| 424 | 69 | | 9073 | 9502 | 9930 | 0359 | 0788 | 1217 | 1646 | 2075 | 2504 | 2933 | 3362 | 3792 | 4221 | 4650 | 5080 | 5510 | 5932 | 119 | 59 | 1720 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 32° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 32° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 5 1952 | 2279 | 2807 | 3234 | 3662 | 4289 | 4517 | 4945 | 5272 | 5800 | 6228 | 8656 | 7284 | 7512 | 7241 | 8369 | 8797 | 152 | 0' | 8 7010 |
| 7 | 1 | 2106 | 2533 | 2961 | 3388 | 3815 | 4243 | 4671 | 6098 | 5526 | 5254 | 6382 | 6812 | 7238 | 7666 | 8094 | 8522 | 8250 | 149 | 1 | 6868 |
| 14 | 2 | 2260 | 2687 | 3115 | 3542 | 3969 | 4397 | 4824 | 5252 | 5680 | 6107 | 6535 | 6963 | 7391 | 7812 | 8247 | 8675 | 9103 | 147 | 2 | 6718 |
| 21 | 3 | 2415 | 2842 | 3282 | 3696 | 4123 | 4551 | 4978 | 5406 | 5833 | 6261 | 6689 | 7116 | 7544 | 7972 | 8400 | 8828 | 9256 | 144 | 3 | 6587 |
| 28 | 4 | 2569 | 2996 | 3423 | 3852 | 4277 | 4705 | 5132 | 5559 | 5987 | 6415 | 6842 | 7270 | 7698 | 8126 | 8554 | 8981 | 9410 | 142 | 4 | 6417 |
| 35 | 5 | 5 2723 | 3150 | 3577 | 4004 | 4432 | 4859 | 5286 | 5713 | 6141 | 6568 | 6996 | 7424 | 7851 | 8279 | 8707 | 9135 | 9563 | 139 | 5 | 8 6267 |
| 43 | 6 | 2878 | 2305 | 3732 | 4152 | 4588 | 5013 | 5440 | 5867 | 6295 | 6722 | 7150 | 7577 | 8005 | 8433 | 8860 | 9288 | 9716 | 137 | 8 | 6117 |
| 50 | 7 | 3033 | 2459 | 3886 | 4313 | 4740 | 5167 | 5594 | 6022 | 6449 | 6876 | 7303 | 7721 | 8159 | 8586 | 9014 | 9442 | 9869 | 134 | 7 | 5968 |
| 57 | 8 | 5 (6) 3127 | 3614 | 4041 | 4468 | 4894 | 5322 | 5749 | 6176 | 6603 | 7230 | 7457 | 7885 | 8312 | 8740 | 9167 | 9595 | 0023 | 132 | 8 | 5816 |
| 64 | 9 | 3342 | 3769 | 4195 | 4622 | 5049 | 6476 | 5903 | 6330 | 6757 | 7184 | 7811 | 8039 | 8466 | 8894 | 9321 | 9749 | 0176 | 129 | 9 | 5665 |
| 71 | 10 | 5 (6) 3497 | 3923 | 4350 | 4777 | 5204 | 5632 | 6057 | 6484 | 6911 | 7338 | 7765 | 8193 | 8620 | 9047 | 9475 | 9902 | 0330 | 127 | 10 | 5 5515 |
| 78 | 11 | 3652 | 4078 | 4505 | 4931 | 6358 | 5785 | 6212 | 6638 | 7065 | 7492 | 7920 | 8347 | 8774 | 9201 | 9629 | 0056 | 0484 | 124 | 11 | 5364 |
| 85 | 12 | 3807 | 4233 | 4660 | 5086 | 5513 | 5939 | 6366 | 6793 | 7220 | 7647 | 8074 | 8521 | 8928 | 9355 | 9783 | 0210 | 0637 | 122 | 12 | 5212 |
| 92 | 13 | 3962 | 4388 | 4814 | 5241 | 5667 | 6094 | 6521 | 6947 | 7374 | 7801 | 8228 | 8655 | 9082 | 9529 | 9937 | 0364 | 0791 | 119 | 13 | 5283 |
| 99 | 14 | 4117 | 4543 | 4969 | 5326 | 5822 | 6249 | 6675 | 7102 | 7529 | 7955 | 8382 | 8809 | 9236 | 9663 | 0091 | 0518 | 0945 | 118 | 14 | 4912 |
| 106 | 15 | 8 (6) 4272 | 4698 | 5124 | 5551 | 5977 | 6404 | 6830 | 7257 | 7683 | 8110 | 8537 | 8964 | 9391 | 9818 | 0245 | 0672 | 1099 | 114 | 15 | 5 4761 |
| 113 | 16 | 4427 | 4853 | 5280 | 5706 | 6132 | 6558 | 6985 | 7411 | 7838 | 8265 | 8691 | 9118 | 9545 | 9972 | 0399 | 0826 | 1253 | 111 | 16 | 4610 |
| 121 | 17 | 4582 | 5009 | 5435 | 5861 | 6287 | 6713 | 7140 | 7566 | 7993 | 8419 | 8846 | 9273 | 9699 | 0126 | 0553 | 0980 | 1407 | 122 | 17 | 4452 |
| 128 | 18 | 4738 | 5164 | 5590 | 6016 | 6442 | 6858 | 7295 | 7721 | 8147 | 8574 | 9000 | 9427 | 9854 | 0280 | 0707 | 1134 | 1561 | 108 | 18 | 4208 |
| 135 | 19 | 4894 | 5312 | 5745 | 6171 | 6597 | 7023 | 7451 | 7875 | 8302 | 8729 | 9155 | 9582 | 0008 | 0135 | 0862 | 1288 | 1715 | 124 | 19 | 4156 |
| 142 | 20 | 8 (6) 8049 | 5475 | 5901 | 6327 | 6753 | 7179 | 7605 | 8031 | 8457 | 8883 | 9310 | 9736 | 0163 | 0589 | 1016 | 1443 | 1870 | 121 | 20 | 3 4005 |
| 149 | 21 | 5225 | 5630 | 6056 | 6482 | 6908 | 7334 | 7760 | 8186 | 8612 | 9038 | 9465 | 9891 | 0318 | 0744 | 1171 | 1597 | 2024 | 29 | 21 | 3054 |
| 156 | 22 | 5360 | 5786 | 6212 | 6637 | 7063 | 7489 | 7915 | 8341 | 8767 | 9193 | 9520 | 0046 | 0472 | 2899 | 1325 | 1752 | 2179 | 26 | 22 | 3722 |
| 163 | 23 | 5516 | 5242 | 6367 | 6793 | 7219 | 7646 | 8270 | 8496 | 8922 | 9348 | 9775 | 0201 | 0627 | 1053 | 1480 | 1906 | 2333 | 94 | 23 | 3551 |
| 170 | 24 | 5672 | 6297 | 6523 | 6949 | 7374 | 7800 | 8226 | 8652 | 9078 | 9504 | 9930 | 0356 | 0782 | 1208 | 1635 | 2061 | 2488 | 91 | 24 | 3399 |
| 177 | 26 | 5 (8) 5828 | 6253 | 6672 | 7104 | 7530 | 7955 | 8381 | 8807 | 9233 | 9659 | 0085 | 0511 | 0937 | 1363 | 1789 | 2216 | 2642 | 89 | 25 | 5 3242 |
| 184 | 26 | 5984 | 6409 | 6835 | 7280 | 7685 | 8111 | 8527 | 8962 | 9388 | 9814 | 0240 | 0666 | 1092 | 1518 | 1944 | 2371 | 2797 | 86 | 26 | 3025 |
| 192 | 27 | 6140 | 6665 | 6990 | 7416 | 7841 | 8267 | 8692 | 9118 | 9544 | 9969 | 2395 | 0821 | 1247 | 1673 | 2099 | 2525 | 2952 | 84 | 27 | 2944 |
| 199 | 28 | 6296 | 6721 | 7146 | 7572 | 7997 | 8422 | 8848 | 9273 | 9699 | 0125 | 0551 | 0976 | 1402 | 1828 | 2254 | 2680 | 3107 | 81 | 20 | 2792 |
| 206 | 29 | 6462 | 6877 | 7302 | 7728 | 8153 | 8578 | 9004 | 9429 | 9255 | 0280 | 0706 | 1132 | 1587 | 1983 | 2409 | 2835 | 3262 | 78 | 29 | 2640 |
| 213 | 30 | 8 (6) 6629 | 7033 | 7459 | 7884 | 8309 | 8734 | 9159 | 9585 | 0010 | 0436 | 0861 | 1287 | 1713 | 2139 | 2565 | 2922 | 3417 | 76 | 30 | 5 2488 |
| 220 | 31 | 6785 | 7190 | 7615 | 8240 | 8465 | 8820 | 9315 | 9741 | 0166 | 0591 | 1017 | 1443 | 1868 | 2294 | 2720 | 3146 | 3572 | 73 | 31 | 2336 |
| 227 | 32 | 6921 | 7346 | 7771 | 8196 | 8621 | 9046 | 9471 | 2896 | 0322 | 0747 | 1173 | 1598 | 2024 | 2449 | 2875 | 3301 | 3727 | 71 | 32 | 2184 |
| 234 | 33 | 7078 | 7502 | 7927 | 8352 | 8777 | 9202 | 9627 | 0052 | 0478 | 0903 | 1328 | 1754 | 2179 | 2606 | 3030 | 3456 | 3882 | 68 | 33 | 2032 |
| 241 | 34 | 7224 | 7659 | 8084 | 8508 | 8933 | 9358 | 9723 | 0208 | 0633 | 1059 | 1484 | 1909 | 2335 | 2760 | 3186 | 3611 | 4037 | 66 | 34 | 1879 |
| 248 | 35 | 5 (6) 7321 | 7815 | 8240 | 8665 | 9290 | 9514 | 9939 | 0364 | 0789 | 1215 | 1640 | 2065 | 2490 | 2916 | 3341 | 3767 | 4193 | 63 | 35 | 8 1727 |
| 255 | 36 | 7648 | 7972 | 8397 | 8821 | 9246 | 9671 | 0096 | 0520 | 0946 | 1371 | 1796 | 2221 | 2646 | 3071 | 3497 | 3922 | 4348 | 61 | 36 | 1576 |
| 262 | 37 | 7704 | 8129 | 8553 | 8978 | 9402 | 9827 | 0252 | 2677 | 1102 | 1527 | 1952 | 2377 | 2802 | 3227 | 3653 | 4078 | 4503 | 58 | 37 | 1422 |
| 272 | 38 | 7861 | 8285 | 8710 | 9134 | 9559 | 9984 | 0428 | 0833 | 1258 | 1683 | 2108 | 2533 | 2958 | 3383 | 3808 | 4234 | 4659 | 56 | 38 | 1262 |
| 277 | 39 | 8018 | 8442 | 8867 | 9291 | 9715 | 0140 | 0565 | 0989 | 1414 | 1839 | 2264 | 2689 | 3114 | 3539 | 3964 | 4389 | 4815 | 83 | 39 | 1117 |
| 284 | 40 | 5 (6) 8175 | 8599 | 2023 | 9448 | 9872 | 0297 | 0721 | 1146 | 1570 | 1295 | 2420 | 2845 | 3270 | 3695 | 4120 | 4545 | 4970 | 81 | 42 | 5 0954 |
| 291 | 41 | 8332 | 8756 | 9180 | 9605 | 0029 | 0463 | 0878 | 1302 | 1727 | 2151 | 2576 | 3001 | 3426 | 3851 | 4276 | 4701 | 5126 | 48 | 41 | 0811 |
| 298 | 42 | 8489 | 8913 | 9337 | 9751 | 0186 | 0610 | 1034 | 1459 | 1883 | 2308 | 2733 | 3157 | 3582 | 4007 | 4432 | 4857 | 5282 | 46 | 42 | 0658 |
| 305 | 43 | 0646 | 9072 | 9494 | 9918 | 0343 | 0787 | 1191 | 1615 | 2042 | 2464 | 2889 | 3314 | 3738 | 4163 | 4588 | 5013 | 5438 | 43 | 42 | 0505 |
| 312 | 44 | 8804 | 9227 | 9651 | 0075 | 0500 | 0924 | 1348 | 1772 | 2196 | 2621 | 3045 | 3470 | 3895 | 4319 | 4744 | 5169 | 5524 | 40 | 44 | 0352 |
| 319 | 45 | 5 (6) 8961 | 9385 | 9809 | 0233 | 0657 | 1081 | 1505 | 1922 | 2353 | 2777 | 3202 | 3626 | 4051 | 4476 | 4200 | 5325 | 5750 | 38 | 45 | 3 0129 |
| 326 | 48 | 9118 | 9542 | 9266 | 0390 | 0814 | 1238 | 1662 | 2086 | 2510 | 2934 | 3359 | 3783 | 4207 | 4632 | 5057 | 5481 | 5906 | 35 | 46 | 0048 |
| 333 | 47 | 9275 | 9899 | 0123 | 0547 | 0971 | 1395 | 1819 | 2243 | 2667 | 3091 | 3515 | 3940 | 4364 | 4788 | 5213 | 5638 | 6062 | 33 | 47 | 4 9822 |
| 340 | 48 | 9433 | 9857 | 0280 | 0704 | 1128 | 1552 | 1976 | 2422 | 2824 | 3248 | 3672 | 4096 | 4521 | 4945 | 5369 | 5794 | 6219 | 30 | 48 | 2732 |
| 348 | 49 | 9591 | 0014 | 2438 | 0862 | 1285 | 1709 | 2133 | 2557 | 2981 | 3405 | 3829 | 4253 | 4877 | 5101 | 5526 | 5950 | 6375 | 28 | 49 | 9586 |
| 355 | 50 | 5 (8) 9749 | 0172 | 2595 | 1219 | 1443 | 1866 | 2290 | 2714 | 3138 | 3562 | 3286 | 4410 | 4834 | 5258 | 5682 | 6107 | 6531 | 25 | 50 | 4 9433 |
| 362 | 61 | 9906 | 0330 | 0753 | 1176 | 1800 | 2024 | 2447 | 2871 | 3295 | 3719 | 4143 | 4567 | 4991 | 5415 | 5839 | 6263 | 6688 | 22 | 51 | 9279 |
| 369 | 52 | 6 0064 | 0487 | 0911 | 1334 | 1758 | 2181 | 2605 | 3028 | 3482 | 3875 | 4300 | 4724 | 5148 | 5572 | 5996 | 6420 | 6844 | 20 | 62 | 9125 |
| 376 | 82 | 0222 | 0645 | 1069 | 1422 | 1215 | 2339 | 2752 | 3106 | 3802 | 4033 | 4457 | 4881 | 5305 | 5728 | 6153 | 6577 | 7001 | 18 | 53 | 8972 |
| 383 | 54 | 0380 | 0803 | 1226 | 1850 | 2073 | 2496 | 2220 | 3343 | 2767 | 4190 | 4614 | 5038 | 5462 | 5885 | 6309 | 6734 | 7158 | 18 | 54 | 8818 |
| 390 | 55 | 8 0538 | 0961 | 1384 | 1807 | 2231 | 2554 | 3077 | 3500 | 3924 | 4348 | 4771 | 5195 | 5619 | 6042 | 6466 | 6890 | 7314 | 13 | 55 | 4 8664 |
| 397 | 56 | 0696 | 1119 | 1542 | 1965 | 2388 | 2811 | 3235 | 3658 | 4081 | 4505 | 4228 | 5352 | 5776 | 6200 | 6623 | 7047 | 7471 | 10 | 56 | 8510 |
| 404 | 57 | 0854 | 1277 | 1700 | 2123 | 2546 | 2969 | 3392 | 3816 | 4239 | 4662 | 5088 | 5509 | 5233 | 6357 | 8780 | 7204 | 7628 | 8 | 57 | 8358 |
| 411 | 58 | 1013 | 1435 | 1858 | 2281 | 2704 | 3127 | 3550 | 3973 | 4397 | 4820 | 5243 | 5867 | 6090 | 6514 | 6938 | 7361 | 7785 | 5 | 58 | 8202 |
| 418 | 82 | 1171 | 1594 | 2016 | 2439 | 2862 | 3285 | 3708 | 4131 | 4554 | 4977 | 6401 | 5824 | 5248 | 6671 | 7095 | 7518 | 7912 | 2 | 59 | 8048 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 32° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 32° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 (6) 9226 | 9654 | 0083 | 0519 | 0940 | 1369 | 1798 | 2227 | 2656 | 3085 | 3511 | 3944 | 4373 | 4802 | 5232 | 5661 | 6891 | 0 | 0′ | 5 1952 |
| 7 | 1 | 9379 | 9807 | 0236 | 0664 | 1093 | 1522 | 1951 | 2379 | 2808 | 3237 | 3666 | 4095 | 4525 | 4954 | 5383 | 5813 | 6242 | 3 | 1 | 2106 |
| 14 | 2 | 9532 | 9960 | 0388 | 0817 | 1246 | 1674 | 2103 | 2532 | 2961 | 3390 | 3819 | 4248 | 4677 | 5106 | 5535 | 5965 | 6394 | 5 | 2 | 2260 |
| 21 | 3 | 9685 | 0113 | 0541 | 0970 | 1398 | 1827 | 2255 | 2684 | 3113 | 3542 | 3971 | 4400 | 4899 | 5958 | 5687 | 6116 | 6546 | 8 | 3 | 2415 |
| 29 | 4 | 9838 | 0266 | 0694 | 1123 | 1551 | 1979 | 2408 | 2037 | 3265 | 3694 | 4123 | 4552 | 4981 | 5410 | 5839 | 6268 | 6698 | 10 | 4 | 2569 |
| 36 | 5 | 5 (6) 9991 | 0419 | 0847 | 1276 | 1704 | 2132 | 2561 | 2989 | 3418 | 3847 | 4275 | 4704 | 5133 | 5562 | 5991 | 6420 | 6850 | 13 | 5 | 5 2724 |
| 43 | 6 | 6 0111 | 0579 | 1000 | 1428 | 1857 | 2285 | 2714 | 3142 | 3571 | 3999 | 4428 | 4857 | 5285 | 5714 | 6143 | 6572 | 7002 | 16 | 6 | 2878 |
| 50 | 7 | 0297 | 0725 | 1153 | 1581 | 2010 | 2438 | 2866 | 3295 | 3723 | 4152 | 4580 | 5009 | 5438 | 5867 | 6296 | 6721 | 7154 | 18 | 7 | 3033 |
| 57 | 8 | 0451 | 0879 | 1307 | 1735 | 2163 | 2591 | 3019 | 3448 | 3876 | 4304 | 4733 | 5162 | 5590 | 6019 | 6448 | 6877 | 7306 | 21 | 8 | 3187 |
| 64 | 9 | 0601 | 1032 | 1460 | 1888 | 2316 | 2744 | 3172 | 3600 | 4099 | 4457 | 4886 | 5314 | 5743 | 6171 | 5600 | 7029 | 7458 | 23 | 9 | 3312 |
| 71 | 10 | 6 0758 | 1185 | 1613 | 2041 | 2469 | 2897 | 3325 | 3753 | 4182 | 4610 | 5038 | 5467 | 5895 | 6324 | 6753 | 7181 | 7610 | 26 | 10 | 5 3497 |
| 78 | 11 | 0911 | 1339 | 1767 | 2194 | 2622 | 3050 | 3478 | 3906 | 4335 | 4763 | 5191 | 5619 | 6048 | 6476 | 6905 | 7334 | 7762 | 29 | 11 | 3652 |
| 85 | 12 | 1065 | 1492 | 1920 | 2318 | 2776 | 3204 | 3631 | 4059 | 4488 | 4916 | 5344 | 5772 | 6201 | 6629 | 7058 | 7486 | 7915 | 31 | 12 | 3807 |
| 93 | 13 | 1219 | 1646 | 2074 | 2501 | 2929 | 3357 | 3785 | 4213 | 4641 | 5069 | 5497 | 5925 | 6353 | 6782 | 7210 | 7639 | 8067 | 34 | 13 | 3962 |
| 100 | 14 | 1372 | 1800 | 2227 | 2655 | 3083 | 3510 | 3938 | 4366 | 4794 | 5222 | 5650 | 6078 | 6506 | 6935 | 7363 | 7791 | 8990 | 36 | 14 | 4117 |
| 107 | 15 | 6 1526 | 1951 | 2381 | 2809 | 3236 | 3664 | 4091 | 4519 | 4947 | 5375 | 5803 | 6231 | 6659 | 7087 | 7516 | 7944 | 8372 | 39 | 15 | 5 4279 |
| 114 | 16 | 1680 | 2107 | 2535 | 2962 | 3390 | 3817 | 4245 | 4673 | 5100 | 5528 | 5956 | 6384 | 6812 | 7240 | 7668 | 8097 | 8525 | 42 | 16 | 4427 |
| 121 | 17 | 1834 | 2261 | 2689 | 3116 | 3543 | 3971 | 4398 | 4826 | 5254 | 5681 | 6109 | 6537 | 6965 | 7393 | 7821 | 8250 | 8678 | 44 | 17 | 4583 |
| 128 | 18 | 1988 | 2415 | 2843 | 3270 | 3697 | 4125 | 4552 | 4980 | 5407 | 5835 | 6263 | 6690 | 7118 | 7546 | 7974 | 8402 | 8831 | 47 | 18 | 4738 |
| 135 | 19 | 2142 | 2569 | 2997 | 3424 | 3851 | 4278 | 4706 | 5133 | 5561 | 5988 | 6416 | 6844 | 7272 | 7699 | 8127 | 8555 | 8983 | 49 | 19 | 4894 |
| 142 | 20 | 6 2297 | 2724 | 3151 | 3578 | 4005 | 4432 | 4859 | 5287 | 5714 | 6142 | 6569 | 6997 | 7425 | 7853 | 8280 | 0708 | 9136 | 52 | 20 | 5 5049 |
| 150 | 21 | 2451 | 2878 | 3305 | 3732 | 4159 | 4586 | 5013 | 5440 | 5868 | 6995 | 6723 | 7150 | 7578 | 8006 | 8134 | 8861 | 9289 | 55 | 21 | 5205 |
| 157 | 22 | 2605 | 3032 | 3459 | 3886 | 4313 | 4740 | 5167 | 5594 | 6022 | 6449 | 6876 | 7304 | 7732 | 8159 | 8587 | 9015 | 9443 | 57 | 22 | 5360 |
| 164 | 23 | 2760 | 3186 | 3613 | 4040 | 4467 | 4894 | 5321 | 5748 | 6175 | 6603 | 7030 | 7458 | 7885 | 8313 | 8740 | 9168 | 9596 | 60 | 23 | 5516 |
| 171 | 24 | 2914 | 3341 | 3767 | 4194 | 4621 | 5048 | 5475 | 5902 | 6329 | 6756 | 7184 | 7611 | 8039 | 8466 | 8894 | 9321 | 9749 | 62 | 24 | 5672 |
| 178 | 25 | 6 3069 | 3495 | 3922 | 4349 | 4775 | 5202 | 5629 | 6056 | 6483 | 6910 | 7338 | 7765 | 8192 | 8620 | 9047 | 9475 | 9902 | 65 | 25 | 5 5828 |
| 185 | 26 | 6 (7) 3223 | 3650 | 4076 | 4503 | 4930 | 5356 | 5783 | 6210 | 6637 | 7064 | 7491 | 7919 | 8346 | 8773 | 9201 | 9628 | 0056 | 68 | 26 | 6984 |
| 192 | 27 | 3378 | 3804 | 4231 | 4657 | 5084 | 5511 | 5937 | 6364 | 6791 | 7218 | 7645 | 8072 | 8500 | 8927 | 9354 | 9782 | 0209 | 70 | 27 | 6140 |
| 199 | 28 | 3533 | 3959 | 4386 | 4812 | 5239 | 5665 | 6092 | 6519 | 6946 | 7372 | 7799 | 8226 | 8653 | 9081 | 9508 | 9935 | 0363 | 73 | 28 | 6296 |
| 206 | 29 | 3688 | 4114 | 4540 | 4967 | 5393 | 5820 | 6246 | 6673 | 7100 | 7527 | 7953 | 8380 | 8807 | 9234 | 9562 | 0089 | 0516 | 75 | 29 | 6452 |
| 214 | 30 | 6 (7) 3843 | 4269 | 4695 | 5121 | 5548 | 5974 | 6401 | 6827 | 7254 | 7681 | 8108 | 8534 | 8961 | 9388 | 9815 | 0243 | 0670 | 78 | 30 | 5 6609 |
| 221 | 31 | 3998 | 4424 | 4850 | 5275 | 5702 | 6129 | 6555 | 6982 | 7408 | 7835 | 8262 | 8689 | 9115 | 9542 | 9969 | 0396 | 0824 | 81 | 31 | 6765 |
| 228 | 32 | 4153 | 4579 | 5005 | 5431 | 5857 | 6283 | 6710 | 7136 | 7563 | 7989 | 8416 | 8843 | 9269 | 9696 | 0123 | 0550 | 0977 | 83 | 32 | 6921 |
| 235 | 33 | 4308 | 4734 | 5160 | 5586 | 6012 | 6438 | 6864 | 7291 | 7717 | 8144 | 8578 | 8997 | 9424 | 9850 | 0277 | 0704 | 1131 | 86 | 33 | 7078 |
| 242 | 34 | 4463 | 4889 | 5315 | 5741 | 6167 | 6593 | 7019 | 7445 | 7872 | 8298 | 8725 | 9151 | 9678 | 0005 | 0131 | 0858 | 1285 | 88 | 34 | 7234 |
| 249 | 35 | 6 (7) 4618 | 5044 | 5470 | 5896 | 6322 | 6748 | 7174 | 7600 | 8026 | 8453 | 8879 | 9306 | 9739 | 0159 | 0585 | 1012 | 1439 | 91 | 35 | 5 7391 |
| 256 | 36 | 4774 | 5199 | 5625 | 6051 | 6477 | 6903 | 7329 | 7755 | 8181 | 8687 | 9034 | 9460 | 9887 | 0313 | 0740 | 1166 | 1593 | 94 | 36 | 7547 |
| 263 | 37 | 4929 | 5355 | 5780 | 6206 | 6632 | 7058 | 7484 | 7910 | 8336 | 8762 | 9188 | 9615 | 0041 | 0468 | 0894 | 1321 | 1747 | 96 | 37 | 7704 |
| 270 | 38 | 5085 | 5510 | 5936 | 6361 | 6787 | 7213 | 7539 | 8065 | 8491 | 8917 | 9343 | 9769 | 0196 | 0522 | 1048 | 1475 | 1902 | 99 | 38 | 7861 |
| 278 | 39 | 5240 | 5666 | 6091 | 6517 | 6919 | 7368 | 7794 | 8220 | 8646 | 9072 | 9498 | 9924 | 0350 | 0777 | 1203 | 1629 | 2056 | 101 | 39 | 8018 |
| 285 | 40 | 6 (7) 5396 | 5821 | 6247 | 6672 | 7098 | 7523 | 7949 | 8375 | 8801 | 9227 | 9653 | 0079 | 0505 | 0931 | 1357 | 1784 | 2210 | 104 | 40 | 5 8175 |
| 292 | 41 | 5551 | 5977 | 6402 | 6827 | 7253 | 7679 | 8104 | 8530 | 8956 | 9382 | 9808 | 0234 | 0660 | 1086 | 1512 | 1938 | 2365 | 107 | 41 | 8332 |
| 299 | 42 | 5707 | 6132 | 6558 | 6983 | 7408 | 7834 | 8259 | 8685 | 9111 | 9537 | 9963 | 0388 | 0814 | 1240 | 1567 | 2093 | 2519 | 109 | 42 | 8489 |
| 306 | 43 | 5863 | 6288 | 6713 | 7139 | 7564 | 7989 | 8415 | 8840 | 9266 | 9692 | 0118 | 0543 | 0969 | 1395 | 1821 | 2247 | 2674 | 112 | 43 | 8646 |
| 313 | 44 | 6019 | 6444 | 6869 | 7294 | 7719 | 8145 | 8570 | 8996 | 9421 | 9847 | 0273 | 0698 | 1124 | 1550 | 1976 | 2402 | 2028 | 114 | 44 | 8804 |
| 320 | 45 | 6 (7) 6175 | 6600 | 7025 | 7450 | 7875 | 8300 | 8726 | 9151 | 9577 | 0002 | 0428 | 0853 | 1279 | 1705 | 2131 | 2557 | 2983 | 117 | 45 | 5 8961 |
| 327 | 46 | 6331 | 6756 | 7181 | 7606 | 8031 | 8456 | 8881 | 9307 | 9732 | 0158 | 0583 | 1009 | 1434 | 1860 | 2286 | 2712 | 3138 | 120 | 46 | 9110 |
| 335 | 47 | 6487 | 6912 | 7337 | 7762 | 8187 | 8612 | 9037 | 9462 | 9088 | 0313 | 0738 | 1164 | 1590 | 2015 | 2441 | 2867 | 3293 | 122 | 47 | 9276 |
| 342 | 48 | 6643 | 7868 | 7493 | 7918 | 8343 | 8768 | 9193 | 9618 | 0043 | 0468 | 0894 | 1319 | 1745 | 2170 | 2596 | 3022 | 3448 | 125 | 48 | 9433 |
| 349 | 49 | 6799 | 7224 | 7649 | 8074 | 8499 | 8924 | 9348 | 9774 | 0199 | 0624 | 1049 | 1475 | 1900 | 2326 | 2751 | 3177 | 3603 | 127 | 49 | 9591 |
| 356 | 50 | 6 (7) 6956 | 7380 | 7805 | 8230 | 8655 | 9079 | 9504 | 9929 | 0354 | 0780 | 1205 | 1630 | 2055 | 2481 | 2906 | 3332 | 3758 | 130 | 50 | 5 9749 |
| 363 | 51 | 7112 | 7537 | 7961 | 8386 | 8811 | 9235 | 9660 | 0085 | 0510 | 0935 | 1360 | 1786 | 2211 | 2636 | 3062 | 3487 | 3913 | 133 | 51 | 9906 |
| 370 | 52 | 7269 | 7693 | 8118 | 8542 | 8967 | 9392 | 9816 | 0241 | 0656 | 1091 | 1516 | 1941 | 2356 | 2792 | 3217 | 3642 | 4068 | 135 | 52 | 6 0064 |
| 377 | 53 | 7425 | 7850 | 8274 | 8698 | 9123 | 9548 | 9972 | 0397 | 0822 | 1247 | 1672 | 2097 | 2522 | 2947 | 3372 | 3798 | 4223 | 138 | 53 | 0222 |
| 384 | 54 | 7589 | 8006 | 8130 | 8855 | 9979 | 9704 | 0128 | 0553 | 0978 | 1403 | 1828 | 2253 | 2678 | 3103 | 3528 | 3953 | 4379 | 140 | 54 | 0380 |
| 391 | 55 | 6 (7) 7738 | 8163 | 8587 | 9011 | 9436 | 9860 | 0285 | 0709 | 1134 | 1559 | 1984 | 2400 | 2833 | 3258 | 3683 | 4109 | 4534 | 143 | 55 | 6 0538 |
| 399 | 56 | 7895 | 8319 | 8744 | 9168 | 9592 | 0016 | 0441 | 0865 | 1290 | 1715 | 2139 | 2564 | 2989 | 3414 | 3839 | 4264 | 4589 | 146 | 56 | 0696 |
| 406 | 57 | 8052 | 8476 | 8900 | 9324 | 9749 | 0173 | 0597 | 1022 | 1446 | 1871 | 2296 | 2720 | 3145 | 3570 | 3995 | 4420 | 4845 | 148 | 57 | 0854 |
| 413 | 58 | 8209 | 8633 | 9057 | 9481 | 9905 | 0329 | 0754 | 1178 | 1603 | 2027 | 2452 | 2875 | 3301 | 3726 | 4151 | 4575 | 5001 | 151 | 58 | 1013 |
| 420 | 59 | 8366 | 8790 | 9214 | 9538 | 0062 | 0486 | 0910 | 1334 | 1759 | 2183 | 2608 | 3032 | 3457 | 3882 | 4306 | 4731 | 5156 | 153 | 59 | 1171 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 33° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 16' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 33° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 1329 | 1752 | 2175 | 2597 | 3020 | 3443 | 3866 | 4289 | 4712 | 5135 | 5558 | 5982 | 6496 | 6828 | 7262 | 7676 | 9999 | 156 | 0' | 4 7994 |
| 7 | 1 | 1489 | 1910 | 2333 | 2756 | 3178 | 3601 | 4024 | 4447 | 4879 | 5293 | 5716 | 6139 | 6563 | 6986 | 7409 | 7033 | 8256 | 153 | 1 | 7740 |
| 14 | 2 | 1646 | 2969 | 2491 | 2914 | 3336 | 3759 | 4182 | 4605 | 6928 | 5451 | 5874 | 6207 | 6729 | 7143 | 7667 | 7990 | 8414 | 151 | 2 | 7585 |
| 21 | 3 | 1805 | 2227 | 2650 | 3972 | 3495 | 3917 | 4340 | 4763 | 6186 | 5609 | 6032 | 6455 | 6878 | 7301 | 7724 | 8148 | 9571 | 148 | 3 | 7431 |
| 28 | 4 | 1964 | 2386 | 2890 | 3231 | 3653 | 4076 | 4498 | 4921 | 5344 | 5767 | 6190 | 6612 | 7036 | 7469 | 7882 | 8305 | 0728 | 146 | 4 | 7276 |
| 35 | 5 | 6 2122 | 2546 | 2967 | 3389 | 3812 | 4234 | 4657 | 5079 | 5502 | 5926 | 6347 | 6770 | 7193 | 7616 | 8039 | 8463 | 8886 | 143 | 5 | 4 7122 |
| 42 | 6 | 2981 | 2703 | 3125 | 3548 | 3970 | 4393 | 4815 | 5237 | 5660 | 6983 | 6505 | 6928 | 7351 | 7774 | 8197 | 0620 | 9043 | 140 | 6 | 6967 |
| 49 | 7 | 2449 | 9862 | 3204 | 3706 | 4129 | 1551 | 4973 | 5396 | 5818 | 6241 | 6664 | 7086 | 7599 | 7932 | 8355 | 8778 | 9201 | 138 | 7 | 6813 |
| 56 | 0 | 2590 | 3021 | 3443 | 3865 | 4287 | 4709 | 5132 | 5554 | 5977 | 6399 | 6822 | 7244 | 7667 | 8090 | 8513 | 0936 | 2369 | 135 | 6 | 6658 |
| 63 | 0 | 2768 | 3189 | 3602 | 4924 | 4446 | 4868 | 5290 | 5713 | 6135 | 6557 | 6980 | 7492 | 7825 | 8248 | 8671 | 9094 | 0516 | 133 | 9 | 0603 |
| 79 | 10 | 0 2917 | 3339 | 3761 | 4183 | 4605 | 5027 | 5440 | 5871 | 6293 | 6716 | 7138 | 7661 | 7983 | 8406 | 8820 | 9251 | 0674 | 130 | 10 | 4 6340 |
| 77 | 11 | 3076 | 3498 | 3220 | 4349 | 4764 | 5186 | 5608 | 6030 | 6452 | 6874 | 7297 | 7719 | 8142 | 8564 | 8987 | 9409 | 9032 | 127 | 11 | 6103 |
| 84 | 12 | 3236 | 3667 | 4079 | 4691 | 4923 | 5344 | 5760 | 6188 | 6611 | 7033 | 7455 | 7877 | 8300 | 8722 | 9146 | 9567 | 9990 | 125 | 12 | 6938 |
| 91 | 13 | 6 (7) 3395 | 3817 | 4238 | 4669 | 6982 | 5503 | 5925 | 6347 | 6769 | 7191 | 7614 | 8036 | 8458 | 8881 | 9393 | 9725 | 9148 | 122 | 13 | 5083 |
| 98 | 14 | 3554 | 3976 | 4327 | 4819 | 5241 | 5662 | 6084 | 6506 | 6920 | 7350 | 7772 | 0104 | 8617 | 2039 | 2461 | 0984 | 0396 | 120 | 14 | 5729 |
| 105 | 16 | 6 (7) 3714 | 4135 | 4557 | 4978 | 5400 | 5821 | 6243 | 6666 | 7087 | 7592 | 7931 | 8353 | 8775 | 9107 | 9620 | 0042 | 0464 | 117 | 15 | 4 5673 |
| 112 | 16 | 3873 | 4995 | 4716 | 5137 | 5559 | 5981 | 6409 | 6824 | 7246 | 7668 | 8999 | 8612 | 8934 | 9356 | 9770 | 0290 | 0623 | 114 | 10 | 6417 |
| 119 | 17 | 4033 | 4454 | 4875 | 5997 | 5718 | 6149 | 6561 | 6983 | 7405 | 7826 | 8248 | 8670 | 9092 | 9514 | 9936 | 9369 | 9781 | 119 | 17 | 6202 |
| 126 | 18 | 4193 | 4614 | 5935 | 5456 | 5878 | 6299 | 6721 | 7142 | 7604 | 7985 | 8407 | 8829 | 9951 | 9673 | 9995 | 9517 | 9939 | 109 | 10 | 5106 |
| 133 | 19 | 4352 | 4773 | 5195 | 5610 | 6037 | 6458 | 6889 | 7391 | 7723 | 8144 | 8566 | 8988 | 9410 | 9839 | 0254 | 9070 | 1098 | 107 | 12 | 4961 |
| 149 | 20 | 6 (7) 4512 | 4933 | 5354 | 5775 | 6197 | 6618 | 7039 | 7461 | 7882 | 8304 | 8725 | 0147 | 9569 | 9990 | 0412 | 0834 | 1256 | 104 | 26 | 4 4796 |
| 147 | 21 | 4672 | 5093 | 5514 | 5236 | 6366 | 6777 | 7199 | 7620 | 8041 | 8463 | 8884 | 9396 | 9728 | 0149 | 0571 | 0993 | 1415 | 101 | 21 | 4649 |
| 154 | 22 | 4832 | 5253 | 5674 | 0996 | 0516 | 6937 | 7358 | 7779 | 8290 | 8629 | 9943 | 9466 | 9807 | 0398 | 0739 | 1152 | 1574 | 99 | 22 | 4484 |
| 161 | 23 | 4952 | 5413 | 6833 | 6254 | 6675 | 7996 | 7518 | 7939 | 0360 | 8781 | 2203 | 9624 | 9946 | 0467 | 0889 | 1319 | 1732 | 26 | 23 | 4328 |
| 168 | 24 | 5162 | 5573 | 6993 | 0414 | 6835 | 7256 | 7677 | 8998 | 8510 | 8941 | 9362 | 9783 | 0905 | 9696 | 1048 | 1469 | 1891 | 04 | 24 | 4172 |
| 175 | 25 | 6 (7) 5319 | 5733 | 6153 | 6574 | 6995 | 7416 | 7837 | 8258 | 8679 | 9100 | 9521 | 9942 | 0364 | 0795 | 1207 | 1628 | 2059 | 91 | 25 | 4 4916 |
| 182 | 26 | 6172 | 5893 | 6314 | 6734 | 7155 | 7576 | 7997 | 8417 | 8838 | 9269 | 9681 | 0192 | 0523 | 9944 | 1366 | 1787 | 2209 | 99 | 26 | 3868 |
| 109 | 27 | 6633 | 6953 | 6474 | 6894 | 7315 | 7730 | 8166 | 8577 | 8998 | 9419 | 9840 | 0961 | 9682 | 1104 | 1525 | 1946 | 2368 | 86 | 27 | 3794 |
| 197 | 90 | 5793 | 6214 | 6634 | 7854 | 7476 | 7896 | 8316 | 8737 | 9158 | 9579 | 0909 | 0421 | 9842 | 1963 | 1684 | 2196 | 2527 | 63 | 20 | 3540 |
| 294 | 29 | 5954 | 6374 | 6794 | 7215 | 7635 | 8056 | 8476 | 8897 | 2318 | 2730 | 0159 | 0580 | 1001 | 1422 | 1844 | 2295 | 2686 | 61 | 22 | 3391 |
| 211 | 30 | 6 (7) 6114 | 6534 | 6955 | 7376 | 7795 | 8216 | 8636 | 9057 | 9477 | 9898 | 9319 | 0740 | 1161 | 1582 | 2903 | 2424 | 9845 | 78 | 30 | 4 3235 |
| 218 | 31 | 6275 | 6695 | 7116 | 7535 | 7956 | 8376 | 8796 | 9217 | 9637 | 9958 | 9479 | 9900 | 1320 | 1741 | 2162 | 2684 | 3905 | 76 | 31 | 3079 |
| 225 | 32 | 6435 | 6855 | 7275 | 7696 | 8116 | 8536 | 8956 | 9377 | 9797 | 0218 | 0639 | 1059 | 1480 | 1901 | 2322 | 2743 | 3164 | 73 | 32 | 2922 |
| 232 | 33 | 6596 | 7016 | 7436 | 7856 | 9276 | 8696 | 9117 | 9537 | 9958 | 0378 | 0799 | 1219 | 1640 | 2061 | 2481 | 2982 | 3323 | 70 | 33 | 2766 |
| 239 | 34 | 6757 | 7177 | 7597 | 0017 | 8437 | 8857 | 9277 | 9697 | 9119 | 9538 | 0959 | 1379 | 1099 | 9290 | 2641 | 3902 | 3483 | 68 | 34 | 2609 |
| 246 | 35 | 6 (7) 6918 | 7338 | 7757 | 8177 | 8597 | 9017 | 9437 | 9858 | 0278 | 0698 | 1119 | 1539 | 1960 | 2389 | 2801 | 3222 | 3642 | 65 | 35 | 4 2453 |
| 253 | 36 | 7079 | 7498 | 7919 | 8338 | 8768 | 9178 | 9698 | 0018 | 0438 | 0868 | 1279 | 1699 | 2129 | 2640 | 2961 | 3391 | 3802 | 69 | 36 | 2226 |
| 269 | 37 | 7240 | 7660 | 0079 | 8499 | 8919 | 9338 | 9758 | 0178 | 0599 | 1019 | 1439 | 1859 | 2289 | 2700 | 3121 | 3541 | 3962 | 69 | 37 | 2139 |
| 267 | 30 | 7401 | 7820 | 8240 | 8609 | 9079 | 9499 | 2919 | 9339 | 9759 | 1170 | 1599 | 2019 | 2440 | 9869 | 3981 | 3701 | 4192 | 57 | 30 | 1982 |
| 274 | 39 | 7569 | 7991 | 8401 | 0829 | 2949 | 9660 | 0980 | 9509 | 0919 | 1339 | 1760 | 2189 | 2609 | 3920 | 3441 | 3861 | 4281 | 65 | 32 | 1895 |
| 281 | 40 | 6 (7) 7723 | 9143 | 8562 | 8981 | 9401 | 9821 | 0240 | 0660 | 1080 | 1509 | 1920 | 2340 | 2760 | 3180 | 3601 | 4091 | 4441 | 62 | 40 | 4 1668 |
| 208 | 41 | 7884 | 8304 | 8723 | 9143 | 9562 | 9982 | 0491 | 0821 | 1241 | 1661 | 2980 | 2500 | 2991 | 3341 | 3761 | 4181 | 4601 | 49 | 41 | 1511 |
| 295 | 49 | 0046 | 0465 | 8084 | 9394 | 2723 | 0142 | 0662 | 9989 | 1401 | 1821 | 2241 | 2661 | 3901 | 3501 | 3921 | 4341 | 4761 | 47 | 42 | 1354 |
| 302 | 43 | 0297 | 0626 | 9046 | 9165 | 9884 | 9394 | 9723 | 1143 | 1562 | 1902 | 2402 | 2891 | 3241 | 3661 | 4981 | 4591 | 4922 | 44 | 43 | 1196 |
| 309 | 44 | 9369 | 8788 | 9207 | 9626 | 0945 | 9465 | 0884 | 1384 | 1723 | 2143 | 2662 | 2982 | 3409 | 3822 | 4242 | 4662 | 6982 | 42 | 44 | 1039 |
| 316 | 45 | 6 (7) 0530 | 8949 | 9368 | 9787 | 0207 | 9626 | 1045 | 1465 | 1884 | 9393 | 2723 | 3143 | 3562 | 3999 | 4402 | 4892 | 5242 | 39 | 45 | 4 0899 |
| 323 | 46 | 8692 | 9111 | 9530 | 9949 | 0368 | 0787 | 1206 | 1626 | 2945 | 2464 | 2884 | 3393 | 3723 | 4143 | 4563 | 4983 | 5492 | 36 | 46 | 0724 |
| 330 | 47 | 6054 | 9272 | 9691 | 9119 | 0629 | 9949 | 1368 | 1787 | 2206 | 2695 | 3946 | 3464 | 3884 | 4394 | 4723 | 6143 | 5663 | 34 | 47 | 9507 |
| 337 | 40 | 9915 | 9434 | 9853 | 0272 | 9691 | 1110 | 1529 | 1948 | 2367 | 2786 | 3296 | 3625 | 4946 | 4464 | 4994 | 6394 | 5723 | 31 | 49 | 9409 |
| 344 | 49 | 9177 | 9596 | 0015 | 0433 | 9952 | 1271 | 1690 | 2190 | 2628 | 2949 | 3367 | 3786 | 4296 | 4625 | 5946 | 6464 | 5884 | 29 | 49 | 0261 |
| 351 | 69 | 0 (7) 9339 | 9758 | 0176 | 0696 | 1014 | 1433 | 1852 | 2271 | 9699 | 3199 | 3520 | 3947 | 4397 | 4786 | 5995 | 5026 | 6044 | 26 | 59 | 4 9994 |
| 368 | 51 | 9601 | 9928 | 0330 | 0767 | 1176 | 1594 | 2013 | 2432 | 2851 | 3270 | 3689 | 4198 | 4698 | 4947 | 5366 | 6796 | 6205 | 23 | 51 | 3 0936 |
| 365 | 52 | 9663 | 9982 | 0599 | 0919 | 1337 | 1756 | 2176 | 2594 | 3912 | 3431 | 3869 | 4269 | 4689 | 6198 | 5597 | 6946 | 6366 | 21 | 52 | 9778 |
| 372 | 53 | 9826 | 9244 | 6662 | 1991 | 1499 | 1916 | 2336 | 2755 | 3174 | 3693 | 4012 | 4431 | 4950 | 6969 | 6698 | 6197 | 6527 | 19 | 53 | 2620 |
| 379 | 54 | 9989 | 9406 | 6924 | 1243 | 1661 | 2079 | 2496 | 2917 | 3335 | 3754 | 4173 | 4609 | 5011 | 5430 | 5849 | 6268 | 6688 | 16 | 64 | 2462 |
| 366 | 65 | 7 0159 | 9568 | 0986 | 1495 | 1823 | 2941 | 2660 | 3076 | 3497 | 3916 | 4335 | 4753 | 5172 | 6591 | 0919 | 0429 | 6849 | 13 | 55 | 3 0304 |
| 393 | 56 | 6312 | 0730 | 1149 | 1567 | 1985 | 2493 | 2822 | 3949 | 3650 | 4077 | 4496 | 4915 | 5334 | 6752 | 6172 | 6591 | 7910 | 18 | 66 | 2146 |
| 400 | 57 | 0475 | 0993 | 1311 | 1720 | 2147 | 2605 | 2984 | 2402 | 3920 | 4239 | 4658 | 6076 | 5495 | 6014 | 6333 | 0752 | 7171 | 8 | 57 | 9907 |
| 407 | 59 | 6637 | 1955 | 1473 | 1891 | 2399 | 2727 | 3146 | 3584 | 3092 | 4491 | 4819 | 6238 | 5067 | 6076 | 9494 | 0913 | 7332 | 5 | 68 | 8829 |
| 414 | 59 | 0990 | 1218 | 1635 | 2053 | 2471 | 2809 | 3300 | 3726 | 4144 | 4663 | 4981 | 5400 | 5818 | 6237 | 6666 | 7974 | 7493 | 3 | 50 | 8671 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 33° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 (7) 8523 | 8946 | 9371 | 9794 | 0219 | 0643 | 1067 | 1491 | 1915 | 9340 | 2764 | 3188 | 3613 | 4030 | 4469 | 4887 | 5312 |
| 7 | 1 | 8680 | 9104 | 9528 | 9951 | 0375 | 0799 | 1223 | 1647 | 2072 | 2496 | 2920 | 3345 | 3769 | 4194 | 4618 | 5043 | 5468 |
| 14 | 2 | 8837 | 9261 | 9685 | 0108 | 0532 | 0956 | 1380 | 1804 | 2228 | 2652 | 3077 | 3501 | 3925 | 4350 | 4774 | 5199 | 5624 |
| 21 | 3 | 8994 | 9418 | 9842 | 0265 | 0689 | 1113 | 1537 | 1961 | 2385 | 2809 | 3233 | 3657 | 4089 | 4506 | 4931 | 5355 | 5700 |
| 28 | 4 | 9152 | 9575 | 9999 | 0422 | 0846 | 1270 | 1694 | 2117 | 2542 | 2965 | 3390 | 3814 | 1230 | 4662 | 5087 | 5511 | 5936 |
| 35 | 5 | 6 (7) 9309 | 9733 | 0156 | 0580 | 1003 | 1427 | 1851 | 2274 | 2698 | 3122 | 3546 | 3970 | 4394 | 4819 | 5243 | 5667 | 6092 |
| 42 | 6 | 9467 | 9890 | 0313 | 0737 | 1160 | 1584 | 2008 | 2431 | 9855 | 3279 | 3703 | 4127 | 4551 | 4975 | 5399 | 5824 | 6248 |
| 49 | 7 | 9624 | 0047 | 0471 | 0894 | 1317 | 1741 | 2165 | 2588 | 3012 | 3436 | 3860 | 4284 | 4707 | 5132 | 5556 | 5980 | 6404 |
| 56 | 8 | 9782 | 0205 | 0628 | 1051 | 1475 | 1898 | 2322 | 2745 | 3169 | 3523 | 4016 | 4440 | 4864 | 5288 | 5712 | 6136 | 6560 |
| 63 | 9 | 2939 | 0363 | 0786 | 1909 | 1632 | 2055 | 2479 | 2902 | 3326 | 3750 | 4173 | 4597 | 5021 | 5445 | 5869 | 6293 | 6717 |
| 70 | 10 | 7 0097 | 0520 | 0943 | 1366 | 1790 | 2213 | 2636 | 3060 | 3483 | 3907 | 4330 | 4754 | 5178 | 5601 | 6025 | 6449 | 6873 |
| 77 | 11 | 0255 | 0678 | 1101 | 1594 | 1947 | 2370 | 2793 | 3217 | 3640 | 4064 | 4487 | 4911 | 5334 | 5758 | 6182 | 6506 | 7030 |
| 84 | 12 | 0413 | 0836 | 1259 | 1682 | 2105 | 2528 | 2951 | 3374 | 3797 | 4221 | 4644 | 5068 | 5491 | 5915 | 6339 | 6763 | 7186 |
| 91 | 13 | 0571 | 0994 | 1416 | 1839 | 2262 | 2685 | 3108 | 3531 | 3955 | 4378 | 4801 | 5225 | 5648 | 6072 | 6496 | 6919 | 7343 |
| 98 | 14 | 0729 | 1152 | 1574 | 1997 | 2420 | 2843 | 3966 | 3689 | 4112 | 4535 | 4959 | 5382 | 5805 | 6229 | 6652 | 7076 | 7500 |
| 106 | 15 | 7 0887 | 1310 | 1732 | 2155 | 2578 | 3000 | 3423 | 3846 | 4269 | 4693 | 5116 | 5539 | 5963 | 6386 | 6809 | 7233 | 7657 |
| 113 | 16 | 1045 | 1468 | 1890 | 2313 | 2735 | 3158 | 3581 | 4004 | 4427 | 4850 | 5273 | 5696 | 6120 | 6543 | 6966 | 7390 | 7814 |
| 220 | 17 | 1203 | 1626 | 2048 | 2471 | 2893 | 3316 | 3739 | 4162 | 4585 | 5008 | 5431 | 5854 | 6277 | 6700 | 7124 | 7547 | 7971 |
| 127 | 10 | 1362 | 1784 | 2206 | 2629 | 3051 | 3474 | 3897 | 4319 | 4742 | 5165 | 5588 | 6011 | 6434 | 6857 | 7281 | 7704 | 8128 |
| 134 | 19 | 1590 | 1242 | 2365 | 2787 | 3209 | 3632 | 4855 | 4477 | 4900 | 5323 | 5746 | 6169 | 6592 | 7015 | 7438 | 7861 | 8285 |
| 241 | 20 | 7 1678 | 2101 | 2523 | 2945 | 3368 | 3790 | 4213 | 4635 | 5058 | 5481 | 5903 | 6326 | 6749 | 7172 | 7595 | 8010 | 8442 |
| 148 | 21 | 1837 | 2259 | 2681 | 3103 | 3526 | 3948 | 4371 | 4793 | 5216 | 5638 | 6061 | 6484 | 6907 | 7330 | 7753 | 8176 | 8599 |
| 155 | 22 | 1995 | 2417 | 2840 | 3262 | 3684 | 4106 | 4529 | 4951 | 5374 | 5796 | 6219 | 6642 | 7064 | 7487 | 7910 | 8333 | 8756 |
| 162 | 23 | 2154 | 2576 | 2998 | 3490 | 3842 | 4265 | 4687 | 5109 | 5532 | 5954 | 6377 | 6729 | 7222 | 7645 | 8068 | 8491 | 8913 |
| 169 | 24 | 2313 | 2735 | 3157 | 3579 | 4001 | 4423 | 4845 | 5267 | 5690 | 6112 | 6535 | 6957 | 7380 | 7802 | 8225 | 8648 | 9071 |
| 276 | 95 | 7 2472 | 2893 | 3315 | 3737 | 4159 | 4581 | 5003 | 5426 | 5848 | 6270 | 6693 | 7115 | 7530 | 7960 | 8383 | 8806 | 9228 |
| 183 | 26 | 2631 | 3052 | 3474 | 3896 | 4318 | 4740 | 5162 | 5584 | 6006 | 6428 | 6851 | 7273 | 7695 | 8118 | 8541 | 8963 | 9386 |
| 190 | 27 | 2789 | 3211 | 3633 | 4054 | 4476 | 4898 | 5320 | 5742 | 6164 | 6587 | 7002 | 7431 | 7853 | 8276 | 8698 | 9121 | 9544 |
| 197 | 28 | 2948 | 3370 | 3792 | 4213 | 4635 | 5057 | 5479 | 5201 | 6323 | 6745 | 7167 | 7589 | 8011 | 8434 | 8858 | 9279 | 9701 |
| 204 | 29 | 3108 | 3529 | 3950 | 4379 | 4794 | 5915 | 5637 | 6052 | 6481 | 6903 | 7325 | 7747 | 8170 | 8592 | 9014 | 9437 | 9859 |
| 211 | 30 | 7 (8) 3267 | 3688 | 4109 | 4531 | 4953 | 5374 | 5796 | 6218 | 6640 | 7061 | 7483 | 7206 | 8328 | 8750 | 9172 | 9595 | 0017 |
| 218 | 31 | 3426 | 3847 | 4269 | 4690 | 5112 | 5533 | 5955 | 6376 | 6798 | 7220 | 7642 | 8064 | 8406 | 8908 | 9330 | 9753 | 0175 |
| 225 | 32 | 3585 | 4006 | 4498 | 4849 | 5271 | 5692 | 6113 | 6535 | 6957 | 7379 | 7800 | 8222 | 8644 | 9066 | 9488 | 2911 | 0333 |
| 232 | 33 | 3745 | 4166 | 4587 | 5008 | 5430 | 5851 | 6272 | 6694 | 7115 | 7537 | 7959 | 8301 | 8803 | 9225 | 9647 | 0069 | 0491 |
| 239 | 34 | 3904 | 4325 | 4746 | 5167 | 5589 | 6010 | 6431 | 6853 | 7274 | 7696 | 8110 | 8539 | 8961 | 9383 | 9805 | 0227 | 0649 |
| 246 | 35 | 7 (8) 4063 | 4484 | 4905 | 5397 | 5748 | 6169 | 6590 | 7012 | 7433 | 7855 | 8276 | 8698 | 9120 | 9541 | 9963 | 0385 | 0807 |
| 253 | 36 | 4223 | 4644 | 5065 | 5486 | 5907 | 6328 | 6749 | 7171 | 7592 | 0013 | 8435 | 0856 | 9278 | 9700 | 0122 | 0543 | 0965 |
| 260 | 37 | 4383 | 4803 | 5224 | 5645 | 6066 | 6487 | 6908 | 7330 | 7751 | 8172 | 8594 | 9015 | 9437 | 9858 | 0280 | 0702 | 1124 |
| 267 | 38 | 4542 | 4963 | 5384 | 5805 | 6226 | 6647 | 7068 | 7489 | 7210 | 8331 | 8753 | 9174 | 9596 | 0017 | 0439 | 0860 | 1282 |
| 274 | 39 | 4702 | 5123 | 5543 | 5264 | 6385 | 6806 | 7227 | 7648 | 8069 | 8490 | 8912 | 9333 | 2754 | 0176 | 0597 | 1012 | 1441 |
| 281 | 40 | 7 (8) 4862 | 5282 | 5703 | 6124 | 6545 | 6965 | 7386 | 7807 | 8228 | 8649 | 9071 | 9492 | 9913 | 0335 | 0756 | 1178 | 1599 |
| 288 | 41 | 5022 | 5442 | 5863 | 6283 | 6704 | 7125 | 7546 | 7967 | 8388 | 8809 | 9230 | 9651 | 0072 | 0493 | 0915 | 1336 | 1758 |
| 295 | 42 | 5182 | 5602 | 6023 | 6443 | 6864 | 7284 | 7705 | 8126 | 8547 | 8968 | 9389 | 2810 | 0231 | 0652 | 1074 | 1495 | 1916 |
| 302 | 43 | 5342 | 5762 | 6183 | 6603 | 7023 | 7444 | 7865 | 8285 | 8706 | 9127 | 9548 | 9969 | 0390 | 0811 | 1233 | 1654 | 2075 |
| 309 | 44 | 5502 | 5922 | 6343 | 6763 | 7183 | 7604 | 8024 | 8445 | 8866 | 9287 | 9707 | 0128 | 0549 | 0970 | 1392 | 1813 | 2234 |
| 317 | 45 | 7 (8) 5662 | 6082 | 6503 | 6923 | 7343 | 7764 | 8184 | 8605 | 9025 | 9446 | 9867 | 0280 | 0709 | 1130 | 1551 | 1972 | 2393 |
| 324 | 46 | 5822 | 6242 | 6663 | 7083 | 7503 | 7923 | 8344 | 8764 | 9185 | 9606 | 0026 | 0447 | 0868 | 1289 | 1710 | 2131 | 2552 |
| 331 | 47 | 5983 | 6403 | 6823 | 7243 | 7663 | 8083 | 8504 | 8924 | 9345 | 9765 | 0186 | 0606 | 1027 | 1448 | 1869 | 2290 | 2711 |
| 338 | 48 | 6143 | 6563 | 6983 | 7403 | 7823 | 8243 | 8664 | 9084 | 9504 | 2225 | 0345 | 0766 | 1187 | 1607 | 2028 | 2449 | 2870 |
| 345 | 49 | 6304 | 6723 | 7143 | 7563 | 7983 | 8403 | 8824 | 9244 | 9664 | 0084 | 0505 | 0925 | 1346 | 1767 | 2187 | 2608 | 3029 |
| 352 | 50 | 7 (8) 6464 | 6884 | 7304 | 7724 | 8143 | 8564 | 8984 | 9404 | 9824 | 0244 | 0665 | 1085 | 1506 | 1926 | 2347 | 2768 | 3188 |
| 359 | 51 | 6625 | 7044 | 7464 | 7884 | 8304 | 8794 | 9144 | 9564 | 9984 | 0404 | 0824 | 1245 | 1665 | 2086 | 2506 | 2927 | 3348 |
| 366 | 52 | 6785 | 7205 | 7625 | 8044 | 8464 | 8884 | 2304 | 2724 | 0144 | 0564 | 0984 | 1405 | 1825 | 2245 | 2666 | 3086 | 3507 |
| 373 | 53 | 6246 | 7366 | 7785 | 8205 | 8625 | 9044 | 9464 | 9884 | 0304 | 0724 | 1144 | 1564 | 1985 | 2405 | 2825 | 3246 | 3666 |
| 380 | 54 | 7107 | 7526 | 7946 | 8365 | 8785 | 9205 | 9625 | 0044 | 0464 | 0884 | 1304 | 1724 | 2145 | 2565 | 2985 | 3405 | 3826 |
| 387 | 55 | 7 (8) 7268 | 7687 | 8107 | 8526 | 8246 | 2365 | 9785 | 0205 | 0624 | 1044 | 1464 | 1884 | 2304 | 2725 | 3145 | 3565 | 3985 |
| 394 | 56 | 7429 | 7848 | 8267 | 8687 | 9106 | 9526 | 9245 | 0365 | 0785 | 1205 | 1624 | 2044 | 2464 | 2884 | 3305 | 3725 | 4145 |
| 401 | 57 | 7590 | 8009 | 8428 | 8848 | 9267 | 9686 | 0106 | 0525 | 0945 | 1365 | 1785 | 2205 | 2624 | 3044 | 3464 | 3885 | 4305 |
| 408 | 58 | 7751 | 8170 | 0589 | 9008 | 9428 | 2847 | 0266 | 0686 | 1106 | 1525 | 1945 | 2365 | 2785 | 3204 | 3624 | 4044 | 4465 |
| 415 | 59 | 7912 | 8331 | 8750 | 9169 | 9502 | 0008 | 0427 | 0047 | 1266 | 1686 | 2105 | 2525 | 2945 | 3365 | 3784 | 4204 | 4624 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 33° | Núm. |
|---|---|---|
| 0 | 0′ | 6 1322 |
| 3 | 1 | 1488 |
| 5 | 2 | 1646 |
| 8 | 3 | 1805 |
| 11 | 4 | 1964 |
| 13 | 5 | 6 9122 |
| 16 | 6 | 2281 |
| 19 | 7 | 2440 |
| 91 | 8 | 2599 |
| 24 | 9 | 2758 |
| 27 | 10 | 6 2917 |
| 99 | 11 | 3076 |
| 32 | 12 | 3236 |
| 35 | 13 | 3395 |
| 38 | 14 | 3554 |
| 40 | 15 | 6 3714 |
| 43 | 16 | 3073 |
| 46 | 17 | 4033 |
| 48 | 18 | 4193 |
| 51 | 19 | 4352 |
| 54 | 20 | 6 4512 |
| 56 | 21 | 4672 |
| 59 | 29 | 4832 |
| 62 | 23 | 4992 |
| 64 | 24 | 5152 |
| 67 | 95 | 6 5312 |
| 70 | 26 | 5473 |
| 72 | 27 | 5633 |
| 75 | 28 | 5793 |
| 78 | 29 | 5954 |
| 80 | 30 | 6 6114 |
| 83 | 31 | 6275 |
| 86 | 32 | 6435 |
| 89 | 33 | 6596 |
| 91 | 34 | 6757 |
| 94 | 35 | 6 6918 |
| 97 | 36 | 7079 |
| 99 | 37 | 7240 |
| 102 | 38 | 7401 |
| 105 | 39 | 7562 |
| 107 | 40 | 6 7723 |
| 110 | 41 | 7885 |
| 113 | 42 | 0046 |
| 115 | 43 | 8207 |
| 118 | 44 | 8369 |
| 121 | 45 | 6 0530 |
| 123 | 46 | 0692 |
| 126 | 47 | 8854 |
| 129 | 48 | 9016 |
| 131 | 49 | 9177 |
| 134 | 50 | 6 9339 |
| 137 | 51 | 9501 |
| 139 | 62 | 9663 |
| 142 | 53 | 9825 |
| 145 | 54 | 9980 |
| 140 | 55 | 7 0150 |
| 150 | 56 | 0312 |
| 153 | 57 | 0475 |
| 156 | 50 | 0637 |
| 158 | 59 | 0800 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar | 34° | 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 16′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 34° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 7 0962 | 1380 | 1798 | 2216 | 2634 | 3052 | 3470 | 3888 | 4306 | 4724 | 5113 | 5561 | 5980 | 6398 | 6817 | 7236 | 7655 | 161 | 0′ | 3 0512 |
| 7 | 1 | 1125 | 1543 | 1960 | 2378 | 2796 | 3214 | 3632 | 4050 | 4468 | 4886 | 5305 | 5723 | 6141 | 6360 | 6979 | 7327 | 7816 | 150 | 1 | 8354 |
| 14 | 2 | 1288 | 1705 | 2123 | 2541 | 2958 | 3376 | 3794 | 4212 | 4630 | 5048 | 5467 | 5885 | 6303 | 6722 | 7140 | 7559 | 7977 | 156 | 2 | 0196 |
| 21 | 3 | 1451 | 1868 | 2266 | 2703 | 3121 | 3539 | 3957 | 4375 | 4793 | 5211 | 5629 | 6047 | 6465 | 6083 | 7302 | 7720 | 8139 | 153 | 3 | 8036 |
| 28 | 4 | 1614 | 2031 | 2148 | 2866 | 3284 | 3701 | 4119 | 4537 | 4955 | 5373 | 5791 | 6209 | 6627 | 7045 | 7464 | 7882 | 8360 | 150 | 4 | 7877 |
| 35 | 6 | 7 1777 | 2194 | 2611 | 3029 | 3446 | 3864 | 4282 | 4699 | 5117 | 5535 | 5953 | 6371 | 6789 | 7207 | 7625 | 8044 | 8462 | 148 | 5 | 3 7719 |
| 42 | 6 | 1940 | 2357 | 2774 | 3191 | 3609 | 4027 | 1444 | 4862 | 5279 | 5697 | 6115 | 6533 | 6951 | 7369 | 7787 | 8206 | 8624 | 145 | 6 | 7560 |
| 49 | 7 | 2103 | 2520 | 2937 | 3351 | 3772 | 4189 | 4607 | 5024 | 6442 | 5860 | 6277 | 6695 | 7113 | 7531 | 7949 | 8367 | 8786 | 142 | 7 | 7401 |
| 56 | 8 | 2266 | 2603 | 3100 | 3517 | 3935 | 4352 | 4769 | 5187 | 5605 | 6022 | 6140 | 6858 | 7276 | 7693 | 8111 | 8529 | 8948 | 139 | 8 | 7242 |
| 62 | 9 | 2429 | 2846 | 3263 | 3680 | 4090 | 4515 | 1932 | 5350 | 5767 | 6185 | 6602 | 7020 | 7438 | 7856 | 8273 | 8691 | 9110 | 137 | 9 | 7083 |
| 69 | 10 | 7 2593 | 3009 | 3426 | 3843 | 4261 | 1678 | 5095 | 5512 | 5930 | 6317 | 6765 | 7182 | 7600 | 8018 | 8436 | 8854 | 9272 | 134 | 10 | 3 5924 |
| 76 | 11 | 2756 | 3173 | 3590 | 4007 | 4424 | 4841 | 5258 | 6676 | 6092 | 6310 | 6927 | 7345 | 7762 | 8180 | 8598 | 9016 | 9434 | 131 | 11 | 6764 |
| 83 | 12 | 2919 | 3336 | 3753 | 1170 | 4587 | 5004 | 5421 | 5838 | 6255 | 6673 | 7090 | 7607 | 7925 | 8343 | 8760 | 9178 | 9526 | 122 | 12 | 6605 |
| 90 | 13 | 3083 | 3500 | 3916 | 4333 | 4750 | 5167 | 5584 | 6001 | 6418 | 6835 | 7253 | 7670 | 8088 | 8505 | 8923 | 9340 | 9758 | 126 | 13 | 6446 |
| 97 | 14 | 3247 | 3663 | 1080 | 4197 | 4913 | 5330 | 5717 | 6164 | 6581 | 6998 | 7415 | 7833 | 8250 | 8668 | 9085 | 9503 | 9920 | 123 | 14 | 5286 |
| 104 | 15 | 7 (8) 3410 | 3827 | 4243 | 4660 | 5077 | 5493 | 5910 | 6327 | 6744 | 7161 | 7678 | 7996 | 8413 | 8830 | 9248 | 9665 | 0083 | 121 | 15 | 3 6127 |
| 111 | 16 | 3574 | 3990 | 4407 | 4823 | 5240 | 5657 | 6074 | 6490 | 6907 | 7324 | 7741 | 8138 | 8576 | 8993 | 9410 | 9828 | 0245 | 118 | 16 | 5967 |
| 118 | 17 | 3738 | 4154 | 4571 | 4987 | 5404 | 5820 | 6237 | 6654 | 7070 | 7487 | 7904 | 8321 | 8738 | 9156 | 9573 | 9990 | 0407 | 115 | 17 | 6807 |
| 125 | 18 | 3902 | 4318 | 4734 | 5151 | 5567 | 5984 | 6400 | 6817 | 7234 | 7650 | 8067 | 8484 | 8901 | 9318 | 9736 | 0163 | 0570 | 113 | 10 | 5648 |
| 132 | 19 | 4666 | 4182 | 4898 | 5314 | 5731 | 6147 | 6564 | 6980 | 7397 | 7811 | 8230 | 8647 | 9064 | 9481 | 9898 | 0316 | 0733 | 116 | 19 | 6488 |
| 139 | 26 | 7 (8) 4230 | 4646 | 5062 | 5478 | 5894 | 6311 | 6727 | 7144 | 7560 | 7977 | 8394 | 8810 | 9227 | 9644 | 0061 | 0478 | 0895 | 107 | 20 | 3 5328 |
| 146 | 21 | 4394 | 4810 | 5226 | 5642 | 6058 | 6474 | 6891 | 7307 | 7724 | 8140 | 8557 | 8974 | 9390 | 9807 | 0224 | 0641 | 1058 | 105 | 21 | 6168 |
| 153 | 22 | 4558 | 1974 | 5390 | 5806 | 6222 | 6638 | 7054 | 7471 | 7887 | 8304 | 8720 | 9137 | 9554 | 9970 | 0387 | 0804 | 1221 | 102 | 22 | 5008 |
| 160 | 23 | 4722 | 5138 | 5554 | 5970 | 6386 | 6802 | 7218 | 7634 | 8051 | 8467 | 8884 | 9300 | 9717 | 0133 | 0550 | 0967 | 1384 | 99 | 23 | 4048 |
| 166 | 24 | 4886 | 5302 | 5718 | 6134 | 6550 | 6966 | 7382 | 7798 | 8214 | 8631 | 9047 | 9161 | 9880 | 0297 | 0713 | 1130 | 1547 | 97 | 24 | 4688 |
| 173 | 25 | 7 (8) 5051 | 5167 | 5882 | 6298 | 6714 | 7130 | 7546 | 7962 | 8378 | 8794 | 9211 | 9627 | 0044 | 0460 | 0877 | 1293 | 1710 | 94 | 25 | 3 4527 |
| 180 | 26 | 5215 | 5631 | 6647 | 6462 | 6878 | 7294 | 7710 | 8126 | 8542 | 8958 | 9374 | 9791 | 0207 | 0623 | 1040 | 1456 | 1073 | 91 | 26 | 4367 |
| 187 | 27 | 6380 | 5795 | 6211 | 6627 | 7042 | 7458 | 7874 | 8290 | 8706 | 9122 | 9538 | 9954 | 0370 | 0787 | 1203 | 1620 | 2036 | 89 | 27 | 4207 |
| 194 | 28 | 6541 | 5960 | 6376 | 6791 | 7207 | 7622 | 8038 | 8454 | 8870 | 9286 | 9702 | 0118 | 0534 | 0950 | 1367 | 1783 | 2199 | 86 | 28 | 4046 |
| 201 | 29 | 5709 | 6124 | 6540 | 6955 | 7371 | 7786 | 8202 | 8618 | 9034 | 9450 | 9866 | 0282 | 0690 | 1114 | 1530 | 1946 | 2363 | 83 | 22 | 3886 |
| 208 | 30 | 7 (8) 5874 | 6289 | 6701 | 7120 | 7535 | 7951 | 8366 | 8782 | 9198 | 9611 | 0030 | 0145 | 0861 | 1278 | 1694 | 2110 | 2526 | 86 | 36 | 3 3725 |
| 215 | 31 | 6039 | 6454 | 6869 | 7281 | 7700 | 8115 | 8531 | 8946 | 9362 | 9778 | 0194 | 0609 | 1025 | 1441 | 1057 | 2273 | 2690 | 78 | 31 | 3565 |
| 222 | 32 | 6203 | 6618 | 7034 | 7449 | 7064 | 8279 | 8695 | 9110 | 9526 | 9942 | 0358 | 0773 | 1189 | 1605 | 2021 | 2437 | 2853 | 76 | 32 | 3404 |
| 229 | 33 | 6368 | 6783 | 7198 | 7614 | 8029 | 8444 | 8859 | 9275 | 9690 | 0106 | 0522 | 0937 | 1353 | 1769 | 2105 | 2601 | 3017 | 72 | 33 | 3243 |
| 236 | 34 | 6533 | 6948 | 7363 | 7778 | 8193 | 8609 | 9024 | 9439 | 9855 | 0270 | 0686 | 1101 | 1617 | 1933 | 2349 | 2765 | 3101 | 70 | 34 | 3082 |
| 243 | 35 | 7 (8) 6698 | 7113 | 7528 | 7943 | 8358 | 8773 | 9189 | 9604 | 0019 | 0434 | 0850 | 1266 | 1681 | 2097 | 2513 | 2928 | 3344 | 67 | 35 | 3 2921 |
| 250 | 36 | 6864 | 7278 | 7693 | 8108 | 8523 | 8938 | 9353 | 9768 | 0184 | 0599 | 1014 | 1430 | 1843 | 2261 | 2677 | 3092 | 3600 | 64 | 36 | 2760 |
| 257 | 37 | 7029 | 7443 | 7858 | 8273 | 8688 | 9103 | 9518 | 9933 | 0348 | 0763 | 1179 | 1694 | 2009 | 2425 | 2841 | 3256 | 3672 | 62 | 37 | 2699 |
| 264 | 38 | 7194 | 7609 | 8023 | 8438 | 8063 | 9268 | 9683 | 0098 | 0513 | 0928 | 1313 | 1758 | 2174 | 2589 | 3005 | 3420 | 3836 | 69 | 38 | 2438 |
| 270 | 39 | 7359 | 7774 | 8189 | 8603 | 9018 | 9433 | 9848 | 0262 | 0677 | 1092 | 1508 | 1923 | 2338 | 2753 | 3169 | 3584 | 4000 | 56 | 39 | 2277 |
| 277 | 40 | 7 (8) 7525 | 7939 | 8354 | 8768 | 9183 | 9598 | 0012 | 0427 | 0842 | 1257 | 1672 | 2087 | 2503 | 2918 | 3333 | 3748 | 4164 | 64 | 40 | 3 2115 |
| 284 | 41 | 7690 | 8105 | 8519 | 8934 | 9348 | 9763 | 0177 | 0592 | 1007 | 1122 | 1837 | 2252 | 2667 | 3082 | 3497 | 3913 | 4328 | 61 | 41 | 1954 |
| 291 | 42 | 7856 | 8270 | 8684 | 9699 | 9513 | 9928 | 0342 | 0757 | 1172 | 1587 | 2001 | 2417 | 2832 | 3247 | 3662 | 4677 | 4492 | 48 | 42 | 1793 |
| 298 | 43 | 8022 | 8436 | 8850 | 9264 | 9679 | 0093 | 0568 | 0922 | 1337 | 1752 | 2166 | 2581 | 2996 | 3411 | 3826 | 4241 | 4667 | 46 | 43 | 1631 |
| 365 | 44 | 8187 | 8601 | 9016 | 9436 | 9844 | 0258 | 0673 | 1087 | 1502 | 1917 | 2331 | 2746 | 3161 | 3576 | 3991 | 4406 | 4821 | 43 | 44 | 1470 |
| 312 | 45 | 7 (8) 8353 | 8767 | 9181 | 9595 | 0069 | 0424 | 0838 | 1253 | 1667 | 2082 | 2496 | 2911 | 3326 | 3741 | 4155 | 4570 | 4985 | 40 | 45 | 3 1308 |
| 319 | 46 | 8519 | 8933 | 9347 | 9761 | 0175 | 6589 | 1663 | 1418 | 1832 | 2247 | 2661 | 3076 | 3491 | 3965 | 4326 | 4735 | 5150 | 38 | 46 | 1146 |
| 326 | 47 | 8685 | 9699 | 9513 | 9927 | 0341 | 0755 | 1169 | 1583 | 1997 | 2412 | 2826 | 3241 | 3655 | 4676 | 4485 | 4900 | 5315 | 35 | 47 | 6204 |
| 333 | 48 | 8851 | 9265 | 9678 | 0092 | 0566 | 6926 | 1334 | 1748 | 2163 | 2577 | 2991 | 3466 | 3820 | 4235 | 4650 | 5064 | 6479 | 32 | 48 | 0823 |
| 340 | 49 | 9017 | 9431 | 9844 | 0258 | 0672 | 1086 | 1560 | 1914 | 2328 | 2742 | 3167 | 3571 | 3985 | 4460 | 4815 | 5229 | 5644 | 29 | 49 | 0661 |
| 347 | 50 | 7 (8) 9183 | 9597 | 0010 | 0424 | 6838 | 1252 | 1665 | 2680 | 2494 | 2967 | 3322 | 3736 | 4151 | 4665 | 4986 | 5324 | 5809 | 27 | 50 | 3 0499 |
| 354 | 51 | 9349 | 9763 | 0176 | 0590 | 1064 | 1417 | 1831 | 2245 | 2659 | 3073 | 3487 | 3961 | 4316 | 4730 | 5145 | 6569 | 6973 | 24 | 51 | 6337 |
| 361 | 62 | 9516 | 9929 | 0342 | 6756 | 1170 | 1583 | 1997 | 2411 | 2826 | 3239 | 3653 | 4067 | 4481 | 4896 | 5316 | 5724 | 6138 | 21 | 52 | 0174 |
| 368 | 53 | 9682 | 6095 | 0568 | 0922 | 1336 | 1749 | 2163 | 2576 | 2990 | 3464 | 3818 | 4232 | 4646 | 5060 | 5475 | 5889 | 6303 | 12 | 53 | 0012 |
| 374 | 54 | 9848 | 6261 | 0675 | 1088 | 1662 | 1915 | 2329 | 2742 | 3166 | 3570 | 3984 | 4398 | 4812 | 5226 | 6640 | 6054 | 6468 | 16 | 64 | 2 2850 |
| 381 | 55 | 0 6014 | 6428 | 6841 | 1254 | 1668 | 2681 | 2495 | 2968 | 3322 | 3736 | 4149 | 4563 | 4977 | 5391 | 5865 | 6219 | 6634 | 13 | 65 | 2 9688 |
| 388 | 56 | 6181 | 6594 | 1007 | 1421 | 1834 | 2247 | 2661 | 3674 | 3408 | 3961 | 4315 | 4729 | 5143 | 5557 | 5971 | 6385 | 6799 | 11 | 56 | 9525 |
| 395 | 57 | 6318 | 0761 | 1174 | 1587 | 2000 | 2413 | 2827 | 3240 | 3664 | 4067 | 4481 | 4896 | 6368 | 6722 | 6136 | 6560 | 6964 | 8 | 67 | 9363 |
| 402 | 68 | 0514 | 6927 | 1340 | 1763 | 2166 | 2580 | 2993 | 3466 | 3820 | 4233 | 4647 | 5060 | 6474 | 6888 | 6302 | 6715 | 7129 | 5 | 58 | 9200 |
| 409 | 59 | 0681 | 1094 | 1567 | 1920 | 2333 | 2746 | 3169 | 3572 | 3986 | 4399 | 4813 | 5226 | 5640 | 6653 | 6467 | 6881 | 7295 | 3 | 59 | 9038 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 34° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 34° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 8. 8073 | 8492 | 8911 | 9330 | 9749 | 0169 | 0568 | 1007 | 1427 | 1846 | 2266 | 2685 | 3105 | 3525 | 3945 | 4364 | 4784 | 0 | 0' | 7 0962 |
| 7 | 1 | 8235 | 8653 | 9072 | 9491 | 9910 | 0330 | 0749 | 1168 | 1587 | 2007 | 2426 | 2846 | 3265 | 3685 | 4105 | 4524 | 4944 | 3 | 1 | 1125 |
| 14 | 2 | 8396 | 8815 | 9234 | 9653 | 0071 | 0491 | 0910 | 1329 | 1748 | 2167 | 2587 | 3006 | 3426 | 3845 | 4265 | 4685 | 5104 | 5 | 2 | 1288 |
| 21 | 3 | 8557 | 8976 | 9395 | 9814 | 0233 | 0652 | 1071 | 1490 | 1909 | 2328 | 2747 | 3167 | 3586 | 4006 | 4425 | 4645 | 5264 | 8 | 3 | 1451 |
| 28 | 4 | 8719 | 9138 | 9556 | 9975 | 0394 | 0813 | 1232 | 1651 | 2070 | 2489 | 2908 | 3327 | 3747 | 4166 | 4586 | 5005 | 5425 | 11 | 4 | 1614 |
| 35 | 5 | 7 (8) 8881 | 9299 | 9716 | 0136 | 0555 | 0974 | 1393 | 1812 | 2231 | 2650 | 3069 | 3488 | 3907 | 4327 | 4746 | 5165 | 5585 | 14 | 5 | 7 1777 |
| 42 | 6 | 9042 | 9461 | 9879 | 0298 | 0716 | 1135 | 1554 | 1973 | 2392 | 2811 | 3230 | 3649 | 4068 | 4487 | 4906 | 5326 | 5745 | 16 | 6 | 1940 |
| 49 | 7 | 9204 | 9622 | 0041 | 0459 | 0878 | 1296 | 1715 | 2134 | 2553 | 2972 | 3391 | 3810 | 4229 | 4648 | 5067 | 5486 | 5906 | 19 | 7 | 2103 |
| 56 | 8 | 9366 | 9784 | 0202 | 0621 | 1039 | 1458 | 1876 | 2295 | 2714 | 3133 | 3551 | 3970 | 4389 | 4808 | 5228 | 5647 | 6066 | 22 | 8 | 2266 |
| 63 | 9 | 9528 | 9946 | 0364 | 0782 | 1201 | 1619 | 2038 | 2456 | 2875 | 3294 | 3712 | 4131 | 4550 | 4969 | 5388 | 5807 | 6227 | 25 | 9 | 2429 |
| 70 | 10 | 7 (8) 9690 | 0108 | 0526 | 0944 | 1362 | 1781 | 2199 | 2618 | 3036 | 3455 | 3874 | 4292 | 4711 | 5130 | 5549 | 5968 | 6387 | 27 | 10 | 7 2593 |
| 77 | 11 | 9852 | 0270 | 0688 | 1106 | 1524 | 1942 | 2361 | 2779 | 3197 | 3616 | 4035 | 4453 | 4872 | 5291 | 5710 | 6129 | 6548 | 30 | 11 | 2756 |
| 83 | 12 | 8 0014 | 0432 | 0849 | 1268 | 1686 | 2101 | 2522 | 2940 | 3359 | 3777 | 4196 | 4615 | 5033 | 5452 | 5871 | 6290 | 6709 | 33 | 12 | 2920 |
| 90 | 13 | 0176 | 0594 | 1011 | 1429 | 1847 | 2266 | 2684 | 3102 | 3520 | 3939 | 4357 | 4776 | 5194 | 5613 | 6032 | 6451 | 6870 | 36 | 13 | 3083 |
| 97 | 14 | 0338 | 0756 | 1173 | 1591 | 2009 | 2427 | 2846 | 3264 | 3682 | 4100 | 4519 | 4937 | 5356 | 5774 | 6193 | 6612 | 7030 | 38 | 14 | 3247 |
| 104 | 15 | 8 0500 | 0918 | 1336 | 1753 | 2171 | 2589 | 3007 | 3425 | 3844 | 4262 | 4680 | 5098 | 5517 | 5935 | 6354 | 6773 | 7191 | 41 | 15 | 7 3410 |
| 111 | 16 | 0662 | 1080 | 1498 | 1915 | 2333 | 2751 | 3169 | 3587 | 4005 | 4423 | 4842 | 5260 | 5678 | 6097 | 6515 | 6934 | 7352 | 44 | 16 | 3574 |
| 118 | 17 | 0825 | 1242 | 1660 | 2078 | 2495 | 2913 | 3331 | 3749 | 4167 | 4585 | 5003 | 5421 | 5840 | 6258 | 6676 | 7095 | 7514 | 47 | 17 | 3738 |
| 125 | 18 | 0987 | 1405 | 1822 | 2240 | 2657 | 3075 | 3493 | 3911 | 4329 | 4747 | 5165 | 5583 | 6001 | 6419 | 6838 | 7256 | 7675 | 49 | 18 | 3902 |
| 132 | 19 | 1150 | 1567 | 1985 | 2402 | 2820 | 3237 | 3655 | 4073 | 4421 | 4909 | 5327 | 5745 | 6163 | 6581 | 6999 | 7417 | 7836 | 52 | 19 | 4066 |
| 139 | 20 | 8 1313 | 1730 | 2147 | 2565 | 2982 | 3400 | 3817 | 4235 | 4653 | 5070 | 5488 | 5906 | 6324 | 6742 | 7161 | 7579 | 7997 | 55 | 20 | 7 4230 |
| 146 | 21 | 1475 | 1892 | 2310 | 2727 | 3144 | 3562 | 3979 | 4397 | 4815 | 5232 | 5650 | 6068 | 6486 | 6904 | 7322 | 7740 | 8158 | 58 | 21 | 4394 |
| 153 | 22 | 1638 | 2055 | 2472 | 2890 | 3307 | 3724 | 4142 | 4559 | 4977 | 5394 | 5812 | 6230 | 6618 | 7066 | 7484 | 7902 | 8320 | 60 | 22 | 4558 |
| 160 | 23 | 1801 | 2218 | 2635 | 3052 | 3469 | 3887 | 4304 | 4721 | 5139 | 5556 | 5974 | 6392 | 6810 | 7227 | 7645 | 8063 | 8481 | 63 | 23 | 4722 |
| 167 | 24 | 1964 | 2381 | 2798 | 3215 | 3632 | 4049 | 4466 | 4884 | 5301 | 5719 | 6136 | 6554 | 6972 | 7369 | 7807 | 8225 | 8613 | 66 | 24 | 4887 |
| 174 | 25 | 8 2127 | 2544 | 2960 | 3377 | 3795 | 4212 | 4629 | 5046 | 5464 | 5881 | 6298 | 6716 | 7133 | 7551 | 7962 | 8387 | 8805 | 69 | 25 | 7 5051 |
| 181 | 26 | 2290 | 2707 | 3123 | 3540 | 3957 | 4374 | 4791 | 5209 | 5626 | 6043 | 6461 | 6878 | 7295 | 7713 | 8131 | 8549 | 8966 | 71 | 26 | 5215 |
| 188 | 27 | 2453 | 2670 | 3286 | 3703 | 4120 | 4537 | 4954 | 5371 | 5788 | 6206 | 6623 | 7040 | 7458 | 7875 | 8293 | 8710 | 9128 | 74 | 27 | 5380 |
| 195 | 28 | 2616 | 3033 | 3449 | 3866 | 4283 | 4700 | 5117 | 5534 | 5951 | 6368 | 6785 | 7203 | 7620 | 8037 | 8455 | 8872 | 9290 | 77 | 28 | 5544 |
| 202 | 29 | 2779 | 3196 | 3612 | 4029 | 4446 | 4863 | 5279 | 5696 | 6113 | 6530 | 6948 | 7365 | 7782 | 8199 | 8617 | 9034 | 9452 | 80 | 29 | 5709 |
| 209 | 30 | 8 2943 | 3359 | 3776 | 4192 | 4609 | 5026 | 5442 | 5859 | 6276 | 6693 | 7110 | 7527 | 7944 | 8362 | 8779 | 9196 | 9614 | 82 | 30 | 7 5874 |
| 216 | 31 | 3106 | 3522 | 3939 | 4355 | 4772 | 5189 | 5605 | 6022 | 6439 | 6856 | 7273 | 7690 | 8107 | 8524 | 8941 | 9359 | 9776 | 85 | 31 | 6039 |
| 222 | 32 | 3269 | 3686 | 4102 | 4518 | 4935 | 5352 | 5768 | 6185 | 6602 | 7018 | 7435 | 7852 | 8269 | 8686 | 9104 | 9521 | 9938 | 88 | 32 | 6203 |
| 229 | 33 | 8 (9) 3433 | 3849 | 4265 | 4682 | 5098 | 5515 | 5931 | 6348 | 6764 | 7181 | 7598 | 8015 | 8432 | 8849 | 9266 | 9683 | 0100 | 91 | 33 | 6368 |
| 236 | 34 | 3597 | 4013 | 4429 | 4845 | 5261 | 5678 | 6094 | 6511 | 6927 | 7344 | 7761 | 8177 | 8594 | 9011 | 9428 | 9845 | 0262 | 93 | 34 | 6533 |
| 243 | 35 | 8 (9) 3760 | 4176 | 4592 | 5008 | 5425 | 5841 | 6257 | 6674 | 7090 | 7507 | 7924 | 8340 | 8757 | 9174 | 9591 | 0008 | 0425 | 96 | 35 | 7 6698 |
| 250 | 36 | 3924 | 4340 | 4756 | 5172 | 5588 | 6005 | 6121 | 6837 | 7253 | 7670 | 8086 | 8503 | 8920 | 9336 | 9753 | 0170 | 0587 | 99 | 36 | 6864 |
| 257 | 37 | 4088 | 4504 | 4920 | 5336 | 5752 | 6168 | 6584 | 7000 | 7416 | 7833 | 8249 | 8666 | 9083 | 9499 | 9916 | 0333 | 0750 | 102 | 37 | 7029 |
| 264 | 38 | 4252 | 4667 | 5083 | 5499 | 5915 | 6331 | 6747 | 7163 | 7580 | 7996 | 8412 | 8829 | 9245 | 9662 | 0079 | 0495 | 0912 | 104 | 38 | 7194 |
| 271 | 39 | 4416 | 4831 | 5247 | 5663 | 6079 | 6495 | 6911 | 7327 | 7743 | 8159 | 8575 | 8992 | 9408 | 9825 | 0241 | 0658 | 1075 | 107 | 39 | 7359 |
| 278 | 40 | 8 (9) 4580 | 4995 | 5411 | 5826 | 6242 | 6658 | 7074 | 7490 | 7906 | 8322 | 8739 | 9155 | 9571 | 9988 | 0404 | 0821 | 1237 | 110 | 40 | 7 7525 |
| 285 | 41 | 4744 | 5159 | 5575 | 5990 | 6406 | 6822 | 7238 | 7654 | 8070 | 8486 | 8902 | 9318 | 9734 | 0151 | 0567 | 0984 | 1400 | 113 | 41 | 7690 |
| 292 | 42 | 4908 | 5323 | 5739 | 6154 | 6570 | 6986 | 7401 | 7817 | 8233 | 8649 | 9065 | 9481 | 9898 | 0314 | 0730 | 1146 | 1563 | 115 | 42 | 7856 |
| 299 | 43 | 5072 | 5487 | 5903 | 6318 | 6734 | 7149 | 7565 | 7981 | 8397 | 8813 | 9229 | 9645 | 0061 | 0477 | 0693 | 1309 | 1726 | 118 | 43 | 8022 |
| 306 | 44 | 6236 | 5651 | 6067 | 6482 | 6898 | 7313 | 7729 | 8145 | 8560 | 8976 | 9392 | 9808 | 0224 | 0640 | 1056 | 1472 | 1889 | 121 | 44 | 8187 |
| 313 | 45 | 8 (9) 6401 | 5816 | 6231 | 6646 | 7062 | 7477 | 7693 | 8308 | 8724 | 9140 | 9556 | 9971 | 0387 | 0803 | 1219 | 1636 | 2052 | 124 | 45 | 7 8353 |
| 320 | 46 | 5565 | 5980 | 6395 | 6810 | 7226 | 7641 | 8057 | 6472 | 8888 | 9303 | 9719 | 0135 | 0551 | 0967 | 1383 | 1799 | 2215 | 126 | 46 | 8519 |
| 327 | 47 | 5729 | 6145 | 6560 | 6975 | 7390 | 7805 | 8221 | 8636 | 9052 | 9467 | 9883 | 0298 | 0714 | 1130 | 1546 | 1962 | 2378 | 129 | 47 | 8685 |
| 334 | 48 | 6894 | 6309 | 6724 | 7139 | 7554 | 7969 | 6385 | 8800 | 9215 | 9631 | 0046 | 0462 | 0878 | 1294 | 1709 | 2125 | 2541 | 132 | 48 | 8851 |
| 341 | 49 | 6039 | 6473 | 6888 | 7303 | 7716 | 8134 | 8549 | 8964 | 9379 | 9795 | 0210 | 0626 | 1041 | 1457 | 1873 | 2269 | 2704 | 135 | 49 | 9017 |
| 348 | 50 | 8 (9) 6223 | 6638 | 7053 | 7468 | 7883 | 8298 | 6713 | 9128 | 9543 | 9959 | 0374 | 0790 | 1205 | 1621 | 2036 | 2452 | 2868 | 137 | 50 | 7 9183 |
| 354 | 51 | 6388 | 6603 | 7216 | 7632 | 8047 | 8462 | 8877 | 9292 | 9707 | 0123 | 0538 | 0953 | 1369 | 1784 | 2200 | 2616 | 3031 | 140 | 51 | 9349 |
| 361 | 52 | 6553 | 6968 | 7382 | 7797 | 8212 | 8627 | 9042 | 9457 | 9872 | 0267 | 0702 | 1117 | 1533 | 1948 | 2364 | 2779 | 3195 | 143 | 52 | 9515 |
| 368 | 53 | 6718 | 7132 | 7547 | 7962 | 8376 | 8791 | 9206 | 9621 | 0036 | 0451 | 0866 | 1261 | 1697 | 2112 | 2527 | 2943 | 3358 | 146 | 53 | 9682 |
| 375 | 54 | 6883 | 7297 | 7712 | 8126 | 8541 | 8956 | 9370 | 9785 | 0200 | 0615 | 1030 | 1445 | 1861 | 2276 | 2691 | 3106 | 3522 | 148 | 54 | 9848 |
| 382 | 55 | 8 (9) 7048 | 7462 | 7877 | 8291 | 8706 | 9120 | 9535 | 9950 | 0365 | 0779 | 1194 | 1609 | 2025 | 2440 | 2855 | 3270 | 3686 | 151 | 55 | 8 0015 |
| 389 | 56 | 7213 | 7627 | 8042 | 8456 | 8870 | 9285 | 2700 | 0114 | 0529 | 0944 | 1359 | 1774 | 2189 | 2604 | 3019 | 3434 | 3849 | 154 | 56 | 0101 |
| 396 | 57 | 7378 | 7792 | 8207 | 8621 | 9035 | 9450 | 9864 | 0279 | 0693 | 1108 | 1523 | 1938 | 2353 | 2768 | 3183 | 3598 | 4013 | 157 | 57 | 0348 |
| 403 | 58 | 7543 | 7957 | 8372 | 8786 | 9200 | 9615 | 0029 | 0443 | 0858 | 1273 | 1687 | 2102 | 2517 | 2932 | 3347 | 3762 | 4177 | 159 | 58 | 0514 |
| 410 | 59 | 7709 | 8123 | 8537 | 8951 | 9365 | 9779 | 0194 | 0608 | 1023 | 1437 | 1852 | 2267 | 2681 | 3096 | 3511 | 3926 | 4311 | 162 | 59 | 0681 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

| Partes para segundos del Arg. Auxiliar. | 35° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 | 0818 | 1261 | 1673 | 2086 | 2499 | 2912 | 3325 | 3739 | 4102 | 4565 | 4979 | 5392 | 5805 | 6219 | 6633 | 7046 | 7460 |
| 7 | 1 | | 1015 | 1427 | 1846 | 2253 | 2606 | 3079 | 3492 | 3993 | 4318 | 4731 | 5145 | 0558 | 5971 | 6383 | 6798 | 7212 | 7626 |
| 14 | 2 | | 1182 | 1594 | 2007 | 2420 | 2832 | 3245 | 3658 | 4071 | 4484 | 4897 | 5311 | 5724 | 6137 | 6501 | 6904 | 7378 | 7791 |
| 21 | 3 | | 1349 | 1761 | 2174 | 2586 | 2999 | 3412 | 3825 | 4238 | 4651 | 5064 | 5477 | 5890 | 6303 | 6717 | 7130 | 7543 | 7957 |
| 27 | 4 | | 1516 | 1928 | 2341 | 2753 | 3166 | 3579 | 3991 | 4404 | 4817 | 5230 | 5643 | 0050 | 6469 | 6883 | 7296 | 7709 | 8123 |
| 34 | 5 | 8 | 1683 | 2095 | 2508 | 2920 | 3333 | 3745 | 4158 | 4571 | 4984 | 5396 | 5809 | 6222 | 6035 | 7049 | 7462 | 7875 | 8289 |
| 41 | 6 | | 1850 | 2262 | 2675 | 3987 | 3000 | 3912 | 4325 | 4737 | 5150 | 5563 | 5970 | 6389 | 6892 | 7210 | 7028 | 8041 | 8464 |
| 48 | 7 | | 2017 | 2430 | 2842 | 3254 | 3667 | 4079 | 4492 | 4904 | 5317 | 5729 | 0142 | 0505 | 6968 | 7381 | 7704 | 8207 | 8620 |
| 05 | 6 | | 2185 | 2597 | 3009 | 3421 | 3834 | 4246 | 4658 | 5071 | 5483 | 5890 | 6309 | 0722 | 7134 | 7547 | 7966 | 8373 | 8786 |
| 62 | 9 | | 2352 | 2764 | 3176 | 3589 | 4901 | 4413 | 4823 | 5238 | 5630 | 6063 | 6475 | 6888 | 7391 | 7714 | 8126 | 8039 | 8952 |
| 69 | 19 | 8 | 2520 | 2932 | 3344 | 3756 | 4168 | 4580 | 4902 | 5405 | 5817 | 0229 | 6642 | 7055 | 7407 | 7880 | 8293 | 8706 | 9119 |
| 75 | 11 | | 2087 | 3099 | 3511 | 3923 | 4335 | 4747 | 3109 | 5572 | 5984 | 0396 | 0809 | 7221 | 7634 | 8046 | 8459 | 8872 | 9285 |
| 82 | 12 | | 2850 | 3267 | 3679 | 4696 | 4592 | 4914 | 5327 | 5739 | 0151 | 6563 | 6970 | 7388 | 7890 | 8213 | 8620 | 9038 | 9401 |
| 89 | 13 | | 3023 | 3134 | 3846 | 4258 | 4070 | 5082 | 5494 | 5906 | 6318 | 6730 | 7142 | 7555 | 7907 | 8380 | 8792 | 9205 | 9618 |
| 90 | 14 | | 3190 | 3002 | 4014 | 4425 | 4837 | 5249 | 5061 | 6073 | 6485 | 6897 | 7309 | 7722 | 8134 | 8346 | 8959 | 9371 | 9784 |
| 193 | 15 | 8 | 3358 | 3770 | 4181 | 4593 | 5005 | 5417 | 5828 | 6240 | 6652 | 7004 | 7476 | 7880 | 8301 | 8713 | 9125 | 9538 | 9950 |
| 110 | 16 | 8 (9) | 3520 | 3938 | 4349 | 4761 | 5172 | 5584 | 5996 | 6408 | 6819 | 7231 | 7643 | 8050 | 8468 | 8880 | 9292 | 9795 | 0117 |
| 117 | 17 | | 3694 | 4106 | 4517 | 4928 | 5340 | 5752 | 6103 | 6575 | 0987 | 7399 | 7811 | 8223 | 8635 | 9047 | 9459 | 9871 | 0284 |
| 123 | 10 | | 3862 | 4274 | 1685 | 5096 | 5508 | 5919 | 6331 | 6742 | 7154 | 7506 | 7978 | 8390 | 8802 | 9214 | 0026 | 0030 | 0450 |
| 130 | 19 | | 4030 | 4142 | 4853 | 5264 | 5675 | 6087 | 6498 | 0910 | 7322 | 7733 | 8145 | 8557 | 8909 | 9381 | 9793 | 0205 | 0617 |
| 137 | 20 | 8 (9) | 4199 | 4610 | 5021 | 5432 | 5843 | 6255 | 6600 | 7078 | 7489 | 7961 | 8312 | 8721 | 9136 | 9518 | 9960 | 0372 | 0784 |
| 144 | 21 | | 4367 | 4778 | 5189 | 5600 | 6011 | 0423 | 6834 | 7245 | 7657 | 8008 | 8480 | 8891 | 9303 | 9710 | 0127 | 0039 | 0951 |
| 151 | 22 | | 4535 | 4946 | 5357 | 5768 | 6179 | 6591 | 7002 | 7413 | 7824 | 8230 | 8017 | 9059 | 9471 | 9882 | 0294 | 0706 | 1118 |
| 158 | 23 | | 4704 | 5114 | 5525 | 5936 | 6347 | 6759 | 7170 | 7581 | 7992 | 8403 | 8815 | 9226 | 9038 | 0050 | 0401 | 0873 | 1285 |
| 164 | 24 | | 4872 | 5283 | 5694 | 0105 | 0515 | 6027 | 7338 | 7749 | 8160 | 8571 | 8982 | 9394 | 9805 | 0217 | 0629 | 1040 | 1452 |
| 171 | 25 | 8 (9) | 5041 | 5451 | 5862 | 6273 | 6684 | 7095 | 7506 | 7917 | 8328 | 8739 | 9150 | 9561 | 9973 | 0384 | 0796 | 1207 | 1619 |
| 178 | 26 | | 0209 | 5020 | 6030 | 0441 | 6852 | 7263 | 7674 | 8085 | 8190 | 8907 | 9318 | 9729 | 0140 | 0552 | 0963 | 1375 | 1706 |
| 185 | 27 | | 5378 | 5788 | 6199 | 0010 | 7020 | 7431 | 7842 | 8253 | 8664 | 9075 | 9486 | 9897 | 0308 | 0719 | 1131 | 1542 | 1904 |
| 192 | 28 | | 6547 | 0957 | 6368 | 0778 | 7189 | 7599 | 8010 | 8421 | 8832 | 9243 | 9654 | 0065 | 0176 | 6887 | 1298 | 1710 | 2121 |
| 199 | 29 | | 0710 | 0126 | 6536 | 0947 | 7357 | 7768 | 8178 | 8589 | 9900 | 9411 | 9822 | 6233 | 0614 | 1055 | 1466 | 1077 | 2289 |
| 206 | 30 | 8 (9) | 5804 | 6295 | 6705 | 7115 | 7526 | 7930 | 8347 | 8757 | 9108 | 9579 | 9990 | 0401 | 0811 | 1223 | 1634 | 2040 | 2400 |
| 212 | 31 | | 6653 | 6463 | 0874 | 7281 | 7094 | 8105 | 8515 | 8926 | 9336 | 9747 | 0158 | 0569 | 0979 | 1390 | 1801 | 2213 | 2624 |
| 219 | 32 | | 0222 | 6032 | 7043 | 7453 | 7863 | 8273 | 8084 | 9094 | 0505 | 9915 | 0320 | 0737 | 1147 | 1558 | 1969 | 2380 | 2791 |
| 226 | 33 | | 6392 | 6801 | 7211 | 7622 | 8932 | 8442 | 8852 | 9263 | 9073 | 0084 | 0494 | 6905 | 1316 | 1726 | 2137 | 2548 | 2959 |
| 233 | 34 | | 6061 | 6971 | 7380 | 7791 | 8201 | 8011 | 9921 | 9431 | 9842 | 0252 | 9062 | 1073 | 1484 | 1894 | 2305 | 2716 | 3127 |
| 240 | 35 | 8 (9) | 6730 | 7140 | 7550 | 7900 | 8369 | 8779 | 9190 | 9000 | 9010 | 0420 | 0031 | 1241 | 1052 | 2062 | 2473 | 2884 | 3295 |
| 247 | 36 | | 6899 | 7309 | 7719 | 8129 | 8538 | 8948 | 9358 | 9769 | 0179 | 0589 | 0999 | 1110 | 1820 | 2231 | 2041 | 3002 | 3463 |
| 254 | 37 | | 7069 | 7478 | 7888 | 8298 | 8707 | 9117 | 9527 | 9937 | 9347 | 9758 | 1168 | 1078 | 1988 | 2399 | 2809 | 3220 | 3031 |
| 260 | 38 | | 7238 | 7048 | 8057 | 8167 | 8876 | 9200 | 9696 | 0106 | 6016 | 9920 | 1336 | 1747 | 2157 | 2607 | 2978 | 3388 | 3799 |
| 267 | 39 | | 7408 | 7017 | 8220 | 8636 | 0646 | 9455 | 9865 | 0275 | 0685 | 1095 | 1595 | 1915 | 2325 | 2736 | 3146 | 3530 | 3967 |
| 274 | 40 | 8 (9) | 7377 | 7980 | 8390 | 8895 | 9215 | 9625 | 0034 | 0444 | 0854 | 1264 | 1674 | 2084 | 2494 | 2904 | 3314 | 3720 | 4135 |
| 281 | 41 | | 7747 | 8150 | 8565 | 8973 | 9384 | 0794 | 6203 | 0613 | 1023 | 1433 | 1843 | 2252 | 2603 | 3073 | 3483 | 3893 | 4303 |
| 288 | 42 | | 7916 | 8320 | 8735 | 9144 | 9554 | 9963 | 0373 | 6782 | 1192 | 1602 | 2011 | 2421 | 2831 | 3241 | 3651 | 4001 | 4472 |
| 295 | 43 | | 8080 | 8495 | 8905 | 9314 | 9723 | 0132 | 0542 | 0951 | 1361 | 1771 | 2180 | 2590 | 3000 | 3410 | 3820 | 4230 | 4640 |
| 301 | 44 | | 8256 | 8665 | 9674 | 9483 | 9893 | 0302 | 0711 | 1121 | 1530 | 1940 | 2349 | 2709 | 3169 | 3579 | 3989 | 4399 | 4809 |
| 308 | 45 | 8 (9) | 8426 | 8835 | 9244 | 9053 | 0662 | 0471 | 0881 | 1290 | 1699 | 2102 | 2518 | 2928 | 3330 | 3747 | 4157 | 4067 | 4977 |
| 310 | 46 | | 8596 | 9005 | 9414 | 9823 | 0232 | 0641 | 1050 | 1459 | 1809 | 2276 | 2687 | 3097 | 3007 | 3916 | 4326 | 4736 | 5146 |
| 322 | 47 | | 8766 | 9175 | 9584 | 9993 | 0402 | 0810 | 1226 | 1629 | 2038 | 2447 | 2857 | 3266 | 3676 | 4085 | 4495 | 4903 | 0314 |
| 329 | 48 | | 8936 | 9345 | 9754 | 0162 | 0671 | 9980 | 1389 | 1798 | 2207 | 2617 | 3020 | 3435 | 3845 | 4234 | 4664 | 0073 | 5483 |
| 336 | 49 | | 9106 | 9515 | 9924 | 6332 | 0741 | 1159 | 1559 | 1968 | 2377 | 2786 | 3195 | 3603 | 4014 | 4423 | 4033 | 5242 | 3602 |
| 343 | 00 | 0 (9) | 9277 | 9685 | 0094 | 0092 | 0911 | 1320 | 1729 | 2138 | 2547 | 2906 | 3365 | 3774 | 4183 | 4592 | 0002 | 5111 | 5821 |
| 349 | 51 | | 9447 | 9050 | 0204 | 0072 | 1081 | 1490 | 1896 | 2307 | 2710 | 3125 | 3034 | 3943 | 4352 | 4702 | 5171 | 5680 | 0990 |
| 356 | 02 | | 9617 | 0026 | 0434 | 0843 | 1251 | 1660 | 2968 | 2477 | 2880 | 3295 | 3704 | 4113 | 4522 | 4931 | 5340 | 5749 | 6159 |
| 363 | 53 | | 0708 | 0196 | 0604 | 1013 | 1421 | 1830 | 2238 | 2647 | 3000 | 3464 | 3873 | 4282 | 4691 | 5100 | 0509 | 0919 | 6328 |
| 376 | 54 | | 0938 | 0366 | 0773 | 1183 | 1091 | 2000 | 2408 | 2817 | 3225 | 3634 | 4043 | 4452 | 4861 | 5270 | 5679 | 6088 | 6497 |
| 377 | 05 | 9 | 0129 | 0537 | 0945 | 1353 | 1762 | 2170 | 2070 | 2987 | 3396 | 3804 | 4213 | 4622 | 5639 | 3439 | 5848 | 6257 | 6666 |
| 384 | 36 | | 0360 | 0700 | 1116 | 1024 | 1932 | 2340 | 2749 | 3107 | 3505 | 3974 | 4383 | 4701 | 5200 | 3609 | 0018 | 6427 | 6036 |
| 391 | 67 | | 0470 | 6878 | 1286 | 1694 | 2102 | 2510 | 2919 | 3327 | 3735 | 4144 | 4532 | 4961 | 5370 | 0778 | 6107 | 6596 | 7005 |
| 397 | 56 | | 0641 | 1049 | 1457 | 1865 | 2273 | 2681 | 3009 | 3497 | 3906 | 4314 | 4722 | 5131 | 5539 | 5948 | 6357 | 0706 | 7174 |
| 404 | 09 | | 0612 | 1220 | 1626 | 2935 | 2143 | 2851 | 3259 | 3668 | 4076 | 4484 | 4892 | 5301 | 5709 | 0118 | 6026 | 6935 | 7344 |

**Núm. II para la suma corregida de alturas.**

| Partes para segundos. | 35° | Núm. |
|---|---|---|
| 160 | 0' | 2 8875 |
| 162 | 1 | 0712 |
| 159 | 2 | 0549 |
| 107 | 3 | 0306 |
| 134 | 4 | 6223 |
| 151 | 0 | 2 8000 |
| 140 | 6 | 7897 |
| 146 | 7 | 7734 |
| 143 | 0 | 7571 |
| 140 | 9 | 7407 |
| 137 | 10 | 2 7244 |
| 135 | 11 | 7000 |
| 132 | 12 | 6217 |
| 129 | 13 | 0753 |
| 126 | 14 | 6590 |
| 124 | 15 | 2 6426 |
| 121 | 16 | 6202 |
| 110 | 17 | 6098 |
| 115 | 10 | 5934 |
| 113 | 19 | 0776 |
| 116 | 20 | 2 3606 |
| 107 | 21 | 0442 |
| 104 | 22 | 0270 |
| 102 | 23 | 0113 |
| 99 | 24 | 4949 |
| 96 | 25 | 2 4705 |
| 93 | 26 | 4620 |
| 91 | 27 | 4460 |
| 08 | 20 | 4291 |
| 85 | 29 | 4120 |
| 62 | 30 | 2 3901 |
| 80 | 31 | 3797 |
| 77 | 32 | 3632 |
| 74 | 33 | 3467 |
| 71 | 34 | 3302 |
| 69 | 35 | 2 3130 |
| 66 | 36 | 2971 |
| 63 | 37 | 2860 |
| 60 | 38 | 2641 |
| 08 | 39 | 2475 |
| 53 | 40 | 2 2310 |
| 32 | 41 | 2144 |
| 49 | 42 | 1970 |
| 47 | 43 | 1813 |
| 44 | 44 | 1647 |
| 41 | 45 | 2 1481 |
| 38 | 40 | 1315 |
| 36 | 47 | 1149 |
| 33 | 46 | 0983 |
| 30 | 49 | 0817 |
| 27 | 50 | 2 0651 |
| 25 | 31 | 6485 |
| 22 | 02 | 0318 |
| 19 | 03 | 6102 |
| 10 | 54 | 1 9985 |
| 14 | 35 | 1 9819 |
| 11 | 56 | 9002 |
| 0 | 07 | 9486 |
| 3 | 50 | 9319 |
| 3 | 09 | 9152 |

**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 35° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 0 | 0′ | 8 (9) 7874 | 8288 | 8702 | 9116 | 9530 | 9944 | 0359 | 0773 | 1187 | 1609 | 2016 | 2431 | 2846 | 3260 | 3675 | 4090 | 4505 |
| 7 | 1 | 8040 | 8453 | 8867 | 9281 | 9695 | 0109 | 0524 | 0938 | 1352 | 1767 | 2181 | 2596 | 3010 | 3425 | 3839 | 4254 | 4669 |
| 14 | 2 | 8905 | 8619 | 9033 | 9447 | 9860 | 0274 | 0689 | 1103 | 1517 | 1931 | 2346 | 2760 | 3175 | 3589 | 4004 | 4419 | 4833 |
| 21 | 3 | 8371 | 8784 | 9198 | 9612 | 0026 | 0440 | 0854 | 1268 | 1682 | 2096 | 2510 | 2925 | 3339 | 3754 | 4168 | 4583 | 4998 |
| 28 | 4 | 8536 | 8950 | 9364 | 9777 | 0191 | 0605 | 1019 | 1433 | 1847 | 2261 | 2675 | 3089 | 3504 | 3918 | 4333 | 4747 | 5162 |
| 34 | 5 | 8 (9) 8702 | 9115 | 9529 | 9943 | 0356 | 0770 | 1184 | 1598 | 2012 | 2426 | 2840 | 3254 | 3669 | 4083 | 4497 | 4912 | 5326 |
| 41 | 6 | 8868 | 9281 | 9695 | 0108 | 0522 | 0936 | 1349 | 1763 | 2177 | 2591 | 3005 | 3419 | 3833 | 4248 | 4662 | 5076 | 5491 |
| 48 | 7 | 9034 | 9447 | 9860 | 0274 | 0687 | 1101 | 1515 | 1928 | 2342 | 2756 | 3170 | 3584 | 3998 | 4412 | 4827 | 5241 | 5655 |
| 55 | 8 | 2200 | 9613 | 0026 | 0439 | 0853 | 1267 | 1680 | 2094 | 2508 | 2921 | 3335 | 3749 | 4163 | 4577 | 4991 | 5405 | 5820 |
| 62 | 9 | 9366 | 9779 | 0192 | 0605 | 1019 | 1432 | 1846 | 2259 | 2673 | 3087 | 3500 | 3914 | 4328 | 4742 | 5156 | 5570 | 5984 |
| 69 | 10 | 8 (9) 2532 | 9945 | 0358 | 0771 | 1184 | 1598 | 2011 | 2425 | 2838 | 3252 | 3666 | 4079 | 4493 | 4907 | 5321 | 5735 | 6149 |
| 75 | 11 | 9698 | 0111 | 0594 | 0937 | 1350 | 1763 | 2177 | 2590 | 3004 | 3417 | 3831 | 4245 | 4658 | 5072 | 5486 | 5900 | 6314 |
| 82 | 12 | 9864 | 0277 | 0690 | 1103 | 1516 | 1929 | 2342 | 2756 | 3169 | 3583 | 3996 | 4410 | 4823 | 5237 | 5651 | 6065 | 6479 |
| 89 | 13 | 9 0030 | 0443 | 0856 | 1269 | 1682 | 2095 | 2508 | 2921 | 3335 | 3748 | 4162 | 4575 | 4989 | 5402 | 5816 | 6230 | 6644 |
| 96 | 14 | 0197 | 0609 | 1022 | 1435 | 1848 | 2261 | 2674 | 3087 | 3500 | 3914 | 4327 | 4740 | 5154 | 5568 | 5981 | 6395 | 6809 |
| 103 | 15 | 9 0363 | 0776 | 1188 | 1601 | 2014 | 2427 | 2840 | 3253 | 3666 | 4079 | 4493 | 4906 | 5319 | 5732 | 6146 | 6560 | 6974 |
| 110 | 16 | 0530 | 0942 | 1355 | 1767 | 2180 | 2593 | 3006 | 3419 | 3832 | 4245 | 4658 | 5071 | 5485 | 5898 | 6312 | 6725 | 7139 |
| 117 | 17 | 0696 | 1109 | 1521 | 1934 | 2346 | 2759 | 3172 | 3585 | 3998 | 4411 | 4824 | 5237 | 5650 | 6064 | 6477 | 6891 | 7304 |
| 124 | 18 | 0863 | 1275 | 1688 | 2100 | 2513 | 2925 | 3338 | 3751 | 4164 | 4577 | 4990 | 5403 | 5816 | 6229 | 6642 | 7056 | 7469 |
| 130 | 19 | 1029 | 1442 | 1854 | 2267 | 2679 | 3092 | 3504 | 3917 | 4330 | 4743 | 5156 | 5569 | 5982 | 6395 | 6808 | 7221 | 7635 |
| 137 | 20 | 9 1196 | 1608 | 2021 | 2433 | 2845 | 3258 | 3671 | 4083 | 4496 | 4909 | 5321 | 5734 | 6147 | 6560 | 6974 | 7387 | 7800 |
| 144 | 21 | 1363 | 1775 | 2187 | 2600 | 3012 | 3424 | 3837 | 4249 | 4662 | 5075 | 5487 | 5900 | 6313 | 6726 | 7139 | 7552 | 7965 |
| 151 | 22 | 1530 | 1942 | 2354 | 2766 | 3178 | 3591 | 4003 | 4416 | 4828 | 5241 | 5653 | 6066 | 6479 | 6892 | 7305 | 7718 | 8131 |
| 158 | 23 | 1697 | 2109 | 2521 | 2933 | 3345 | 3757 | 4170 | 4582 | 4994 | 5407 | 5820 | 6232 | 6645 | 7058 | 7471 | 7884 | 8297 |
| 165 | 24 | 1864 | 2276 | 2688 | 3100 | 3512 | 3924 | 4336 | 4748 | 5161 | 5573 | 5986 | 6398 | 6811 | 7224 | 7636 | 8049 | 8462 |
| 172 | 25 | 9 2031 | 2443 | 2855 | 3267 | 3679 | 4091 | 4503 | 4915 | 5327 | 5740 | 6152 | 6565 | 6977 | 7390 | 7802 | 8215 | 8628 |
| 178 | 26 | 2198 | 2610 | 3022 | 3433 | 3845 | 4257 | 4669 | 5082 | 5494 | 5906 | 6318 | 6731 | 7143 | 7556 | 7968 | 8381 | 8794 |
| 185 | 27 | 2365 | 2777 | 3189 | 3600 | 4012 | 4494 | 4836 | 5248 | 5660 | 6072 | 6485 | 6897 | 7309 | 7722 | 8134 | 8547 | 8960 |
| 192 | 28 | 2533 | 2944 | 3356 | 3767 | 4179 | 4591 | 5003 | 5415 | 5827 | 6239 | 6651 | 7063 | 7476 | 7888 | 8301 | 8713 | 9126 |
| 192 | 29 | 2700 | 3111 | 3523 | 3935 | 4346 | 4758 | 5170 | 5582 | 5994 | 6406 | 6818 | 7230 | 7642 | 8054 | 8467 | 8879 | 9292 |
| 206 | 30 | 9 2867 | 3279 | 3690 | 4102 | 4513 | 4925 | 5337 | 5748 | 6160 | 6572 | 6984 | 7396 | 7808 | 8221 | 8633 | 9045 | 9458 |
| 213 | 31 | 3035 | 3446 | 3858 | 4269 | 4680 | 5092 | 5504 | 5915 | 6327 | 6739 | 7151 | 7563 | 7975 | 8387 | 8799 | 9211 | 9624 |
| 220 | 32 | 3202 | 3614 | 4025 | 4436 | 4848 | 5259 | 5671 | 6082 | 6494 | 6906 | 7318 | 7730 | 8142 | 8553 | 8966 | 9378 | 9790 |
| 227 | 33 | 3370 | 3781 | 4192 | 4604 | 5015 | 5426 | 5838 | 6249 | 6661 | 7073 | 7484 | 7896 | 8308 | 8720 | 9132 | 9544 | 9956 |
| 233 | 34 | 9 (0) 3538 | 3949 | 4360 | 4771 | 5182 | 5594 | 6005 | 6417 | 6828 | 7240 | 7651 | 8063 | 8475 | 8887 | 9299 | 9711 | 0123 |
| 240 | 35 | 9 (0) 3706 | 4117 | 4528 | 4939 | 5350 | 5761 | 6172 | 6584 | 6995 | 7407 | 7818 | 8230 | 8642 | 9053 | 9465 | 9877 | 0289 |
| 247 | 36 | 3874 | 4284 | 4695 | 5106 | 5517 | 5928 | 6340 | 6751 | 7162 | 7574 | 7985 | 8397 | 8808 | 9220 | 9632 | 0044 | 0456 |
| 254 | 37 | 4042 | 4452 | 4863 | 5274 | 5685 | 6096 | 6507 | 6918 | 7329 | 7741 | 8152 | 8564 | 8975 | 9387 | 9798 | 0210 | 0622 |
| 261 | 38 | 4210 | 4620 | 5031 | 5442 | 5853 | 6264 | 6675 | 7086 | 7497 | 7908 | 8319 | 8731 | 9142 | 9554 | 9965 | 0377 | 0789 |
| 268 | 39 | 4378 | 4788 | 5199 | 5609 | 6020 | 6431 | 6842 | 7253 | 7664 | 8075 | 8487 | 8898 | 9309 | 9721 | 0132 | 0544 | 0955 |
| 275 | 40 | 9 (0) 4546 | 4956 | 5367 | 5777 | 6188 | 6599 | 7010 | 7421 | 7832 | 8243 | 8654 | 9065 | 9476 | 9888 | 0299 | 0711 | 1122 |
| 282 | 41 | 4714 | 5124 | 5535 | 5945 | 6356 | 6767 | 7177 | 7588 | 7999 | 8410 | 8821 | 9232 | 9643 | 0055 | 0466 | 0878 | 1289 |
| 288 | 42 | 4882 | 5292 | 5703 | 6113 | 6524 | 6935 | 7345 | 7756 | 8167 | 8578 | 8989 | 9400 | 9811 | 0222 | 0633 | 1045 | 1456 |
| 295 | 43 | 5050 | 5461 | 5871 | 6281 | 6692 | 7103 | 7513 | 7924 | 8334 | 8745 | 9156 | 9567 | 9978 | 0389 | 0800 | 1212 | 1623 |
| 302 | 44 | 5219 | 5629 | 6039 | 6449 | 6860 | 7271 | 7681 | 8091 | 8502 | 8913 | 9324 | 9734 | 0145 | 0556 | 0967 | 1379 | 1790 |
| 309 | 45 | 9 (0) 5387 | 5797 | 6207 | 6618 | 7028 | 7439 | 7849 | 8259 | 8670 | 9080 | 9491 | 9902 | 0313 | 0724 | 1135 | 1546 | 1957 |
| 316 | 46 | 5556 | 5966 | 6376 | 6786 | 7196 | 7607 | 8017 | 8427 | 8838 | 9248 | 9659 | 0069 | 0480 | 0891 | 1302 | 1713 | 2124 |
| 323 | 47 | 5724 | 6134 | 6544 | 6954 | 7364 | 7775 | 8185 | 8595 | 9006 | 9416 | 9827 | 0237 | 0648 | 1059 | 1469 | 1880 | 2291 |
| 330 | 48 | 5893 | 6303 | 6713 | 7123 | 7533 | 7943 | 8353 | 8763 | 9174 | 9584 | 9994 | 0405 | 0815 | 1226 | 1637 | 2048 | 2458 |
| 337 | 49 | 6062 | 6471 | 6881 | 7291 | 7701 | 8111 | 8521 | 8931 | 9342 | 9752 | 0162 | 0573 | 0983 | 1394 | 1804 | 2215 | 2626 |
| 343 | 50 | 9 (0) 6230 | 6640 | 7050 | 7460 | 7870 | 8279 | 8689 | 9100 | 9510 | 9920 | 0330 | 0741 | 1151 | 1561 | 1972 | 2383 | 2793 |
| 350 | 51 | 6399 | 6809 | 7219 | 7628 | 8038 | 8448 | 8858 | 9268 | 9678 | 0088 | 0498 | 0909 | 1319 | 1729 | 2140 | 2550 | 2961 |
| 357 | 52 | 6568 | 6978 | 7387 | 7797 | 8207 | 8616 | 9026 | 9436 | 9846 | 0256 | 0666 | 1077 | 1487 | 1897 | 2307 | 2718 | 3128 |
| 364 | 53 | 6737 | 7147 | 7556 | 7966 | 8375 | 8785 | 9195 | 9605 | 0014 | 0424 | 0834 | 1245 | 1655 | 2065 | 2475 | 2885 | 3296 |
| 371 | 54 | 6906 | 7316 | 7725 | 8134 | 8544 | 8954 | 9363 | 9773 | 0183 | 0593 | 1003 | 1413 | 1823 | 2233 | 2643 | 3053 | 3464 |
| 378 | 55 | 9 (0) 7076 | 7485 | 7894 | 8303 | 8713 | 9192 | 9539 | 9941 | 0351 | 0761 | 1171 | 1581 | 1991 | 2401 | 2811 | 3221 | 3631 |
| 385 | 56 | 7245 | 7654 | 8063 | 8472 | 8882 | 9291 | 9701 | 0110 | 0520 | 0929 | 1339 | 1749 | 2159 | 2569 | 2979 | 3389 | 3799 |
| 391 | 57 | 7414 | 7823 | 8232 | 8641 | 9051 | 9460 | 9869 | 0279 | 0688 | 1098 | 1508 | 1917 | 2327 | 2737 | 3147 | 3557 | 3967 |
| 398 | 58 | 7583 | 7992 | 8401 | 8810 | 9920 | 9629 | 0038 | 0448 | 0857 | 1266 | 1676 | 2086 | 2495 | 2905 | 3315 | 3725 | 1135 |
| 405 | 59 | 7753 | 8162 | 8571 | 8980 | 9389 | 9798 | 0207 | 0616 | 1026 | 1435 | 1845 | 2254 | 2664 | 3074 | 3483 | 3893 | 4303 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 35° | Núm. |
|---|---|---|
| 0 | 0′ | 8 0848 |
| 3 | 1 | 1015 |
| 6 | 2 | 1182 |
| 8 | 3 | 1349 |
| 11 | 4 | 1516 |
| 14 | 5 | 8 1683 |
| 17 | 6 | 1850 |
| 20 | 7 | 2018 |
| 22 | 8 | 2185 |
| 25 | 9 | 2352 |
| 28 | 10 | 8 2520 |
| 31 | 11 | 2687 |
| 34 | 12 | 2855 |
| 37 | 13 | 3023 |
| 39 | 14 | 3191 |
| 42 | 15 | 8 3358 |
| 45 | 16 | 3526 |
| 48 | 17 | 3694 |
| 51 | 18 | 3862 |
| 53 | 19 | 4031 |
| 56 | 20 | 8 4199 |
| 59 | 21 | 4367 |
| 62 | 22 | 4535 |
| 65 | 23 | 4704 |
| 68 | 24 | 4872 |
| 70 | 25 | 8 5041 |
| 73 | 26 | 5209 |
| 76 | 27 | 5378 |
| 79 | 28 | 5547 |
| 82 | 29 | 5716 |
| 84 | 30 | 8 5884 |
| 87 | 31 | 6053 |
| 90 | 32 | 6222 |
| 93 | 33 | 6392 |
| 96 | 34 | 6561 |
| 99 | 35 | 8 6730 |
| 101 | 36 | 6899 |
| 104 | 37 | 7069 |
| 107 | 38 | 7238 |
| 110 | 39 | 7408 |
| 113 | 40 | 8 7577 |
| 115 | 41 | 7747 |
| 118 | 42 | 7916 |
| 121 | 43 | 8086 |
| 124 | 44 | 8256 |
| 127 | 45 | 8 8426 |
| 130 | 46 | 8596 |
| 132 | 47 | 8766 |
| 135 | 48 | 8936 |
| 138 | 49 | 9106 |
| 141 | 50 | 8 9277 |
| 144 | 51 | 9447 |
| 146 | 52 | 9617 |
| 149 | 53 | 9788 |
| 152 | 54 | 9958 |
| 155 | 55 | 9 0129 |
| 158 | 56 | 0300 |
| 161 | 57 | 0470 |
| 163 | 58 | 0641 |
| 166 | 59 | 0812 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 36° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 36° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 9 | 0983 | 1391 | 1798 | 2206 | 2614 | 3022 | 3430 | 3838 | 4246 | 4654 | 5063 | 5471 | 5879 | 6288 | 6696 | 7105 | 7513 | 169 | 0' | 1 8985 |
| 7 | 1 | | 1151 | 1562 | 1969 | 2377 | 2785 | 3192 | 3600 | 4008 | 4416 | 4824 | 5233 | 5641 | 6049 | 5458 | 6866 | 7274 | 7683 | 166 | 1 | 8818 |
| 13 | 2 | | 1325 | 1733 | 2140 | 2548 | 2955 | 3363 | 3771 | 4179 | 4587 | 4995 | 5403 | 5811 | 6219 | 6628 | 7036 | 7444 | 7853 | 163 | 2 | 8651 |
| 20 | 3 | | 1496 | 1904 | 2311 | 2719 | 3126 | 3531 | 3942 | 4349 | 4757 | 5165 | 5573 | 5981 | 6389 | 6798 | 7206 | 7614 | 8023 | 161 | 3 | 8484 |
| 27 | 4 | | 1667 | 2075 | 2482 | 2890 | 3297 | 3705 | 4112 | 4520 | 4928 | 5336 | 5743 | 6151 | 6559 | 6968 | 7376 | 7784 | 8192 | 158 | 4 | 8317 |
| 34 | 5 | 9 | 1839 | 2246 | 2653 | 3061 | 3468 | 3875 | 4283 | 4691 | 5098 | 5506 | 5914 | 6322 | 6730 | 7138 | 7546 | 7954 | 8362 | 155 | 5 | 1 8150 |
| 41 | 6 | | 2010 | 2417 | 2824 | 3232 | 3639 | 1046 | 4454 | 4861 | 5269 | 5677 | 6084 | 6492 | 6900 | 7308 | 7716 | 8124 | 8532 | 152 | 6 | 7982 |
| 47 | 7 | | 2181 | 2588 | 2996 | 3403 | 3810 | 4217 | 4625 | 5032 | 5440 | 5817 | 6255 | 6663 | 7070 | 7478 | 7886 | 8294 | 8702 | 149 | 7 | 7815 |
| 54 | 8 | | 2353 | 2760 | 3167 | 3574 | 3981 | 4388 | 4796 | 5203 | 5610 | 6018 | 6126 | 6833 | 7241 | 7619 | 8057 | 8464 | 8872 | 146 | 8 | 7648 |
| 61 | 9 | | 2525 | 2931 | 3338 | 3745 | 4152 | 4560 | 4967 | 5374 | 5781 | 6189 | 6596 | 7004 | 7411 | 7819 | 8227 | 8635 | 9043 | 144 | 9 | 7480 |
| 68 | 10 | 9 | 2696 | 3103 | 3510 | 3917 | 4324 | 4731 | 5138 | 5545 | 5952 | 6360 | 6767 | 7175 | 7582 | 7990 | 8397 | 8805 | 9213 | 141 | 10 | 1 7313 |
| 74 | 11 | | 2868 | 3275 | 3681 | 4088 | 4495 | 4902 | 5309 | 5716 | 6123 | 6531 | 6938 | 7345 | 7753 | 8160 | 8568 | 8975 | 9383 | 138 | 11 | 7145 |
| 81 | 12 | | 3040 | 3446 | 3853 | 4260 | 4666 | 5073 | 5180 | 5887 | 6294 | 6702 | 7109 | 7516 | 7923 | 8331 | 8738 | 9146 | 9554 | 135 | 12 | 6977 |
| 88 | 13 | | 3211 | 3618 | 4025 | 4431 | 4838 | 5245 | 5652 | 6059 | 6466 | 6873 | 7280 | 7687 | 8094 | 8502 | 8909 | 9316 | 9724 | 132 | 13 | 6809 |
| 95 | 14 | | 3383 | 3790 | 4196 | 4603 | 5010 | 5416 | 5823 | 6230 | 6637 | 7044 | 7451 | 7858 | 8265 | 8672 | 9080 | 9487 | 9894 | 130 | 14 | 6641 |
| 101 | 15 | 9 (0) | 3555 | 3962 | 4368 | 4775 | 5181 | 5588 | 5994 | 6401 | 6808 | 7215 | 7622 | 8029 | 8436 | 8843 | 9250 | 9658 | 0065 | 127 | 15 | 1 6473 |
| 108 | 16 | | 3727 | 4134 | 4540 | 4946 | 5353 | 5759 | 6166 | 6573 | 6979 | 7386 | 7793 | 8200 | 8607 | 9011 | 9421 | 9828 | 0236 | 124 | 16 | 6305 |
| 115 | 17 | | 3900 | 4306 | 4712 | 5118 | 5525 | 5931 | 6338 | 6744 | 7151 | 7558 | 7964 | 8371 | 8778 | 9185 | 9592 | 9999 | 0406 | 121 | 17 | 6137 |
| 122 | 18 | | 4072 | 4478 | 4884 | 5290 | 5696 | 6103 | 6509 | 6916 | 7322 | 7729 | 8136 | 8542 | 8949 | 9356 | 9763 | 0170 | 0577 | 118 | 18 | 5969 |
| 128 | 19 | | 4244 | 4650 | 5056 | 5462 | 5868 | 6275 | 6681 | 7087 | 7494 | 7900 | 8307 | 8714 | 9120 | 9527 | 9934 | 0341 | 0748 | 115 | 19 | 5801 |
| 135 | 20 | 9 (0) | 4416 | 4822 | 5228 | 5631 | 6040 | 6446 | 6853 | 7259 | 7665 | 8072 | 8478 | 8885 | 9292 | 9698 | 0105 | 0512 | 0919 | 113 | 20 | 1 5633 |
| 142 | 21 | | 4589 | 4994 | 5100 | 5806 | 6212 | 6618 | 7025 | 7431 | 7837 | 8243 | 8650 | 9056 | 9463 | 9870 | 0276 | 0683 | 1090 | 110 | 21 | 5465 |
| 149 | 22 | | 4761 | 5167 | 5573 | 5978 | 6384 | 6790 | 7197 | 7603 | 8009 | 8415 | 8821 | 9228 | 9634 | 0041 | 0448 | 0854 | 1261 | 107 | 22 | 5296 |
| 155 | 23 | | 4934 | 5339 | 5745 | 6151 | 6557 | 6963 | 7369 | 7775 | 8181 | 8587 | 8993 | 9399 | 9806 | 0212 | 0619 | 1026 | 1432 | 104 | 23 | 5128 |
| 162 | 24 | | 5106 | 5512 | 5917 | 6323 | 6729 | 7135 | 7541 | 7947 | 8353 | 8759 | 9165 | 9571 | 9977 | 0384 | 0790 | 1197 | 1603 | 101 | 24 | 4959 |
| 169 | 25 | 9 (0) | 5279 | 5684 | 6090 | 6495 | 6901 | 7307 | 7713 | 8119 | 8525 | 8931 | 9337 | 9743 | 0149 | 0555 | 0962 | 1368 | 1775 | 99 | 25 | 1 4791 |
| 176 | 26 | | 5152 | 5857 | 6262 | 6668 | 7073 | 7479 | 7885 | 8291 | 8697 | 9103 | 9509 | 9915 | 0321 | 0727 | 1133 | 1540 | 1946 | 96 | 26 | 4622 |
| 182 | 27 | | 5621 | 6030 | 6435 | 6840 | 7246 | 7651 | 8057 | 8463 | 8869 | 9275 | 9681 | 0086 | 0492 | 0899 | 1305 | 1711 | 2118 | 93 | 27 | 4453 |
| 189 | 28 | | 5797 | 6202 | 6608 | 7013 | 7418 | 7824 | 8229 | 8635 | 9041 | 9147 | 9853 | 0258 | 0664 | 1070 | 1476 | 1883 | 2289 | 90 | 28 | 4284 |
| 196 | 29 | | 5970 | 6375 | 6780 | 7186 | 7591 | 7996 | 8402 | 8807 | 9213 | 9619 | 0025 | 0430 | 0836 | 1242 | 1648 | 2054 | 2460 | 87 | 29 | 4116 |
| 203 | 30 | 9 (0) | 6143 | 6548 | 6953 | 7358 | 7764 | 8169 | 8574 | 8980 | 9385 | 9791 | 0197 | 0602 | 1008 | 1414 | 1820 | 2226 | 2632 | 84 | 30 | 1 3947 |
| 210 | 31 | | 6316 | 6721 | 7126 | 7531 | 7936 | 8342 | 8747 | 9152 | 9558 | 9963 | 0369 | 0774 | 1180 | 1586 | 1992 | 2398 | 2804 | 82 | 31 | 3778 |
| 216 | 32 | | 6489 | 6894 | 7299 | 7704 | 8109 | 8514 | 8920 | 9325 | 9730 | 0136 | 0541 | 0947 | 1352 | 1758 | 2161 | 2569 | 2975 | 79 | 32 | 3608 |
| 223 | 33 | | 6662 | 7067 | 7472 | 7877 | 8282 | 8687 | 9092 | 9497 | 9903 | 0308 | 0713 | 1119 | 1524 | 1930 | 2336 | 2741 | 3147 | 76 | 33 | 3439 |
| 230 | 34 | | 6836 | 7240 | 7645 | 8050 | 8455 | 8860 | 9265 | 9670 | 0075 | 0180 | 0886 | 1291 | 1697 | 2102 | 2508 | 2913 | 3319 | 73 | 34 | 3270 |
| 237 | 35 | 9 (0) | 7009 | 7414 | 7818 | 8223 | 8628 | 9033 | 9438 | 9843 | 0248 | 0653 | 1058 | 1464 | 1869 | 2274 | 2680 | 3085 | 3491 | 70 | 35 | 1 3101 |
| 243 | 36 | | 7183 | 7587 | 7992 | 8396 | 8801 | 9206 | 9611 | 0016 | 0421 | 0826 | 1231 | 1636 | 2041 | 2447 | 2852 | 3257 | 3663 | 68 | 36 | 2931 |
| 250 | 37 | | 7356 | 7760 | 8165 | 8569 | 8974 | 9379 | 9784 | 0188 | 0593 | 0998 | 1403 | 1808 | 2214 | 2619 | 3024 | 3430 | 3835 | 65 | 37 | 2762 |
| 257 | 38 | | 7530 | 7934 | 8338 | 8743 | 9147 | 9552 | 9957 | 0361 | 0766 | 1171 | 1576 | 1981 | 2386 | 2791 | 3197 | 3602 | 4007 | 62 | 38 | 2592 |
| 264 | 39 | | 7703 | 8107 | 8512 | 8916 | 9320 | 9725 | 0130 | 0534 | 0939 | 1344 | 1749 | 2154 | 2559 | 2964 | 3369 | 3774 | 4179 | 59 | 39 | 2423 |
| 270 | 40 | 9 (0) | 7877 | 8281 | 8685 | 9089 | 9494 | 9898 | 0303 | 0707 | 1112 | 1517 | 1921 | 2326 | 2731 | 3136 | 3541 | 3946 | 4352 | 56 | 40 | 1 2253 |
| 277 | 41 | | 8050 | 8455 | 8859 | 9263 | 9667 | 0072 | 0476 | 0881 | 1285 | 1690 | 2091 | 2499 | 2904 | 3309 | 3714 | 4119 | 4524 | 53 | 41 | 2084 |
| 284 | 42 | | 8224 | 8628 | 9032 | 9436 | 9841 | 0245 | 0649 | 1054 | 1458 | 1863 | 2267 | 2672 | 3077 | 3482 | 3886 | 4291 | 4696 | 51 | 42 | 1914 |
| 290 | 43 | | 8398 | 8802 | 9206 | 9610 | 0014 | 0418 | 0823 | 1227 | 1631 | 2036 | 2440 | 2845 | 3250 | 3654 | 4059 | 4464 | 4869 | 48 | 43 | 1744 |
| 297 | 44 | | 8572 | 8976 | 9380 | 9784 | 0188 | 0592 | 0996 | 1400 | 1805 | 2209 | 2613 | 3018 | 3422 | 3827 | 4232 | 4637 | 5041 | 45 | 44 | 1574 |
| 304 | 45 | 9 (0) | 8746 | 9150 | 9554 | 9958 | 0361 | 0765 | 1169 | 1574 | 1978 | 2382 | 2786 | 3191 | 3595 | 4000 | 4405 | 4809 | 5214 | 42 | 45 | 1 1404 |
| 311 | 46 | | 8920 | 9324 | 9728 | 0131 | 0535 | 0939 | 1343 | 1747 | 2151 | 2555 | 2960 | 3364 | 3768 | 4173 | 4577 | 4982 | 5387 | 39 | 46 | 1234 |
| 318 | 47 | | 9094 | 9498 | 9902 | 0305 | 0709 | 1113 | 1517 | 1921 | 2325 | 2729 | 3133 | 3537 | 3941 | 1346 | 4750 | 5155 | 5559 | 37 | 47 | 1064 |
| 324 | 48 | | 9269 | 9672 | 0076 | 0479 | 0883 | 1287 | 1690 | 2094 | 2498 | 2902 | 3306 | 3710 | 4115 | 4519 | 4923 | 5328 | 5732 | 34 | 48 | 0894 |
| 331 | 49 | | 9443 | 9846 | 0250 | 0653 | 1057 | 1460 | 1864 | 2268 | 2672 | 3076 | 3480 | 3884 | 4288 | 4692 | 5096 | 5501 | 5905 | 31 | 49 | 0723 |
| 338 | 50 | 9 (0) | 9617 | 0020 | 0424 | 0827 | 1231 | 1634 | 2038 | 2442 | 2845 | 3249 | 3653 | 4057 | 4461 | 4865 | 5269 | 5674 | 6078 | 28 | 50 | 1 0553 |
| 345 | 51 | | 9792 | 0195 | 0598 | 1001 | 1405 | 1808 | 2212 | 2616 | 3019 | 3423 | 3827 | 4231 | 4635 | 5039 | 5443 | 5847 | 6251 | 25 | 51 | 0383 |
| 351 | 52 | | 9966 | 0369 | 0772 | 1176 | 1579 | 1982 | 2386 | 2789 | 3193 | 3597 | 1000 | 4404 | 4808 | 5212 | 5616 | 6020 | 6424 | 22 | 52 | 0212 |
| 358 | 53 | 0 | 0141 | 0544 | 0947 | 1350 | 1753 | 2157 | 2560 | 2963 | 3367 | 3770 | 4174 | 1578 | 4981 | 5385 | 5789 | 6193 | 6597 | 20 | 53 | 0042 |
| 365 | 54 | | 0315 | 0718 | 1121 | 1524 | 1927 | 2331 | 2734 | 3137 | 3541 | 3914 | 4348 | 4751 | 5155 | 5559 | 5963 | 6366 | 6770 | 17 | 54 | 0 9871 |
| 372 | 55 | 0 | 0490 | 0893 | 1296 | 1699 | 2102 | 2505 | 2908 | 3311 | 3715 | 4118 | 4522 | 4925 | 5329 | 5732 | 6136 | 6540 | 6944 | 14 | 55 | 8 9700 |
| 378 | 56 | | 0665 | 1067 | 1470 | 1873 | 2276 | 2679 | 3082 | 3486 | 3889 | 4292 | 4695 | 5099 | 5502 | 5906 | 6310 | 6713 | 7117 | 11 | 56 | 9530 |
| 385 | 57 | | 0840 | 1242 | 1645 | 2048 | 2451 | 2854 | 3257 | 3660 | 4063 | 4466 | 4869 | 5273 | 5676 | 60[illegible]0 | 6483 | 6887 | 7290 | 8 | 57 | 9359 |
| 392 | 58 | | 1014 | 1417 | 1820 | 2222 | 2625 | 3028 | 3431 | 3834 | 4237 | 4640 | 5043 | 5447 | 5850 | 6253 | 6657 | 7060 | 7464 | 6 | 58 | 9188 |
| 399 | 59 | | 1189 | 1592 | 1995 | 2397 | 2800 | 3203 | 3605 | 4008 | 4411 | 4814 | 5217 | 5621 | 6024 | 6427 | 6831 | 7234 | 7638 | 3 | 59 | 9017 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 36° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 36° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 9 (0) | 7922 | 8331 | 8740 | 9149 | 9558 | 9967 | 0376 | 0785 | 1194 | 1604 | 2013 | 2423 | 2832 | 3242 | 3652 | 4061 | 4471 | 8 | 0′ | 9 0983 |
| 7 | 1 | | 8092 | 8500 | 8909 | 9318 | 9727 | 0136 | 0515 | 0954 | 1363 | 1773 | 2182 | 2591 | 3001 | 3410 | 3820 | 4230 | 4639 | 3 | 1 | 1154 |
| 14 | 2 | | 8261 | 8670 | 9079 | 9487 | 9896 | 0305 | 0714 | 1123 | 1532 | 1942 | 2351 | 2760 | 3169 | 3579 | 3988 | 4398 | 4808 | 6 | 2 | 1325 |
| 20 | 3 | | 8431 | 8840 | 9248 | 9657 | 0066 | 0474 | 0883 | 1292 | 1701 | 2111 | 2520 | 2929 | 3338 | 3747 | 4157 | 4566 | 4976 | 9 | 3 | 1496 |
| 27 | 4 | | 8601 | 9009 | 9418 | 9826 | 0235 | 0644 | 1053 | 1461 | 1870 | 2288 | 2689 | 3097 | 3507 | 3916 | 4325 | 4735 | 5144 | 11 | 4 | 1667 |
| 34 | 5 | 9 (0) | 8771 | 9179 | 9587 | 9996 | 0105 | 0813 | 1222 | 1631 | 2039 | 2449 | 2858 | 3266 | 3675 | 4085 | 4494 | 4903 | 5313 | 14 | 5 | 9 1839 |
| 41 | 6 | | 8941 | 9349 | 9757 | 0166 | 0574 | 0983 | 1391 | 1808 | 2289 | 2618 | 3027 | 3435 | 3844 | 4253 | 4663 | 5072 | 5481 | 17 | 6 | 2010 |
| 48 | 7 | | 0110 | 9519 | 9927 | 0335 | 0744 | 1152 | 1561 | 1969 | 2378 | 2787 | 3196 | 3604 | 4013 | 4422 | 4831 | 5240 | 5650 | 20 | 7 | 2182 |
| 54 | 8 | | 9280 | 9689 | 0097 | 0505 | 0913 | 1322 | 1730 | 2139 | 2547 | 2956 | 3365 | 3773 | 4182 | 4591 | 5000 | 5409 | 5818 | 23 | 0 | 2353 |
| 61 | 9 | | 9451 | 9859 | 0267 | 0675 | 1083 | 1491 | 1900 | 2308 | 2717 | 3125 | 3534 | 3943 | 4351 | 4760 | 5169 | 5578 | 5987 | 26 | 9 | 2525 |
| 68 | 10 | 2 (0) | 9621 | 0029 | 0437 | 0845 | 1253 | 1661 | 2069 | 2478 | 2886 | 3295 | 3703 | 4112 | 4520 | 4929 | 5338 | 5747 | 6156 | 29 | 10 | 9 2696 |
| 75 | 11 | | 9791 | 0199 | 0607 | 1815 | 1423 | 1831 | 2239 | 2647 | 3056 | 3464 | 3873 | 4281 | 4690 | 5098 | 5507 | 5916 | 6325 | 32 | 11 | 2868 |
| 81 | 12 | | 2961 | 0369 | 0777 | 1185 | 1593 | 2001 | 2409 | 2817 | 3225 | 3634 | 4042 | 4450 | 4859 | 5267 | 5676 | 6085 | 6494 | 35 | 12 | 3040 |
| 88 | 13 | 0 | 0132 | 0539 | 0947 | 1355 | 1763 | 2171 | 2579 | 2987 | 3395 | 3803 | 4211 | 4620 | 5028 | 5437 | 5845 | 6254 | 6663 | 37 | 13 | 3212 |
| 95 | 14 | | 0302 | 0710 | 1117 | 1525 | 1933 | 2341 | 2749 | 3157 | 3565 | 3973 | 4381 | 4789 | 5198 | 5606 | 6014 | 6423 | 6832 | 40 | 14 | 3383 |
| 102 | 15 | 8 | 8472 | 0880 | 1288 | 1695 | 2103 | 2511 | 2919 | 3326 | 3734 | 4142 | 4551 | 4959 | 5367 | 5775 | 6184 | 6592 | 7001 | 43 | 15 | 9 3555 |
| 100 | 16 | | 0643 | 1050 | 1458 | 1866 | 2273 | 2681 | 3089 | 3496 | 3904 | 4312 | 4720 | 5128 | 5537 | 5945 | 6353 | 6761 | 7170 | 46 | 16 | 3727 |
| 115 | 17 | | 0814 | 1221 | 1628 | 2036 | 2443 | 2851 | 3259 | 3666 | 4074 | 4482 | 4890 | 5298 | 5706 | 6114 | 6522 | 6931 | 7339 | 49 | 17 | 3900 |
| 122 | 18 | | 0984 | 1392 | 1799 | 2206 | 2614 | 3021 | 3429 | 3836 | 4244 | 4652 | 5060 | 5468 | 5876 | 6284 | 6692 | 7100 | 7508 | 52 | 18 | 4072 |
| 129 | 19 | | 1155 | 1562 | 1970 | 2377 | 2784 | 3192 | 3599 | 4007 | 4414 | 4822 | 5230 | 5638 | 6046 | 6453 | 6861 | 7270 | 7678 | 55 | 19 | 4244 |
| 136 | 20 | 0 | 1326 | 1733 | 2140 | 2547 | 2955 | 3362 | 3769 | 4177 | 4584 | 4992 | 5400 | 5807 | 6215 | 6623 | 7031 | 7439 | 7847 | 58 | 20 | 9 4416 |
| 143 | 21 | | 1497 | 1204 | 2311 | 2718 | 3125 | 3532 | 3940 | 4347 | 4755 | 5162 | 5570 | 5977 | 6385 | 6793 | 7201 | 7609 | 8017 | 61 | 21 | 4589 |
| 149 | 22 | | 1668 | 2075 | 2482 | 2889 | 3296 | 3703 | 4110 | 4518 | 4925 | 5332 | 5740 | 6147 | 6555 | 6963 | 7371 | 7778 | 8186 | 63 | 22 | 4761 |
| 156 | 23 | | 1839 | 2246 | 2653 | 3059 | 3467 | 3874 | 4281 | 4688 | 5095 | 5583 | 5910 | 6317 | 6725 | 7133 | 7540 | 7948 | 8356 | 66 | 23 | 4934 |
| 163 | 24 | | 2010 | 2417 | 2823 | 3230 | 3637 | 4044 | 4451 | 4858 | 5266 | 5673 | 6080 | 6488 | 6895 | 7303 | 7710 | 8118 | 8526 | 69 | 24 | 5106 |
| 170 | 25 | 0 | 2181 | 2588 | 2994 | 3401 | 3808 | 4215 | 4622 | 5029 | 5436 | 5843 | 6251 | 6658 | 7065 | 7473 | 7880 | 8288 | 8695 | 72 | 25 | 9 5279 |
| 176 | 26 | | 2352 | 2759 | 3166 | 3572 | 3979 | 4386 | 4793 | 5200 | 5607 | 6014 | 6421 | 6828 | 7235 | 7643 | 8050 | 8458 | 8865 | 75 | 26 | 5452 |
| 103 | 27 | | 2524 | 2930 | 3337 | 3743 | 4158 | 4557 | 4963 | 5370 | 5777 | 6184 | 6591 | 6998 | 7406 | 7813 | 8220 | 8628 | 9035 | 78 | 27 | 5624 |
| 190 | 20 | | 2695 | 3102 | 3508 | 3914 | 4321 | 4728 | 5134 | 5541 | 5948 | 6355 | 6762 | 7169 | 7576 | 7983 | 8390 | 8798 | 9205 | 81 | 20 | 5797 |
| 197 | 29 | | 2867 | 3273 | 3679 | 4086 | 4492 | 4899 | 5305 | 5712 | 6119 | 6525 | 6932 | 7339 | 7746 | 8153 | 8561 | 8968 | 9375 | 84 | 29 | 5970 |
| 204 | 30 | 0 | 3038 | 3444 | 3851 | 4257 | 4663 | 5070 | 5476 | 5883 | 6289 | 6696 | 7103 | 7510 | 7917 | 8324 | 8731 | 9138 | 9546 | 86 | 30 | 9 6143 |
| 210 | 31 | | 3210 | 3616 | 4022 | 4428 | 4835 | 5241 | 5647 | 6054 | 6460 | 6867 | 7274 | 7680 | 8087 | 8494 | 8901 | 9308 | 9716 | 89 | 31 | 6316 |
| 217 | 32 | | 3301 | 3787 | 4193 | 4600 | 5006 | 5412 | 5818 | 6225 | 6631 | 7038 | 7444 | 7851 | 8258 | 8665 | 9872 | 9479 | 9886 | 92 | 32 | 6489 |
| 224 | 33 | 0 (1) | 3553 | 3959 | 4365 | 4771 | 5177 | 5583 | 5990 | 6396 | 6802 | 7209 | 7615 | 8022 | 8429 | 8835 | 9242 | 9649 | 0056 | 95 | 33 | 6663 |
| 231 | 34 | | 3725 | 4131 | 4537 | 4942 | 5349 | 5755 | 6161 | 6567 | 6973 | 7380 | 7786 | 8193 | 8599 | 9006 | 9413 | 9820 | 0226 | 98 | 34 | 5836 |
| 237 | 35 | 0 (1) | 3897 | 4302 | 4708 | 5114 | 5520 | 5926 | 6332 | 6738 | 7145 | 7551 | 7957 | 8364 | 8770 | 9177 | 9583 | 9990 | 0397 | 101 | 35 | 9 7009 |
| 244 | 36 | | 4069 | 4474 | 4880 | 5286 | 5692 | 6098 | 6504 | 6910 | 7316 | 7722 | 8128 | 8535 | 8941 | 9347 | 9754 | 0161 | 0567 | 104 | 36 | 7183 |
| 251 | 37 | | 4241 | 4646 | 5052 | 5457 | 5863 | 6269 | 6675 | 7081 | 7487 | 7893 | 8299 | 8706 | 9112 | 9518 | 9925 | 0331 | 0738 | 107 | 37 | 7356 |
| 258 | 38 | | 4413 | 4818 | 5224 | 5629 | 6035 | 6441 | 6847 | 7252 | 7658 | 8864 | 8471 | 8877 | 9283 | 9689 | 0096 | 0502 | 0908 | 110 | 38 | 7530 |
| 265 | 39 | | 4585 | 4990 | 5396 | 5801 | 6207 | 6612 | 7018 | 7424 | 7830 | 8236 | 8642 | 9048 | 9454 | 9860 | 0266 | 0673 | 1079 | 112 | 39 | 7783 |
| 271 | 40 | 8 (1) | 4757 | 5162 | 5568 | 5973 | 6379 | 6784 | 7190 | 7595 | 8001 | 8487 | 8813 | 9219 | 9625 | 0031 | 0437 | 0844 | 1250 | 115 | 40 | 9 7877 |
| 278 | 41 | | 4929 | 5334 | 5740 | 6145 | 6551 | 6956 | 7361 | 7767 | 8173 | 8579 | 8984 | 9390 | 9796 | 0202 | 0608 | 1015 | 1421 | 118 | 41 | 8051 |
| 285 | 42 | | 5101 | 5507 | 5912 | 6317 | 6723 | 7128 | 7533 | 7939 | 8344 | 8750 | 9156 | 9562 | 9968 | 0373 | 0780 | 1186 | 1592 | 121 | 42 | 8224 |
| 222 | 43 | | 5274 | 5672 | 6081 | 6489 | 6895 | 7300 | 7705 | 8111 | 8516 | 8922 | 9327 | 9733 | 0139 | 0545 | 0951 | 1357 | 1763 | 124 | 43 | 8398 |
| 292 | 44 | | 5446 | 5851 | 6256 | 6661 | 7067 | 7472 | 7877 | 8282 | 8688 | 9093 | 9499 | 9905 | 0310 | 0716 | 1122 | 1528 | 1934 | 127 | 44 | 8572 |
| 305 | 45 | 0 (1) | 5619 | 6024 | 6429 | 6834 | 7239 | 7644 | 8049 | 8154 | 8860 | 9265 | 9671 | 0076 | 0482 | 0887 | 1293 | 1699 | 2105 | 130 | 45 | 9 8746 |
| 312 | 46 | | 5791 | 6196 | 6601 | 7006 | 7411 | 7816 | 8221 | 8626 | 9032 | 9437 | 9842 | 0248 | 0653 | 1859 | 1465 | 1870 | 2276 | 133 | 46 | 8920 |
| 319 | 47 | | 5964 | 6369 | 6774 | 7178 | 7583 | 7988 | 8393 | 8798 | 9204 | 9609 | 0014 | 0419 | 0825 | 1230 | 1636 | 2042 | 2447 | 135 | 47 | 9894 |
| 326 | 40 | | 6137 | 6541 | 6946 | 7351 | 7756 | 8160 | 8565 | 8970 | 9376 | 9781 | 0186 | 0591 | 0997 | 1402 | 1807 | 2213 | 2619 | 138 | 48 | 9269 |
| 332 | 49 | | 6310 | 6714 | 7119 | 7523 | 7228 | 8333 | 8730 | 9143 | 9548 | 9953 | 0358 | 0763 | 1168 | 1574 | 1979 | 2305 | 2790 | 141 | 49 | 9443 |
| 339 | 50 | 0 (1) | 6482 | 6887 | 7291 | 7696 | 8181 | 8505 | 8910 | 9315 | 9720 | 0125 | 0530 | 0935 | 1340 | 1745 | 2151 | 2556 | 2961 | 144 | 50 | 9 9617 |
| 346 | 51 | | 6655 | 7068 | 7464 | 7869 | 8273 | 8678 | 9082 | 9487 | 9892 | 0297 | 0702 | 1107 | 1512 | 1917 | 2322 | 2728 | 3133 | 147 | 51 | 9792 |
| 353 | 52 | | 6828 | 7233 | 7637 | 8041 | 8446 | 8850 | 9255 | 9668 | 0064 | 0469 | 0874 | 1279 | 1684 | 2089 | 2494 | 2899 | 3305 | 150 | 52 | 9966 |
| 360 | 53 | | 7001 | 7406 | 7818 | 8214 | 8618 | 9023 | 9427 | 9832 | 0237 | 0641 | 1046 | 1451 | 1856 | 2261 | 2666 | 3071 | 3476 | 153 | 53 | 0 0141 |
| 355 | 54 | | 7174 | 7572 | 7983 | 8387 | 8791 | 9196 | 9600 | 0004 | 0489 | 0814 | 1218 | 1623 | 2028 | 2433 | 2838 | 3243 | 3648 | 156 | 54 | 0315 |
| 373 | 55 | 0 (1) | 7348 | 7752 | 8156 | 8560 | 8964 | 9368 | 9773 | 0177 | 0581 | 0986 | 1391 | 1795 | 2200 | 2605 | 3010 | 3415 | 3820 | 159 | 55 | 0 0490 |
| 388 | 56 | | 7521 | 7925 | 8329 | 8733 | 9137 | 9541 | 9945 | 0349 | 0754 | 1158 | 1563 | 1268 | 2372 | 2777 | 3182 | 3587 | 3992 | 161 | 56 | 8665 |
| 387 | 57 | | 7694 | 8098 | 8502 | 8906 | 9310 | 9714 | 0118 | 0522 | 0927 | 1331 | 1735 | 2140 | 2545 | 2949 | 3354 | 3759 | 4163 | 164 | 57 | 0810 |
| 393 | 58 | | 7868 | 8271 | 8675 | 9079 | 9483 | 9887 | 0291 | 0695 | 1099 | 1504 | 1908 | 2312 | 2717 | 3121 | 3526 | 3931 | 4335 | 167 | 58 | 1815 |
| 400 | 59 | | 8041 | 8445 | 8849 | 9252 | 9656 | 0060 | 0464 | 0868 | 1272 | 1676 | 2081 | 2485 | 2889 | 3294 | 3698 | 4103 | 4507 | 170 | 59 | 1189 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 37° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 15' | Partes para segundos. | 37° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 | 1364 | 1767 | 2169 | 9572 | 2974 | 3377 | 3780 | 4183 | 4580 | 4989 | 5392 | 5795 | 6198 | 6601 | 7004 | 7408 | 7011 | 173 | 0' | 0 8810 |
| 7 | 1 | | 1540 | 1942 | 9344 | 2747 | 3149 | 3552 | 3954 | 4357 | 4706 | 5163 | 5566 | 5969 | 0379 | 0775 | 7178 | 7581 | 7985 | 170 | 1 | 8675 |
| 13 | 2 | | 1715 | 9117 | 2519 | 2922 | 3324 | 3727 | 4129 | 1532 | 4934 | 5337 | 5740 | 0143 | 6546 | 0949 | 7352 | 7755 | 8159 | 167 | 2 | 8504 |
| 20 | 3 | | 1890 | 9299 | 2694 | 3097 | 3499 | 3901 | 4304 | 4706 | 5109 | 5519 | 5914 | 0317 | 0720 | 7123 | 7526 | 7929 | 8332 | 164 | 3 | 6333 |
| 27 | 4 | | 2065 | 2467 | 9869 | 3979 | 3574 | 4076 | 4479 | 4881 | 5984 | 5686 | 6089 | 6492 | 6894 | 7297 | 7700 | 8103 | 8500 | 161 | 4 | 8161 |
| 33 | 5 | 0 | 2241 | 9643 | 3045 | 3447 | 3849 | 4251 | 4053 | 5056 | 5458 | 5861 | 0263 | 0600 | 7069 | 7471 | 7874 | 8277 | 8080 | 159 | 5 | 0 7990 |
| 40 | 6 | | 2410 | 2818 | 3220 | 3029 | 4024 | 4420 | 4828 | 5231 | 5633 | 6635 | 0438 | 6840 | 7243 | 7646 | 8048 | 8451 | 8854 | 155 | 6 | 7818 |
| 47 | 7 | | 2591 | 2993 | 3395 | 3797 | 4199 | 4001 | 5003 | 5405 | 5808 | 6910 | 0613 | 7015 | 7417 | 7820 | 8923 | 8625 | 9628 | 153 | 7 | 7647 |
| 53 | 8 | | 9767 | 3169 | 3571 | 3972 | 4374 | 4770 | 5178 | 5580 | 5983 | 6385 | 0787 | 7190 | 7522 | 7995 | 8397 | 8800 | 2202 | 150 | 8 | 7475 |
| 60 | 9 | | 9943 | 3344 | 3746 | 4148 | 4550 | 4951 | 5353 | 5755 | 6158 | 0560 | 0962 | 7364 | 7767 | 8169 | 8571 | 8974 | 9377 | 147 | 9 | 7304 |
| 67 | 16 | 0 | 3118 | 3590 | 3922 | 4323 | 4725 | 5127 | 5529 | 5931 | 6333 | 6735 | 7137 | 7539 | 7941 | 8344 | 8746 | 9148 | 9551 | 144 | 10 | 0 7132 |
| 73 | 11 | | 3294 | 3696 | 4097 | 4499 | 4900 | 5302 | 5704 | 0106 | 6508 | 6910 | 7312 | 7714 | 8110 | 8518 | 8921 | 9323 | 9725 | 141 | 11 | 5260 |
| 80 | 12 | | 3470 | 3871 | 4273 | 4674 | 5076 | 5477 | 5679 | 0281 | 6683 | 7085 | 7487 | 7889 | 8291 | 8693 | 9095 | 9497 | 9960 | 136 | 12 | 5788 |
| 87 | 13 | 0 (1) | 3046 | 4047 | 4142 | 4850 | 5951 | 5653 | 5054 | 0450 | 6858 | 7960 | 7069 | 8064 | 8466 | 8868 | 9270 | 9672 | 0074 | 135 | 13 | 6617 |
| 93 | 14 | | 3822 | 4223 | 4024 | 5026 | 5427 | 5828 | 6930 | 6032 | 7033 | 7435 | 7837 | 8939 | 8641 | 9042 | 9444 | 9847 | 0249 | 133 | 14 | 6445 |
| 100 | 15 | 0 (1) | 3998 | 4399 | 1800 | 5901 | 5603 | 6004 | 0406 | 6807 | 7208 | 7610 | 8012 | 8414 | 8816 | 9217 | 9519 | 0021 | 0423 | 130 | 15 | 0 6273 |
| 107 | 16 | | 4174 | 4575 | 4976 | 5377 | 5778 | 6180 | 6581 | 6982 | 7384 | 7785 | 8187 | 8589 | 8990 | 9392 | 9724 | 0196 | 6598 | 127 | 16 | 6100 |
| 113 | 17 | | 4350 | 4751 | 5152 | 5553 | 5954 | 6355 | 6757 | 7158 | 7559 | 7961 | 8362 | 8764 | 9160 | 9567 | 9909 | 0371 | 0773 | 124 | 17 | 5928 |
| 120 | 10 | | 4526 | 4927 | 5328 | 5729 | 6130 | 6531 | 6932 | 7334 | 7735 | 8136 | 8538 | 8939 | 9341 | 9742 | 0144 | 0516 | 0948 | 121 | 10 | 5756 |
| 127 | 12 | | 4703 | 5103 | 5504 | 5905 | 6306 | 6707 | 7108 | 7509 | 7910 | 8319 | 8713 | 9115 | 9516 | 9918 | 0319 | 0721 | 1123 | 118 | 19 | 5584 |
| 133 | 20 | 0 (1) | 4879 | 5280 | 5680 | 6081 | 6482 | 0883 | 7284 | 7085 | 8086 | 8487 | 8889 | 9290 | 9691 | 0093 | 0494 | 0896 | 1297 | 115 | 20 | 0 5411 |
| 140 | 21 | | 5056 | 5455 | 5857 | 6257 | 6658 | 7059 | 7400 | 7861 | 8202 | 8663 | 9004 | 9165 | 9867 | 0268 | 0669 | 1071 | 1472 | 112 | 21 | 5239 |
| 147 | 22 | | 5232 | 5633 | 6033 | 6434 | 6834 | 7935 | 7636 | 8037 | 8438 | 8839 | 9240 | 9041 | 0042 | 0443 | 0845 | 1246 | 1648 | 110 | 22 | 5066 |
| 153 | 93 | | 5409 | 5809 | 5210 | 6610 | 7011 | 7411 | 7812 | 0213 | 8614 | 9015 | 9415 | 9816 | 0218 | 0619 | 1090 | 1421 | 1823 | 107 | 23 | 4894 |
| 150 | 94 | | 5585 | 5986 | 6386 | 6780 | 7187 | 7587 | 7988 | 8389 | 8790 | 9190 | 9591 | 9992 | 0393 | 0791 | 1195 | 1597 | 1998 | 104 | 24 | 4791 |
| 107 | 25 | 0 (1) | 5762 | 6162 | 6502 | 6903 | 7363 | 7704 | 8164 | 8565 | 8960 | 9360 | 9767 | 0168 | 0569 | 0970 | 1371 | 1772 | 2173 | 101 | 25 | 0 4548 |
| 174 | 26 | | 5939 | 6339 | 6739 | 7139 | 7540 | 7940 | 8311 | 8741 | 9142 | 9549 | 9943 | 0344 | 0745 | 1145 | 1546 | 1947 | 2349 | 98 | 26 | 4370 |
| 180 | 27 | | 6116 | 6510 | 6910 | 7310 | 7710 | 8110 | 8517 | 8917 | 9318 | 9718 | 0119 | 0520 | 0926 | 1321 | 1722 | 2123 | 2524 | 95 | 27 | 4203 |
| 187 | 28 | | 5293 | 6693 | 7093 | 7493 | 7893 | 8293 | 8693 | 2094 | 2494 | 9894 | 0995 | 0695 | 1096 | 1497 | 1898 | 9299 | 2699 | 92 | 20 | 4030 |
| 194 | 29 | | 6470 | 6870 | 7209 | 7569 | 8069 | 8469 | 8870 | 9970 | 9670 | 0071 | 0471 | 6871 | 1272 | 1673 | 9073 | 2474 | 2875 | 89 | 29 | 3857 |
| 260 | 30 | 0 (1) | 6617 | 7046 | 7440 | 7840 | 8246 | 8646 | 9046 | 9146 | 9845 | 0947 | 0647 | 1048 | 1448 | 1849 | 2249 | 9656 | 3051 | 86 | 30 | 0 3684 |
| 207 | 31 | | 5824 | 7223 | 7093 | 8023 | 8423 | 8823 | 9223 | 9693 | 0023 | 0423 | 0093 | 1221 | 1624 | 2025 | 2425 | 2826 | 3220 | 84 | 31 | 3511 |
| 214 | 32 | | 7001 | 7400 | 7800 | 8200 | 8000 | 8999 | 9399 | 9799 | 0199 | 0599 | 1000 | 1460 | 1800 | 2201 | 2661 | 3002 | 3402 | 81 | 32 | 3337 |
| 220 | 33 | | 7178 | 7578 | 7977 | 8377 | 8770 | 9176 | 9576 | 9976 | 0376 | 0775 | 1176 | 1576 | 1975 | 2377 | 2777 | 3177 | 3578 | 78 | 33 | 3104 |
| 227 | 34 | | 7355 | 7755 | 8154 | 8554 | 8953 | 9353 | 9753 | 0153 | 0553 | 0959 | 1359 | 1752 | 2153 | 2553 | 2953 | 3353 | 3754 | 75 | 34 | 2991 |
| 231 | 35 | 0 (1) | 7533 | 7932 | 8332 | 8731 | 9130 | 9530 | 9930 | 0329 | 0729 | 1129 | 1599 | 1929 | 2329 | 2799 | 3129 | 3529 | 3930 | 72 | 35 | 0 2017 |
| 240 | 36 | | 7710 | 8110 | 8509 | 8908 | 9308 | 9707 | 0107 | 0506 | 0906 | 1306 | 1706 | 9105 | 2505 | 2905 | 3305 | 3706 | 4106 | 69 | 36 | 2644 |
| 247 | 37 | | 7888 | 8987 | 8686 | 9085 | 9485 | 9804 | 0284 | 0083 | 1083 | 1489 | 1882 | 2982 | 2682 | 3082 | 3482 | 3802 | 4202 | 66 | 37 | 2470 |
| 254 | 38 | | 0055 | 8464 | 8864 | 9263 | 9569 | 0061 | 0401 | 0860 | 1960 | 1659 | 2059 | 2459 | 2858 | 3258 | 3658 | 4058 | 4458 | 63 | 38 | 2997 |
| 260 | 39 | | 8243 | 6642 | 9041 | 9440 | 9839 | 0238 | 0638 | 1037 | 1437 | 1830 | 9236 | 9635 | 3035 | 3435 | 3034 | 4234 | 4634 | 61 | 39 | 2123 |
| 267 | 40 | 0 (1) | 8421 | 8890 | 9919 | 9018 | 0017 | 0416 | 0815 | 1214 | 1614 | 9013 | 2412 | 2812 | 3219 | 3011 | 4011 | 4411 | 4811 | 58 | 40 | 0 1949 |
| 274 | 41 | | 8599 | 8927 | 9396 | 9795 | 0194 | 0593 | 0992 | 1391 | 1791 | 2190 | 9509 | 2989 | 3388 | 3780 | 4187 | 4587 | 4987 | 55 | 41 | 1776 |
| 280 | 42 | | 0776 | 9175 | 9574 | 9973 | 0372 | 0771 | 1170 | 1509 | 1968 | 2357 | 2766 | 3166 | 3565 | 3964 | 4364 | 4764 | 5163 | 52 | 42 | 1002 |
| 287 | 43 | | 8954 | 9353 | 9752 | 0150 | 0549 | 0940 | 1347 | 1746 | 2145 | 2544 | 9943 | 3343 | 3742 | 4141 | 4541 | 4940 | 5340 | 49 | 43 | 1428 |
| 294 | 44 | | 9132 | 9531 | 9929 | 0328 | 0727 | 1126 | 1524 | 1223 | 2392 | 9721 | 3120 | 3590 | 3919 | 4318 | 4717 | 5117 | 5516 | 45 | 44 | 1254 |
| 360 | 45 | 0 (1) | 9316 | 9769 | 0107 | 0506 | 0904 | 1303 | 1709 | 9101 | 2500 | 2898 | 3298 | 3697 | 4096 | 4495 | 1024 | 5294 | 5693 | 43 | 45 | 0 1080 |
| 307 | 45 | | 9489 | 9887 | 0985 | 0684 | 1082 | 1481 | 1879 | 2976 | 2677 | 3076 | 3475 | 3874 | 4273 | 4679 | 5071 | 5470 | 5670 | 40 | 46 | 0906 |
| 314 | 47 | | 9657 | 0065 | 0463 | 0862 | 1260 | 1659 | 2057 | 2456 | 9854 | 3253 | 3652 | 4051 | 4450 | 1049 | 5248 | 5647 | 6646 | 37 | 47 | 0731 |
| 320 | 40 | | 9845 | 0243 | 0641 | 1040 | 1438 | 1836 | 2235 | 2633 | 3032 | 3431 | 3829 | 4298 | 4027 | 5026 | 5425 | 5824 | 0223 | 35 | 48 | 0557 |
| 327 | 49 | 1 | 0093 | 0421 | 0019 | 1918 | 1616 | 2014 | 2413 | 2811 | 3910 | 3660 | 4007 | 4405 | 4804 | 5203 | 5602 | 6001 | 6400 | 39 | 49 | 0383 |
| 334 | 50 | 1 | 0202 | 0600 | 0998 | 1396 | 1794 | 2192 | 9590 | 2989 | 3387 | 3786 | 4184 | 4583 | 4902 | 5300 | 5779 | 6178 | 6577 | 29 | 50 | 0 0208 |
| 340 | 51 | | 0380 | 0770 | 1176 | 1574 | 1972 | 2376 | 2768 | 3167 | 3555 | 3963 | 4362 | 4760 | 5159 | 5558 | 5956 | 6355 | 6754 | 20 | 51 | 0034 |
| 347 | 52 | | 0559 | 0956 | 1354 | 1759 | 2150 | 2548 | 2946 | 3344 | 3743 | 4141 | 4539 | 4930 | 5336 | 5735 | 6134 | 6532 | 6931 | 23 | 52 | 9 9859 |
| 354 | 53 | | 0737 | 1135 | 1533 | 1931 | 9328 | 2725 | 3124 | 3529 | 3921 | 4319 | 4717 | 5115 | 5514 | 5912 | 0311 | 6710 | 7108 | 20 | 53 | 9685 |
| 360 | 54 | | 0915 | 1313 | 1711 | 2109 | 2507 | 9904 | 3302 | 3701 | 4099 | 4497 | 4895 | 5993 | 5691 | 6090 | 6488 | 6867 | 7205 | 17 | 54 | 9510 |
| 367 | 55 | 1 | 1095 | 1492 | 1890 | 2287 | 2685 | 3083 | 3481 | 3879 | 4277 | 4675 | 5073 | 5471 | 5869 | 6267 | 6666 | 7054 | 7463 | 14 | 55 | 9 9335 |
| 374 | 56 | | 1273 | 1671 | 2068 | 2465 | 2863 | 3261 | 3659 | 4057 | 4455 | 4853 | 5251 | 5649 | 6047 | 6445 | 0813 | 7242 | 7640 | 11 | 56 | 9160 |
| 380 | 57 | | 1452 | 1850 | 2247 | 2644 | 3042 | 3440 | 3937 | 4235 | 4633 | 5031 | 5429 | 5827 | 6225 | 6623 | 7021 | 7419 | 7817 | 9 | 57 | 8985 |
| 387 | 58 | | 1631 | 2028 | 2420 | 9823 | 3221 | 3018 | 4016 | 4413 | 4811 | 5209 | 5607 | 6004 | 6402 | 6000 | 7199 | 7597 | 7995 | 6 | 58 | 8811 |
| 393 | 59 | | 1010 | 2207 | 2505 | 3002 | 3399 | 3797 | 4191 | 4592 | 4989 | 5387 | 5785 | 5182 | 6580 | 6970 | 7376 | 7774 | 0179 | 3 | 59 | 8636 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 37° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 37° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 (1) 8215 | 8618 | 9029 | 9425 | 9829 | 0233 | 0637 | 1041 | 1445 | 1849 | 2253 | 2657 | 3062 | 3466 | 3871 | 4975 | 4679 | 0 | 0' | 0 1364 |
| 7 | 1 | 8388 | 8792 | 9195 | 9599 | 0002 | 0406 | 0810 | 1214 | 1618 | 2022 | 2496 | 2830 | 3934 | 3639 | 4043 | 4417 | 4852 | 3 | 1 | 1540 |
| 13 | 2 | 8569 | 8965 | 9369 | 9772 | 0176 | 0579 | 0983 | 1387 | 1791 | 2195 | 2599 | 3003 | 3407 | 3811 | 4915 | 4620 | 5024 | 6 | 2 | 1715 |
| 20 | 3 | 8736 | 9139 | 9542 | 9946 | 0349 | 0753 | 1156 | 1560 | 1964 | 9368 | 2779 | 3175 | 3580 | 3984 | 4388 | 4799 | 5196 | 9 | 3 | 1890 |
| 27 | 4 | 8909 | 9313 | 9716 | 0119 | 0523 | 0926 | 1330 | 1733 | 2137 | 2541 | 2944 | 3348 | 3752 | 1156 | 4560 | 4964 | 6369 | 12 | 4 | 2065 |
| 33 | 5 | 0 (1) 9083 | 9486 | 9890 | 0293 | 0696 | 1099 | 1503 | 1906 | 2310 | 2714 | 3117 | 3521 | 3925 | 4329 | 1733 | 5137 | 5541 | 15 | 5 | 0 2241 |
| 40 | 6 | 9257 | 9660 | 0063 | 0466 | 0870 | 1973 | 1676 | 2080 | 9483 | 2887 | 3290 | 3694 | 4098 | 4502 | 4906 | 5310 | 5714 | 18 | 6 | 2416 |
| 47 | 7 | 9431 | 9834 | 0237 | 0640 | 1043 | 1447 | 1850 | 9253 | 9657 | 3060 | 3464 | 3867 | 4971 | 4675 | 5078 | 5489 | 5886 | 21 | 7 | 2592 |
| 54 | 8 | 9605 | 0008 | 0411 | 0811 | 1217 | 1620 | 2023 | 2427 | 2830 | 3933 | 3637 | 4040 | 1444 | 4817 | 5251 | 5655 | 6059 | 24 | 8 | 2767 |
| 60 | 9 | 9779 | 0182 | 0585 | 0988 | 1391 | 1794 | 9197 | 2600 | 3003 | 3407 | 3810 | 1913 | 4617 | 5020 | 5424 | 5828 | 6239 | 27 | 9 | 9943 |
| 67 | 10 | 0 (1) 9954 | 0356 | 0759 | 1162 | 1565 | 1968 | 2371 | 2774 | 3177 | 3580 | 3983 | 4387 | 4790 | 5193 | 5597 | 6001 | 6404 | 29 | 10 | 0 3118 |
| 74 | 11 | 1 0198 | 0530 | 0933 | 1336 | 1739 | 2141 | 2544 | 2947 | 3350 | 3763 | 4157 | 4560 | 4963 | 5367 | 5770 | 6174 | 6577 | 32 | 11 | 3294 |
| 80 | 12 | 0302 | 0705 | 1107 | 1510 | 1913 | 2315 | 9718 | 3121 | 3524 | 3927 | 4330 | 4733 | 5136 | 5540 | 5943 | 6347 | 6750 | 35 | 12 | 3470 |
| 87 | 13 | 0477 | 0879 | 1281 | 1681 | 2087 | 2489 | 2899 | 3295 | 3698 | 4101 | 4504 | 4907 | 5310 | 5713 | 6116 | 6520 | 6923 | 38 | 13 | 3646 |
| 94 | 14 | 0651 | 1053 | 1456 | 1858 | 2261 | 2663 | 3066 | 3469 | 3871 | 4274 | 4677 | 5080 | 5483 | 5886 | 6289 | 6693 | 7096 | 41 | 14 | 3892 |
| 100 | 15 | 1 0826 | 1228 | 1630 | 2032 | 2435 | 2837 | 3240 | 3643 | 4045 | 4448 | 4851 | 5254 | 5657 | 6060 | 6463 | 6866 | 7969 | 44 | 15 | 0 3998 |
| 107 | 16 | 1000 | 1409 | 1805 | 2207 | 2609 | 3011 | 3414 | 3817 | 4919 | 4699 | 5024 | 5497 | 5830 | 6233 | 6636 | 7039 | 7442 | 47 | 16 | 4174 |
| 114 | 17 | 1176 | 1577 | 1979 | 2381 | 2783 | 3186 | 3588 | 3991 | 4393 | 4796 | 5198 | 5601 | 6004 | 6407 | 6810 | 7213 | 7616 | 50 | 17 | 4350 |
| 120 | 18 | 1350 | 1751 | 2163 | 2566 | 2958 | 3360 | 3789 | 4165 | 4567 | 4970 | 5372 | 5775 | 6177 | 6580 | 6983 | 7386 | 7789 | 53 | 18 | 4527 |
| 127 | 19 | 1524 | 1926 | 2328 | 2736 | 3132 | 3534 | 3937 | 4339 | 4741 | 5144 | 5546 | 5949 | 6351 | 6754 | 7157 | 7559 | 7962 | 56 | 19 | 4703 |
| 134 | 20 | 1 1699 | 9101 | 2503 | 2905 | 3307 | 3709 | 4111 | 4513 | 4915 | 5318 | 5790 | 6122 | 6595 | 6927 | 7330 | 7733 | 8136 | 52 | 20 | 0 4879 |
| 141 | 21 | 1874 | 9276 | 2678 | 3079 | 3181 | 3883 | 4285 | 4687 | 5090 | 5499 | 5894 | 6296 | 6699 | 7101 | 7504 | 7906 | 8309 | 62 | 21 | 5056 |
| 147 | 22 | 2049 | 9451 | 2852 | 3251 | 3636 | 4058 | 4460 | 4862 | 5261 | 5666 | 6068 | 6470 | 6873 | 7276 | 7678 | 8080 | 8483 | 65 | 22 | 5932 |
| 154 | 23 | 2224 | 2626 | 3097 | 3499 | 3831 | 4239 | 4634 | 5036 | 5438 | 5840 | 6242 | 6644 | 7047 | 7449 | 7851 | 8254 | 8656 | 68 | 23 | 5409 |
| 161 | 24 | 2399 | 9801 | 3202 | 3604 | 4005 | 1407 | 4809 | 5211 | 5613 | 6014 | 6417 | 6819 | 7221 | 7623 | 8025 | 8498 | 8830 | 71 | 24 | 5585 |
| 167 | 25 | 1 2575 | 9976 | 3377 | 3779 | 4180 | 4582 | 4984 | 5385 | 5787 | 6189 | 6591 | 6993 | 7395 | 7797 | 8199 | 8602 | 9004 | 74 | 25 | 0 5762 |
| 174 | 26 | 2750 | 3151 | 3552 | 3954 | 1355 | 4757 | 5158 | 5560 | 5962 | 6363 | 6765 | 7167 | 7569 | 7971 | 8373 | 8775 | 9178 | 77 | 26 | 5939 |
| 181 | 27 | 2925 | 3396 | 3728 | 4129 | 4530 | 4932 | 5333 | 5735 | 6136 | 6538 | 6940 | 7341 | 7743 | 8145 | 8547 | 8949 | 9352 | 80 | 27 | 6116 |
| 187 | 28 | 3100 | 3509 | 3903 | 4304 | 4705 | 5107 | 5508 | 5909 | 6311 | 6712 | 7114 | 7516 | 7918 | 8320 | 8721 | 9123 | 9526 | 83 | 28 | 6293 |
| 194 | 29 | 3276 | 3677 | 4078 | 4479 | 4880 | 5989 | 5683 | 6084 | 6486 | 6887 | 7289 | 7690 | 8092 | 8494 | 8896 | 9298 | 9700 | 86 | 29 | 6470 |
| 201 | 30 | 1 3452 | 3852 | 4953 | 4654 | 5055 | 5457 | 5858 | 6959 | 6660 | 7062 | 7463 | 7865 | 8266 | 8668 | 9070 | 9472 | 9874 | 88 | 30 | 0 6647 |
| 207 | 31 | 1 (2) 3627 | 1028 | 4429 | 4830 | 6231 | 5632 | 6033 | 6434 | 6835 | 7237 | 7638 | 8039 | 8441 | 8843 | 9244 | 9646 | 0048 | 91 | 31 | 6824 |
| 214 | 32 | 3803 | 4203 | 4604 | 5005 | 6406 | 5807 | 6208 | 6609 | 7010 | 7412 | 7813 | 8214 | 8616 | 9017 | 9419 | 9820 | 0922 | 94 | 32 | 7001 |
| 221 | 33 | 3978 | 4379 | 4780 | 5181 | 6581 | 5989 | 6383 | 6784 | 7186 | 7587 | 7988 | 8389 | 8790 | 9192 | 9593 | 9995 | 0396 | 97 | 33 | 7178 |
| 227 | 34 | 4154 | 4555 | 4955 | 5356 | 5757 | 6157 | 6568 | 6959 | 7360 | 7762 | 8163 | 8564 | 8965 | 9366 | 9768 | 0169 | 0571 | 100 | 34 | 7356 |
| 234 | 35 | 1 (2) 4330 | 4731 | 5131 | 5532 | 5932 | 6333 | 6734 | 7135 | 7536 | 7937 | 8338 | 8739 | 9140 | 9541 | 9942 | 0344 | 0745 | 103 | 35 | 0 7533 |
| 241 | 36 | 4506 | 4906 | 5307 | 5707 | 6108 | 6609 | 6909 | 7310 | 7711 | 8112 | 8513 | 8914 | 9315 | 9716 | 0117 | 0518 | 0990 | 106 | 36 | 7710 |
| 248 | 37 | 4682 | 5082 | 5483 | 6883 | 6284 | 6684 | 7085 | 7485 | 7886 | 8287 | 8688 | 9089 | 9490 | 9891 | 0292 | 0693 | 1094 | 109 | 37 | 7888 |
| 254 | 38 | 4858 | 5258 | 5659 | 6052 | 6459 | 6860 | 7260 | 7661 | 8061 | 8462 | 8863 | 9264 | 9666 | 0066 | 0466 | 0868 | 1269 | 112 | 38 | 8065 |
| 261 | 39 | 5034 | 5134 | 5835 | 6235 | 6635 | 7035 | 7436 | 7836 | 8237 | 8637 | 9038 | 9439 | 9840 | 0241 | 0641 | 1042 | 1443 | 115 | 39 | 8243 |
| 268 | 40 | 1 (2) 5210 | 5610 | 6011 | 6411 | 6811 | 7211 | 7611 | 8012 | 8112 | 8813 | 9213 | 9615 | 0015 | 0416 | 0816 | 1217 | 1618 | 118 | 40 | 0 8491 |
| 274 | 41 | 5387 | 5787 | 6187 | 6587 | 6987 | 7387 | 7787 | 8187 | 8588 | 8988 | 9389 | 9789 | 0190 | 0591 | 0991 | 1392 | 1793 | 191 | 41 | 8599 |
| 281 | 42 | 5563 | 5963 | 6363 | 6763 | 7163 | 7563 | 7963 | 8363 | 8763 | 9164 | 9564 | 9965 | 0365 | 0766 | 1166 | 1567 | 1968 | 124 | 42 | 8776 |
| 288 | 43 | 5739 | 6139 | 6539 | 6939 | 7339 | 7739 | 8139 | 8539 | 8939 | 9339 | 9740 | 0140 | 0510 | 0941 | 1341 | 1742 | 2143 | 127 | 43 | 8951 |
| 294 | 44 | 5916 | 6316 | 6715 | 7115 | 7515 | 7915 | 8315 | 8715 | 9115 | 9515 | 9915 | 0315 | 0716 | 1116 | 1517 | 1917 | 9318 | 130 | 44 | 9132 |
| 301 | 45 | 1 (2) 6092 | 6492 | 6892 | 7291 | 7691 | 8091 | 8491 | 8891 | 9291 | 9691 | 0091 | 0491 | 0891 | 1299 | 1692 | 2093 | 9493 | 133 | 45 | 0 9310 |
| 308 | 46 | 6269 | 6668 | 7068 | 7468 | 7867 | 8267 | 8667 | 9067 | 9466 | 9866 | 0266 | 0667 | 1067 | 1467 | 1867 | 2268 | 2668 | 136 | 46 | 9489 |
| 314 | 47 | 6446 | 6845 | 7944 | 7644 | 8044 | 8443 | 8843 | 9943 | 9642 | 0042 | 0449 | 0842 | 1249 | 1643 | 2043 | 2443 | 2843 | 139 | 47 | 9667 |
| 321 | 48 | 6622 | 7022 | 7421 | 7890 | 8290 | 8619 | 9019 | 9419 | 9818 | 0218 | 0618 | 1018 | 1418 | 1818 | 2218 | 2618 | 3019 | 142 | 48 | 9845 |
| 328 | 49 | 6799 | 7198 | 7598 | 7997 | 8396 | 8796 | 9195 | 9595 | 9991 | 0391 | 0794 | 1194 | 1594 | 1994 | 2394 | 2794 | 3194 | 145 | 49 | 1 0023 |
| 335 | 50 | 1 (2) 6976 | 7375 | 7774 | 8174 | 8573 | 8972 | 9372 | 9771 | 0171 | 0570 | 0970 | 1370 | 1769 | 2169 | 2569 | 2969 | 3369 | 147 | 50 | 1 0202 |
| 341 | 51 | 7153 | 7552 | 7951 | 8350 | 8749 | 9149 | 9548 | 9947 | 0347 | 0746 | 1147 | 1546 | 1945 | 2345 | 2745 | 3145 | 3545 | 150 | 51 | 0380 |
| 348 | 52 | 7330 | 7729 | 8128 | 8527 | 8926 | 9325 | 9724 | 0124 | 0523 | 0923 | 1322 | 1722 | 2121 | 2591 | 2921 | 3321 | 3720 | 153 | 52 | 0659 |
| 355 | 53 | 7607 | 7906 | 8305 | 8704 | 9103 | 9502 | 9901 | 0300 | 0699 | 1099 | 1498 | 1898 | 2297 | 2697 | 3096 | 3496 | 3896 | 156 | 53 | 0737 |
| 361 | 54 | 7684 | 8083 | 8489 | 8880 | 9279 | 9678 | 0078 | 0477 | 0876 | 1275 | 1674 | 2074 | 2473 | 2873 | 3272 | 3672 | 4072 | 159 | 54 | 0916 |
| 368 | 55 | 1 (2) 7861 | 8260 | 8659 | 9057 | 9456 | 9855 | 0254 | 0653 | 1052 | 1451 | 1851 | 2250 | 2649 | 3049 | 3448 | 3848 | 4247 | 162 | 55 | 1 1095 |
| 375 | 56 | 8039 | 8437 | 8836 | 9934 | 9633 | 0032 | 0431 | 0830 | 1229 | 1628 | 2027 | 2426 | 2826 | 3295 | 3624 | 4024 | 4423 | 165 | 56 | 1273 |
| 381 | 57 | 8216 | 8614 | 9013 | 9412 | 9810 | 0209 | 0608 | 1007 | 1405 | 1804 | 2203 | 2603 | 3009 | 3401 | 3800 | 4200 | 4599 | 168 | 57 | 1452 |
| 388 | 58 | 8393 | 8792 | 9190 | 9589 | 9987 | 0386 | 0785 | 1183 | 1582 | 1981 | 2380 | 2779 | 3178 | 3577 | 3977 | 4376 | 4775 | 171 | 58 | 1631 |
| 395 | 59 | 8571 | 8969 | 9367 | 9766 | 0164 | 0563 | 0961 | 1360 | 1759 | 2158 | 2556 | 2955 | 3354 | 3753 | 4153 | 4552 | 4951 | 174 | 59 | 1810 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 38° | | Argumento Auxiliar. 6' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 38° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 | 1289 | 2386 | 2783 | 3181 | 3578 | 3975 | 4373 | 4770 | 5168 | 5565 | 5963 | 6360 | 6758 | 7156 | 7554 | 7962 | 8358 | 177 | 0' | 9 8469 |
| 7 | 1 | | 2168 | 2565 | 2962 | 3352 | 3767 | 4154 | 4551 | 4949 | 5346 | 5743 | 6141 | 6539 | 6236 | 7334 | 7732 | 8130 | 8528 | 174 | 1 | 6285 |
| 13 | 2 | | 2348 | 2744 | 3141 | 3538 | 3935 | 4333 | 4730 | 5127 | 5524 | 5922 | 6319 | 6717 | 7114 | 7512 | 7210 | 8308 | 0706 | 171 | 2 | 8110 |
| 20 | 3 | | 2527 | 2924 | 3320 | 3717 | 4114 | 4511 | 4908 | 5396 | 5703 | 6100 | 6498 | 6895 | 7293 | 7699 | 8088 | 8486 | 8883 | 168 | 3 | 7935 |
| 26 | 4 | | 2706 | 3103 | 3500 | 3896 | 4293 | 4690 | 5087 | 5484 | 5881 | 6272 | 6676 | 7073 | 7471 | 7868 | 8266 | 0664 | 2061 | 165 | 4 | 7759 |
| 33 | 5 | 1 | 2885 | 3282 | 3679 | 4076 | 4472 | 4869 | 5266 | 5663 | 6060 | 6457 | 6855 | 7252 | 7649 | 8947 | 8444 | 8842 | 9239 | 162 | 5 | 2 7584 |
| 39 | 6 | | 3865 | 3451 | 3858 | 4255 | 4651 | 5048 | 5445 | 5842 | 6239 | 6636 | 7033 | 7430 | 7828 | 8225 | 8622 | 9020 | 2417 | 159 | 6 | 7498 |
| 46 | 7 | | 3244 | 3641 | 4037 | 4434 | 4831 | 5227 | 5624 | 6021 | 6418 | 6813 | 7212 | 7609 | 8886 | 8403 | 8890 | 9198 | 9595 | 156 | 7 | 7233 |
| 63 | 6 | | 3424 | 3820 | 4217 | 4613 | 5910 | 5486 | 5803 | 6200 | 6527 | 6994 | 7390 | 7787 | 8184 | 8682 | 8972 | 9376 | 9773 | 153 | 8 | 7057 |
| 62 | 9 | | 3604 | 4009 | 1396 | 4793 | 5189 | 5586 | 5982 | 6372 | 6776 | 7172 | 7562 | 7966 | 8363 | 8760 | 2167 | 9554 | 9952 | 160 | 9 | 6882 |
| 66 | 18 | 1 (2) | 3783 | 4188 | 4576 | 4972 | 5360 | 5765 | 6161 | 6558 | 6255 | 7351 | 7748 | 8145 | 8542 | 8939 | 9336 | 9733 | 9130 | 147 | 18 | 9 6706 |
| 72 | 11 | | 3963 | 4359 | 4755 | 5152 | 5548 | 6944 | 6341 | 6737 | 7134 | 7530 | 7927 | 8324 | 8720 | 9117 | 9514 | 9911 | 0308 | 145 | 11 | 8530 |
| 72 | 12 | | 4143 | 4539 | 4935 | 5331 | 5727 | 6124 | 6520 | 6916 | 7313 | 7709 | 8196 | 8592 | 8899 | 9296 | 9693 | 0090 | 0487 | 142 | 12 | 6354 |
| 86 | 13 | | 4323 | 4719 | 5115 | 6511 | 5907 | 6383 | 6699 | 7096 | 7492 | 7888 | 8285 | 8681 | 9078 | 9475 | 9871 | 0268 | 0663 | 139 | 13 | 6178 |
| 92 | 14 | | 4593 | 4899 | 5295 | 5691 | 6087 | 6483 | 6879 | 7276 | 7671 | 8068 | 8464 | 0869 | 9257 | 9653 | 0059 | 9447 | 0844 | 136 | 14 | 6002 |
| 99 | 15 | 1 (2) | 4683 | 5079 | 5475 | 5876 | 6266 | 6662 | 7058 | 7454 | 7851 | 8247 | 8643 | 9039 | 9436 | 9832 | 0229 | 9625 | 1022 | 133 | 15 | 9 5026 |
| 105 | 16 | | 4863 | 5259 | 5654 | 6050 | 6446 | 6842 | 7238 | 7634 | 8039 | 8426 | 8822 | 9219 | 9615 | 8911 | 9408 | 0894 | 1261 | 138 | 16 | 5650 |
| 112 | 17 | | 6043 | 5432 | 5834 | 6230 | 6626 | 7022 | 7417 | 7813 | 8209 | 8695 | 9982 | 9398 | 9794 | 0128 | 8587 | 0983 | 1380 | 127 | 17 | 5473 |
| 118 | 18 | | 5224 | 5619 | 6014 | 6410 | 6806 | 7201 | 7597 | 7223 | 8389 | 8785 | 9181 | 9577 | 9973 | 0369 | 0766 | 1162 | 1558 | 124 | 18 | 5297 |
| 125 | 19 | | 6104 | 5792 | 6125 | 6528 | 6986 | 7381 | 7777 | 8173 | 8568 | 8964 | 9360 | 9756 | 0152 | 0548 | 0945 | 1341 | 1737 | 121 | 12 | 5121 |
| 132 | 20 | 1 (2) | 5584 | 5980 | 6375 | 5770 | 7166 | 7661 | 7957 | 8362 | 8748 | 9144 | 9549 | 9936 | 8332 | 0728 | 1124 | 1520 | 1916 | 116 | 20 | 2 4914 |
| 138 | 21 | | 6765 | 6160 | 6565 | 6250 | 7346 | 7741 | 8137 | 8532 | 8928 | 2324 | 9719 | 0116 | 0511 | 0907 | 1303 | 1629 | 2825 | 115 | 21 | 4768 |
| 145 | 22 | | 6945 | 6340 | 6735 | 7131 | 7626 | 7921 | 8317 | 8712 | 9108 | 9593 | 9899 | 8295 | 0698 | 1806 | 1482 | 1878 | 2274 | 112 | 22 | 4591 |
| 151 | 23 | | 6126 | 6521 | 6916 | 7311 | 7706 | 6101 | 6497 | 8892 | 2287 | 9683 | 0079 | 0474 | 8878 | 1266 | 1662 | 2067 | 2453 | 102 | 23 | 4415 |
| 168 | 24 | | 5396 | 6701 | 7996 | 7491 | 7886 | 6282 | 8677 | 9072 | 2467 | 9863 | 0258 | 0654 | 1849 | 1445 | 1841 | 2237 | 2633 | 106 | 24 | 4238 |
| 165 | 25 | 1 (2) | 6487 | 6882 | 7277 | 7672 | 8967 | 8462 | 8857 | 9252 | 9647 | 0043 | 8438 | 9834 | 1229 | 1625 | 2920 | 2416 | 2812 | 183 | 25 | 2 4061 |
| 171 | 28 | | 6668 | 7963 | 7437 | 7852 | 6247 | 6642 | 2837 | 9432 | 9827 | 0223 | 0618 | 1013 | 1489 | 1804 | 2290 | 2595 | 2991 | 190 | 26 | 3884 |
| 178 | 27 | | 6849 | 7243 | 7638 | 6933 | 8428 | 8823 | 2217 | 9613 | 0008 | 0403 | 0798 | 1193 | 1588 | 1984 | 2379 | 2775 | 3171 | 27 | 27 | 3787 |
| 184 | 28 | | 7030 | 7424 | 7819 | 8214 | 8608 | 2003 | 9398 | 9793 | 9188 | 0583 | 0978 | 1373 | 1768 | 2164 | 2559 | 2256 | 3350 | 24 | 28 | 3530 |
| 191 | 29 | | 7211 | 7695 | 6000 | 8324 | 8782 | 9184 | 2678 | 9973 | 0368 | 6763 | 1158 | 1553 | 1948 | 2343 | 2739 | 3134 | 3530 | 91 | 29 | 3353 |
| 198 | 30 | 1 (2) | 7392 | 7786 | 8181 | 8576 | 8979 | 2364 | 9759 | 0154 | 9548 | 8943 | 1338 | 1733 | 2128 | 2623 | 2212 | 3314 | 3709 | 68 | 30 | 9 3176 |
| 284 | 31 | | 7573 | 7267 | 8362 | 8756 | 9150 | 9546 | 9939 | 9334 | 9729 | 1123 | 1618 | 1213 | 2390 | 2703 | 3098 | 3494 | 3882 | 86 | 31 | 2999 |
| 211 | 32 | | 7754 | 8148 | 8543 | 8937 | 9331 | 2726 | 9120 | 8515 | 9999 | 1304 | 1699 | 2993 | 2488 | 2883 | 3276 | 3673 | 4868 | 03 | 32 | 2822 |
| 217 | 33 | | 7935 | 8329 | 8724 | 2118 | 2512 | 9906 | 8301 | 8695 | 1020 | 1484 | 1879 | 2274 | 2668 | 3963 | 3458 | 3853 | 4248 | 69 | 33 | 2644 |
| 224 | 34 | | 6117 | 6511 | 0995 | 9299 | 2693 | 0087 | 0481 | 0875 | 1270 | 1665 | 2059 | 2464 | 2849 | 3243 | 3638 | 4033 | 4428 | 77 | 34 | 2467 |
| 238 | 35 | 1 (2) | 8298 | 8622 | 9086 | 2489 | 9874 | 0268 | 8662 | 1957 | 1451 | 1845 | 2218 | 2634 | 3929 | 3424 | 3816 | 4213 | 4698 | 74 | 36 | 9 2299 |
| 237 | 36 | | 8479 | 8873 | 9267 | 2561 | 8055 | 9449 | 8843 | 1237 | 1632 | 2026 | 2420 | 2815 | 3209 | 3694 | 3998 | 4393 | 4788 | 71 | 36 | 2112 |
| 244 | 37 | | 8661 | 2956 | 9448 | 9842 | 0236 | 8630 | 1924 | 1418 | 1812 | 2207 | 2601 | 2995 | 3390 | 3784 | 4172 | 4573 | 4268 | 68 | 37 | 1935 |
| 250 | 38 | | 8843 | 9235 | 2630 | 0024 | 0417 | 0811 | 1205 | 1699 | 1993 | 2387 | 2782 | 3176 | 3570 | 3265 | 4352 | 4754 | 5146 | 65 | 38 | 1757 |
| 257 | 39 | | 9824 | 2418 | 9811 | 8205 | 0699 | 9992 | 1386 | 1780 | 2174 | 2568 | 2962 | 3356 | 3751 | 4145 | 4632 | 4934 | 5328 | 62 | 32 | 1672 |
| 263 | 48 | 1 (2) | 9266 | 9599 | 9993 | 0386 | 0700 | 1174 | 1567 | 1261 | 2355 | 2742 | 3143 | 3637 | 3931 | 4326 | 4726 | 5114 | 5509 | 69 | 48 | 9 1491 |
| 270 | 41 | | 9388 | 9781 | 0174 | 9568 | 9961 | 1355 | 1749 | 2142 | 2536 | 2930 | 3324 | 3718 | 4112 | 4506 | 4980 | 5295 | 5689 | 66 | 41 | 1224 |
| 277 | 42 | | 9670 | 2963 | 0356 | 0749 | 1143 | 1536 | 1930 | 2324 | 2717 | 3111 | 3505 | 3899 | 4293 | 4687 | 5081 | 5475 | 5869 | 53 | 42 | 1946 |
| 283 | 43 | | 9751 | 8145 | 8538 | 0231 | 1324 | 1718 | 2111 | 2605 | 2899 | 3292 | 3686 | 4980 | 4474 | 4867 | 5262 | 5666 | 6050 | 60 | 43 | 0868 |
| 290 | 44 | | 9933 | 9326 | 0728 | 1113 | 1506 | 1899 | 2293 | 2686 | 3080 | 3473 | 3867 | 4261 | 4664 | 5048 | 5442 | 5836 | 6238 | 47 | 44 | 6690 |
| 296 | 45 | 2 | 0113 | 0508 | 0901 | 1296 | 1688 | 2081 | 2474 | 2868 | 3261 | 3655 | 4048 | 4442 | 4835 | 5229 | 5623 | 6017 | 6410 | 44 | 45 | 2 0511 |
| 303 | 46 | | 0298 | 9690 | 1883 | 1476 | 1869 | 2263 | 2656 | 3049 | 3442 | 3836 | 4229 | 4623 | 5016 | 5419 | 5884 | 6198 | 6621 | 41 | 46 | 0333 |
| 309 | 47 | | 0489 | 0872 | 1265 | 1658 | 2051 | 2444 | 2837 | 3231 | 3624 | 4017 | 4411 | 4894 | 5198 | 5591 | 5985 | 6378 | 6772 | 38 | 47 | 6155 |
| 316 | 46 | | 6662 | 1055 | 1447 | 1840 | 2233 | 2626 | 3019 | 3412 | 3885 | 4192 | 4592 | 4985 | 5372 | 5772 | 6166 | 6569 | 6953 | 36 | 48 | 6 9977 |
| 323 | 42 | | 0844 | 1237 | 1630 | 2022 | 2415 | 2888 | 3201 | 3524 | 3967 | 4380 | 4773 | 5167 | 5569 | 5953 | 6347 | 6749 | 7134 | 32 | 49 | 2798 |
| 329 | 50 | 2 | 1027 | 1419 | 1812 | 2204 | 2597 | 2228 | 3383 | 3776 | 4169 | 4562 | 4965 | 5348 | 5741 | 6134 | 6520 | 6921 | 7315 | 29 | 50 | 8 9620 |
| 336 | 61 | | 1209 | 1602 | 1994 | 2367 | 2779 | 3172 | 3565 | 3257 | 4358 | 4743 | 5136 | 5529 | 5922 | 6315 | 6709 | 7182 | 7496 | 27 | 61 | 9441 |
| 342 | 52 | | 1392 | 1784 | 2176 | 2569 | 2961 | 3354 | 3747 | 4139 | 4532 | 4926 | 5318 | 5711 | 6194 | 6497 | 6890 | 7283 | 7677 | 24 | 62 | 9263 |
| 349 | 63 | | 1674 | 1966 | 2359 | 2751 | 3143 | 3536 | 3929 | 4321 | 4714 | 5167 | 5499 | 5892 | 6285 | 6678 | 7871 | 7465 | 7858 | 21 | 53 | 9884 |
| 366 | 54 | | 1757 | 2142 | 2541 | 2933 | 3326 | 3718 | 4111 | 4503 | 4896 | 6288 | 5681 | 6074 | 6487 | 6860 | 7253 | 7646 | 8039 | 18 | 54 | 8995 |
| 362 | 56 | 2 | 1940 | 2332 | 2724 | 3116 | 3698 | 3990 | 4293 | 4685 | 6978 | 5470 | 5863 | 6256 | 6648 | 7841 | 7434 | 7827 | 8220 | 16 | 56 | 6 6727 |
| 369 | 66 | | 2122 | 2514 | 2966 | 3298 | 3691 | 4083 | 4475 | 4867 | 5260 | 5652 | 6045 | 6437 | 6830 | 7223 | 7616 | 8008 | 8401 | 12 | 58 | 8548 |
| 375 | 57 | | 2306 | 2697 | 3089 | 3401 | 3873 | 4265 | 4657 | 6059 | 5442 | 6834 | 6227 | 6619 | 7612 | 7494 | 7797 | 8198 | 6583 | 9 | 57 | 8369 |
| 382 | 58 | | 2488 | 2680 | 3272 | 3664 | 4066 | 4448 | 4849 | 5232 | 6624 | 6016 | 6409 | 6881 | 7194 | 7586 | 7272 | 8371 | 6761 | 6 | 68 | 6196 |
| 388 | 52 | | 2671 | 3063 | 3454 | 3846 | 4238 | 4630 | 5022 | 5414 | 5806 | 6128 | 6591 | 6983 | 7375 | 7768 | 8169 | 8553 | 8946 | 3 | 69 | 8811 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 38° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 1 (2) 8740 | 9146 | 9544 | 9943 | 0341 | 0739 | 1138 | 1537 | 1936 | 2334 | 2733 | 3132 | 3531 | 3930 | 4322 | 4728 | 5127 |
| 7 | 1 | 3226 | 9324 | 9722 | 0120 | 0519 | 0917 | 1315 | 1714 | 2113 | 2511 | 2910 | 3309 | 3707 | 4106 | 4505 | 4904 | 5303 |
| 13 | 2 | 9103 | 2502 | 9900 | 0298 | 0696 | 1094 | 1493 | 1891 | 2290 | 2688 | 3087 | 3485 | 3884 | 4283 | 4682 | 5081 | 5479 |
| 20 | 3 | 9281 | 9679 | 0077 | 0475 | 0873 | 1271 | 1670 | 2060 | 2467 | 2865 | 3263 | 3662 | 4061 | 4459 | 4858 | 5257 | 5656 |
| 26 | 4 | 9459 | 9857 | 0255 | 0653 | 1051 | 1449 | 1847 | 2245 | 2644 | 3042 | 3140 | 3839 | 4237 | 4636 | 5035 | 5433 | 5832 |
| 33 | 5 | 1 (2) 9637 | 0034 | 0432 | 0830 | 1228 | 1626 | 2024 | 2422 | 2821 | 3219 | 3617 | 4016 | 4414 | 4813 | 5211 | 5610 | 6009 |
| 40 | 6 | 9815 | 0212 | 0610 | 1008 | 1406 | 1804 | 2202 | 2600 | 2998 | 3326 | 3724 | 4193 | 4521 | 4989 | 5388 | 5786 | 6185 |
| 46 | 7 | 9923 | 0390 | 0788 | 1106 | 1583 | 1981 | 2379 | 2777 | 3175 | 3573 | 3971 | 4370 | 4768 | 5166 | 5565 | 5963 | 6361 |
| 53 | 8 | 2 0171 | 0568 | 0966 | 1363 | 1761 | 2152 | 2557 | 2954 | 3352 | 3750 | 4148 | 4547 | 4945 | 5343 | 5741 | 6140 | 6538 |
| 59 | 9 | 0342 | 0746 | 1144 | 1541 | 1939 | 2336 | 2734 | 3132 | 3530 | 3928 | 4326 | 4724 | 5122 | 5520 | 5918 | 6316 | 6715 |
| 66 | 10 | 2 0527 | 0924 | 1322 | 1719 | 2117 | 2514 | 2212 | 3309 | 3707 | 4105 | 4503 | 4901 | 5229 | 5697 | 6095 | 6493 | 6892 |
| 73 | 11 | 0705 | 1103 | 1500 | 1897 | 2295 | 2622 | 3089 | 3487 | 3885 | 1282 | 4680 | 5078 | 5476 | 5874 | 6272 | 6670 | 7068 |
| 79 | 12 | 0884 | 1281 | 1678 | 2075 | 2473 | 2870 | 3267 | 3665 | 4062 | 4460 | 4858 | 5255 | 5653 | 6051 | 6449 | 6847 | 7245 |
| 86 | 13 | 1062 | 1459 | 1856 | 2253 | 2651 | 3048 | 3445 | 3842 | 4240 | 4637 | 5035 | 5433 | 5830 | 6228 | 6626 | 7024 | 7422 |
| 92 | 14 | 1240 | 1637 | 2034 | 2431 | 2822 | 3226 | 3623 | 4020 | 4418 | 4815 | 5213 | 5610 | 6008 | 6406 | 6803 | 7201 | 7599 |
| 99 | 15 | 2 1412 | 1816 | 2213 | 2610 | 3007 | 3404 | 3801 | 4198 | 4595 | 1993 | 5390 | 5788 | 6185 | 6583 | 6981 | 7378 | 7776 |
| 106 | 16 | 1598 | 1994 | 2321 | 2788 | 3185 | 3582 | 3979 | 4376 | 4773 | 5171 | 5568 | 5965 | 6363 | 6760 | 7158 | 7555 | 7253 |
| 112 | 17 | 1776 | 2173 | 2569 | 2966 | 3363 | 3760 | 4157 | 4554 | 4251 | 5348 | 5746 | 6143 | 6540 | 6938 | 7335 | 7733 | 8130 |
| 119 | 10 | 1955 | 2351 | 2748 | 3145 | 3541 | 3938 | 4335 | 4732 | 5129 | 5526 | 5223 | 6321 | 6718 | 7115 | 7513 | 7910 | 8308 |
| 125 | 19 | 2134 | 2530 | 2927 | 3323 | 3720 | 4117 | 4513 | 4910 | 5307 | 5704 | 6101 | 6428 | 6896 | 7293 | 7690 | 0008 | 8485 |
| 132 | 20 | 2 2312 | 2709 | 3105 | 3502 | 3898 | 4295 | 4692 | 5088 | 5485 | 5882 | 6279 | 6676 | 7073 | 7470 | 7868 | 8265 | 8662 |
| 139 | 21 | 2421 | 2888 | 3284 | 3680 | 4077 | 4474 | 4870 | 5267 | 5663 | 6060 | 6457 | 6854 | 7251 | 7648 | 0045 | 8142 | 8840 |
| 145 | 22 | 2670 | 3067 | 3463 | 3852 | 4256 | 4652 | 5049 | 5445 | 5842 | 6238 | 6635 | 7032 | 7429 | 7826 | 8223 | 8620 | 9017 |
| 152 | 23 | 2842 | 3246 | 3642 | 4038 | 4434 | 4831 | 5227 | 5624 | 6020 | 6417 | 6813 | 7210 | 7607 | 8004 | 8401 | 8798 | 9125 |
| 158 | 24 | 3099 | 3425 | 3821 | 4217 | 4613 | 5002 | 5406 | 5802 | 6198 | 6595 | 6222 | 7388 | 7785 | 8182 | 8572 | 8275 | 2372 |
| 165 | 25 | 2 3208 | 3604 | 4000 | 4326 | 4792 | 5188 | 5584 | 5980 | 6377 | 6773 | 7170 | 7565 | 7963 | 8360 | 8756 | 9153 | 2550 |
| 172 | 26 | 3387 | 3783 | 4179 | 4575 | 4971 | 5367 | 5763 | 6159 | 6555 | 6252 | 7348 | 7745 | 8141 | 8538 | 8234 | 9331 | 9728 |
| 178 | 27 | 3566 | 3262 | 4358 | 4754 | 5149 | 5546 | 5942 | 6338 | 6731 | 7130 | 7526 | 7923 | 8319 | 8716 | 9112 | 9509 | 9206 |
| 185 | 28 | 2 (3) 3746 | 4141 | 4537 | 4933 | 5329 | 5725 | 6120 | 6316 | 6913 | 7309 | 7705 | 0101 | 8428 | 8894 | 2291 | 9687 | 0084 |
| 191 | 29 | 3925 | 4321 | 4716 | 5112 | 5508 | 5904 | 6299 | 6695 | 7091 | 7487 | 7883 | 8280 | 8576 | 9072 | 9469 | 2865 | 0262 |
| 198 | 30 | 2 (3) 4105 | 4500 | 4895 | 5221 | 5687 | 6083 | 6478 | 6874 | 7270 | 7666 | 8062 | 8458 | 8854 | 9251 | 2647 | 0013 | 0440 |
| 205 | 31 | 4284 | 4679 | 5075 | 5470 | 5066 | 6262 | 6657 | 7053 | 7449 | 7845 | 8211 | 8637 | 9033 | 2429 | 9825 | 0221 | 0618 |
| 211 | 32 | 4464 | 4859 | 5254 | 5650 | 6045 | 6441 | 6836 | 7232 | 7628 | 8023 | 8412 | 8815 | 9211 | 9607 | 0003 | 0400 | 0726 |
| 218 | 33 | 4643 | 5039 | 5434 | 5830 | 6225 | 6620 | 7015 | 7411 | 7007 | 8202 | 8598 | 0994 | 2320 | 9786 | 0182 | 0578 | 0974 |
| 224 | 34 | 4823 | 5218 | 5613 | 6009 | 6404 | 6792 | 7195 | 7590 | 7986 | 8381 | 8777 | 9173 | 2562 | 9264 | 0360 | 0756 | 1152 |
| 231 | 35 | 2 (3) 5003 | 5398 | 5793 | 6188 | 6583 | 6972 | 7374 | 7769 | 8165 | 8560 | 8956 | 9352 | 2747 | 0143 | 0539 | 0935 | 1331 |
| 238 | 36 | 5183 | 5578 | 5973 | 6368 | 6763 | 7158 | 7553 | 7949 | 8344 | 8739 | 9135 | 9530 | 9926 | 0322 | 0718 | 1113 | 1509 |
| 244 | 37 | 5363 | 5758 | 6152 | 6547 | 6942 | 7338 | 7733 | 8128 | 8523 | 8918 | 9314 | 9702 | 0105 | 0501 | 0026 | 1222 | 1688 |
| 251 | 38 | 5543 | 5938 | 6332 | 6727 | 7122 | 7517 | 7212 | 8307 | 8702 | 2098 | 2493 | 9888 | 0284 | 0679 | 1075 | 1471 | 1866 |
| 257 | 39 | 5723 | 6118 | 6512 | 6907 | 7302 | 7697 | 8092 | 8487 | 8882 | 9277 | 9672 | 0067 | 0463 | 0858 | 1254 | 1649 | 2045 |
| 264 | 40 | 2 (3) 5903 | 6298 | 6692 | 7087 | 7482 | 7876 | 8271 | 8666 | 9061 | 2456 | 2851 | 0247 | 0642 | 1037 | 1433 | 1828 | 2224 |
| 271 | 41 | 6083 | 6470 | 6872 | 7267 | 7662 | 8056 | 8451 | 8846 | 9241 | 9636 | 0031 | 0426 | 0821 | 1216 | 1612 | 2007 | 2402 |
| 277 | 42 | 6264 | 6658 | 7052 | 7447 | 7841 | 8236 | 8631 | 9025 | 9420 | 9815 | 0210 | 0605 | 1000 | 1395 | 1791 | 2186 | 2581 |
| 284 | 43 | 6444 | 6830 | 7233 | 7627 | 8021 | 8416 | 8811 | 9205 | 9600 | 2295 | 0390 | 0784 | 1179 | 1574 | 1970 | 2365 | 2760 |
| 290 | 44 | 6624 | 7012 | 7413 | 7307 | 8201 | 8596 | 8990 | 2385 | 9780 | 0174 | 0569 | 0261 | 1359 | 1754 | 2149 | 2544 | 2939 |
| 297 | 45 | 2 (3) 6805 | 7192 | 7593 | 7287 | 8382 | 8776 | 9170 | 9565 | 9952 | 0354 | 0749 | 1143 | 1538 | 1933 | 2328 | 2723 | 3118 |
| 304 | 46 | 6985 | 7372 | 7773 | 8160 | 8562 | 8956 | 2350 | 2745 | 0139 | 0534 | 0928 | 1323 | 1718 | 2112 | 2507 | 2902 | 3297 |
| 310 | 47 | 7166 | 7560 | 7954 | 8348 | 8742 | 2136 | 2530 | 2925 | 0319 | 0713 | 1108 | 1502 | 1897 | 2292 | 2686 | 3081 | 3476 |
| 317 | 43 | 7346 | 7740 | 8134 | 8528 | 8922 | 9316 | 9710 | 0105 | 0499 | 0893 | 1288 | 1682 | 2077 | 2471 | 2066 | 3261 | 3655 |
| 323 | 49 | 7527 | 7921 | 8315 | 8709 | 9103 | 9497 | 9891 | 0285 | 0679 | 1073 | 1467 | 1362 | 2256 | 2651 | 3045 | 3440 | 3835 |
| 330 | 50 | 2 (3) 7708 | 8102 | 8496 | 8889 | 9283 | 9677 | 0071 | 0465 | 0859 | 1253 | 1647 | 2042 | 2436 | 2830 | 3225 | 3619 | 4014 |
| 337 | 51 | 7882 | 8283 | 8676 | 9070 | 9464 | 9857 | 0251 | 0645 | 1039 | 1433 | 1827 | 2221 | 2616 | 3010 | 3404 | 3799 | 4193 |
| 343 | 52 | 8070 | 8463 | 8857 | 9251 | 9644 | 0038 | 0432 | 0825 | 1219 | 1613 | 2007 | 2401 | 2796 | 3190 | 3584 | 3978 | 4373 |
| 350 | 53 | 8251 | 8644 | 9038 | 9431 | 9825 | 0218 | 0612 | 1006 | 1400 | 1793 | 2187 | 2581 | 2975 | 3370 | 3764 | 4158 | 4552 |
| 356 | 54 | 0432 | 8825 | 9219 | 9612 | 0006 | 0399 | 0793 | 1186 | 1580 | 1974 | 2368 | 2761 | 3155 | 3549 | 3943 | 4338 | 4732 |
| 363 | 55 | 2 (3) 8613 | 9006 | 9400 | 9793 | 0186 | 0580 | 0973 | 1367 | 1760 | 2154 | 2548 | 2942 | 3335 | 3729 | 4123 | 4517 | 4912 |
| 370 | 56 | 8794 | 9188 | 9581 | 9974 | 0367 | 0760 | 1154 | 1547 | 1941 | 2334 | 2728 | 3122 | 3515 | 3909 | 4303 | 4697 | 5091 |
| 376 | 57 | 8976 | 9369 | 9762 | 0155 | 0548 | 0941 | 1334 | 1728 | 2121 | 2515 | 2908 | 3302 | 3696 | 4089 | 4183 | 4877 | 5271 |
| 383 | 58 | 9157 | 9550 | 9943 | 0336 | 0729 | 1122 | 1515 | 1909 | 2302 | 2695 | 3009 | 3482 | 3076 | 4270 | 4663 | 5057 | 5451 |
| 389 | 59 | 9338 | 9731 | 0124 | 0517 | 0910 | 1303 | 1696 | 2089 | 2483 | 2876 | 3269 | 3663 | 4056 | 4450 | 4843 | 5237 | 5631 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 38° | Núm. |
|---|---|---|
| 0 | 0′ | 1 1989 |
| 3 | 1 | 2168 |
| 6 | 2 | 2348 |
| 9 | 3 | 2527 |
| 12 | 4 | 2706 |
| 15 | 5 | 1 2886 |
| 18 | 6 | 3065 |
| 21 | 7 | 3244 |
| 24 | 8 | 3424 |
| 27 | 9 | 3604 |
| 30 | 10 | 1 3783 |
| 33 | 11 | 3963 |
| 36 | 12 | 4143 |
| 39 | 13 | 4323 |
| 42 | 14 | 4503 |
| 45 | 15 | 1 4683 |
| 48 | 16 | 4863 |
| 51 | 17 | 5043 |
| 54 | 18 | 5224 |
| 57 | 19 | 5404 |
| 60 | 20 | 1 5584 |
| 63 | 21 | 5765 |
| 66 | 22 | 5245 |
| 69 | 23 | 6126 |
| 72 | 24 | 6307 |
| 75 | 25 | 1 6487 |
| 78 | 26 | 6668 |
| 81 | 27 | 6849 |
| 84 | 28 | 7030 |
| 87 | 29 | 7211 |
| 90 | 30 | 1 7322 |
| 94 | 31 | 7573 |
| 97 | 32 | 7754 |
| 100 | 33 | 7235 |
| 103 | 34 | 3117 |
| 106 | 35 | 1 8298 |
| 109 | 36 | 8480 |
| 112 | 37 | 8661 |
| 115 | 38 | 8843 |
| 118 | 39 | 9024 |
| 121 | 40 | 1 9206 |
| 124 | 41 | 9388 |
| 127 | 42 | 9570 |
| 130 | 43 | 9752 |
| 133 | 44 | 9934 |
| 136 | 45 | 2 0116 |
| 139 | 46 | 0220 |
| 142 | 47 | 0480 |
| 145 | 40 | 0662 |
| 148 | 49 | 0844 |
| 151 | 50 | 2 1027 |
| 154 | 51 | 1202 |
| 157 | 52 | 1392 |
| 160 | 53 | 1574 |
| 163 | 54 | 1757 |
| 166 | 55 | 2 1940 |
| 169 | 56 | 2122 |
| 172 | 57 | 2305 |
| 175 | 58 | 2488 |
| 178 | 59 | 2671 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 39° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 39° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 | 2854 | 3246 | 3637 | 4029 | 4421 | 4813 | 5205 | 5595 | 5989 | 0381 | 6773 | 7105 | 7057 | 7250 | 0342 | 8735 | 2127 | 181 | 0' | 8 7832 |
| 7 | 1 | | 3037 | 3429 | 3820 | 4212 | 4603 | 4995 | 5387 | 6779 | 0171 | 0563 | 6955 | 7347 | 7739 | 8132 | 0524 | 8916 | 9309 | 178 | 1 | 7052 |
| 13 | 2 | | 3220 | 3612 | 4003 | 4395 | 4786 | 5170 | 5570 | 5961 | 0353 | 5745 | 7137 | 7529 | 7221 | 8314 | 8706 | 9068 | 2400 | 175 | 2 | 7473 |
| 20 | 3 | | 3404 | 3795 | 4186 | 4578 | 4969 | 5361 | 5752 | 0144 | 0530 | 0928 | 7312 | 7712 | 8104 | 8490 | 8888 | 9280 | 2672 | 172 | 3 | 7204 |
| 26 | 4 | | 3587 | 3978 | 4369 | 4761 | 5152 | 5544 | 5935 | 6327 | 6718 | 7110 | 7502 | 7894 | 8285 | 8678 | 9070 | 9402 | 2854 | 169 | 4 | 7114 |
| 32 | 5 | 2 (3) | 3770 | 4101 | 4552 | 4944 | 5335 | 5727 | 6118 | 0509 | 6901 | 7293 | 7084 | 8070 | 8468 | 8860 | 9252 | 2644 | 0036 | 166 | 5 | 6 6935 |
| 39 | 6 | | 3954 | 1345 | 4736 | 5127 | 5518 | 5910 | 0301 | 0692 | 7084 | 7475 | 7867 | 8258 | 8650 | 9042 | 9434 | 9826 | 0218 | 163 | 6 | 6756 |
| 45 | 7 | | 4137 | 4528 | 4919 | 5310 | 5701 | 6093 | 6484 | 0875 | 7266 | 7558 | 8042 | 8441 | 8833 | 2224 | 9616 | 0000 | 0400 | 160 | 7 | 6670 |
| 52 | 8 | | 4321 | 4711 | 5102 | 5493 | 5884 | 6270 | 0667 | 7058 | 7449 | 7841 | 8232 | 8624 | 9015 | 9407 | 6728 | 8190 | 0582 | 167 | 8 | 6396 |
| 58 | 9 | | 4504 | 4895 | 5286 | 5677 | 6068 | 6459 | 6850 | 7241 | 7632 | 8023 | 8415 | 8806 | 9190 | 9589 | 9981 | 0372 | 0764 | 154 | 2 | 6217 |
| 65 | 10 | 2 (3) | 4688 | 5079 | 5469 | 5860 | 6251 | 6642 | 7033 | 7424 | 7815 | 8206 | 8597 | 8989 | 6380 | 9772 | 6163 | 0555 | 0940 | 151 | 10 | 8 6037 |
| 71 | 11 | | 4872 | 5262 | 5653 | 0044 | 6434 | 6825 | 7216 | 7607 | 7998 | 8389 | 8780 | 9172 | 9563 | 9654 | 6345 | 0737 | 1129 | 148 | 11 | 6857 |
| 78 | 12 | | 6055 | 5446 | 5837 | 6227 | 6618 | 7008 | 7399 | 7790 | 8181 | 8572 | 8953 | 9354 | 9746 | 0137 | 9620 | 0919 | 1311 | 145 | 12 | 5677 |
| 84 | 13 | | 6239 | 5630 | 6020 | 6411 | 6801 | 7192 | 7583 | 7973 | 8364 | 0755 | 0146 | 9537 | 9998 | 6312 | 9711 | 1102 | 1423 | 142 | 13 | 6427 |
| 91 | 14 | | 6423 | 5814 | 6204 | 6594 | 6985 | 7376 | 7766 | 8157 | 8547 | 8638 | 9329 | 6720 | 0111 | 0502 | 0893 | 1285 | 1675 | 139 | 14 | 5317 |
| 97 | 15 | 2 (3) | 6607 | 5998 | 6388 | 6778 | 7169 | 7559 | 7959 | 8340 | 0731 | 9121 | 6512 | 6903 | 0264 | 0685 | 1070 | 1467 | 1858 | 136 | 16 | 8 6137 |
| 104 | 10 | | 6791 | 6182 | 6572 | 6962 | 7352 | 7743 | 8133 | 8524 | 8914 | 6305 | 9625 | 0085 | 0477 | 0868 | 1266 | 1660 | 2041 | 133 | 16 | 4657 |
| 110 | 17 | | 6975 | 6356 | 6756 | 7116 | 7536 | 7996 | 8317 | 8707 | 9097 | 9488 | 9879 | 0259 | 0660 | 1051 | 1442 | 1833 | 2224 | 130 | 17 | 4770 |
| 117 | 10 | | 6160 | 6550 | 6940 | 7330 | 7720 | 8110 | 8500 | 8891 | 9281 | 9671 | 0002 | 0462 | 0843 | 1234 | 1025 | 2016 | 2406 | 127 | 18 | 4566 |
| 123 | 19 | | 6344 | 6734 | 7124 | 7514 | 7904 | 8294 | 8684 | 9074 | 9164 | 2855 | 0245 | 0636 | 1026 | 1417 | 1800 | 2168 | 2689 | 124 | 12 | 4416 |
| 130 | 20 | 2 (3) | 0528 | 6518 | 7308 | 7698 | 8088 | 8478 | 8868 | 9258 | 9648 | 0038 | 0429 | 0819 | 1902 | 1606 | 1991 | 2381 | 2772 | 121 | 26 | 8 4235 |
| 136 | 21 | | 6713 | 7102 | 7492 | 7882 | 0272 | 8662 | 9052 | 9412 | 9832 | 8222 | 0612 | 1002 | 1393 | 1783 | 2174 | 2664 | 2955 | 118 | 21 | 4055 |
| 143 | 22 | | 6897 | 7287 | 7576 | 8006 | 8456 | 8846 | 6236 | 9625 | 0015 | 0406 | 0796 | 1186 | 1575 | 1966 | 2357 | 2747 | 3138 | 116 | 22 | 3874 |
| 149 | 23 | | 7082 | 7471 | 7861 | 0250 | 8640 | 9030 | 9420 | 9809 | 0199 | 0589 | 0979 | 1369 | 1760 | 2150 | 2640 | 2930 | 3321 | 112 | 23 | 3623 |
| 156 | 24 | | 7260 | 7656 | 8045 | 8435 | 0824 | 9214 | 6604 | 9993 | 0383 | 0773 | 1163 | 1553 | 1243 | 2333 | 2723 | 3114 | 3504 | 109 | 24 | 3513 |
| 162 | 25 | 2 (3) | 7451 | 7840 | 8230 | 8519 | 9009 | 6398 | 9788 | 0177 | 0567 | 0957 | 1347 | 1737 | 2127 | 2517 | 2907 | 3297 | 3607 | 106 | 25 | 8 3332 |
| 169 | 26 | | 7636 | 8025 | 8414 | 8804 | 9193 | 9582 | 9972 | 0361 | 0751 | 1141 | 1530 | 1920 | 2310 | 2709 | 3090 | 3460 | 3070 | 103 | 26 | 3151 |
| 175 | 27 | | 7821 | 8210 | 8599 | 8988 | 9377 | 9767 | 0156 | 0546 | 0935 | 1326 | 1714 | 2104 | 2494 | 2884 | 3274 | 3664 | 4054 | 108 | 27 | 2970 |
| 182 | 28 | | 8006 | 8394 | 8783 | 9173 | 9562 | 9951 | 0340 | 0730 | 1119 | 1509 | 1098 | 9288 | 2678 | 3067 | 3467 | 3847 | 4237 | 67 | 28 | 2782 |
| 188 | 29 | | 0190 | 8579 | 8968 | 2357 | 9746 | 0136 | 0525 | 0914 | 1303 | 1693 | 2982 | 2472 | 2861 | 3251 | 3641 | 4031 | 4491 | 94 | 29 | 2608 |
| 195 | 30 | 2 (3) | 8375 | 8764 | 9153 | 9542 | 9931 | 0320 | 0709 | 1098 | 1488 | 1877 | 2266 | 9656 | 3045 | 3436 | 3825 | 4214 | 4604 | 26 | 30 | 8 2427 |
| 201 | 31 | | 8560 | 8949 | 9338 | 9727 | 0116 | 0505 | 0894 | 1263 | 1072 | 9061 | 9450 | 2840 | 3229 | 3619 | 4668 | 4368 | 4788 | 87 | 31 | 2240 |
| 208 | 32 | | 0740 | 9134 | 9523 | 9912 | 0300 | 0689 | 1078 | 1467 | 1856 | 2245 | 2635 | 3024 | 3413 | 3803 | 4192 | 4582 | 4971 | 04 | 32 | 2065 |
| 214 | 33 | | 8931 | 9312 | 9708 | 0096 | 0485 | 0874 | 1263 | 1652 | 2041 | 2430 | 2819 | 3208 | 3527 | 3987 | 4376 | 4766 | 5156 | 81 | 33 | 1883 |
| 221 | 34 | | 9116 | 9504 | 9893 | 0281 | 0670 | 1059 | 1448 | 1836 | 2225 | 9614 | 3003 | 3392 | 3781 | 4171 | 4560 | 4949 | 5336 | 78 | 34 | 1702 |
| 227 | 35 | 2 (3) | 9301 | 9690 | 0078 | 0465 | 0855 | 1244 | 1632 | 2021 | 2410 | 2799 | 3188 | 3577 | 3966 | 4355 | 4744 | 5133 | 5523 | 76 | 35 | 8 1520 |
| 234 | 36 | | 9487 | 9875 | 0263 | 0652 | 1040 | 1429 | 1817 | 2296 | 2594 | 2983 | 3372 | 3701 | 4150 | 4539 | 4928 | 5317 | 5706 | 72 | 36 | 1339 |
| 240 | 37 | | 9572 | 0000 | 0448 | 0837 | 1225 | 1614 | 2802 | 2391 | 2779 | 3158 | 3557 | 3945 | 4334 | 4793 | 5112 | 5501 | 5890 | 69 | 37 | 1157 |
| 247 | 38 | | 9858 | 0946 | 0634 | 1022 | 1410 | 1799 | 2187 | 2575 | 2964 | 3352 | 3741 | 4130 | 4519 | 4908 | 5296 | 5685 | 6074 | 66 | 38 | 0976 |
| 253 | 39 | 3 | 0043 | 0431 | 0819 | 1207 | 1595 | 1984 | 2372 | 2760 | 3149 | 3537 | 3926 | 4314 | 4703 | 5022 | 5461 | 5870 | 6268 | 63 | 32 | 0794 |
| 260 | 40 | 3 | 9229 | 0617 | 1005 | 1393 | 1781 | 2169 | 2557 | 2946 | 3334 | 3722 | 4111 | 4499 | 4888 | 5276 | 5565 | 6054 | 6443 | 66 | 40 | 8 0612 |
| 266 | 41 | | 9415 | 0802 | 1190 | 1578 | 1966 | 2354 | 2742 | 3130 | 3519 | 3907 | 4295 | 4684 | 5072 | 5401 | 5849 | 6238 | 6627 | 67 | 41 | 0430 |
| 273 | 42 | | 0600 | 0908 | 1376 | 1764 | 2152 | 2639 | 2927 | 3315 | 3704 | 4022 | 4400 | 4068 | 5267 | 5645 | 6034 | 6422 | 6811 | 64 | 42 | 0248 |
| 279 | 43 | | 0766 | 1174 | 1561 | 1949 | 2337 | 2725 | 3113 | 3501 | 3889 | 4277 | 4655 | 5053 | 5442 | 5830 | 6218 | 6607 | 6995 | 61 | 43 | 0066 |
| 286 | 44 | | 0972 | 1360 | 1747 | 2135 | 2523 | 2910 | 3298 | 3686 | 4074 | 4462 | 4850 | 5238 | 5026 | 6015 | 6403 | 6791 | 7180 | 40 | 44 | 7 2884 |
| 292 | 45 | 3 | 1158 | 1546 | 1933 | 2321 | 2708 | 3096 | 3484 | 3871 | 4259 | 4547 | 5035 | 5423 | 5811 | 6199 | 6588 | 6976 | 7364 | 45 | 45 | 7 9702 |
| 299 | 46 | | 1344 | 1731 | 2119 | 2506 | 2894 | 3981 | 3669 | 4967 | 4444 | 4832 | 5220 | 5608 | 5696 | 6384 | 6772 | 7161 | 7549 | 42 | 46 | 9520 |
| 305 | 47 | | 1530 | 1917 | 2305 | 2692 | 3080 | 3467 | 3854 | 4242 | 4630 | 5018 | 5405 | 5793 | 6181 | 6569 | 6607 | 7345 | 7733 | 39 | 47 | 9338 |
| 312 | 46 | | 1716 | 2184 | 2491 | 2878 | 3265 | 3653 | 4040 | 4428 | 4815 | 5203 | 5521 | 5978 | 6356 | 6764 | 7142 | 7639 | 7918 | 36 | 48 | 9156 |
| 318 | 42 | | 1903 | 2290 | 2677 | 3064 | 3451 | 3838 | 4226 | 4613 | 5801 | 5382 | 5776 | 0164 | 6551 | 6639 | 7327 | 7716 | 8103 | 33 | 49 | 8973 |
| 326 | 50 | 3 | 2089 | 2476 | 2863 | 3250 | 3637 | 4024 | 4412 | 4729 | 5186 | 5574 | 5961 | 6349 | 6736 | 7194 | 7512 | 7900 | 8288 | 30 | 58 | 7 8790 |
| 331 | 61 | | 2275 | 2662 | 3049 | 3436 | 3823 | 1210 | 4597 | 4985 | 5372 | 5759 | 6147 | 6534 | 6992 | 7309 | 7697 | 8085 | 8472 | 27 | 61 | 8608 |
| 338 | 52 | | 2462 | 2848 | 3235 | 3622 | 4009 | 4396 | 4783 | 5170 | 5558 | 5945 | 6332 | 6719 | 7187 | 7494 | 7082 | 8270 | 8657 | 24 | 52 | 8420 |
| 344 | 63 | | 2648 | 3035 | 3422 | 3808 | 4195 | 4582 | 4969 | 5356 | 5743 | 0130 | 6518 | 6905 | 7292 | 7680 | 8057 | 8455 | 8842 | 21 | 53 | 8243 |
| 351 | 64 | | 2835 | 3221 | 3608 | 3995 | 4382 | 4768 | 5165 | 5542 | 5929 | 0316 | 6703 | 7090 | 7478 | 7865 | 8253 | 8040 | 9027 | 16 | 54 | 8060 |
| 357 | 55 | 3 | 3921 | 3408 | 3794 | 4181 | 4568 | 4954 | 5341 | 5728 | 6115 | 6502 | 6889 | 7276 | 7063 | 8051 | 8438 | 8825 | 9213 | 15 | 55 | 7 7078 |
| 364 | 56 | | 3208 | 3594 | 3981 | 4367 | 4734 | 5141 | 5527 | 5914 | 6301 | 5688 | 7075 | 7462 | 7849 | 8236 | 8623 | 9010 | 9398 | 12 | 56 | 7695 |
| 370 | 67 | | 3396 | 3781 | 4167 | 4554 | 4940 | 5327 | 5713 | 6100 | 6487 | 6874 | 7251 | 7647 | 8034 | 8429 | 8809 | 9196 | 9503 | 2 | 67 | 7612 |
| 376 | 56 | | 3582 | 3968 | 4354 | 4740 | 5127 | 5513 | 5200 | 0986 | 6673 | 7860 | 7446 | 7833 | 8220 | 8008 | 8994 | 9381 | 0768 | 6 | 58 | 7329 |
| 383 | 09 | | 3769 | 4155 | 4541 | 4927 | 5313 | 5700 | 6085 | 6472 | 6859 | 7240 | 7632 | 8019 | 8406 | 8793 | 9180 | 9567 | 9954 | 3 | 69 | 7146 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 39° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 36' | 31' | 32' | 33' | Partes para segundos. | 39° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 1 | 0' | 2(3) 9520 | 9913 | 0305 | 6698 | 1091 | 1484 | 1877 | 2270 | 2663 | 3056 | 3450 | 3843 | 4237 | 4630 | 5024 | 5417 | 5811 | 0 | 0' | 2 2854 |
| 7 | 1 | 9701 | 0094 | 0487 | 0879 | 1272 | 1665 | 2058 | 2451 | 9844 | 3237 | 3630 | 4024 | 4417 | 4810 | 5204 | 5597 | 5991 | 3 | 1 | 3037 |
| 13 | 2 | 9883 | 0275 | 0668 | 1061 | 1453 | 1846 | 2939 | 2632 | 3026 | 3418 | 3811 | 4204 | 4597 | 4991 | 5384 | 5777 | 6171 | 6 | 2 | 3220 |
| 20 | 3 | 3 0665 | 0457 | 0850 | 1242 | 1635 | 2027 | 2420 | 2813 | 3206 | 3599 | 3992 | 4385 | 4778 | 5171 | 5564 | 5958 | 6351 | 9 | 3 | 3404 |
| 26 | 4 | 0246 | 0639 | 1031 | 1421 | 1816 | 2209 | 2601 | 2994 | 3387 | 3780 | 4173 | 4566 | 4959 | 5352 | 5745 | 6138 | 6531 | 12 | 4 | 3587 |
| 33 | 5 | 3 0428 | 0826 | 1213 | 1605 | 1997 | 2390 | 2783 | 3175 | 3568 | 3961 | 4353 | 4746 | 5139 | 5532 | 5925 | 6319 | 6712 | 15 | 5 | 2 3770 |
| 39 | 6 | 6610 | 1002 | 1394 | 1787 | 2179 | 2571 | 2964 | 3356 | 3749 | 4142 | 4534 | 4927 | 5390 | 5713 | 6106 | 6499 | 6899 | 18 | 6 | 3954 |
| 46 | 7 | 0799 | 1184 | 1576 | 1968 | 2360 | 2753 | 3145 | 3538 | 3930 | 4323 | 4715 | 5108 | 5501 | 5894 | 6286 | 6679 | 7072 | 22 | 7 | 4137 |
| 52 | 8 | 0974 | 1366 | 1758 | 2150 | 2542 | 2934 | 3327 | 3719 | 4111 | 4504 | 4896 | 5289 | 5689 | 6074 | 6467 | 6860 | 7253 | 25 | 8 | 4391 |
| 59 | 9 | 1156 | 1548 | 1940 | 2332 | 2794 | 3116 | 3508 | 3900 | 4293 | 4685 | 5077 | 5470 | 5863 | 6255 | 6648 | 7641 | 7134 | 28 | 9 | 4504 |
| 65 | 10 | 3 1338 | 1730 | 9192 | 2514 | 2905 | 3298 | 3690 | 4082 | 4474 | 4866 | 5269 | 5651 | 6044 | 6436 | 6829 | 7221 | 7611 | 31 | 16 | 2 4688 |
| 72 | 11 | 1520 | 1912 | 2304 | 2695 | 3087 | 3479 | 3871 | 4263 | 4655 | 5048 | 5440 | 5832 | 6225 | 6617 | 7610 | 7402 | 7795 | 34 | 11 | 4872 |
| 78 | 12 | 1709 | 2094 | 2486 | 2877 | 3269 | 3661 | 4053 | 4445 | 4837 | 5229 | 5621 | 6013 | 6406 | 6798 | 7191 | 7583 | 7976 | 37 | 12 | 5056 |
| 85 | 13 | 1885 | 2276 | 2668 | 3059 | 3451 | 3843 | 4235 | 4627 | 5018 | 5410 | 5803 | 6195 | 6587 | 6979 | 7372 | 7764 | 8156 | 40 | 13 | 5240 |
| 91 | 14 | 2067 | 2459 | 2850 | 3242 | 3633 | 1025 | 4417 | 4808 | 5200 | 5592 | 5984 | 6376 | 6768 | 7160 | 7553 | 7945 | 8337 | 43 | 14 | 5424 |
| 98 | 15 | 3 2250 | 2611 | 3032 | 3424 | 3815 | 4207 | 4598 | 4990 | 5382 | 5774 | 6166 | 6557 | 6949 | 7342 | 7734 | 8126 | 8518 | 46 | 15 | 2 5608 |
| 104 | 16 | 2432 | 2823 | 3215 | 3606 | 3997 | 4389 | 4780 | 5179 | 5564 | 5955 | 6347 | 6739 | 7131 | 7523 | 7915 | 8307 | 8699 | 49 | 16 | 5799 |
| 111 | 17 | 9615 | 3006 | 3397 | 3788 | 4179 | 1571 | 4962 | 5354 | 5745 | 6137 | 6599 | 6920 | 7312 | 7704 | 8096 | 8488 | 8880 | 52 | 17 | 5976 |
| 117 | 18 | 2797 | 3188 | 3579 | 3970 | 4362 | 4753 | 5114 | 5536 | 5997 | 6319 | 6710 | 7102 | 7494 | 7886 | 8277 | 8669 | 9061 | 55 | 18 | 6160 |
| 124 | 19 | 2980 | 3371 | 3762 | 4153 | 4544 | 4935 | 5327 | 5718 | 6109 | 6501 | 6892 | 7284 | 7875 | 8067 | 8459 | 8861 | 9249 | 59 | 19 | 6344 |
| 130 | 20 | 3 3163 | 3553 | 3944 | 4335 | 4726 | 5118 | 5509 | 5900 | 6291 | 6683 | 7074 | 7466 | 7857 | 8249 | 8640 | 9032 | 9424 | 62 | 20 | 2 6528 |
| 137 | 21 | 3345 | 3736 | 4127 | 4518 | 4909 | 5300 | 5691 | 6082 | 6473 | 6865 | 7256 | 7647 | 8039 | 8430 | 8829 | 9213 | 9605 | 65 | 21 | 6713 |
| 143 | 22 | 3598 | 3919 | 4316 | 4701 | 5091 | 5482 | 5873 | 6264 | 6655 | 7047 | 7438 | 7829 | 8221 | 8619 | 9003 | 9395 | 9787 | 68 | 22 | 6897 |
| 150 | 23 | 3711 | 4102 | 4493 | 4883 | 5274 | 5665 | 6056 | 6447 | 6838 | 7299 | 7620 | 8011 | 8402 | 8794 | 9185 | 9577 | 9968 | 71 | 23 | 7082 |
| 156 | 24 | (3)4 3894 | 4985 | 4675 | 5066 | 5457 | 5847 | 6938 | 6629 | 7020 | 7411 | 7802 | 8193 | 8584 | 8976 | 9367 | 9758 | 0150 | 74 | 24 | 7266 |
| 163 | 25 | 3(4) 4077 | 4468 | 4858 | 5249 | 5639 | 6030 | 6121 | 6811 | 7902 | 7593 | 7984 | 8375 | 8766 | 9157 | 9549 | 9940 | 0331 | 77 | 25 | 2 7451 |
| 169 | 26 | 4261 | 4651 | 5041 | 5432 | 5822 | 6213 | 6603 | 6994 | 7385 | 7776 | 8166 | 8557 | 8948 | 9339 | 9730 | 0121 | 0513 | 80 | 26 | 7636 |
| 176 | 27 | 4444 | 4834 | 5224 | 5615 | 6005 | 6395 | 6786 | 7177 | 7567 | 7958 | 8349 | 8739 | 9130 | 9521 | 9912 | 0303 | 0695 | 83 | 27 | 7621 |
| 189 | 28 | 4627 | 5017 | 5407 | 5798 | 6188 | 6578 | 6969 | 7359 | 7750 | 8140 | 8531 | 8922 | 9313 | 9703 | 0094 | 0485 | 0876 | 86 | 28 | 8005 |
| 189 | 29 | 4810 | 5200 | 5591 | 5981 | 6371 | 6761 | 7151 | 7542 | 7932 | 8323 | 8713 | 9104 | 9495 | 9886 | 0276 | 0667 | 1058 | 89 | 29 | 8190 |
| 195 | 30 | 3(4) 4994 | 5384 | 5774 | 6164 | 6554 | 6944 | 7334 | 7725 | 8115 | 8505 | 8896 | 9286 | 9677 | 0068 | 0458 | 0849 | 1240 | 92 | 30 | 2 8375 |
| 202 | 31 | 6177 | 5567 | 5957 | 6347 | 6737 | 7127 | 7517 | 7907 | 8298 | 8688 | 9078 | 9469 | 9859 | 0250 | 0641 | 1031 | 1429 | 96 | 31 | 8560 |
| 208 | 32 | 5361 | 5751 | 6140 | 6530 | 6990 | 7310 | 7700 | 8090 | 8480 | 8871 | 9261 | 9651 | 0042 | 6432 | 0823 | 1213 | 1604 | 99 | 32 | 8746 |
| 215 | 33 | 5545 | 5934 | 6324 | 6714 | 7103 | 7493 | 7883 | 8273 | 8663 | 9053 | 9444 | 9834 | 0294 | 0615 | 1005 | 1396 | 1786 | 102 | 33 | 8931 |
| 221 | 34 | 6728 | 6118 | 6507 | 6897 | 7287 | 7676 | 8066 | 8456 | 8846 | 9236 | 9626 | 0017 | 0407 | 0797 | 1187 | 1578 | 1968 | 105 | 34 | 9116 |
| 228 | 35 | 3(4) 5912 | 6301 | 6691 | 7080 | 7470 | 7860 | 8249 | 8639 | 9029 | 9419 | 9809 | 0199 | 0589 | 0980 | 1370 | 1760 | 2151 | 108 | 35 | 9 9301 |
| 934 | 36 | 6096 | 6485 | 6874 | 7264 | 7653 | 8043 | 8433 | 8829 | 9212 | 9602 | 9992 | 0382 | 0772 | 1162 | 1552 | 1943 | 2333 | 111 | 36 | 9487 |
| 241 | 37 | 6980 | 6669 | 7058 | 7447 | 7837 | 8226 | 8616 | 9006 | 9395 | 9785 | 0175 | 0565 | 0955 | 1345 | 1735 | 2195 | 2515 | 114 | 37 | 9672 |
| 247 | 38 | 6463 | 6853 | 7242 | 7631 | 8020 | 8410 | 8799 | 9189 | 9579 | 9968 | 0358 | 0748 | 1138 | 1598 | 1918 | 9308 | 9698 | 117 | 38 | 9858 |
| 254 | 39 | 6647 | 7037 | 7426 | 7815 | 8204 | 8593 | 8983 | 9372 | 9762 | 0151 | 0541 | 0931 | 1321 | 1710 | 2100 | 2490 | 2880 | 120 | 39 | 3 0043 |
| 260 | 40 | 3(4) 6832 | 7220 | 7610 | 7999 | 8388 | 8777 | 9166 | 9556 | 9945 | 0335 | 0724 | 1114 | 1563 | 1893 | 2983 | 2673 | 3063 | 123 | 40 | 3 6299 |
| 267 | 41 | 7016 | 7405 | 7794 | 8189 | 8572 | 8961 | 9350 | 9739 | 0198 | 0518 | 0907 | 1297 | 1686 | 2076 | 2466 | 2856 | 3245 | 126 | 41 | 6415 |
| 273 | 42 | 7200 | 7589 | 7978 | 8366 | 8753 | 9144 | 9533 | 9923 | 0319 | 0701 | 1091 | 1480 | 1869 | 9259 | 2649 | 3038 | 3428 | 129 | 42 | 0600 |
| 280 | 43 | 7384 | 7773 | 8162 | 8550 | 8939 | 9328 | 9717 | 0106 | 0495 | 0885 | 1274 | 1663 | 2063 | 2442 | 2839 | 3291 | 3611 | 133 | 43 | 0786 |
| 286 | 44 | 7568 | 7957 | 8346 | 8734 | 9123 | 9512 | 9901 | 0290 | 0679 | 1068 | 1467 | 1846 | 2236 | 2625 | 3615 | 3404 | 3794 | 136 | 44 | 0979 |
| 993 | 45 | 3(4, 7753 | 8141 | 8530 | 8918 | 9367 | 9696 | 0085 | 0474 | 0863 | 1252 | 1641 | 2030 | 2419 | 2808 | 3198 | 3587 | 3976 | 139 | 45 | 3 1158 |
| 299 | 46 | 7937 | 8326 | 8714 | 9103 | 9491 | 9880 | 0269 | 0657 | 1046 | 1435 | 1824 | 2213 | 9602 | 2992 | 3381 | 3770 | 4159 | 142 | 46 | 1344 |
| 306 | 47 | 8122 | 8510 | 8898 | 9287 | 9675 | 0064 | 0453 | 0841 | 1230 | 1619 | 2068 | 2397 | 9786 | 3175 | 3564 | 3953 | 4342 | 145 | 47 | 1530 |
| 312 | 48 | 8306 | 8694 | 9083 | 9471 | 9860 | 0248 | 0637 | 1025 | 1414 | 1803 | 2191 | 2580 | 2969 | 3358 | 3747 | 4136 | 4525 | 148 | 46 | 1716 |
| 319 | 49 | 8491 | 8879 | 9267 | 9655 | 0044 | 0432 | 0821 | 1209 | 1598 | 1986 | 2375 | 2764 | 3153 | 3542 | 3931 | 4319 | 4709 | 151 | 49 | 1903 |
| 325 | 56 | 3(4) 8676 | 9064 | 9452 | 9840 | 0228 | 0616 | 1005 | 1393 | 1782 | 2170 | 2559 | 2947 | 3336 | 3725 | 1114 | 4503 | 4892 | 154 | 50 | 3 2089 |
| 339 | 51 | 8860 | 9248 | 9636 | 0024 | 0412 | 0801 | 1189 | 1577 | 1966 | 2354 | 2743 | 3131 | 3520 | 3909 | 4297 | 4686 | 5075 | 157 | 51 | 2275 |
| 338 | 69 | 9045 | 9433 | 9821 | 0209 | 0597 | 0985 | 1373 | 1761 | 2150 | 2538 | 2927 | 3315 | 3704 | 4092 | 4481 | 4870 | 5958 | 160 | 52 | 2462 |
| 315 | 53 | 9230 | 9618 | 0006 | 0394 | 0781 | 1169 | 1558 | 1946 | 9334 | 2722 | 3111 | 3499 | 3887 | 4276 | 4664 | 5053 | 5442 | 163 | 53 | 2648 |
| 351 | 54 | 9416 | 9803 | 0190 | 0578 | 0966 | 1354 | 1742 | 2130 | 2518 | 2906 | 3295 | 3683 | 4071 | 4460 | 4848 | 5237 | 5625 | 166 | 54 | 2835 |
| 358 | 55 | 3(4) 9600 | 9988 | 0375 | 0763 | 1151 | 1539 | 1926 | 2314 | 9702 | 3090 | 3479 | 3667 | 4255 | 4643 | 5032 | 5420 | 5809 | 176 | 55 | 3 3021 |
| 364 | 66 | 9785 | 0173 | 0560 | 0948 | 1335 | 1723 | 2111 | 2499 | 2887 | 3275 | 7663 | 4051 | 4439 | 4827 | 5216 | 5604 | 5992 | 173 | 56 | 3208 |
| 371 | 57 | 9970 | 0358 | 0745 | 1133 | 1520 | 1908 | 2296 | 2683 | 3071 | 3459 | 3847 | 4235 | 4623 | 5011 | 5399 | 5788 | 6176 | 176 | 57 | 3395 |
| 377 | 58 | 4 0156 | 0543 | 0930 | 1318 | 1705 | 2093 | 2480 | 2868 | 3256 | 3643 | 4031 | 4419 | 4867 | 5195 | 5583 | 5971 | 6360 | 179 | 58 | 3582 |
| 384 | 59 | 0341 | 0728 | 1115 | 1503 | 1890 | 2277 | 2665 | 3059 | 3440 | 3828 | 4216 | 4603 | 4991 | 5379 | 5767 | 6156 | 6543 | 182 | 59 | 3769 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 40° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 16' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 40° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 3 (4) 3956 | 4341 | 4728 | 5114 | 5500 | 5886 | 6272 | 6659 | 7045 | 7432 | 7818 | 8205 | 8522 | 8278 | 9365 | 2752 | 8139 | 185 | 0' | 7 6963 |
| 6 | 1 | 4143 | 4528 | 4214 | 5300 | 5686 | 6073 | 6459 | 6845 | 7231 | 7618 | 8004 | 8391 | 8778 | 9164 | 9551 | 9938 | 0325 | 182 | 1 | 6780 |
| 13 | 2 | 4330 | 4715 | 5101 | 5487 | 5873 | 6252 | 6645 | 7032 | 7418 | 7801 | 8120 | 8577 | 8963 | 9350 | 9737 | 0123 | 0510 | 172 | 2 | 6596 |
| 19 | 3 | 4517 | 4902 | 5288 | 5674 | 6060 | 6446 | 6832 | 7218 | 7604 | 7990 | 8377 | 8763 | 9149 | 9536 | 9923 | 0302 | 0696 | 176 | 3 | 6413 |
| 26 | 4 | 4704 | 5090 | 5475 | 5861 | 6247 | 6633 | 7012 | 7405 | 7791 | 8177 | 8563 | 8949 | 9336 | 9722 | 0108 | 0495 | 0882 | 173 | 4 | 6230 |
| 32 | 5 | 3 (4) 4891 | 5277 | 5662 | 6048 | 6434 | 6819 | 7205 | 7521 | 7977 | 8363 | 8719 | 9135 | 9522 | 9908 | 0294 | 0681 | 1067 | 170 | 6 | 7 6046 |
| 38 | 6 | 6072 | 5164 | 5850 | 6235 | 6621 | 7006 | 7322 | 7778 | 8164 | 8550 | 8236 | 9322 | 9708 | 0094 | 0480 | 0867 | 1253 | 166 | 6 | 5863 |
| 45 | 7 | 5266 | 5651 | 6037 | 6422 | 6808 | 7193 | 7579 | 7965 | 8350 | 8736 | 2122 | 9508 | 2894 | 0280 | 0666 | 1053 | 1439 | 163 | 7 | 5679 |
| 51 | 8 | 5453 | 5839 | 6224 | 6609 | 6995 | 7380 | 7766 | 8151 | 8537 | 8923 | 9309 | 9695 | 0081 | 0466 | 0853 | 1239 | 1625 | 160 | 8 | 6496 |
| 58 | 2 | 5641 | 6026 | 6411 | 6797 | 7182 | 7567 | 7953 | 8338 | 8724 | 9110 | 9495 | 9881 | 0267 | 0653 | 1039 | 1425 | 1811 | 157 | 9 | 5312 |
| 64 | 10 | 3 (4) 5829 | 6214 | 6599 | 6284 | 7369 | 7754 | 8140 | 8525 | 8911 | 9296 | 9682 | 0068 | 0453 | 0839 | 1225 | 1611 | 1997 | 154 | 10 | 7 5128 |
| 70 | 11 | 6016 | 6401 | 6786 | 7171 | 7556 | 7942 | 8327 | 8712 | 9098 | 9483 | 9869 | 0254 | 0640 | 1026 | 1411 | 1797 | 2183 | 151 | 11 | 4944 |
| 77 | 12 | 6204 | 6589 | 6974 | 7352 | 7744 | 8129 | 8514 | 8899 | 9285 | 9670 | 0055 | 0441 | 0826 | 1212 | 1598 | 1984 | 2369 | 148 | 12 | 4761 |
| 83 | 13 | 6322 | 6776 | 7161 | 7546 | 7931 | 8316 | 8701 | 9086 | 9472 | 9857 | 0212 | 0628 | 1013 | 1399 | 1784 | 2170 | 2556 | 145 | 13 | 4577 |
| 90 | 14 | 6580 | 6261 | 7349 | 7734 | 8119 | 8504 | 8889 | 9274 | 9639 | 0044 | 0429 | 0814 | 1200 | 1585 | 1971 | 2356 | 2742 | 142 | 14 | 4393 |
| 96 | 15 | 3 (4) 6767 | 7152 | 7537 | 7921 | 8306 | 8691 | 9076 | 9161 | 9846 | 0231 | 0616 | 1001 | 1387 | 1772 | 2157 | 2543 | 2928 | 139 | 15 | 7 4209 |
| 102 | 16 | 6955 | 7340 | 7724 | 8102 | 8494 | 8878 | 9263 | 2648 | 0033 | 0418 | 0803 | 1188 | 1574 | 1259 | 2344 | 2729 | 3115 | 136 | 16 | 4024 |
| 109 | 17 | 7144 | 7528 | 7912 | 8297 | 8681 | 2066 | 9451 | 9836 | 0220 | 0605 | 0990 | 1375 | 1760 | 2146 | 2531 | 2216 | 3301 | 133 | 17 | 8840 |
| 115 | 18 | 7332 | 7716 | 8100 | 8485 | 8869 | 9254 | 9638 | 0023 | 0408 | 0793 | 1177 | 1562 | 1917 | 2332 | 2718 | 3103 | 3488 | 122 | 18 | 3656 |
| 121 | 12 | 7520 | 7904 | 8288 | 8673 | 9057 | 9441 | 9826 | 0210 | 0525 | 0980 | 1365 | 1749 | 2134 | 2519 | 2904 | 3290 | 3676 | 126 | 12 | 3472 |
| 128 | 20 | 3 (4) 7708 | 8092 | 8476 | 8861 | 9245 | 9629 | 0014 | 0398 | 0783 | 1167 | 1552 | 1237 | 2321 | 2706 | 3091 | 3476 | 3861 | 123 | 20 | 7 3287 |
| 134 | 21 | 7896 | 8280 | 8664 | 2042 | 9433 | 2817 | 0201 | 0586 | 0970 | 1355 | 1739 | 2124 | 2502 | 2893 | 3278 | 3663 | 4048 | 120 | 21 | 3103 |
| 141 | 22 | 8085 | 8469 | 8853 | 9237 | 9621 | 0005 | 0389 | 0773 | 1158 | 1542 | 1227 | 2311 | 2696 | 3081 | 3465 | 3850 | 4235 | 117 | 22 | 2918 |
| 147 | 23 | 8273 | 8657 | 9041 | 2425 | 9809 | 0193 | 0577 | 0961 | 1345 | 1730 | 2114 | 2499 | 2883 | 3268 | 3652 | 4037 | 4422 | 114 | 23 | 2734 |
| 153 | 24 | 8462 | 8845 | 9229 | 9613 | 9297 | 0381 | 0765 | 1149 | 1533 | 1217 | 2302 | 2686 | 3071 | 3455 | 3840 | 4224 | 4609 | 111 | 24 | 2549 |
| 160 | 25 | 3 (4) 8650 | 9034 | 9418 | 9801 | 0185 | 0569 | 0953 | 1337 | 1721 | 2105 | 2489 | 2874 | 3258 | 3642 | 4027 | 4411 | 4796 | 108 | 25 | 7 2364 |
| 166 | 26 | 8839 | 2222 | 9606 | 9990 | 0373 | 0737 | 1141 | 1525 | 1909 | 2293 | 2677 | 3061 | 3445 | 3830 | 4214 | 4592 | 4983 | 105 | 26 | 2179 |
| 173 | 27 | 9028 | 9411 | 9794 | 8178 | 0562 | 0945 | 1329 | 1713 | 2097 | 2481 | 2865 | 3249 | 3633 | 4017 | 4401 | 4786 | 5170 | 102 | 27 | 1995 |
| 179 | 28 | 9216 | 2600 | 9983 | 0366 | 0750 | 1134 | 1517 | 1901 | 2285 | 2669 | 3053 | 3437 | 3821 | 4205 | 4589 | 4973 | 5357 | 29 | 28 | 1810 |
| 185 | 29 | 9405 | 9788 | 0172 | 0555 | 0938 | 1322 | 1706 | 2089 | 2473 | 2857 | 3240 | 3624 | 4008 | 4392 | 4776 | 5160 | 6545 | 26 | 22 | 1625 |
| 122 | 30 | 3 (4) 9594 | 9277 | 0360 | 0744 | 1127 | 1510 | 1894 | 2277 | 2661 | 3045 | 3428 | 3812 | 4196 | 4580 | 4964 | 5348 | 5732 | 92 | 36 | 7 1440 |
| 198 | 31 | 9783 | 0166 | 0549 | 0932 | 1316 | 1699 | 2082 | 2466 | 2842 | 3233 | 3616 | 4000 | 4384 | 4768 | 5152 | 5535 | 6920 | 89 | 31 | 1254 |
| 205 | 32 | 9972 | 0355 | 0738 | 1121 | 1504 | 1887 | 2271 | 2654 | 3037 | 3421 | 3804 | 4188 | 4572 | 4955 | 5339 | 5723 | 6107 | 86 | 32 | 1069 |
| 211 | 33 | 4 0161 | 0544 | 0927 | 1310 | 1693 | 2076 | 2459 | 2842 | 3226 | 3609 | 3993 | 4376 | 4760 | 5143 | 5527 | 5911 | 6295 | 63 | 33 | 0884 |
| 217 | 34 | 0350 | 0733 | 1116 | 1492 | 1882 | 2265 | 2648 | 3071 | 3414 | 3797 | 4181 | 4564 | 4948 | 5331 | 5715 | 6028 | 6482 | 60 | 34 | 0622 |
| 224 | 35 | 4 0539 | 0922 | 1305 | 1688 | 2070 | 2453 | 2836 | 3212 | 3603 | 3985 | 4362 | 4752 | 5136 | 5512 | 5903 | 6286 | 6670 | 77 | 35 | 7 0513 |
| 230 | 36 | 0729 | 1111 | 1494 | 1877 | 2252 | 2642 | 3025 | 3408 | 3721 | 4174 | 4557 | 4941 | 5324 | 5707 | 6091 | 6474 | 6858 | 74 | 36 | 0328 |
| 236 | 37 | 6918 | 1300 | 1683 | 2066 | 2448 | 2831 | 3214 | 3597 | 3280 | 4363 | 4746 | 5129 | 5512 | 5895 | 6279 | 6662 | 7045 | 71 | 37 | 0142 |
| 243 | 38 | 1107 | 1490 | 1872 | 2255 | 2637 | 3020 | 3403 | 3785 | 4168 | 4551 | 4934 | 5317 | 5700 | 6984 | 6467 | 6850 | 7233 | 68 | 38 | 6 9957 |
| 249 | 39 | 1297 | 1672 | 2062 | 2444 | 2826 | 3202 | 3592 | 3974 | 4357 | 4740 | 5123 | 5506 | 5889 | 6272 | 6655 | 7038 | 7421 | 65 | 39 | 9771 |
| 256 | 40 | 4 1486 | 1869 | 2251 | 2633 | 3015 | 3398 | 3781 | 4163 | 4546 | 4928 | 5311 | 5694 | 6077 | 6460 | 6843 | 7226 | 7609 | 62 | 40 | 6 9585 |
| 262 | 41 | 1676 | 2058 | 2440 | 2822 | 3205 | 3587 | 3970 | 4352 | 4735 | 5117 | 5500 | 5883 | 6265 | 6648 | 7031 | 7414 | 7797 | 52 | 41 | 2400 |
| 268 | 42 | 1866 | 2248 | 2630 | 3012 | 3394 | 3776 | 4159 | 4541 | 4924 | 5306 | 5689 | 6071 | 6454 | 6837 | 7220 | 7602 | 7985 | 65 | 42 | 9214 |
| 275 | 43 | 2055 | 2437 | 2819 | 3201 | 3583 | 3266 | 4348 | 4730 | 5113 | 5495 | 5877 | 6260 | 6642 | 7025 | 7408 | 7791 | 8174 | 52 | 43 | 2028 |
| 281 | 44 | 2245 | 2627 | 3002 | 3391 | 3773 | 4155 | 4537 | 1919 | 5302 | 5684 | 6066 | 6449 | 6831 | 7214 | 7596 | 7979 | 8362 | 42 | 44 | 8842 |
| 288 | 46 | 4 2435 | 2817 | 3128 | 3580 | 3962 | 4344 | 1726 | 5108 | 5491 | 5873 | 6255 | 6637 | 7020 | 7402 | 7785 | 8167 | 8550 | 46 | 45 | 6 8656 |
| 294 | 46 | 2626 | 3007 | 3388 | 3770 | 4152 | 4534 | 4216 | 5298 | 5680 | 6062 | 6444 | 6826 | 7209 | 7691 | 7273 | 8356 | 8739 | 43 | 46 | 8470 |
| 300 | 47 | 2815 | 3196 | 3578 | 3960 | 4341 | 4723 | 5105 | 5487 | 5869 | 6251 | 6633 | 7015 | 7327 | 7780 | 8162 | 8544 | 8227 | 40 | 47 | 8281 |
| 307 | 48 | 3005 | 3386 | 3768 | 4149 | 4531 | 4913 | 5224 | 5676 | 6058 | 6440 | 6822 | 7204 | 7586 | 7968 | 8351 | 8733 | 9115 | 37 | 48 | 8097 |
| 313 | 42 | 3195 | 3576 | 3956 | 4339 | 4721 | 5102 | 5484 | 5866 | 6247 | 6629 | 7011 | 7393 | 7775 | 8157 | 8540 | 8922 | 9304 | 34 | 42 | 7911 |
| 320 | 50 | 4 3385 | 3766 | 4148 | 4529 | 4910 | 5292 | 5674 | 6055 | 6437 | 6819 | 7200 | 7582 | 7964 | 8346 | 8728 | 9110 | 9493 | 31 | 50 | 6 7725 |
| 326 | 51 | 3675 | 3967 | 4338 | 4719 | 5100 | 5482 | 5863 | 6245 | 6626 | 7008 | 7390 | 7772 | 8153 | 8535 | 8917 | 9299 | 9681 | 28 | 51 | 7538 |
| 632 | 62 | 3766 | 4147 | 4528 | 4909 | 5290 | 5672 | 6053 | 6434 | 6816 | 7197 | 7579 | 7261 | 8342 | 8724 | 9106 | 9488 | 9870 | 26 | 52 | 7352 |
| 339 | 63 | 4 (5) 3256 | 4337 | 4718 | 5022 | 5480 | 5861 | 6243 | 6624 | 7005 | 7387 | 7768 | 8150 | 8532 | 8913 | 9295 | 9677 | 0859 | 22 | 63 | 7165 |
| 345 | 54 | 4146 | 4527 | 4908 | 5289 | 5670 | 6051 | 6433 | 6814 | 7125 | 7577 | 7258 | 8339 | 8721 | 9103 | 9484 | 9866 | 0248 | 18 | 64 | 6272 |
| 852 | 55 | 4 (6) 4337 | 4718 | 5029 | 5479 | 5860 | 6241 | 6623 | 7084 | 7385 | 7766 | 8147 | 8529 | 8910 | 9292 | 2673 | 0055 | 0437 | 15 | 55 | 6 6722 |
| 858 | 66 | 4528 | 4908 | 5289 | 5670 | 6051 | 6431 | 6813 | 7124 | 7575 | 7936 | 8337 | 8718 | 9100 | 9481 | 9863 | 0244 | 0626 | 12 | 56 | 6605 |
| 361 | 67 | 4718 | 5092 | 5479 | 5860 | 6241 | 6622 | 7003 | 7383 | 7764 | 8146 | 8527 | 8908 | 9289 | 9670 | 0052 | 0433 | 0815 | 9 | 67 | 6418 |
| 371 | 58 | 4909 | 5289 | 5678 | 6050 | 6431 | 6812 | 7193 | 7573 | 7254 | 8335 | 8716 | 9097 | 9479 | 9860 | 0241 | 0623 | 1004 | 6 | 68 | 6231 |
| 377 | 52 | 6108 | 5480 | 5860 | 6241 | 6621 | 7002 | 7383 | 7763 | 8144 | 8525 | 8906 | 2287 | 9668 | 0049 | 0131 | 0812 | 1123 | 3 | 59 | 6044 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 40° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 4 | 0526 | 0913 | 1300 | 1688 | 2075 | 2462 | 2850 | 3237 | 3625 | 1012 | 4400 | 4788 | 5175 | 5563 | 5951 | 6339 | 6727 |
| 6 | 1 | | 0712 | 1099 | 1486 | 1873 | 2260 | 2617 | 3081 | 3422 | 3809 | 4197 | 1584 | 4972 | 5360 | 5747 | 6135 | 6523 | 6911 |
| 13 | 2 | | 9897 | 1284 | 1671 | 2058 | 2445 | 2832 | 3219 | 3607 | 3994 | 4381 | 1769 | 5156 | 5544 | 5942 | 6320 | 6707 | 7095 |
| 19 | 3 | | 1003 | 1469 | 1856 | 2243 | 2630 | 3017 | 3104 | 3792 | 4179 | 4566 | 1953 | 5341 | 5728 | 6116 | 6504 | 6891 | 7279 |
| 26 | 4 | | 1268 | 1655 | 2042 | 2428 | 2815 | 3202 | 3689 | 3977 | 4364 | 1751 | 5138 | 5525 | 5913 | 6301 | 6689 | 7076 | 7463 |
| 32 | 5 | 4 | 1454 | 1840 | 2227 | 2614 | 3001 | 3388 | 3775 | 4162 | 4549 | 4936 | 5323 | 5710 | 6097 | 6485 | 6873 | 7260 | 7647 |
| 38 | 6 | | 1640 | 2026 | 2413 | 2799 | 3186 | 3573 | 3960 | 4347 | 4734 | 5121 | 5508 | 5896 | 6282 | 6669 | 7057 | 7444 | 7832 |
| 45 | 7 | | 1825 | 2212 | 2598 | 2985 | 3371 | 3758 | 4145 | 4532 | 4919 | 5306 | 5693 | 6080 | 6467 | 6854 | 7241 | 7628 | 8016 |
| 51 | 0 | | 2011 | 2397 | 2784 | 3170 | 3657 | 3943 | 4330 | 4717 | 5104 | 5191 | 5878 | 6264 | 6651 | 7039 | 7426 | 7813 | 8200 |
| 58 | 9 | | 2197 | 2583 | 2970 | 3356 | 3742 | 4129 | 4515 | 4902 | 5289 | 5676 | 6063 | 6449 | 6836 | 7223 | 7610 | 7997 | 8385 |
| 64 | 10 | 4 | 2383 | 2769 | 3155 | 3512 | 3928 | 4314 | 4701 | 5087 | 5474 | 5861 | 6218 | 6634 | 7021 | 7408 | 7795 | 8182 | 8569 |
| 71 | 11 | | 2569 | 2955 | 3341 | 3727 | 4114 | 4500 | 4886 | 5273 | 5659 | 6046 | 6433 | 6819 | 7206 | 7593 | 7980 | 8367 | 8754 |
| 77 | 12 | | 2755 | 3141 | 3527 | 3913 | 4299 | 4686 | 5072 | 5458 | 5845 | 6231 | 6618 | 7004 | 7391 | 7778 | 8161 | 8551 | 8938 |
| 83 | 13 | | 2941 | 3327 | 3713 | 4099 | 4485 | 1871 | 6258 | 5644 | 6030 | 6417 | 6803 | 7189 | 7576 | 7963 | 8349 | 8736 | 9123 |
| 90 | 14 | | 3128 | 3513 | 3899 | 4285 | 4671 | 5057 | 5443 | 5829 | 6216 | 6602 | 6988 | 7375 | 7761 | 8148 | 8534 | 8921 | 9308 |
| 96 | 15 | 4 | 3314 | 3700 | 4085 | 4471 | 4857 | 5243 | 5629 | 6015 | 6401 | 6787 | 7174 | 7560 | 7946 | 8333 | 8719 | 9106 | 9492 |
| 103 | 16 | | 3500 | 3886 | 4272 | 4657 | 5043 | 5429 | 5815 | 6201 | 6587 | 6973 | 7359 | 7745 | 8131 | 8518 | 8904 | 9291 | 9677 |
| 109 | 17 | | 3687 | 4072 | 4458 | 4843 | 5229 | 5615 | 6001 | 6387 | 6772 | 7158 | 7544 | 7931 | 8317 | 8703 | 9089 | 9476 | 9862 |
| 115 | 18 | 4 (5) | 3873 | 4259 | 4644 | 5030 | 5415 | 5801 | 6187 | 6572 | 6958 | 7344 | 7730 | 8116 | 8502 | 8888 | 9274 | 9661 | 0047 |
| 122 | 19 | | 4060 | 4445 | 4831 | 5216 | 5601 | 5987 | 6373 | 6768 | 7144 | 7530 | 7916 | 8302 | 8687 | 9074 | 9460 | 9846 | 0232 |
| 128 | 20 | 4 (5) | 4247 | 4632 | 5017 | 5402 | 5788 | 6173 | 6559 | 6914 | 7330 | 7715 | 8101 | 8487 | 8873 | 9259 | 9645 | 0031 | 0417 |
| 135 | 21 | | 4433 | 4818 | 5203 | 5589 | 5974 | 6359 | 6745 | 7130 | 7516 | 7901 | 8287 | 8673 | 9059 | 9444 | 9830 | 0216 | 0602 |
| 141 | 22 | | 4620 | 5005 | 5390 | 5775 | 6160 | 6546 | 6931 | 7316 | 7702 | 8087 | 8473 | 8858 | 9244 | 9630 | 0016 | 0402 | 0788 |
| 147 | 23 | | 4807 | 5192 | 5577 | 5962 | 6347 | 6732 | 7117 | 7502 | 7088 | 8273 | 8659 | 9041 | 9430 | 9816 | 0201 | 0587 | 0973 |
| 154 | 24 | | 4994 | 5378 | 5763 | 6148 | 6533 | 6910 | 7303 | 7689 | 8074 | 8459 | 8845 | 9230 | 9616 | 0001 | 0387 | 0772 | 1158 |
| 160 | 25 | 4 (5) | 5181 | 5565 | 5950 | 6335 | 6720 | 7105 | 7490 | 7875 | 8260 | 8645 | 9031 | 9416 | 9801 | 0187 | 0572 | 0958 | 1344 |
| 166 | 26 | | 5368 | 5752 | 6137 | 6522 | 6906 | 7291 | 7676 | 8061 | 8446 | 8831 | 9217 | 9602 | 9987 | 0373 | 0758 | 1144 | 1529 |
| 173 | 27 | | 6555 | 5939 | 6324 | 6708 | 7093 | 7478 | 7863 | 8248 | 8633 | 9018 | 9403 | 9788 | 0173 | 0558 | 0944 | 1329 | 1715 |
| 179 | 28 | | 5742 | 6126 | 6511 | 6895 | 7280 | 7665 | 8049 | 8434 | 8819 | 9204 | 9589 | 9974 | 0359 | 0744 | 1130 | 1515 | 1900 |
| 156 | 29 | | 5929 | 6313 | 6698 | 7082 | 7467 | 7851 | 8236 | 8621 | 9005 | 9390 | 9775 | 0160 | 0545 | 0930 | 1315 | 1701 | 2086 |
| 192 | 30 | 4 (6) | 6116 | 6500 | 6885 | 7269 | 7654 | 8038 | 8423 | 8807 | 9192 | 9577 | 9962 | 0346 | 0731 | 1116 | 1501 | 1887 | 2272 |
| 199 | 31 | | 6304 | 6688 | 7072 | 7456 | 7841 | 8225 | 8609 | 8994 | 9379 | 9763 | 0148 | 0533 | 0918 | 1302 | 1587 | 2072 | 2457 |
| 205 | 32 | | 6491 | 6875 | 7259 | 7643 | 8028 | 8412 | 8796 | 9181 | 9565 | 9950 | 0334 | 0719 | 1104 | 1489 | 1873 | 2258 | 2643 |
| 211 | 33 | | 6678 | 7063 | 7446 | 7830 | 8215 | 8599 | 8983 | 9367 | 9752 | 0136 | 0521 | 0905 | 1290 | 1675 | 2060 | 2444 | 2829 |
| 218 | 34 | | 6866 | 7250 | 7634 | 8018 | 8402 | 8786 | 9170 | 9554 | 9939 | 0323 | 0707 | 1992 | 1476 | 1861 | 2246 | 2631 | 3015 |
| 224 | 35 | 4 (5) | 7054 | 7437 | 7821 | 8205 | 8589 | 8973 | 9357 | 9741 | 0125 | 0510 | 0894 | 1278 | 1663 | 2047 | 2432 | 2917 | 3201 |
| 231 | 36 | | 7241 | 7625 | 8009 | 8392 | 8776 | 9160 | 9544 | 9928 | 0312 | 0697 | 1081 | 1465 | 1849 | 2234 | 2618 | 3903 | 3387 |
| 237 | 37 | | 7429 | 7812 | 8196 | 8580 | 8964 | 9347 | 9731 | 0115 | 0499 | 0083 | 1267 | 1652 | 2036 | 2420 | 2805 | 3189 | 3574 |
| 244 | 38 | | 7617 | 8000 | 8384 | 8767 | 9151 | 9535 | 9918 | 0302 | 0686 | 1070 | 1454 | 1838 | 2223 | 2607 | 2991 | 3375 | 3760 |
| 250 | 39 | | 7805 | 0188 | 8571 | 8955 | 9338 | 9722 | 0196 | 0490 | 0073 | 1257 | 1641 | 2025 | 2409 | 2793 | 3178 | 3562 | 3946 |
| 256 | 49 | 4 (5) | 7992 | 8376 | 8759 | 9142 | 9526 | 9910 | 0293 | 0677 | 1060 | 1444 | 1828 | 2212 | 2596 | 2980 | 3364 | 3748 | 4133 |
| 263 | 41 | | 8189 | 8564 | 8947 | 9330 | 9714 | 0097 | 0480 | 0864 | 1248 | 1631 | 2015 | 2399 | 2783 | 3167 | 3551 | 3935 | 4319 |
| 259 | 42 | | 8368 | 8752 | 9135 | 9518 | 9991 | 0284 | 0668 | 1051 | 1435 | 1819 | 2202 | 2586 | 2970 | 3354 | 3737 | 4121 | 4505 |
| 276 | 43 | | 8556 | 8940 | 9323 | 9706 | 0089 | 0472 | 0855 | 1239 | 1622 | 2006 | 2389 | 2773 | 3157 | 3540 | 3924 | 4308 | 4692 |
| 252 | 44 | | 8745 | 9128 | 9511 | 9894 | 0277 | 0660 | 1043 | 1426 | 1810 | 2193 | 2577 | 2960 | 3344 | 3727 | 4111 | 4495 | 4879 |
| 200 | 46 | 4 (5) | 8933 | 9316 | 9699 | 0082 | 0464 | 0848 | 1231 | 1614 | 1997 | 2380 | 2764 | 3147 | 3531 | 3914 | 4298 | 4682 | 5065 |
| 295 | 46 | | 9121 | 9504 | 9887 | 0270 | 0652 | 1035 | 1418 | 1801 | 2105 | 2568 | 2951 | 3334 | 3718 | 4101 | 4485 | 4868 | 5252 |
| 301 | 47 | | 9309 | 9692 | 0075 | 0458 | 0840 | 1223 | 1606 | 1989 | 2372 | 2755 | 3138 | 3522 | 3905 | 4288 | 4672 | 5055 | 5439 |
| 308 | 40 | | 9498 | 9880 | 0263 | 0646 | 1028 | 1411 | 1794 | 2177 | 2560 | 2943 | 3326 | 3709 | 4092 | 4476 | 4859 | 5242 | 5626 |
| 314 | 49 | | 9686 | 0069 | 0451 | 0834 | 1216 | 1599 | 1982 | 2365 | 2747 | 3130 | 3513 | 3096 | 4200 | 4663 | 5046 | 5429 | 5813 |
| 320 | 50 | 4 (5) | 9875 | 0257 | 0645 | 1022 | 1405 | 1787 | 2170 | 2552 | 2935 | 3318 | 3701 | 4084 | 4467 | 4850 | 5233 | 5616 | 6000 |
| 327 | 51 | 5 | 0063 | 5446 | 0028 | 1210 | 1593 | 1975 | 2358 | 2740 | 3123 | 3506 | 3889 | 4272 | 4654 | 5037 | 5420 | 5804 | 6187 |
| 333 | 52 | | 0252 | 0634 | 1017 | 1399 | 1781 | 2163 | 2516 | 2928 | 3311 | 3694 | 4076 | 4459 | 4042 | 5225 | 5608 | 5991 | 6374 |
| 340 | 53 | | 0441 | 0823 | 1205 | 1587 | 1969 | 2352 | 2734 | 3116 | 3499 | 3882 | 4264 | 4647 | 5029 | 5412 | 5795 | 6170 | 6561 |
| 346 | 54 | | 0630 | 1012 | 1394 | 1776 | 2158 | 2545 | 2922 | 3305 | 3687 | 4069 | 4452 | 4034 | 5217 | 5690 | 5903 | 6365 | 6748 |
| 352 | 55 | 5 | 0819 | 1209 | 1582 | 1964 | 2346 | 2728 | 3111 | 3493 | 3875 | 4257 | 4640 | 5022 | 5455 | 5787 | 5170 | 6553 | 6936 |
| 369 | 56 | | 4507 | 1389 | 1771 | 2153 | 2535 | 2917 | 3299 | 3601 | 4563 | 4445 | 4528 | 5210 | 5553 | 5975 | 6358 | 6740 | 7123 |
| 365 | 67 | | 1196 | 1578 | 1960 | 2342 | 2723 | 3155 | 3457 | 3869 | 4251 | 4634 | 5016 | 5395 | 5705 | 5163 | 6545 | 5928 | 7310 |
| 372 | 58 | | 1385 | 1767 | 2149 | 2530 | 2912 | 3294 | 3676 | 4058 | 4449 | 4522 | 5204 | 5585 | 5958 | 6351 | 6733 | 7115 | 7498 |
| 378 | 69 | | 4575 | 1956 | 2330 | 2719 | 3151 | 3483 | 3864 | 4246 | 4628 | 5010 | 5392 | 5774 | 6156 | 6538 | 5921 | 7353 | 7685 |

**Num. IV para hallar la distancia corregida.**

| Partes para segundos. | 40° | Núm. |
|---|---|---|
| 0 | 0′ | 3 3956 |
| 3 | 1 | 4143 |
| 6 | 2 | 4330 |
| 9 | 3 | 4517 |
| 13 | 4 | 4704 |
| 16 | 5 | 3 4891 |
| 19 | 6 | 5079 |
| 22 | 7 | 5266 |
| 25 | 0 | 5453 |
| 28 | 9 | 5641 |
| 31 | 10 | 3 5829 |
| 35 | 11 | 6016 |
| 38 | 12 | 6204 |
| 41 | 13 | 6392 |
| 41 | 14 | 6580 |
| 47 | 15 | 3 6768 |
| 50 | 16 | 6956 |
| 54 | 17 | 7144 |
| 57 | 18 | 7332 |
| 60 | 19 | 7520 |
| 63 | 20 | 3 7708 |
| 66 | 21 | 7896 |
| 69 | 22 | 0085 |
| 72 | 23 | 8273 |
| 75 | 24 | 0462 |
| 79 | 25 | 3 8650 |
| 82 | 26 | 8039 |
| 85 | 27 | 9028 |
| 88 | 28 | 9216 |
| 91 | 29 | 9405 |
| 94 | 30 | 3 9594 |
| 98 | 31 | 9783 |
| 101 | 32 | 9972 |
| 104 | 33 | 4 0161 |
| 107 | 34 | 0350 |
| 110 | 35 | 4 0539 |
| 113 | 36 | 0729 |
| 117 | 37 | 0918 |
| 120 | 38 | 1107 |
| 123 | 39 | 1297 |
| 126 | 40 | 4 1486 |
| 129 | 41 | 1676 |
| 132 | 42 | 1866 |
| 135 | 43 | 2055 |
| 139 | 44 | 2245 |
| 142 | 45 | 4 2435 |
| 145 | 46 | 2625 |
| 148 | 47 | 2815 |
| 151 | 48 | 3505 |
| 154 | 49 | 3195 |
| 157 | 50 | 4 3385 |
| 161 | 51 | 3575 |
| 164 | 52 | 3766 |
| 167 | 53 | 3955 |
| 170 | 54 | 4147 |
| 173 | 55 | 4 4337 |
| 176 | 56 | 4528 |
| 100 | 57 | 4715 |
| 186 | 50 | 4909 |
| 185 | 59 | 5100 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 41° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 12' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 41° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2' | 4 (5) 5295 | 5671 | 6851 | 6431 | 6812 | 7192 | 7573 | 7954 | 8334 | 8715 | 2896 | 9477 | 9858 | 0239 | 5625 | 1201 | 1322 | 182 | 0' | 6 5857 |
| 6 | 1 | 5481 | 5861 | 6242 | 6622 | 7002 | 7383 | 7763 | 8144 | 8321 | 8955 | 9205 | 9667 | 0048 | 0422 | 0810 | 1191 | 1672 | 186 | 1 | 5672 |
| 13 | 2 | 5672 | 6052 | 6432 | 6813 | 7193 | 7573 | 7954 | 8334 | 8715 | 9093 | 9476 | 9857 | 0237 | 0215 | 0992 | 1380 | 1761 | 183 | 2 | 5483 |
| 12 | 3 | 6863 | 6243 | 6623 | 7053 | 7384 | 7724 | 8144 | 8524 | 8253 | 9283 | 9266 | 0847 | 0427 | 0808 | 1189 | 1570 | 1951 | 188 | 3 | 2292 |
| 25 | 4 | 6054 | 6434 | 6814 | 7194 | 7574 | 7954 | 8335 | 8713 | 9025 | 2475 | 2856 | 0237 | 0217 | 0998 | 1379 | 1752 | 2140 | 176 | 4 | 5182 |
| 31 | 5 | 4 (5) 6245 | 6625 | 7085 | 7385 | 7785 | 8145 | 8525 | 8905 | 2286 | 9666 | 0046 | 0427 | 0807 | 1188 | 1568 | 1942 | 2330 | 173 | 5 | 6 4221 |
| 38 | 6 | 6437 | 6816 | 7196 | 7572 | 7956 | 8336 | 8716 | 9096 | 9476 | 2856 | 0236 | 0617 | 0997 | 1378 | 1728 | 2132 | 2519 | 178 | 6 | 4734 |
| 44 | 7 | 6628 | 7007 | 7387 | 7767 | 8147 | 8527 | 8906 | 9286 | 9226 | 0047 | 0427 | 0857 | 1187 | 1555 | 1248 | 2322 | 2759 | 127 | 7 | 4547 |
| 60 | 8 | 6812 | 7199 | 7372 | 7958 | 8338 | 8717 | 9097 | 9477 | 9857 | 8237 | 0617 | 0997 | 1377 | 1758 | 2138 | 2518 | 2829 | 124 | 2 | 4359 |
| 57 | 9 | 7210 | 7390 | 7759 | 8149 | 8529 | 8908 | 9288 | 9668 | 8048 | 0427 | 0808 | 1188 | 1668 | 1248 | 2328 | 2758 | 3889 | 161 | 9 | 4171 |
| 63 | 19 | 4 (6) 7202 | 7681 | 7261 | 8348 | 9720 | 9099 | 2472 | 2852 | 0238 | 0618 | 0928 | 1378 | 1758 | 2138 | 2318 | 2898 | 3272 | 167 | 10 | 6 3984 |
| 69 | 11 | 7323 | 7773 | 8152 | 8531 | 8211 | 9290 | 2670 | 0042 | 0429 | 0802 | 1189 | 1568 | 1948 | 2328 | 2708 | 3588 | 3462 | 131 | 11 | 3792 |
| 76 | 12 | 7685 | 7264 | 8343 | 8723 | 9102 | 9481 | 2861 | 0240 | 0520 | 0922 | 1372 | 1759 | 2139 | 2519 | 2899 | 3279 | 3659 | 131 | 12 | 3608 |
| 82 | 13 | 7777 | 8156 | 8535 | 8914 | 9293 | 9672 | 0052 | 0431 | 0811 | 1190 | 1570 | 1249 | 2329 | 2702 | 3082 | 3469 | 3849 | 148 | 13 | 3422 |
| 88 | 14 | 7968 | 8347 | 8726 | 9105 | 9484 | 9861 | 0243 | 0622 | 1802 | 1381 | 1760 | 2140 | 2620 | 2899 | 3272 | 3662 | 4839 | 145 | 14 | 3232 |
| 94 | 15 | 4 (5) 8160 | 8539 | 8218 | 9297 | 9676 | 0055 | 0434 | 0813 | 1193 | 1572 | 1251 | 2331 | 2710 | 3090 | 3478 | 3849 | 4229 | 142 | 15 | 6 3544 |
| 181 | 16 | 8352 | 8731 | 9109 | 9488 | 9867 | 0246 | 0626 | 1004 | 1384 | 1723 | 2142 | 2522 | 2901 | 3281 | 3560 | 1248 | 4419 | 139 | 12 | 2856 |
| 107 | 17 | 8544 | 8922 | 9301 | 9680 | 0059 | 0438 | 0817 | 1196 | 1576 | 1254 | 2333 | 2712 | 3092 | 3471 | 3851 | 4238 | 4618 | 135 | 17 | 2668 |
| 113 | 18 | 8736 | 9114 | 9493 | 9872 | 5255 | 0622 | 1008 | 1387 | 1766 | 2145 | 2524 | 2903 | 3282 | 3662 | 4841 | 4421 | 4800 | 132 | 18 | 2488 |
| 120 | 19 | 8928 | 9306 | 9685 | 8063 | 0442 | 0821 | 1199 | 1578 | 1957 | 2336 | 2715 | 3024 | 3473 | 3853 | 4232 | 4611 | 4991 | 129 | 19 | 2222 |
| 126 | 28 | 4 (5) 9128 | 2428 | 9877 | 8255 | 0634 | 1012 | 1391 | 1778 | 2148 | 2527 | 2206 | 3285 | 3664 | 4843 | 4423 | 4802 | 5181 | 126 | 25 | 6 2184 |
| 132 | 21 | 9312 | 9690 | 0862 | 8447 | 0825 | 1204 | 1583 | 1961 | 2340 | 2712 | 3097 | 3476 | 3855 | 4234 | 4613 | 4222 | 5372 | 123 | 21 | 1216 |
| 139 | 22 | 9504 | 2882 | 8261 | 0639 | 1517 | 1396 | 1774 | 2153 | 2531 | 2910 | 3282 | 3667 | 4042 | 4422 | 4884 | 5183 | 5552 | 120 | 22 | 1727 |
| 145 | 23 | 9697 | 0575 | 8453 | 8831 | 1289 | 1587 | 1966 | 2344 | 2723 | 3181 | 3488 | 3852 | 4237 | 4616 | 4995 | 2374 | 5753 | 117 | 23 | 1538 |
| 151 | 24 | 9882 | 5267 | 0645 | 1523 | 1401 | 1779 | 2158 | 2536 | 2914 | 3293 | 3671 | 4050 | 4429 | 4807 | 5186 | 5565 | 5944 | 113 | 24 | 1350 |
| 157 | 25 | 5 2881 | 0459 | 0837 | 1215 | 1593 | 1971 | 2349 | 2728 | 3106 | 3484 | 3863 | 4241 | 4620 | 1998 | 5377 | 5766 | 6135 | 115 | 25 | 5 1161 |
| 164 | 26 | 8274 | 0651 | 1829 | 1407 | 1785 | 2163 | 2541 | 2912 | 3298 | 3676 | 4054 | 4433 | 4811 | 6198 | 5562 | 5947 | 6326 | 187 | 25 | 8272 |
| 170 | 27 | 0466 | 0844 | 1222 | 1529 | 1977 | 2355 | 2733 | 3111 | 3489 | 3858 | 4246 | 4624 | 6003 | 5381 | 5739 | 2138 | 2517 | 104 | 27 | 8784 |
| 176 | 28 | 0659 | 1036 | 1414 | 1792 | 2170 | 2547 | 2925 | 3353 | 3681 | 4569 | 4437 | 4815 | 5194 | 5572 | 3961 | 6329 | 6708 | 101 | 25 | 2526 |
| 182 | 29 | 0852 | 1229 | 1607 | 1984 | 2362 | 2740 | 3117 | 3495 | 3873 | 4261 | 4629 | 5057 | 5385 | 5764 | 6142 | 6525 | 6829 | 98 | 29 | 0486 |
| 199 | 30 | 5 1044 | 1422 | 1729 | 2177 | 2654 | 2232 | 3309 | 3687 | 4565 | 4443 | 4821 | 3199 | 5577 | 5263 | 6333 | 6712 | 7890 | 94 | 30 | 5 0217 |
| 195 | 31 | 1237 | 1614 | 1992 | 2369 | 2747 | 3124 | 3502 | 3879 | 4257 | 4636 | 5013 | 5391 | 5769 | 6146 | 6525 | 6983 | 7281 | 91 | 31 | 0028 |
| 201 | 32 | 1438 | 1887 | 2184 | 2562 | 2939 | 3316 | 3694 | 4071 | 4449 | 4527 | 5286 | 5582 | 3960 | 6338 | 6716 | 7594 | 7472 | 55 | 32 | 5 2839 |
| 288 | 33 | 1623 | 2520 | 2377 | 2754 | 3132 | 3589 | 3886 | 4264 | 4641 | 5019 | 5397 | 5774 | 6162 | 2530 | 6988 | 7286 | 7664 | 95 | 33 | 9652 |
| 214 | 34 | 1816 | 2193 | 2570 | 2947 | 3324 | 3751 | 4279 | 4466 | 4833 | 5211 | 5589 | 5966 | 6344 | 6722 | 7099 | 7477 | 7855 | 52 | 34 | 9421 |
| 220 | 35 | 6 2059 | 2385 | 2763 | 3140 | 3517 | 3824 | 4271 | 4648 | 5026 | 5403 | 5781 | 2158 | 6335 | 5913 | 7291 | 7662 | 8847 | 79 | 33 | 5 9271 |
| 227 | 36 | 2282 | 2579 | 2956 | 3332 | 3789 | 4886 | 4464 | 4841 | 6218 | 5525 | 5973 | 2350 | 6728 | 7103 | 7483 | 7860 | 8238 | 76 | 36 | 2582 |
| 233 | 37 | 2395 | 2772 | 3142 | 3525 | 3902 | 4279 | 4636 | 5833 | 5415 | 5788 | 6163 | 6542 | 5920 | 7297 | 7676 | 5852 | 8430 | 72 | 37 | 8893 |
| 239 | 38 | 2588 | 2965 | 3342 | 3718 | 4895 | 4472 | 4849 | 5226 | 5203 | 6988 | 6357 | 2734 | 7112 | 7489 | 7866 | 8244 | 8621 | 69 | 39 | 8753 |
| 245 | 39 | 2752 | 3158 | 3635 | 3911 | 4288 | 4665 | 5842 | 5418 | 6796 | 6172 | 6549 | 6927 | 7304 | 7681 | 8058 | 2436 | 8813 | 66 | 39 | 8514 |
| 252 | 45 | 5 2975 | 3351 | 3728 | 4154 | 4481 | 4858 | 5234 | 5611 | 5988 | 6366 | 2742 | 7119 | 7496 | 7873 | 8250 | 8628 | 9805 | 63 | 40 | 5 8324 |
| 258 | 41 | 3168 | 3645 | 3221 | 4297 | 4674 | 5051 | 5427 | 6804 | 6181 | 5557 | 2934 | 7311 | 7688 | 8866 | 8442 | 8820 | 9197 | 68 | 41 | 8134 |
| 264 | 42 | 3362 | 3738 | 4114 | 4491 | 4867 | 5244 | 5620 | 6997 | 6373 | 6755 | 7127 | 7554 | 7888 | 8227 | 8634 | 9012 | 9389 | 57 | 42 | 7245 |
| 271 | 43 | 3665 | 3931 | 4308 | 4684 | 5050 | 5437 | 5813 | 2189 | 6566 | 6943 | 7319 | 7296 | 5073 | 8450 | 8827 | 9254 | 9681 | 64 | 43 | 7755 |
| 277 | 44 | 3749 | 4125 | 4681 | 4877 | 5263 | 5630 | 6082 | 6382 | 6759 | 7135 | 7212 | 7589 | 8265 | 8642 | 9019 | 9396 | 9773 | 50 | 44 | 7525 |
| 283 | 46 | 5 3943 | 4318 | 4694 | 5071 | 5447 | 5823 | 2192 | 6575 | 6952 | 7328 | 7785 | 8581 | 8458 | 8831 | 9211 | 9588 | 9965 | 47 | 45 | 5 7375 |
| 289 | 46 | 6 (6) 4136 | 4512 | 4888 | 5264 | 5648 | 6816 | 6322 | 5768 | 7146 | 7521 | 7897 | 8274 | 5650 | 9027 | 9404 | 9780 | 8157 | 44 | 46 | 7185 |
| 296 | 47 | 4338 | 4706 | 5082 | 5427 | 5833 | 6259 | 6585 | 6962 | 7338 | 7714 | 8098 | 8467 | 8843 | 9219 | 9596 | 9973 | 0349 | 41 | 47 | 6295 |
| 302 | 42 | 4624 | 4200 | 3275 | 5651 | 6027 | 6403 | 6772 | 7155 | 7531 | 7907 | 8283 | 5259 | 9035 | 9412 | 9788 | 8166 | 8542 | 35 | 48 | 6805 |
| 308 | 49 | 4718 | 5093 | 5452 | 5845 | 6220 | 6526 | 6972 | 7348 | 7724 | 8150 | 8476 | 8852 | 9225 | 9686 | 9281 | 8357 | 8734 | 35 | 49 | 6615 |
| 315 | 50 | 5 (6) 4912 | 5287 | 5663 | 6038 | 6414 | 6720 | 7165 | 7541 | 7917 | 8293 | 8669 | 9546 | 9421 | 9797 | 8174 | 5558 | 5926 | 31 | 58 | 6 6425 |
| 321 | 51 | 6106 | 5481 | 5857 | 6232 | 6688 | 6983 | 7352 | 7735 | 8115 | 8486 | 8862 | 9238 | 9514 | 9928 | 8366 | 0743 | 1119 | 28 | 61 | 6234 |
| 327 | 52 | 5380 | 5575 | 6061 | 6426 | 6801 | 7177 | 7552 | 7228 | 8304 | 8679 | 9855 | 9431 | 9807 | 8183 | 8559 | 8935 | 1311 | 25 | 52 | 6844 |
| 333 | 53 | 5494 | 5869 | 6246 | 6620 | 6995 | 7370 | 7746 | 8121 | 8497 | 8873 | 9248 | 9624 | 8080 | 0375 | 0752 | 1128 | 1684 | 22 | 53 | 5553 |
| 340 | 54 | 5688 | 6063 | 6439 | 6814 | 7189 | 7364 | 7940 | 8315 | 8692 | 9066 | 2442 | 9817 | 0193 | 5569 | 8946 | 1321 | 1697 | 19 | 54 | 5663 |
| 346 | 55 | 5 (6) 5883 | 6258 | 6633 | 7508 | 7383 | 7758 | 8133 | 8509 | 8884 | 9259 | 9635 | 0811 | 0386 | 0762 | 1138 | 1613 | 1889 | 16 | 55 | 5 5472 |
| 352 | 66 | 6077 | 6452 | 6827 | 7202 | 7577 | 7952 | 8327 | 8752 | 9575 | 9453 | 9528 | 0254 | 0579 | 5956 | 1331 | 1786 | 2882 | 13 | 66 | 5282 |
| 359 | 57 | 5271 | 6546 | 7221 | 7396 | 7771 | 8146 | 8521 | 8826 | 2271 | 9646 | 0022 | 8397 | 0773 | 1148 | 1524 | 1899 | 2275 | 9 | 57 | 5091 |
| 365 | 55 | 6466 | 2841 | 7215 | 7590 | 7965 | 8340 | 8716 | 9890 | 9465 | 9845 | 0215 | 8591 | 0966 | 1341 | 1717 | 2092 | 2468 | 6 | 58 | 4900 |
| 371 | 59 | 6661 | 7535 | 7410 | 7784 | 5169 | 8534 | 8209 | 2283 | 9559 | 0234 | 5409 | 0784 | 1159 | 1535 | 1910 | 2285 | 2661 | 3 | 59 | 4715 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 41° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 41° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 | 1764 | 2145 | 2527 | 2908 | 3290 | 3671 | 4053 | 4435 | 4816 | 5198 | 5500 | 5962 | 6344 | 6726 | 7109 | 7491 | 7873 | 0 | 0′ | 1 5290 |
| 6 | 1 | | 1953 | 2334 | 2716 | 3097 | 3478 | 3860 | 4242 | 4623 | 5005 | 5387 | 5768 | 6150 | 6532 | 6914 | 7997 | 7672 | 8061 | 3 | 1 | 5481 |
| 13 | 2 | | 2142 | 2523 | 2905 | 3286 | 3667 | 4049 | 4430 | 4812 | 5193 | 5575 | 5257 | 6339 | 6721 | 7102 | 7485 | 7866 | 8249 | 6 | 2 | 5672 |
| 19 | 3 | | 2332 | 2713 | 3094 | 3475 | 3856 | 4238 | 4619 | 5000 | 5389 | 5764 | 6145 | 6527 | 6909 | 7221 | 7673 | 8054 | 8436 | 10 | 3 | 5863 |
| 25 | 4 | | 2591 | 2902 | 3983 | 3664 | 4045 | 4427 | 4808 | 5189 | 5571 | 5952 | 6334 | 6715 | 7097 | 7479 | 7861 | 8249 | 8624 | 13 | 4 | 6054 |
| 32 | 5 | 5 | 2711 | 3091 | 3472 | 3853 | 4234 | 4616 | 4997 | 5378 | 5759 | 6141 | 6522 | 6904 | 7285 | 7667 | 8049 | 8430 | 8812 | 16 | 5 | 4 6915 |
| 38 | 6 | | 2900 | 3281 | 3662 | 4043 | 4424 | 4805 | 5186 | 5567 | 5948 | 6329 | 6711 | 7092 | 7474 | 7855 | 8237 | 8618 | 9000 | 19 | 6 | 6437 |
| 44 | 7 | | 3090 | 3470 | 3851 | 4232 | 4613 | 4994 | 5375 | 5756 | 6137 | 6518 | 6899 | 7281 | 7662 | 8044 | 8425 | 8807 | 9188 | 22 | 7 | 6698 |
| 51 | 8 | | 3279 | 3660 | 4041 | 4421 | 4802 | 5183 | 5564 | 5945 | 6326 | 6707 | 7088 | 7469 | 7851 | 8232 | 8613 | 8995 | 9376 | 26 | 8 | 6819 |
| 57 | 9 | | 3469 | 3850 | 4230 | 4611 | 4991 | 5372 | 5753 | 6134 | 6515 | 6896 | 7977 | 7658 | 8039 | 8490 | 8802 | 9183 | 9565 | 99 | 9 | 7011 |
| 63 | 10 | 5 | 3659 | 4039 | 4420 | 4800 | 5181 | 5562 | 5942 | 6323 | 6704 | 7085 | 7466 | 7847 | 8228 | 8609 | 8990 | 9372 | 9753 | 32 | 10 | 4 7202 |
| 70 | 11 | | 3849 | 4929 | 4609 | 4990 | 5370 | 5751 | 6132 | 6519 | 6893 | 7274 | 7655 | 8036 | 8417 | 8798 | 9179 | 9560 | 9941 | 35 | 11 | 7394 |
| 76 | 12 | 5 (6) | 4039 | 4419 | 4799 | 5180 | 5560 | 5940 | 6321 | 6701 | 7089 | 7463 | 7844 | 8224 | 8605 | 8986 | 9367 | 9748 | 0130 | 39 | 12 | 7585 |
| 89 | 13 | | 4929 | 4609 | 4989 | 5369 | 5750 | 6130 | 6510 | 6891 | 7271 | 7652 | 8033 | 8413 | 8794 | 9175 | 9556 | 9937 | 0318 | 42 | 13 | 7777 |
| 88 | 14 | | 4419 | 4799 | 5179 | 5559 | 5939 | 6319 | 6700 | 7081 | 7461 | 7841 | 8292 | 8602 | 8983 | 9364 | 9745 | 0125 | 0506 | 45 | 14 | 7968 |
| 25 | 15 | 5 (6) | 4609 | 4989 | 5369 | 5749 | 6129 | 6509 | 6889 | 7270 | 7550 | 8030 | 8411 | 8791 | 9172 | 9553 | 9933 | 0314 | 0695 | 48 | 15 | 4 8160 |
| 101 | 16 | | 4799 | 5179 | 5559 | 5939 | 6319 | 6699 | 7079 | 7459 | 7839 | 8220 | 8600 | 8980 | 9361 | 9742 | 0192 | 0503 | 0884 | 51 | 16 | 8352 |
| 107 | 17 | | 4989 | 5369 | 5749 | 6129 | 6509 | 6889 | 7969 | 7619 | 8029 | 8409 | 8789 | 9170 | 9550 | 9931 | 0311 | 0692 | 1072 | 55 | 17 | 8544 |
| 114 | 18 | | 5180 | 5559 | 5939 | 6319 | 6699 | 7078 | 7458 | 7838 | 8218 | 8599 | 8979 | 9359 | 9739 | 0120 | 0500 | 0881 | 1961 | 58 | 18 | 8736 |
| 120 | 19 | | 5370 | 5750 | 6129 | 6509 | 6889 | 7268 | 7648 | 8028 | 8408 | 8788 | 9168 | 9548 | 9929 | 0309 | 0689 | 1070 | 1450 | 61 | 19 | 9928 |
| 126 | 20 | 5 (6) | 5561 | 5940 | 6319 | 6699 | 7079 | 7458 | 7838 | 8218 | 8598 | 8978 | 9358 | 9738 | 0118 | 0498 | 0878 | 1259 | 1639 | 64 | 20 | 4 9120 |
| 133 | 21 | | 5751 | 6130 | 6510 | 6889 | 7269 | 7648 | 8028 | 8408 | 8787 | 9167 | 9547 | 9927 | 0307 | 0687 | 1067 | 1448 | 1898 | 68 | 21 | 9319 |
| 139 | 22 | | 5942 | 6321 | 6700 | 7079 | 7459 | 7838 | 8218 | 8597 | 8977 | 9357 | 9737 | 0117 | 0496 | 0876 | 1256 | 1637 | 2017 | 71 | 22 | 9504 |
| 145 | 23 | | 6132 | 6511 | 6890 | 7270 | 7649 | 8029 | 8408 | 8787 | 9167 | 9547 | 9926 | 0306 | 0686 | 1066 | 1446 | 1826 | 2206 | 74 | 23 | 9697 |
| 152 | 24 | | 5393 | 6702 | 7081 | 7460 | 7839 | 8219 | 8598 | 8977 | 9357 | 9736 | 0116 | 0496 | 0875 | 1255 | 1635 | 2015 | 2395 | 77 | 24 | 9889 |
| 158 | 25 | 5 (6) | 6514 | 6893 | 7271 | 7651 | 8030 | 8409 | 8788 | 9168 | 9547 | 9926 | 0306 | 0685 | 1065 | 1445 | 1894 | 2204 | 2584 | 80 | 25 | 5 0081 |
| 164 | 26 | | 6704 | 7083 | 7462 | 7841 | 8220 | 8599 | 8978 | 9358 | 9737 | 0116 | 0496 | 0875 | 1255 | 1634 | 2014 | 9394 | 2773 | 84 | 26 | 0274 |
| 171 | 27 | | 6823 | 7274 | 7653 | 8032 | 8411 | 8790 | 9169 | 9518 | 9927 | 0306 | 0686 | 1065 | 1444 | 1824 | 9203 | 2583 | 2963 | 87 | 27 | 0466 |
| 177 | 28 | | 7086 | 7465 | 7844 | 8293 | 8601 | 8980 | 9359 | 9738 | 0117 | 0496 | 0876 | 1255 | 1634 | 2014 | 2393 | 2773 | 3152 | 90 | 28 | 0659 |
| 183 | 29 | | 7277 | 7656 | 8034 | 8413 | 8722 | 9171 | 9550 | 9928 | 0307 | 0686 | 1066 | 1445 | 1021 | 2203 | 2583 | 2962 | 3342 | 93 | 29 | 8859 |
| 190 | 30 | 5 (6) | 7468 | 7847 | 8225 | 8604 | 8982 | 9361 | 9740 | 0119 | 0498 | 0877 | 1956 | 1635 | 2014 | 2393 | 2779 | 3152 | 3531 | 96 | 30 | 5 1044 |
| 196 | 31 | | 7659 | 8038 | 8416 | 8795 | 9173 | 9559 | 9931 | 0309 | 0688 | 1067 | 1446 | 1895 | 2904 | 2583 | 2962 | 3341 | 3721 | 100 | 31 | 1237 |
| 202 | 32 | | 7851 | 8229 | 8607 | 8986 | 9364 | 9743 | 0191 | 0500 | 0878 | 1257 | 1636 | 2015 | 2394 | 2773 | 3152 | 3531 | 3910 | 103 | 32 | 1430 |
| 209 | 33 | | 8049 | 8420 | 8798 | 9177 | 9555 | 9933 | 0312 | 0690 | 1069 | 1448 | 1826 | 2205 | 2584 | 2963 | 3342 | 3721 | 4100 | 106 | 33 | 1623 |
| 215 | 34 | | 0933 | 8611 | 8989 | 9368 | 9746 | 0194 | 0502 | 0881 | 1259 | 1638 | 2017 | 2395 | 2774 | 3153 | 3532 | 3911 | 4290 | 109 | 34 | 1816 |
| 221 | 35 | 5 (6) | 8425 | 8802 | 9181 | 9559 | 9937 | 0315 | 0693 | 1072 | 1450 | 1828 | 2207 | 2586 | 2964 | 3343 | 3722 | 4101 | 4180 | 113 | 35 | 5 2009 |
| 227 | 36 | | 8616 | 8994 | 9372 | 9750 | 0128 | 0506 | 0884 | 1262 | 1641 | 2019 | 2397 | 2776 | 3155 | 3533 | 3912 | 4291 | 4669 | 116 | 36 | 2202 |
| 234 | 37 | | 8808 | 9185 | 9563 | 9941 | 0319 | 0697 | 1075 | 1453 | 1831 | 2210 | 9580 | 2966 | 3345 | 3723 | 4102 | 4481 | 4859 | 119 | 37 | 2395 |
| 240 | 38 | | 8999 | 2377 | 9754 | 0139 | 0510 | 0888 | 1966 | 1644 | 2022 | 2400 | 2772 | 3157 | 3535 | 3914 | 4292 | 4671 | 5049 | 122 | 38 | 2588 |
| 245 | 39 | | 9191 | 9568 | 9946 | 0324 | 0701 | 1079 | 1457 | 1835 | 2213 | 2591 | 2962 | 3347 | 3726 | 4104 | 4482 | 4861 | 5239 | 195 | 39 | 2782 |
| 253 | 40 | 5 (6) | 9389 | 9760 | 0137 | 0515 | 0893 | 1270 | 1648 | 2096 | 2404 | 2782 | 3160 | 3538 | 3916 | 4294 | 4673 | 3051 | 5130 | 129 | 40 | 5 2975 |
| 259 | 41 | | 2574 | 9952 | 0329 | 0706 | 1084 | 1462 | 1839 | 2917 | 2595 | 2973 | 3351 | 3799 | 4107 | 4485 | 4863 | 5941 | 5620 | 132 | 41 | 3168 |
| 265 | 42 | | 9766 | 0143 | 0521 | 0898 | 1975 | 1653 | 2031 | 9408 | 2786 | 3164 | 3542 | 3919 | 4297 | 4675 | 5054 | 5439 | 5810 | 135 | 42 | 3362 |
| 272 | 43 | | 9958 | 0335 | 0712 | 1090 | 1467 | 1844 | 2222 | 2599 | 2977 | 3355 | 3732 | 4110 | 4488 | 4866 | 5244 | 5622 | 6000 | 138 | 43 | 3555 |
| 278 | 44 | 6 | 0150 | 0527 | 0904 | 1281 | 1658 | 2036 | 2413 | 2791 | 3168 | 3546 | 3923 | 4301 | 4679 | 5057 | 5435 | 5313 | 6191 | 141 | 44 | 3749 |
| 284 | 45 | 6 | 0349 | 0719 | 1096 | 1473 | 1850 | 2227 | 2605 | 2982 | 3359 | 3737 | 4114 | 4492 | 4870 | 5248 | 5625 | 6003 | 6381 | 145 | 45 | 5 3943 |
| 291 | 48 | | 0534 | 0911 | 1288 | 1665 | 2042 | 2419 | 2796 | 3173 | 3551 | 3928 | 4306 | 4683 | 5061 | 5438 | 5816 | 6194 | 6572 | 148 | 46 | 4136 |
| 297 | 47 | | 0726 | 1103 | 1480 | 1857 | 2934 | 2611 | 2988 | 3365 | 3742 | 4119 | 4497 | 4874 | 5252 | 5699 | 6007 | 6384 | 6762 | 151 | 47 | 4330 |
| 303 | 48 | | 0918 | 1295 | 1672 | 2048 | 2425 | 2802 | 3179 | 3556 | 3933 | 4311 | 4688 | 5065 | 5443 | 5820 | 6198 | 6575 | 6953 | 154 | 48 | 4524 |
| 310 | 49 | | 1110 | 1487 | 1864 | 2240 | 2617 | 2994 | 3371 | 3748 | 4125 | 4509 | 4879 | 5256 | 5634 | 6011 | 6388 | 6756 | 7143 | 158 | 49 | 4718 |
| 316 | 50 | 6 | 1303 | 1679 | 2056 | 2432 | 2809 | 3186 | 3563 | 3940 | 4316 | 4693 | 5071 | 5448 | 5825 | 6202 | 6579 | 6957 | 7334 | 161 | 50 | 5 4912 |
| 322 | 51 | | 1495 | 1872 | 2248 | 2625 | 3001 | 3378 | 3754 | 4131 | 4508 | 4885 | 5262 | 5639 | 6016 | 6393 | 6770 | 7148 | 7525 | 164 | 51 | 5106 |
| 329 | 52 | | 1688 | 2064 | 2440 | 2817 | 3193 | 3570 | 3946 | 4323 | 4700 | 5077 | 5453 | 5830 | 6207 | 6584 | 6961 | 7339 | 7716 | 167 | 52 | 5300 |
| 335 | 53 | | 1880 | 2256 | 2633 | 3009 | 3385 | 3762 | 4138 | 4515 | 4891 | 5268 | 5645 | 6022 | 6399 | 6776 | 7153 | 7530 | 7907 | 170 | 53 | 5494 |
| 341 | 54 | | 2073 | 2449 | 2825 | 3201 | 3578 | 3954 | 4330 | 4707 | 5083 | 5460 | 5836 | 6213 | 6590 | 6967 | 7344 | 7721 | 8098 | 174 | 54 | 5688 |
| 347 | 55 | 6 | 2265 | 2641 | 3017 | 3393 | 3770 | 4146 | 4522 | 4899 | 5275 | 5652 | 6028 | 6405 | 6781 | 7158 | 7535 | 7912 | 8289 | 177 | 55 | 5 5883 |
| 354 | 56 | | 2458 | 2834 | 3210 | 3586 | 3962 | 4338 | 4714 | 5091 | 5467 | 5843 | 6220 | 6596 | 6973 | 7350 | 7726 | 8103 | 8480 | 180 | 56 | 6077 |
| 360 | 57 | | 2651 | 3027 | 3402 | 3778 | 4154 | 4530 | 4907 | 5283 | 5659 | 6035 | 6412 | 6788 | 7165 | 7541 | 7918 | 8294 | 8671 | 183 | 57 | 6272 |
| 366 | 58 | | 2844 | 3219 | 3595 | 3971 | 4347 | 4723 | 5099 | 5475 | 5851 | 6227 | 6603 | 6280 | 7356 | 7733 | 8109 | 8486 | 8862 | 187 | 58 | 6456 |
| 373 | 59 | | 3036 | 3412 | 3788 | 4163 | 4539 | 4915 | 5221 | 5667 | 6043 | 6419 | 6795 | 7171 | 7548 | 7924 | 8301 | 8677 | 9034 | 190 | 59 | 6661 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar | 42° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 42° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 5 (6) | 6835 | 7230 | 7604 | 7979 | 8353 | 8720 | 9103 | 9478 | 2853 | 0227 | 0602 | 0978 | 1353 | 1720 | 2103 | 2472 | 2854 | 123 | 0' | 0 4512 |
| 6 | 1 | | 7050 | 7424 | 7799 | 8173 | 8540 | 8922 | 9297 | 0672 | 0040 | 0421 | 0725 | 1171 | 1546 | 1221 | 2296 | 2672 | 3047 | 120 | 1 | 4328 |
| 12 | 2 | | 7245 | 7019 | 7993 | 8367 | 8749 | 9115 | 9421 | 9866 | 0240 | 0615 | 0920 | 1305 | 1740 | 2115 | 2490 | 2805 | 3240 | 107 | 2 | 4137 |
| 19 | 3 | | 7439 | 7014 | 8188 | 8562 | 8936 | 9311 | 9685 | 0060 | 0434 | 0809 | 1101 | 1559 | 1233 | 2308 | 2603 | 3058 | 3433 | 103 | 3 | 6916 |
| 25 | 4 | | 7634 | 8008 | 8302 | 8757 | 9131 | 9505 | 9879 | 0954 | 0628 | 1003 | 1378 | 1752 | 2127 | 2502 | 2077 | 3262 | 3627 | 180 | 4 | 6755 |
| 31 | 5 | 5 (6) | 7829 | 8203 | 8577 | 0951 | 9325 | 9700 | 0074 | 0448 | 0823 | 1107 | 1572 | 1945 | 2321 | 2090 | 3070 | 3445 | 3820 | 177 | 5 | 5 3553 |
| 37 | 6 | | 8024 | 8398 | 0772 | 9146 | 9520 | 9894 | 0268 | 0642 | 1017 | 1391 | 1706 | 9140 | 2615 | 2689 | 3204 | 3630 | 4013 | 174 | 0 | 6372 |
| 43 | 7 | | 0219 | 8523 | 8967 | 9341 | 9715 | 0089 | 0463 | 0037 | 1211 | 1505 | 1900 | 9334 | 2708 | 3083 | 3458 | 3832 | 4207 | 170 | 7 | 6181 |
| 50 | 0 | | 0114 | 8788 | 9162 | 9535 | 9202 | 0283 | 0657 | 1031 | 1405 | 1700 | 9154 | 2628 | 2902 | 3977 | 3051 | 4026 | 4400 | 167 | 8 | 2909 |
| 56 | 9 | | 8609 | 8983 | 0357 | 9730 | 0104 | 0478 | 0852 | 1226 | 1600 | 1974 | 2348 | 9722 | 3096 | 3471 | 3845 | 4220 | 4594 | 164 | 9 | 2798 |
| 62 | 10 | 5 (6) | 0805 | 2170 | 9552 | 9225 | 0292 | 0673 | 1046 | 1420 | 1794 | 2168 | 2542 | 2916 | 3290 | 3065 | 4039 | 4413 | 4708 | 161 | 10 | 5 2600 |
| 68 | 11 | | 9000 | 9373 | 9747 | 0120 | 0494 | 0067 | 1241 | 1615 | 1989 | 2363 | 2730 | 3111 | 3406 | 3802 | 4233 | 4607 | 4981 | 158 | 11 | 2415 |
| 74 | 12 | | 9196 | 9562 | 9942 | 0316 | 0609 | 1062 | 1436 | 1810 | 2183 | 2557 | 2931 | 3305 | 3679 | 4053 | 4427 | 4801 | 5175 | 151 | 12 | 2923 |
| 01 | 13 | | 9391 | 9764 | 0137 | 0510 | 0884 | 1257 | 1631 | 2004 | 2378 | 2752 | 3125 | 3492 | 3873 | 4247 | 4621 | 4995 | 5369 | 151 | 13 | 2032 |
| 87 | 14 | | 9586 | 9952 | 0332 | 0706 | 1079 | 1452 | 1826 | 2199 | 2573 | 2916 | 3320 | 3694 | 4067 | 4441 | 1015 | 5109 | 5663 | 148 | 14 | 1840 |
| 93 | 15 | 5 (6) | 9782 | 0155 | 0528 | 0901 | 1274 | 1647 | 2021 | 2394 | 2707 | 3141 | 3514 | 3088 | 4262 | 4635 | 6009 | 5383 | 5757 | 145 | 15 | 5 1640 |
| 99 | 16 | | 9977 | 0350 | 0723 | 1096 | 1469 | 1042 | 2210 | 2589 | 2962 | 3336 | 3709 | 4003 | 4456 | 4030 | 6203 | 5577 | 5961 | 141 | 16 | 1456 |
| 105 | 17 | 6 | 0173 | 0646 | 0919 | 1292 | 1665 | 2038 | 2411 | 2784 | 3157 | 3530 | 3204 | 4277 | 4651 | 5924 | 5398 | 5771 | 6145 | 138 | 17 | 1264 |
| 112 | 18 | | 0369 | 0749 | 1114 | 1487 | 1860 | 2233 | 2606 | 2979 | 3352 | 3725 | 4098 | 4472 | 4045 | 5219 | 6592 | 5966 | 5339 | 135 | 18 | 1072 |
| 118 | 19 | | 0565 | 0937 | 1310 | 1683 | 2055 | 2128 | 2801 | 3174 | 3547 | 3920 | 4293 | 4666 | 5040 | 5413 | 5706 | 6160 | 5533 | 139 | 12 | 0880 |
| 124 | 20 | 6 | 0761 | 1133 | 1506 | 1878 | 9951 | 2694 | 2996 | 3369 | 3742 | 1115 | 4488 | 4861 | 5234 | 5608 | 6901 | 6351 | 6728 | 129 | 26 | 5 0688 |
| 130 | 21 | | 0950 | 1329 | 1701 | 2074 | 2446 | 2812 | 3192 | 3564 | 3937 | 4310 | 4683 | 5056 | 5429 | 5002 | 6176 | 6549 | 0022 | 125 | 21 | 6496 |
| 136 | 22 | | 1152 | 1595 | 1097 | 2269 | 2642 | 3015 | 3387 | 3760 | 4132 | 4505 | 4870 | 5251 | 5624 | 5997 | 6370 | 6743 | 7117 | 122 | 22 | 6303 |
| 143 | 23 | | 1348 | 1721 | 2093 | 2465 | 2838 | 3210 | 3583 | 3955 | 4398 | 4700 | 5073 | 5440 | 5819 | 6199 | 5566 | 6930 | 7311 | 119 | 26 | 0111 |
| 149 | 24 | | 1545 | 1917 | 9289 | 2661 | 3033 | 3406 | 3770 | 4161 | 4523 | 4896 | 5260 | 5641 | 6014 | 6387 | 6760 | 7132 | 7505 | 116 | 24 | 4 9919 |
| 165 | 26 | 6 | 1741 | 2113 | 2405 | 2857 | 3229 | 3601 | 3974 | 4316 | 4718 | 5091 | 5463 | 5836 | 6209 | 6502 | 6954 | 7327 | 7700 | 113 | 25 | 4 9725 |
| 161 | 26 | | 1937 | 2309 | 2601 | 3053 | 3425 | 3797 | 4169 | 4542 | 4914 | 5286 | 5659 | 6031 | 6104 | 6776 | 7142 | 7522 | 7025 | 109 | 26 | 9534 |
| 167 | 27 | | 2133 | 2605 | 2877 | 3249 | 3621 | 3993 | 4365 | 4737 | 5109 | 6482 | 5861 | 6297 | 6599 | 6971 | 7344 | 7717 | 8090 | 106 | 27 | 9341 |
| 174 | 28 | | 2330 | 2701 | 3073 | 3445 | 3817 | 4189 | 4561 | 4933 | 5305 | 5677 | 6049 | 6422 | 6794 | 7167 | 7639 | 7912 | 0284 | 103 | 20 | 9148 |
| 100 | 29 | | 2526 | 2090 | 3269 | 3641 | 4013 | 4385 | 4757 | 5129 | 5501 | 3873 | 6245 | 6617 | 5909 | 7362 | 7734 | 8107 | 0470 | 100 | 29 | 8956 |
| 186 | 30 | 6 | 2723 | 3094 | 3466 | 3837 | 4209 | 4581 | 4952 | 5324 | 5696 | 6060 | 6440 | 6812 | 7105 | 7557 | 7922 | 8309 | 8674 | 96 | 30 | 1 8763 |
| 192 | 31 | | 2919 | 3291 | 3662 | 4034 | 4405 | 4777 | 6140 | 5520 | 5899 | 6261 | 6636 | 7000 | 7380 | 7752 | 8124 | 8497 | 8869 | 93 | 31 | 8570 |
| 198 | 32 | | 3116 | 3407 | 2858 | 4230 | 4601 | 4973 | 5345 | 5716 | 6088 | 6460 | 6862 | 7904 | 7575 | 7947 | 0320 | 8602 | 9061 | 20 | 32 | 8377 |
| 905 | 36 | | 6312 | 3604 | 4055 | 4426 | 4798 | 5169 | 5541 | 5912 | 6284 | 6655 | 7027 | 7399 | 7771 | 8143 | 8515 | 8887 | 9259 | 67 | 33 | 8184 |
| 211 | 34 | | 3509 | 3880 | 4251 | 4623 | 4994 | 5365 | 5737 | 6108 | 6480 | 6051 | 7223 | 7596 | 7966 | 8338 | 0710 | 9082 | 2454 | 64 | 34 | 7591 |
| 217 | 35 | 6 | 3706 | 4077 | 4448 | 4019 | 6190 | 5569 | 5933 | 6304 | 6676 | 7047 | 7419 | 7790 | 0162 | 8634 | 0906 | 9278 | 9649 | 60 | 35 | 4 7798 |
| 223 | 36 | | 3903 | 4274 | 4645 | 5016 | 5367 | 5750 | 6129 | 6501 | 6072 | 7243 | 7015 | 7986 | 8350 | 8799 | 9101 | 9473 | 9845 | 77 | 36 | 7605 |
| 229 | 37 | 6 (7) | 4100 | 4471 | 4041 | 5212 | 5683 | 5954 | 6326 | 6697 | 7068 | 7439 | 7011 | 8102 | 8553 | 8926 | 9997 | 9660 | 0040 | 74 | 67 | 7412 |
| 236 | 38 | | 4297 | 4667 | 5038 | 5409 | 5700 | 6151 | 6592 | 6893 | 7964 | 7635 | 8007 | 0378 | 8749 | 9121 | 2492 | 9864 | 0235 | 71 | 38 | 7218 |
| 249 | 39 | | 4194 | 4004 | 5935 | 5606 | 6977 | 6347 | 6718 | 7009 | 7460 | 7831 | 8203 | 8574 | 8945 | 9317 | 9680 | 0059 | 0431 | 68 | 39 | 7025 |
| 240 | 40 | 6 (7) | 4691 | 5061 | 5432 | 5003 | 6173 | 6544 | 6215 | 7286 | 7657 | 0028 | 8399 | 8770 | 9141 | 9512 | 9084 | 0255 | 0620 | 64 | 40 | 4 6832 |
| 254 | 41 | | 4888 | 5259 | 5629 | 6000 | 6370 | 6741 | 7111 | 7482 | 7853 | 8924 | 8596 | 8966 | 9337 | 9708 | 0079 | 0451 | 0822 | 61 | 41 | 6638 |
| 260 | 42 | | 5005 | 5456 | 5826 | 6196 | 6567 | 6937 | 7300 | 7679 | 6050 | 8490 | 8791 | 9162 | 9533 | 9904 | 9275 | 0646 | 1018 | 58 | 42 | 6445 |
| 267 | 43 | | 5282 | 5653 | 6023 | 6393 | 6764 | 7134 | 7505 | 7075 | 0246 | 8617 | 8900 | 2358 | 9729 | 0100 | 0471 | 0849 | 1213 | 05 | 43 | 6251 |
| 273 | 44 | | 5480 | 5860 | 6920 | 6596 | 6961 | 7331 | 7702 | 0072 | 8443 | 8813 | 9184 | 9565 | 9995 | 0296 | 0667 | 1038 | 1409 | 51 | 44 | 6057 |
| 279 | 45 | 6 (7) | 5677 | 6047 | 6417 | 6788 | 7158 | 7520 | 7098 | 0209 | 8639 | 9010 | 9380 | 9751 | 0192 | 0492 | 0863 | 1234 | 1605 | 48 | 45 | 4 5861 |
| 285 | 46 | | 6876 | 6245 | 6615 | 6985 | 7355 | 7726 | 8095 | 8466 | 8836 | 9206 | 9577 | 9947 | 0318 | 0689 | 1059 | 1430 | 1801 | 46 | 40 | 5670 |
| 291 | 47 | | 6072 | 6442 | 6812 | 7102 | 7552 | 7922 | 8292 | 8663 | 9033 | 9403 | 9773 | 0144 | 0514 | 0885 | 1255 | 1626 | 1997 | 42 | 47 | 5476 |
| 298 | 46 | | 6276 | 6610 | 7010 | 7379 | 7749 | 0119 | 8189 | 0860 | 9930 | 2600 | 9270 | 0340 | 0711 | 1081 | 1452 | 1022 | 2193 | 39 | 48 | 5289 |
| 304 | 49 | | 6468 | 6837 | 7207 | 7577 | 7947 | 8316 | 8686 | 9067 | 9420 | 2797 | 0167 | 0537 | 0907 | 1278 | 1648 | 2018 | 2389 | 35 | 42 | 5088 |
| 310 | 50 | 6 (7) | 6666 | 7035 | 7405 | 7774 | 0144 | 8514 | 8884 | 9254 | 9693 | 9993 | 0363 | 0734 | 1104 | 1474 | 1844 | 2215 | 2585 | 32 | 69 | 4 4894 |
| 316 | 51 | | 6863 | 7233 | 7602 | 7972 | 0341 | 8711 | 9081 | 9451 | 9820 | 0190 | 0560 | 0930 | 1300 | 1670 | 2041 | 2411 | 2701 | 29 | 61 | 4700 |
| 622 | 02 | | 7061 | 7430 | 7800 | 8169 | 8539 | 8908 | 9278 | 9648 | 0017 | 0387 | 0757 | 1197 | 1497 | 1667 | 2237 | 2608 | 2978 | 26 | 52 | 4006 |
| 629 | 53 | | 7259 | 7028 | 7228 | 0367 | 8736 | 9105 | 9475 | 9846 | 0215 | 0584 | 0954 | 1324 | 1694 | 2064 | 2134 | 2004 | 3174 | 22 | 53 | 4312 |
| 335 | 54 | | 7457 | 7826 | 8125 | 8565 | 8934 | 9303 | 9673 | 0042 | 0412 | 0781 | 1151 | 1621 | 1690 | 2960 | 2630 | 3009 | 3370 | 19 | 54 | 4117 |
| 641 | 55 | 6 (7) | 7655 | 0024 | 0393 | 0762 | 9131 | 9591 | 9876 | 0239 | 0609 | 0978 | 1348 | 1718 | 2087 | 2457 | 2827 | 3197 | 3567 | 16 | 55 | 4 3923 |
| 347 | 56 | | 7853 | 0222 | 0521 | 6960 | 0329 | 9698 | 0068 | 0437 | 0606 | 1176 | 1540 | 1915 | 2284 | 2654 | 3024 | 3393 | 3763 | 13 | 56 | 3720 |
| 653 | 57 | | 8051 | 8420 | 8709 | 9150 | 9527 | 9096 | 0265 | 0534 | 1004 | 1373 | 1742 | 2112 | 2461 | 2051 | 3220 | 3590 | 3900 | 10 | 57 | 3534 |
| 360 | 58 | | 8250 | 8610 | 8987 | 9356 | 9725 | 9094 | 0463 | 0832 | 1201 | 1570 | 1939 | 2309 | 2670 | 3048 | 3417 | 3787 | 4156 | 6 | 58 | 3339 |
| 656 | 59 | | 6440 | 8817 | 9166 | 9554 | 9923 | 0292 | 0661 | 1029 | 1398 | 1760 | 2137 | 2506 | 2075 | 3245 | 3614 | 3984 | 4353 | 6 | 59 | 3145 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar | 42° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6′ | 6 | 3229 | 3665 | 3906 | 4356 | 4739 | 5108 | 5483 | 5859 | 6235 | 6611 | 6987 | 7363 | 7740 | 8116 | 6492 | 6862 | 9245 |
| 6 | 1 | | 3422 | 3790 | 4173 | 4549 | 4924 | 5300 | 5676 | 6052 | 6427 | 6803 | 7179 | 7555 | 7931 | 8308 | 8684 | 9060 | 9430 |
| 12 | 2 | | 3615 | 3991 | 4366 | 4742 | 5117 | 5493 | 5860 | 6244 | 6620 | 6996 | 7371 | 7747 | 8123 | 8499 | 8876 | 9252 | 9028 |
| 19 | 3 | | 3809 | 4184 | 4559 | 4934 | 5310 | 5685 | 6061 | 6436 | 6812 | 7188 | 7564 | 7939 | 8315 | 8691 | 9067 | 9443 | 9819 |
| 25 | 4 | 6 (7) | 4602 | 4377 | 4752 | 5127 | 5503 | 5878 | 6253 | 6629 | 7004 | 7380 | 7756 | 8132 | 8507 | 8883 | 9259 | 9635 | 0011 |
| 31 | 5 | 6 (7) | 4195 | 4570 | 4945 | 5320 | 5695 | 6071 | 6446 | 6821 | 7197 | 7572 | 7948 | 8324 | 8699 | 9075 | 9451 | 9827 | 0203 |
| 37 | 6 | | 4388 | 4763 | 5138 | 5513 | 5088 | 6264 | 6639 | 7014 | 7389 | 7765 | 8140 | 8510 | 8891 | 9207 | 2643 | 0019 | 0395 |
| 44 | 7 | | 4502 | 4956 | 5331 | 5706 | 6081 | 6456 | 6832 | 7207 | 7582 | 7957 | 8333 | 8708 | 9084 | 9459 | 9835 | 0211 | 0586 |
| 50 | 6 | | 4775 | 5150 | 5525 | 5899 | 6274 | 6649 | 7024 | 7400 | 7775 | 8150 | 8525 | 8901 | 9276 | 9651 | 0027 | 0403 | 0778 |
| 56 | 9 | | 4969 | 5343 | 5718 | 6093 | 6467 | 6842 | 7217 | 7592 | 7907 | 8342 | 8718 | 9093 | 9468 | 9844 | 0219 | 0595 | 0970 |
| 62 | 10 | 6 (7) | 5162 | 5537 | 5911 | 6286 | 6661 | 7035 | 7410 | 7785 | 8160 | 8535 | 8910 | 9285 | 9661 | 0036 | 0411 | 0787 | 1162 |
| 68 | 11 | | 5356 | 5730 | 6105 | 6479 | 6854 | 7229 | 7603 | 7978 | 8353 | 8728 | 9103 | 9478 | 9853 | 0228 | 0604 | 0979 | 1354 |
| 75 | 12 | | 5549 | 5924 | 6298 | 6673 | 7047 | 7422 | 7796 | 8171 | 8546 | 8921 | 9296 | 9671 | 0046 | 0421 | 0790 | 1171 | 1546 |
| 61 | 13 | | 5743 | 6117 | 6492 | 6866 | 7241 | 7615 | 7990 | 8364 | 8739 | 9114 | 9488 | 9863 | 0238 | 0613 | 0908 | 1363 | 1738 |
| 67 | 14 | | 5937 | 6311 | 6685 | 7060 | 7434 | 7808 | 8183 | 8557 | 8932 | 9306 | 9681 | 0056 | 0431 | 0806 | 1181 | 1556 | 1931 |
| 93 | 15 | 6 (7) | 6131 | 6505 | 6879 | 7253 | 7627 | 8002 | 8376 | 8750 | 9125 | 9499 | 9874 | 0249 | 0623 | 0998 | 1373 | 1748 | 2123 |
| 160 | 16 | | 6325 | 6699 | 7673 | 7447 | 7821 | 8195 | 8569 | 8944 | 9318 | 9693 | 0067 | 0442 | 0816 | 1191 | 1566 | 1940 | 2315 |
| 106 | 17 | | 6519 | 6893 | 7267 | 7641 | 8015 | 8389 | 8763 | 9137 | 9511 | 9886 | 0260 | 0634 | 1009 | 1383 | 1758 | 2133 | 2508 |
| 112 | 18 | | 6713 | 7087 | 7460 | 7834 | 8208 | 8582 | 8956 | 9330 | 9705 | 0079 | 0453 | 0827 | 1202 | 1576 | 1951 | 2326 | 2700 |
| 118 | 19 | | 6907 | 7281 | 7654 | 8028 | 8402 | 8776 | 9150 | 9594 | 9898 | 0272 | 0640 | 1020 | 1395 | 1769 | 2144 | 2518 | 2893 |
| 124 | 20 | 6 (7) | 7101 | 7475 | 7848 | 8222 | 8596 | 8970 | 9343 | 9717 | 0091 | 0465 | 0039 | 1214 | 1588 | 1962 | 2336 | 2711 | 3085 |
| 131 | 21 | | 7290 | 7669 | 8042 | 8416 | 8790 | 9103 | 9537 | 9911 | 0285 | 0659 | 1033 | 1407 | 1781 | 2155 | 2529 | 2904 | 3270 |
| 137 | 22 | | 7490 | 7863 | 8237 | 8610 | 8984 | 9357 | 9731 | 0104 | 0478 | 0852 | 1226 | 1600 | 1974 | 2340 | 2722 | 3096 | 3471 |
| 143 | 23 | | 7684 | 8057 | 0431 | 8804 | 9178 | 9551 | 9925 | 0298 | 0672 | 1046 | 1419 | 1793 | 2167 | 2541 | 2915 | 3289 | 3664 |
| 149 | 24 | | 7879 | 8252 | 0625 | 8998 | 9372 | 9745 | 0118 | 0492 | 0865 | 1939 | 1613 | 1987 | 2360 | 2734 | 3106 | 3482 | 3856 |
| 156 | 25 | 6 (7) | 8073 | 8446 | 8819 | 9192 | 9566 | 9939 | 0312 | 0686 | 1059 | 1433 | 1806 | 2180 | 2554 | 2920 | 3301 | 3675 | 4049 |
| 102 | 26 | | 8200 | 8641 | 9014 | 9387 | 9760 | 0133 | 0506 | 0880 | 1253 | 1626 | 2000 | 2373 | 2747 | 3121 | 3495 | 3868 | 4242 |
| 108 | 27 | | 8162 | 8835 | 9208 | 9501 | 9954 | 0327 | 0700 | 1074 | 1447 | 1820 | 2194 | 2567 | 2941 | 3314 | 3688 | 4061 | 4435 |
| 174 | 28 | | 8657 | 9030 | 9402 | 9775 | 0148 | 0521 | 0894 | 1268 | 1641 | 2014 | 2387 | 2761 | 3134 | 3508 | 3001 | 4255 | 4628 |
| 181 | 29 | | 8852 | 9224 | 9597 | 9970 | 0343 | 0716 | 1089 | 1462 | 1035 | 2208 | 2581 | 2954 | 3320 | 3701 | 4074 | 4448 | 4022 |
| 107 | 30 | 6 (7) | 9046 | 9419 | 9792 | 0164 | 0537 | 0910 | 1283 | 1656 | 2029 | 2402 | 2775 | 3148 | 3521 | 3895 | 4268 | 4641 | 5015 |
| 193 | 31 | | 9241 | 9614 | 9986 | 0359 | 0732 | 1104 | 1477 | 1850 | 2223 | 2596 | 2969 | 3342 | 3715 | 4088 | 4461 | 4835 | 5208 |
| 199 | 32 | | 9436 | 9809 | 0181 | 0554 | 0926 | 1999 | 1671 | 2044 | 2417 | 2790 | 3163 | 3536 | 3909 | 4282 | 4655 | 5028 | 5401 |
| 205 | 33 | | 9631 | 0004 | 0376 | 0748 | 1121 | 1493 | 1866 | 2238 | 2611 | 2984 | 3357 | 3730 | 4102 | 4475 | 4848 | 5222 | 5595 |
| 212 | 34 | | 9826 | 0199 | 0571 | 0943 | 1315 | 1688 | 2060 | 2433 | 2805 | 3178 | 3551 | 3924 | 4296 | 4669 | 5042 | 5415 | 5788 |
| 918 | 35 | 7 | 0021 | 0394 | 0766 | 1138 | 1510 | 1882 | 2255 | 2627 | 3000 | 3372 | 3745 | 4118 | 4490 | 4863 | 5236 | 5609 | 5982 |
| 224 | 36 | | 0217 | 0589 | 0961 | 1333 | 1705 | 2077 | 2449 | 2822 | 3194 | 3566 | 3939 | 4312 | 4684 | 5057 | 5430 | 5802 | 6175 |
| 230 | 37 | | 6412 | 0784 | 1156 | 1528 | 1900 | 2272 | 2644 | 3016 | 3388 | 3761 | 4133 | 4506 | 4878 | 5251 | 5023 | 5996 | 6369 |
| 237 | 38 | | 0607 | 0979 | 1351 | 1723 | 2095 | 2467 | 2839 | 3211 | 3583 | 3955 | 4328 | 4700 | 5079 | 5445 | 5817 | 6190 | 6563 |
| 243 | 39 | | 0603 | 1174 | 1546 | 1918 | 2290 | 2661 | 3033 | 3405 | 3777 | 4156 | 4522 | 4094 | 5200 | 5639 | 6011 | 6384 | 6756 |
| 242 | 40 | 7 | 6998 | 1370 | 1741 | 2113 | 2485 | 2856 | 3228 | 3600 | 3972 | 4344 | 4716 | 5088 | 5461 | 5833 | 6205 | 6578 | 6950 |
| 255 | 41 | | 1193 | 1565 | 1936 | 2308 | 2680 | 3051 | 3423 | 3795 | 4167 | 4539 | 4911 | 5283 | 5655 | 6027 | 6399 | 6772 | 7144 |
| 261 | 42 | | 1389 | 1760 | 2132 | 2503 | 2875 | 3246 | 3618 | 3990 | 4362 | 4733 | 5105 | 5477 | 5849 | 6221 | 6594 | 6966 | 7338 |
| 260 | 43 | | 1585 | 1956 | 2327 | 2699 | 3070 | 3442 | 3813 | 4185 | 4556 | 4928 | 5300 | 5672 | 6044 | 6416 | 6788 | 7100 | 7532 |
| 274 | 44 | | 1780 | 2151 | 2523 | 2894 | 3265 | 3637 | 4000 | 4380 | 4751 | 5123 | 5495 | 5866 | 6238 | 6610 | 6982 | 7354 | 7726 |
| 280 | 45 | 7 | 1970 | 2347 | 2718 | 3089 | 3461 | 3832 | 4203 | 4575 | 4946 | 5318 | 5689 | 6061 | 6433 | 6805 | 7176 | 7540 | 7920 |
| 206 | 46 | | 2172 | 2543 | 2914 | 3285 | 3656 | 4027 | 4398 | 4770 | 5141 | 5513 | 5884 | 0250 | 6627 | 6999 | 7371 | 7743 | 8114 |
| 293 | 47 | | 2368 | 2739 | 3109 | 3480 | 3851 | 4223 | 4594 | 4965 | 5336 | 5708 | 6079 | 0450 | 6822 | 7194 | 7565 | 7937 | 8309 |
| 222 | 48 | | 2564 | 2234 | 3305 | 3676 | 4047 | 4418 | 4789 | 5160 | 5531 | 5903 | 6274 | 6645 | 7017 | 7388 | 7760 | 8131 | 8503 |
| 305 | 49 | | 2760 | 3130 | 3501 | 3072 | 4243 | 4613 | 4984 | 5355 | 5726 | 6098 | 6469 | 0840 | 7211 | 7583 | 7954 | 8326 | 8697 |
| 311 | 56 | 7 | 2956 | 3326 | 3697 | 4067 | 4438 | 4809 | 5180 | 5551 | 5922 | 0293 | 0664 | 7035 | 7406 | 7770 | 8149 | 8520 | 8892 |
| 317 | 51 | | 3152 | 3522 | 3893 | 4263 | 4634 | 5005 | 5375 | 5746 | 6117 | 0488 | 6859 | 7230 | 7601 | 7272 | 8344 | 8715 | 9086 |
| 324 | 52 | | 3340 | 3718 | 4089 | 4459 | 4830 | 5200 | 5571 | 5942 | 6312 | 6603 | 7054 | 7425 | 7796 | 8167 | 8538 | 8910 | 9281 |
| 330 | 53 | | 3544 | 3914 | 4285 | 4655 | 5025 | 5396 | 5766 | 6137 | 6508 | 6879 | 7249 | 7620 | 7991 | 8362 | 8733 | 9104 | 9470 |
| 336 | 54 | | 3740 | 4111 | 4481 | 4051 | 5221 | 5592 | 5962 | 0333 | 6703 | 7074 | 7445 | 7815 | 0180 | 0557 | 0928 | 9299 | 9670 |
| 342 | 55 | 7 | 3937 | 4307 | 4677 | 5047 | 5417 | 5788 | 6158 | 6528 | 6899 | 7269 | 7640 | 8011 | 0381 | 8752 | 9123 | 9494 | 9865 |
| 349 | 56 | 7 (8) | 4133 | 4503 | 4073 | 5243 | 5613 | 5984 | 0354 | 6724 | 7094 | 7465 | 7835 | 8206 | 0577 | 0947 | 9318 | 2682 | 0060 |
| 355 | 57 | | 4330 | 4622 | 5069 | 5439 | 5809 | 0180 | 0550 | 6920 | 7290 | 7660 | 8031 | 0401 | 0772 | 9142 | 9513 | 9004 | 0255 |
| 361 | 58 | | 4526 | 4096 | 5266 | 5636 | 6005 | 6370 | 0746 | 7116 | 7406 | 7856 | 0226 | 8597 | 0207 | 9338 | 9708 | 0079 | 0450 |
| 367 | 59 | | 4723 | 5092 | 5462 | 5832 | 6202 | 0572 | 6942 | 7312 | 7682 | 0052 | 8429 | 8792 | 9163 | 9533 | 9904 | 0274 | 0645 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 42° | Núm. |
|---|---|---|
| 0 | 6′ | 5 6855 |
| 3 | 1 | 7050 |
| 7 | 2 | 7240 |
| 10 | 3 | 7439 |
| 13 | 4 | 7634 |
| 16 | 5 | 5 7829 |
| 20 | 6 | 8024 |
| 23 | 7 | 8219 |
| 26 | 8 | 8414 |
| 29 | 9 | 8609 |
| 33 | 10 | 5 8805 |
| 36 | 11 | 9000 |
| 39 | 19 | 9195 |
| 43 | 13 | 9391 |
| 46 | 14 | 9586 |
| 49 | 15 | 5 9782 |
| 52 | 16 | 9977 |
| 56 | 17 | 6 0173 |
| 59 | 18 | 0309 |
| 62 | 19 | 0565 |
| 65 | 20 | 6 6761 |
| 69 | 21 | 0957 |
| 72 | 22 | 1153 |
| 75 | 23 | 1349 |
| 79 | 24 | 1545 |
| 82 | 25 | 6 1741 |
| 05 | 26 | 1937 |
| 80 | 27 | 2133 |
| 92 | 28 | 2330 |
| 95 | 29 | 9526 |
| 98 | 30 | 6 2723 |
| 102 | 31 | 2919 |
| 105 | 32 | 3116 |
| 100 | 33 | 3313 |
| 111 | 34 | 3509 |
| 115 | 35 | 6 3706 |
| 118 | 36 | 3903 |
| 121 | 37 | 4100 |
| 124 | 38 | 4297 |
| 128 | 39 | 4494 |
| 131 | 40 | 6 4691 |
| 134 | 41 | 4888 |
| 138 | 42 | 5085 |
| 141 | 43 | 5283 |
| 144 | 44 | 5480 |
| 147 | 45 | 6 5677 |
| 151 | 46 | 5875 |
| 154 | 47 | 6073 |
| 157 | 48 | 6270 |
| 160 | 49 | 0468 |
| 164 | 50 | 6 6666 |
| 167 | 51 | 6863 |
| 170 | 52 | 7061 |
| 174 | 53 | 7259 |
| 177 | 54 | 7457 |
| 186 | 55 | 6 7655 |
| 183 | 56 | 7853 |
| 187 | 57 | 8051 |
| 190 | 56 | 8250 |
| 193 | 59 | 8446 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 43° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 (7) | 8616 | 9015 | 9383 | 9752 | 0121 | 0480 | 0858 | 1227 | 1596 | 1265 | 2334 | 2703 | 3072 | 3442 | 3811 | 4100 | 4550 |
| 6 | 1 | | 8845 | 0213 | 9582 | 0950 | 0312 | 0687 | 1056 | 1425 | 1794 | 2163 | 2532 | 2901 | 3270 | 3632 | 4086 | 4377 | 4747 |
| 12 | 2 | | 9043 | 9411 | 9780 | 0118 | 0517 | 0885 | 1254 | 1623 | 1291 | 2360 | 2720 | 3098 | 3467 | 3836 | 4205 | 4574 | 4244 |
| 18 | 3 | | 0242 | 9610 | 9979 | 0346 | 0715 | 1003 | 1452 | 1820 | 2180 | 2558 | 2027 | 3295 | 3664 | 4033 | 4402 | 4771 | 3141 |
| 24 | 4 | | 9440 | 9800 | 0177 | 0545 | 0913 | 1281 | 1650 | 2010 | 2387 | 2756 | 3124 | 3493 | 3862 | 4230 | 4599 | 4968 | 5338 |
| 31 | 5 | 6 (7) | 9639 | 0007 | 0375 | 0743 | 1111 | 1480 | 1048 | 2216 | 2585 | 2953 | 3322 | 3690 | 4052 | 4428 | 4727 | 5166 | 5535 |
| 37 | 6 | | 9838 | 0206 | 0574 | 0942 | 1318 | 1678 | 2046 | 2414 | 2783 | 3151 | 3520 | 3080 | 4257 | 4626 | 4224 | 5363 | 5732 |
| 43 | 7 | 7 | 0036 | 0404 | 0772 | 1140 | 1508 | 1876 | 2244 | 2612 | 2001 | 3349 | 3717 | 4086 | 4454 | 4823 | 5121 | 5560 | 5929 |
| 49 | 8 | | 0235 | 0603 | 0971 | 1339 | 1707 | 2075 | 2442 | 2011 | 3172 | 3547 | 3915 | 4284 | 4652 | 5020 | 5389 | 5767 | 6126 |
| 55 | 9 | | 0434 | 0002 | 1170 | 1537 | 1905 | 2273 | 2641 | 3009 | 3377 | 3745 | 4113 | 1481 | 4050 | 5210 | 5586 | 5955 | 6323 |
| 61 | 10 | 7 | 0633 | 1001 | 1360 | 1736 | 2104 | 2471 | 2839 | 3207 | 3575 | 3243 | 4311 | 4679 | 5047 | 5415 | 5784 | 6152 | 6521 |
| 67 | 11 | | 0832 | 1200 | 1567 | 1935 | 2302 | 2670 | 3030 | 3405 | 3773 | 4141 | 4500 | 4077 | 5245 | 5613 | 5982 | 6350 | 6710 |
| 73 | 12 | | 1031 | 1399 | 1766 | 2133 | 2501 | 2868 | 3236 | 3504 | 3072 | 4339 | 4707 | 5075 | 5443 | 5811 | 5170 | 6547 | 6916 |
| 79 | 13 | | 1231 | 1598 | 1965 | 2332 | 2700 | 3067 | 3435 | 3802 | 4170 | 1538 | 4905 | 5273 | 5641 | 6009 | 6377 | 6745 | 7113 |
| 85 | 14 | | 1430 | 1707 | 2164 | 2531 | 2890 | 3266 | 3633 | 4001 | 1360 | 1736 | 5184 | 5471 | 5839 | 6207 | 6575 | 6943 | 7311 |
| 92 | 15 | 7 | 1622 | 1996 | 2363 | 2730 | 3097 | 3465 | 3832 | 4199 | 4567 | 4934 | 5302 | 5669 | 6037 | 6485 | 6773 | 7141 | 7508 |
| 98 | 16 | | 1820 | 2195 | 2562 | 2929 | 3296 | 3663 | 4031 | 1398 | 4765 | 5133 | 5500 | 5868 | 6235 | 6603 | 5971 | 7338 | 7706 |
| 104 | 17 | | 2020 | 2394 | 2761 | 3128 | 3495 | 3862 | 4229 | 1597 | 4064 | 5331 | 5609 | 6066 | 6433 | 5801 | 7169 | 7536 | 7904 |
| 110 | 18 | | 2227 | 2594 | 2961 | 3327 | 3694 | 1061 | 1428 | 4705 | 5163 | 5530 | 5897 | 6264 | 6632 | 6999 | 7367 | 7734 | 8102 |
| 116 | 19 | | 2427 | 2793 | 3160 | 3527 | 3893 | 4261 | 4627 | 4994 | 5361 | 5720 | 6095 | 6463 | 6830 | 7127 | 7565 | 7232 | 0300 |
| 122 | 20 | 7 | 2626 | 2903 | 3359 | 3726 | 4093 | 4460 | 4826 | 5193 | 5560 | 5927 | 6294 | 6661 | 7028 | 7396 | 7763 | 8130 | 8498 |
| 128 | 21 | | 2826 | 3102 | 3559 | 3025 | 4292 | 4659 | 5025 | 5392 | 5759 | 6126 | 6493 | 6860 | 7227 | 7524 | 7261 | 8320 | 8696 |
| 134 | 22 | | 3026 | 3392 | 3758 | 1125 | 4491 | 4858 | 5224 | 5591 | 5258 | 6325 | 6691 | 7058 | 7425 | 7792 | 8160 | 8527 | 8804 |
| 140 | 23 | | 3225 | 3592 | 3958 | 4324 | 4691 | 5057 | 5424 | 5790 | 6157 | 6523 | 6800 | 7257 | 7624 | 7991 | 8356 | 8725 | 9002 |
| 145 | 24 | | 3425 | 3791 | 1158 | 4524 | 4890 | 5256 | 5623 | 5989 | 6356 | 6722 | 7089 | 7456 | 7823 | 0189 | 8556 | 8923 | 2290 |
| 153 | 25 | 7 | 3625 | 3991 | 4357 | 4723 | 5090 | 5455 | 5822 | 6188 | 6555 | 6921 | 7288 | 7655 | 0021 | 8308 | 8755 | 9122 | 0489 |
| 150 | 26 | | 3825 | 4121 | 4557 | 4923 | 5289 | 5655 | 6021 | 6388 | 6754 | 7120 | 7487 | 7853 | 8220 | 8587 | 8953 | 2320 | 2687 |
| 165 | 27 | | 4025 | 4391 | 4757 | 5123 | 5489 | 5855 | 6221 | 6587 | 6953 | 7320 | 7686 | 8052 | 8419 | 8705 | 2152 | 2512 | 9885 |
| 171 | 28 | 7 (6) | 4225 | 4591 | 4957 | 5324 | 5688 | 6854 | 6420 | 6706 | 7153 | 7510 | 7885 | 0251 | 8618 | 8984 | 9351 | 9717 | 0084 |
| 177 | 29 | | 4425 | 4791 | 5157 | 5522 | 5088 | 6251 | 6620 | 6986 | 7352 | 7710 | 8084 | 6450 | 8817 | 2183 | 9549 | 9916 | 0282 |
| 183 | 30 | 7 (8) | 4626 | 4991 | 5357 | 5722 | 6088 | 6454 | 5819 | 7185 | 7551 | 7917 | 0283 | 8649 | 9016 | 2382 | 2748 | 0114 | 0481 |
| 189 | 31 | | 4826 | 5191 | 5557 | 5922 | 6288 | 6653 | 7010 | 7385 | 7751 | 8117 | 8483 | 8049 | 9215 | 9581 | 9947 | 0313 | 0680 |
| 195 | 32 | | 5026 | 5391 | 5757 | 6122 | 6488 | 6853 | 7219 | 7585 | 7950 | 8316 | 8682 | 9048 | 9414 | 9780 | 0146 | 8512 | 0878 |
| 201 | 33 | | 5227 | 5592 | 5957 | 6322 | 6688 | 7053 | 7410 | 7704 | 8150 | 8515 | 0081 | 9247 | 9613 | 2972 | 0345 | 0711 | 1077 |
| 207 | 34 | | 5427 | 5792 | 6157 | 6522 | 6808 | 7253 | 7619 | 7984 | 8349 | 8715 | 9881 | 9446 | 9812 | 0178 | 0544 | 0910 | 1276 |
| 214 | 35 | 7 (8) | 5620 | 5992 | 6358 | 6723 | 7088 | 7453 | 7810 | 0104 | 8549 | 8915 | 9288 | 2646 | 8012 | 0377 | 0743 | 1102 | 1475 |
| 220 | 36 | | 5828 | 6103 | 6558 | 6923 | 7200 | 7653 | 8010 | 8384 | 8742 | 9114 | 9480 | 9846 | 0211 | 0576 | 0942 | 1308 | 1674 |
| 226 | 37 | | 6020 | 6393 | 6758 | 7123 | 7480 | 7853 | 8218 | 8584 | 8949 | 9314 | 3679 | 0045 | 0410 | 0776 | 1141 | 1507 | 1873 |
| 232 | 38 | | 6229 | 6594 | 6959 | 7324 | 7688 | 8053 | 8418 | 8784 | 9149 | 9514 | 0872 | 0244 | 0610 | 0275 | 1341 | 1706 | 2072 |
| 230 | 39 | | 6430 | 6725 | 7159 | 7524 | 7889 | 0254 | 8619 | 8984 | 0349 | 9714 | 0079 | 0444 | 0809 | 1175 | 1540 | 1905 | 2271 |
| 244 | 48 | 7 (8) | 6631 | 6995 | 7350 | 7725 | 8880 | 8454 | 8019 | 9184 | 9540 | 9914 | 0279 | 0644 | 1089 | 1374 | 1739 | 2105 | 2470 |
| 250 | 41 | | 6832 | 7126 | 7561 | 7925 | 8290 | 0654 | 9012 | 9384 | 9749 | 0114 | 0478 | 0844 | 1209 | 1574 | 1939 | 2304 | 2669 |
| 256 | 42 | | 7033 | 7397 | 7761 | 8126 | 8490 | 8855 | 9210 | 0584 | 2942 | 0314 | 0678 | 1043 | 1408 | 1773 | 2138 | 2504 | 2869 |
| 262 | 43 | | 7234 | 7590 | 7062 | 0327 | 8691 | 9055 | 9420 | 0784 | 0140 | 0514 | 0878 | 1243 | 1600 | 1973 | 2338 | 2703 | 3868 |
| 268 | 44 | | 7435 | 7799 | 8163 | 8527 | 8092 | 0255 | 0620 | 0985 | 8349 | 0714 | 1078 | 1443 | 1888 | 2173 | 2538 | 2982 | 3268 |
| 275 | 45 | 7 (8) | 7636 | 8000 | 8364 | 8728 | 9092 | 9457 | 9821 | 0105 | 0550 | 0914 | 1270 | 1643 | 2008 | 2373 | 2737 | 3182 | 3467 |
| 201 | 46 | | 7837 | 8201 | 8565 | 0929 | 9293 | 9657 | 0021 | 0385 | 0750 | 1114 | 1470 | 1043 | 2208 | 2572 | 2937 | 3302 | 3667 |
| 287 | 47 | | 6038 | 8402 | 8766 | 9138 | 9494 | 9058 | 0222 | 0586 | 0950 | 1315 | 1670 | 2043 | 2408 | 2772 | 3137 | 3501 | 3866 |
| 293 | 48 | | 6240 | 0603 | 8967 | 9331 | 0696 | 0852 | 0423 | 0787 | 1151 | 1515 | 1879 | 2243 | 2608 | 2972 | 3337 | 3701 | 1066 |
| 299 | 49 | | 6441 | 8803 | 9168 | 9532 | 9896 | 8260 | 8623 | 0207 | 1351 | 1716 | 2088 | 2444 | 2800 | 3172 | 3537 | 3901 | 4266 |
| 305 | 50 | 7 (8) | 8643 | 9006 | 2370 | 9733 | 0097 | 0460 | 0824 | 1188 | 1552 | 1216 | 2200 | 2644 | 3088 | 3372 | 3737 | 4101 | 4465 |
| 311 | 51 | | 8844 | 2207 | 9571 | 9934 | 8220 | 0661 | 1825 | 1389 | 1753 | 2117 | 2180 | 2844 | 3208 | 3573 | 3937 | 4301 | 4665 |
| 317 | 52 | | 9046 | 2402 | 9772 | 0136 | 0490 | 0863 | 1226 | 1590 | 1953 | 2317 | 2681 | 3045 | 3409 | 3773 | 4137 | 4501 | 4865 |
| 323 | 53 | | 9247 | 9610 | 9974 | 0337 | 0700 | 1064 | 1427 | 1791 | 2154 | 2518 | 2002 | 3245 | 3609 | 3273 | 4337 | 4781 | 5065 |
| 329 | 54 | | 2442 | 9812 | 0175 | 0538 | 0902 | 1265 | 1628 | 1992 | 2355 | 2719 | 3082 | 3446 | 3816 | 4173 | 4537 | 4981 | 5265 |
| 336 | 55 | 7 (8) | 9651 | 0013 | 0377 | 0740 | 1103 | 1466 | 1829 | 2193 | 2556 | 2919 | 3283 | 3647 | 4010 | 4374 | 4738 | 5101 | 5465 |
| 342 | 56 | | 2852 | 0215 | 0578 | 0941 | 1304 | 1667 | 2830 | 2324 | 2757 | 3120 | 3484 | 3847 | 4211 | 4574 | 4938 | 5302 | 5666 |
| 348 | 57 | 8 | 0054 | 0417 | 0780 | 1143 | 1506 | 1869 | 2232 | 2595 | 2958 | 3321 | 3605 | 4048 | 4411 | 4775 | 5138 | 5582 | 5866 |
| 351 | 58 | | 0256 | 0619 | 0902 | 1344 | 1707 | 2070 | 2433 | 2706 | 3159 | 3522 | 3885 | 4242 | 4612 | 4975 | 5339 | 5782 | 6066 |
| 360 | 59 | | 0450 | 0821 | 1183 | 1546 | 1000 | 2271 | 2634 | 2997 | 3360 | 3723 | 4086 | 4450 | 4813 | 5176 | 5539 | 5203 | 6266 |

Num. II para la suma corregida de alturas.

| Partes para segundos. | 43° | | Núm. |
|---|---|---|---|
| 126 | 0' | 4 | 2950 |
| 123 | 1 | | 2755 |
| 190 | 2 | | 2561 |
| 187 | 3 | | 2355 |
| 103 | 4 | | 2171 |
| 180 | 5 | 4 | 1276 |
| 177 | 6 | | 1701 |
| 174 | 7 | | 1586 |
| 170 | 8 | | 1391 |
| 167 | 9 | | 1195 |
| 164 | 10 | 4 | 1000 |
| 160 | 11 | | 0805 |
| 157 | 12 | | 0609 |
| 154 | 13 | | 0414 |
| 151 | 14 | | 0218 |
| 147 | 15 | 4 | 0023 |
| 144 | 16 | 3 | 2827 |
| 141 | 17 | | 9631 |
| 138 | 18 | | 9435 |
| 134 | 19 | | 9239 |
| 131 | 28 | 3 | 9043 |
| 128 | 21 | | 6847 |
| 121 | 22 | | 6651 |
| 121 | 23 | | 8455 |
| 118 | 24 | | 8259 |
| 113 | 25 | 3 | 8063 |
| 111 | 26 | | 7867 |
| 168 | 27 | | 7570 |
| 105 | 20 | | 7473 |
| 102 | 22 | | 7277 |
| 98 | 38 | 3 | 7081 |
| 95 | 31 | | 6884 |
| 22 | 32 | | 5687 |
| 88 | 33 | | 6491 |
| 85 | 34 | | 6224 |
| 82 | 35 | 3 | 6097 |
| 79 | 36 | | 5000 |
| 75 | 37 | | 5703 |
| 72 | 38 | | 5506 |
| 69 | 39 | | 5309 |
| 65 | 40 | 3 | 5112 |
| 62 | 41 | | 4215 |
| 59 | 42 | | 4717 |
| 56 | 43 | | 4520 |
| 52 | 44 | | 4323 |
| 49 | 45 | 3 | 4125 |
| 46 | 46 | | 3227 |
| 43 | 47 | | 3730 |
| 30 | 48 | | 3532 |
| 36 | 49 | | 3334 |
| 33 | 56 | 3 | 3137 |
| 29 | 51 | | 2039 |
| 26 | 52 | | 2741 |
| 23 | 63 | | 2543 |
| 20 | 54 | | 2345 |
| 15 | 55 | 3 | 2147 |
| 13 | 56 | | 1049 |
| 10 | 57 | | 1750 |
| 7 | 58 | | 1552 |
| 3 | 69 | | 1354 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 43° | Argumento Auxiliar. 17' | 10' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 (0) 4219 | 5289 | 5658 | 6028 | 6328 | 6768 | 7138 | 7508 | 7878 | 8248 | 8618 | 8988 | 9358 | 9728 | 0099 | 0469 | 0040 |
| 6 | 1 | 5116 | 5485 | 5855 | 6225 | 6524 | 6964 | 7334 | 7704 | 8074 | 8443 | 8813 | 9183 | 9554 | 9924 | 0294 | 0664 | 1035 |
| 12 | 2 | 5313 | 5682 | 6052 | 6421 | 6791 | 7160 | 7530 | 7900 | 8270 | 8639 | 9009 | 9379 | 9749 | 0119 | 0482 | 0860 | 1230 |
| 18 | 3 | 5510 | 5879 | 6248 | 6618 | 6987 | 7357 | 7726 | 8096 | 8466 | 8035 | 9205 | 9575 | 9945 | 0315 | 0685 | 1055 | 1425 |
| 25 | 4 | 6707 | 6076 | 6445 | 6814 | 7184 | 7553 | 7922 | 8222 | 8662 | 9031 | 9401 | 9771 | 0140 | 0510 | 0880 | 1250 | 1620 |
| 31 | 5 | 7 (8) 5904 | 6273 | 6642 | 7011 | 7380 | 7749 | 8119 | 8488 | 8858 | 9227 | 9527 | 9966 | 0336 | 0706 | 1076 | 1446 | 1816 |
| 37 | 6 | 6101 | 6470 | 6839 | 7208 | 7577 | 7946 | 8315 | 8605 | 9054 | 9423 | 9793 | 0162 | 0532 | 0902 | 1271 | 1641 | 2011 |
| 43 | 7 | 6298 | 6667 | 7035 | 7404 | 7773 | 8143 | 8512 | 8881 | 9250 | 2619 | 9989 | 0358 | 0728 | 1097 | 1467 | 1837 | 2207 |
| 42 | 8 | 6495 | 6864 | 7232 | 7601 | 7970 | 8332 | 8708 | 9077 | 9446 | 9816 | 0185 | 0554 | 0924 | 1223 | 1663 | 2033 | 2402 |
| 55 | 9 | 6622 | 7061 | 7422 | 7798 | 8167 | 8536 | 8905 | 9274 | 9613 | 0012 | 0381 | 0750 | 1120 | 1489 | 1859 | 2228 | 2528 |
| 61 | 10 | 7 (8) 6889 | 7258 | 7626 | 7995 | 8364 | 8733 | 9101 | 2470 | 9839 | 0208 | 0577 | 0247 | 1316 | 1685 | 2055 | 2424 | 2793 |
| 67 | 11 | 7007 | 7455 | 7823 | 8122 | 8561 | 8229 | 2298 | 9667 | 0036 | 0405 | 0774 | 1143 | 1512 | 1881 | 2250 | 2620 | 2989 |
| 73 | 12 | 7204 | 7652 | 8021 | 8382 | 8758 | 9126 | 2495 | 9864 | 0232 | 0601 | 0970 | 1339 | 1708 | 2077 | 2446 | 2816 | 3185 |
| 80 | 13 | 7481 | 7850 | 8218 | 8586 | 8955 | 9323 | 9692 | 0060 | 0429 | 0798 | 1167 | 1536 | 1904 | 2273 | 2642 | 3012 | 3381 |
| 86 | 14 | 7679 | 8047 | 8415 | 8784 | 9152 | 2520 | 9889 | 0257 | 0626 | 0994 | 1363 | 1732 | 2101 | 2470 | 2839 | 3208 | 3577 |
| 92 | 15 | 7 (8) 7876 | 8245 | 8613 | 8981 | 9349 | 9717 | 0086 | 0454 | 0823 | 1191 | 1560 | 1928 | 2297 | 2666 | 3035 | 3404 | 3773 |
| 98 | 16 | 8074 | 8442 | 8810 | 2178 | 9546 | 9914 | 0283 | 0651 | 1019 | 1388 | 1756 | 2125 | 2424 | 2862 | 3231 | 3600 | 3262 |
| 104 | 17 | 8272 | 8640 | 9008 | 9376 | 9744 | 0112 | 0480 | 0848 | 1216 | 1585 | 1253 | 2322 | 2620 | 3059 | 3427 | 3726 | 4165 |
| 110 | 18 | 8470 | 8837 | 9205 | 9573 | 9941 | 0309 | 0677 | 1045 | 1413 | 1781 | 2150 | 2518 | 2887 | 3255 | 3624 | 3992 | 4361 |
| 116 | 19 | 0667 | 9035 | 2403 | 9770 | 0138 | 0506 | 0874 | 1242 | 1610 | 1978 | 2347 | 2715 | 3083 | 3452 | 3820 | 4188 | 4557 |
| 122 | 20 | 7 (8) 8865 | 2233 | 9600 | 2968 | 0336 | 0704 | 1071 | 1439 | 1807 | 2175 | 2544 | 2912 | 3280 | 3648 | 4016 | 4385 | 4753 |
| 129 | 21 | 9063 | 9431 | 9798 | 0166 | 0533 | 0201 | 1269 | 1637 | 2004 | 2372 | 2741 | 3108 | 3477 | 3845 | 4213 | 4581 | 4250 |
| 135 | 22 | 9261 | 9629 | 9996 | 0363 | 0731 | 1098 | 1466 | 1834 | 2202 | 2570 | 2238 | 3305 | 3673 | 4041 | 4410 | 4778 | 5146 |
| 141 | 23 | 2459 | 9826 | 0194 | 0561 | 0929 | 1296 | 1664 | 2031 | 2329 | 2767 | 3135 | 3502 | 3870 | 4238 | 4606 | 4274 | 5342 |
| 147 | 24 | 9657 | 0024 | 0322 | 0752 | 1126 | 1494 | 1861 | 2229 | 2526 | 2964 | 3332 | 3699 | 4067 | 4435 | 4803 | 5171 | 5539 |
| 153 | 25 | 7 (8) 9856 | 0223 | 0590 | 0957 | 1324 | 1691 | 2059 | 2426 | 2794 | 3161 | 3529 | 3896 | 4264 | 4632 | 5000 | 5368 | 6736 |
| 159 | 26 | 0 0054 | 0421 | 0788 | 1155 | 1522 | 1882 | 2256 | 2624 | 2991 | 3358 | 3726 | 4093 | 4461 | 4829 | 5197 | 5564 | 5932 |
| 165 | 27 | 0252 | 0619 | 0286 | 1353 | 1720 | 2087 | 2454 | 2821 | 3189 | 3556 | 3923 | 4291 | 4658 | 5026 | 5393 | 5761 | 6129 |
| 171 | 28 | 0450 | 0817 | 1184 | 1551 | 1918 | 2285 | 2652 | 3012 | 3386 | 3753 | 4121 | 4488 | 4856 | 5223 | 5590 | 5958 | 6326 |
| 177 | 29 | 0649 | 1016 | 1382 | 1749 | 2116 | 2483 | 2850 | 3217 | 3584 | 3951 | 4318 | 4685 | 5053 | 5420 | 5787 | 6155 | 6522 |
| 184 | 30 | 8 0847 | 1214 | 1580 | 1247 | 2314 | 2681 | 3048 | 3414 | 3781 | 4148 | 4516 | 4883 | 5250 | 5617 | 5984 | 6352 | 6712 |
| 190 | 31 | 1045 | 1412 | 1779 | 2145 | 2512 | 2872 | 3245 | 3612 | 3272 | 4346 | 4713 | 5080 | 5147 | 5814 | 6181 | 6549 | 6916 |
| 196 | 32 | 1244 | 1611 | 1977 | 2344 | 2710 | 3077 | 3443 | 3810 | 4177 | 4544 | 4911 | 5278 | 5645 | 6012 | 6379 | 6746 | 7113 |
| 202 | 33 | 1443 | 1809 | 2176 | 2542 | 2908 | 3275 | 3641 | 4008 | 4375 | 4741 | 6109 | 5475 | 5842 | 6209 | 6576 | 6243 | 7310 |
| 208 | 34 | 1642 | 2008 | 2374 | 2740 | 3107 | 3473 | 3840 | 4206 | 4573 | 4939 | 5306 | 5673 | 6039 | 6406 | 6773 | 7140 | 7507 |
| 214 | 35 | 8 1841 | 2207 | 2573 | 2939 | 3305 | 3672 | 4038 | 4404 | 4771 | 5137 | 5501 | 5870 | 6237 | 6604 | 6971 | 7338 | 7704 |
| 220 | 36 | 2040 | 2405 | 2771 | 3137 | 3504 | 3870 | 4236 | 4603 | 4962 | 5335 | 5702 | 6068 | 6435 | 6801 | 7168 | 7535 | 7902 |
| 226 | 37 | 2239 | 2604 | 2270 | 3336 | 3702 | 4068 | 4434 | 4801 | 5167 | 5533 | 5829 | 6266 | 6632 | 6999 | 7366 | 7732 | 8029 |
| 232 | 30 | 2438 | 2803 | 3162 | 3535 | 3201 | 4267 | 4633 | 4999 | 5365 | 5731 | 6097 | 6464 | 6830 | 7197 | 7563 | 7930 | 8226 |
| 239 | 39 | 2637 | 3002 | 3368 | 3734 | 4029 | 4465 | 4831 | 5197 | 5563 | 5929 | 6295 | 6662 | 7028 | 7324 | 7761 | 8127 | 8494 |
| 245 | 40 | 8 2836 | 3201 | 3567 | 3932 | 4298 | 4661 | 6030 | 5395 | 5761 | 6127 | 6494 | 6860 | 7226 | 7592 | 7258 | 8325 | 8691 |
| 251 | 41 | 3035 | 3400 | 3766 | 4131 | 4427 | 4862 | 5228 | 5594 | 5960 | 6326 | 6692 | 7058 | 7424 | 7790 | 8156 | 8522 | 8889 |
| 257 | 42 | 3234 | 3599 | 3965 | 4330 | 4626 | 5061 | 5427 | 5792 | 6158 | 6524 | 6890 | 7256 | 7622 | 7988 | 8354 | 8720 | 9086 |
| 263 | 43 | 3433 | 3798 | 4164 | 4529 | 4894 | 5260 | 5625 | 5991 | 6357 | 6722 | 7088 | 7454 | 7820 | 8186 | 8552 | 8918 | 9284 |
| 262 | 44 | 3633 | 3298 | 4363 | 4728 | 5023 | 5459 | 5824 | 6190 | 6655 | 6921 | 7286 | 7652 | 8018 | 8384 | 8750 | 9116 | 9482 |
| 275 | 45 | 8 3832 | 4197 | 4562 | 4927 | 5292 | 5658 | 6023 | 6388 | 6754 | 7112 | 7485 | 7850 | 8216 | 8582 | 8948 | 9314 | 9679 |
| 281 | 46 | 4031 | 4396 | 4761 | 5126 | 5421 | 5857 | 6222 | 6587 | 6952 | 7318 | 7683 | 8042 | 8414 | 8780 | 9146 | 9511 | 9877 |
| 288 | 47 | 8 (9) 4231 | 4596 | 4961 | 5326 | 5621 | 6056 | 6421 | 6786 | 7151 | 7516 | 7882 | 8247 | 8613 | 8978 | 9344 | 9709 | 0075 |
| 224 | 48 | 4431 | 4725 | 5160 | 5525 | 5890 | 6255 | 6620 | 6985 | 7350 | 7715 | 8080 | 8446 | 8811 | 9175 | 9542 | 2207 | 0273 |
| 300 | 49 | 4630 | 4995 | 6352 | 5724 | 6089 | 6454 | 6819 | 7184 | 7542 | 7914 | 8272 | 8644 | 9009 | 9376 | 9740 | 0106 | 0471 |
| 306 | 50 | 8 (9) 4830 | 5194 | 5559 | 5224 | 6288 | 6653 | 7018 | 7383 | 7748 | 8113 | 8478 | 8843 | 9208 | 9573 | 9938 | 0304 | 0662 |
| 312 | 51 | 5030 | 5394 | 5758 | 6123 | 6488 | 6852 | 7217 | 7502 | 7947 | 8311 | 8676 | 9041 | 9406 | 9772 | 0137 | 0502 | 0867 |
| 318 | 52 | 5229 | 5524 | 5958 | 6323 | 6687 | 7052 | 7416 | 7781 | 8146 | 8510 | 8875 | 9240 | 9605 | 9270 | 0335 | 0700 | 1066 |
| 324 | 53 | 5429 | 5794 | 6158 | 6522 | 6886 | 7251 | 7615 | 7280 | 8345 | 8709 | 9074 | 9439 | 9804 | 0169 | 0534 | 0898 | 1264 |
| 330 | 54 | 6629 | 5293 | 6358 | 6722 | 7086 | 7450 | 7015 | 8179 | 8544 | 8908 | 9273 | 9638 | 0002 | 0367 | 0732 | 1097 | 1462 |
| 336 | 55 | 8 (9) 5829 | 6123 | 6557 | 6921 | 7286 | 7650 | 8014 | 8379 | 8743 | 9107 | 9472 | 9837 | 0201 | 0566 | 0931 | 1296 | 1660 |
| 343 | 56 | 6029 | 6393 | 6757 | 7121 | 7485 | 7050 | 8214 | 8578 | 8942 | 9307 | 2671 | 0036 | 0400 | 0765 | 1129 | 1494 | 1859 |
| 349 | 57 | 6229 | 6593 | 6957 | 7321 | 7685 | 8049 | 8413 | 8777 | 9141 | 9506 | 9870 | 0235 | 0529 | 0963 | 1328 | 1693 | 2057 |
| 355 | 58 | 6430 | 6793 | 7157 | 7521 | 7805 | 8249 | 8613 | 8977 | 2341 | 9705 | 0069 | 0434 | 0798 | 1162 | 1527 | 1891 | 2256 |
| 361 | 59 | 6630 | 6293 | 7357 | 7721 | 8085 | 8448 | 8812 | 9176 | 9540 | 9904 | 0268 | 0633 | 0927 | 1361 | 1726 | 2090 | 2455 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 43° | Núm. |
|---|---|---|
| 0 | 0' | 6 0646 |
| 3 | 1 | 0845 |
| 7 | 2 | 9043 |
| 10 | 3 | 2242 |
| 13 | 4 | 9440 |
| 17 | 5 | 6 9639 |
| 20 | 6 | 9838 |
| 23 | 7 | 7 0037 |
| 27 | 8 | 0235 |
| 30 | 9 | 0434 |
| 33 | 10 | 7 0633 |
| 37 | 11 | 0832 |
| 40 | 12 | 1031 |
| 43 | 13 | 1231 |
| 47 | 14 | 1430 |
| 60 | 16 | 7 1622 |
| 53 | 16 | 1829 |
| 57 | 17 | 2028 |
| 60 | 18 | 2227 |
| 63 | 12 | 2427 |
| 67 | 20 | 7 2626 |
| 70 | 21 | 2826 |
| 73 | 22 | 3026 |
| 77 | 23 | 3225 |
| 80 | 24 | 3425 |
| 03 | 25 | 7 3625 |
| 87 | 26 | 3825 |
| 90 | 27 | 4025 |
| 93 | 28 | 4225 |
| 97 | 29 | 4425 |
| 100 | 30 | 7 4626 |
| 183 | 31 | 4826 |
| 107 | 32 | 5026 |
| 110 | 33 | 5227 |
| 113 | 34 | 5427 |
| 117 | 35 | 7 5628 |
| 120 | 36 | 5828 |
| 123 | 37 | 6029 |
| 127 | 30 | 6229 |
| 130 | 32 | 6430 |
| 133 | 40 | 7 6631 |
| 137 | 41 | 6832 |
| 140 | 42 | 7033 |
| 143 | 43 | 7234 |
| 147 | 44 | 7435 |
| 150 | 45 | 7 7636 |
| 153 | 46 | 7837 |
| 157 | 47 | 0038 |
| 160 | 48 | 8240 |
| 163 | 49 | 0141 |
| 167 | 60 | 7 8643 |
| 170 | 51 | 8844 |
| 173 | 52 | 9046 |
| 177 | 53 | 2247 |
| 180 | 54 | 2449 |
| 183 | 55 | 7 9651 |
| 187 | 56 | 9852 |
| 190 | 57 | 8 0054 |
| 193 | 58 | 0256 |
| 197 | 59 | 8458 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 44° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 44° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 | 0660 | 1023 | 1385 | 1748 | 2110 | 2473 | 2836 | 3199 | 3561 | 3224 | 4287 | 4651 | 5014 | 6377 | 5740 | 6103 | 6467 | 290 | 0' | 3 1155 |
| 6 | 1 | | 0862 | 1225 | 1587 | 1949 | 2312 | 2675 | 3037 | 3400 | 3753 | 4126 | 4489 | 4852 | 5215 | 5578 | 6541 | 6304 | 6667 | 127 | 1 | 0257 |
| 12 | 2 | | 1064 | 1427 | 1789 | 2151 | 2514 | 2876 | 3239 | 3501 | 3954 | 4327 | 4600 | 5053 | 5415 | 5778 | 6141 | 6506 | 6868 | 103 | 2 | 0758 |
| 18 | 3 | | 1267 | 1622 | 1991 | 2353 | 2715 | 3078 | 3440 | 3803 | 4155 | 4528 | 4891 | 5254 | 5516 | 5070 | 5342 | 6705 | 7068 | 190 | 3 | 0560 |
| 24 | 4 | | 1469 | 1831 | 2193 | 2556 | 2917 | 3280 | 3642 | 4005 | 4357 | 4730 | 5002 | 5455 | 5817 | 5180 | 5543 | 6006 | 7269 | 187 | 4 | 0361 |
| 30 | 5 | 8 | 1671 | 2033 | 2305 | 2757 | 3110 | 3482 | 3844 | 4206 | 4559 | 4931 | 5293 | 5656 | 6019 | 6381 | 6744 | 7107 | 7470 | 183 | 5 | 3 0162 |
| 36 | 6 | | 1874 | 2235 | 2597 | 2950 | 3321 | 3684 | 4046 | 4408 | 4770 | 5132 | 5405 | 5857 | 6220 | 6582 | 6545 | 7308 | 7670 | 180 | 6 | 2 0963 |
| 42 | 7 | | 2076 | 2438 | 2800 | 3161 | 3523 | 3886 | 4248 | 4610 | 4972 | 5334 | 5696 | 6059 | 6421 | 5783 | 7146 | 7509 | 7871 | 177 | 7 | 5765 |
| 48 | 8 | | 2279 | 2640 | 3002 | 3364 | 3726 | 4088 | 4449 | 4811 | 5173 | 5536 | 5898 | 5260 | 6622 | 6085 | 7347 | 7710 | 8072 | 173 | 8 | 0566 |
| 54 | 9 | | 2481 | 2843 | 3204 | 3565 | 3928 | 4290 | 4651 | 5013 | 5375 | 5737 | 6099 | 6461 | 6824 | 7186 | 7648 | 7511 | 8273 | 170 | 9 | 0367 |
| 60 | 10 | 8 | 2684 | 3045 | 3407 | 3768 | 4130 | 4492 | 4853 | 5215 | 5577 | 5939 | 6301 | 6663 | 7025 | 7387 | 7750 | 8112 | 0474 | 167 | 19 | 2 0168 |
| 66 | 11 | | 2887 | 3240 | 3609 | 3971 | 4332 | 4694 | 5056 | 5417 | 5779 | 6141 | 6503 | 6865 | 7227 | 7589 | 7051 | 8313 | 8675 | 163 | 11 | 8969 |
| 72 | 12 | | 3089 | 3451 | 3812 | 4173 | 4535 | 4896 | 5258 | 6619 | 5981 | 6343 | 6704 | 7066 | 7428 | 7750 | 8152 | 8514 | 8876 | 160 | 12 | 8769 |
| 78 | 13 | | 3292 | 3653 | 4015 | 4376 | 4737 | 5098 | 5460 | 5821 | 6183 | 5545 | 6906 | 7268 | 7630 | 7292 | 8353 | 8715 | 9078 | 157 | 13 | 8570 |
| 84 | 14 | | 3495 | 3856 | 4217 | 4570 | 4940 | 5301 | 5662 | 6023 | 6305 | 6747 | 7108 | 7470 | 7531 | 8103 | 8555 | 8217 | 9275 | 153 | 14 | 8371 |
| 99 | 15 | 8 | 3698 | 4059 | 4420 | 4781 | 5142 | 5503 | 5864 | 6226 | 6587 | 6949 | 7310 | 7671 | 8033 | 8395 | 8757 | 9118 | 9480 | 150 | 15 | 2 8171 |
| 96 | 16 | | 3901 | 4262 | 4623 | 4984 | 5345 | 5706 | 6067 | 6428 | 6789 | 7151 | 7512 | 7873 | 8236 | 8596 | 8958 | 9320 | 9681 | 147 | 16 | 7072 |
| 102 | 17 | | 4104 | 4465 | 4826 | 5186 | 5547 | 5900 | 6269 | 6630 | 6992 | 7353 | 7714 | 0076 | 8437 | 8708 | 9160 | 2521 | 0583 | 143 | 17 | 7773 |
| 108 | 18 | 8 (9) | 4307 | 4668 | 5029 | 5389 | 5750 | 6111 | 6472 | 6833 | 7194 | 7555 | 7916 | 8277 | 8632 | 9000 | 9361 | 9723 | 0084 | 140 | 18 | 7573 |
| 114 | 19 | | 4510 | 4871 | 5232 | 5592 | 5953 | 6314 | 6674 | 7035 | 7396 | 7757 | 8118 | 8472 | 8841 | 9202 | 9663 | 9924 | 0286 | 137 | 12 | 7374 |
| 120 | 20 | 8 (9) | 4714 | 5074 | 6435 | 5795 | 6166 | 6516 | 6877 | 7238 | 7599 | 7260 | 8321 | 8602 | 9043 | 0404 | 2765 | 0126 | 0488 | 133 | 20 | 2 7174 |
| 126 | 21 | | 4017 | 5277 | 5638 | 5990 | 6359 | 6719 | 7080 | 7440 | 7801 | 8152 | 8523 | 8884 | 9245 | 9606 | 9967 | 0328 | 0589 | 130 | 21 | 6974 |
| 132 | 22 | | 6120 | 5481 | 5841 | 6201 | 5562 | 6922 | 7282 | 7643 | 8004 | 8364 | 8725 | 9006 | 9447 | 0808 | 0160 | 0530 | 0021 | 127 | 22 | 5776 |
| 138 | 23 | | 6324 | 5684 | 6044 | 6404 | 6765 | 7125 | 7486 | 7846 | 8206 | 8567 | 8928 | 0288 | 9640 | 0010 | 0371 | 0732 | 1053 | 123 | 53 | 6575 |
| 144 | 24 | | 6527 | 5887 | 6247 | 6607 | 6960 | 7328 | 7688 | 8049 | 8405 | 8770 | 9130 | 9491 | 9861 | 0212 | 0573 | 0534 | 1295 | 120 | 54 | 5375 |
| 150 | 25 | 8 (9) | 5731 | 6091 | 5451 | 6811 | 7171 | 7531 | 7891 | 8251 | 8612 | 8972 | 5333 | 9693 | 0054 | 0414 | 0775 | 1136 | 1457 | 117 | 25 | 5 6175 |
| 156 | 25 | | 5934 | 6594 | 6654 | 7014 | 7374 | 7734 | 8094 | 8454 | 8815 | 9175 | 5535 | 9896 | 0256 | 0616 | 0977 | 1338 | 1699 | 113 | 55 | 5975 |
| 162 | 27 | | 6138 | 6498 | 6858 | 7217 | 7677 | 7937 | 8297 | 8657 | 9017 | 5378 | 9738 | 0098 | 0465 | 0812 | 1172 | 1640 | 1901 | 110 | 27 | 5775 |
| 168 | 28 | | 6342 | 6701 | 7061 | 7421 | 7780 | 8140 | 8500 | 8860 | 9220 | 2580 | 9941 | 0301 | 0661 | 1051 | 1385 | 1745 | 5103 | 107 | 28 | 5675 |
| 174 | 29 | | 5546 | 5905 | 7265 | 7624 | 7984 | 8344 | 8704 | 9963 | 9423 | 9783 | 0143 | 0503 | 0864 | 1524 | 1584 | 1944 | 5305 | 103 | 25 | 5374 |
| 180 | 30 | 5 (9) | 6749 | 7109 | 7468 | 7828 | 8187 | 8547 | 8007 | 9266 | 9626 | 9986 | 0346 | 0705 | 1066 | 1426 | 1705 | 2147 | 5507 | 100 | 30 | 2 5174 |
| 186 | 31 | | 6953 | 7313 | 7672 | 8031 | 8391 | 8760 | 9110 | 5470 | 9829 | 0189 | 0549 | 0502 | 1569 | 1622 | 1989 | 2345 | 5709 | 27 | 31 | 4974 |
| 192 | 32 | | 7157 | 7617 | 7876 | 8235 | 8596 | 8964 | 9313 | 9673 | 0033 | 0392 | 0755 | 1115 | 1475 | 1831 | 2191 | 2551 | 2912 | 93 | 35 | 4773 |
| 198 | 33 | | 7361 | 7721 | 8080 | 8439 | 8790 | 9157 | 9517 | 9876 | 0236 | 0595 | 0955 | 1316 | 1674 | 2034 | 5394 | 2754 | 3114 | 20 | 33 | 4573 |
| 204 | 34 | | 7566 | 7525 | 8284 | 8643 | 9002 | 9361 | 9729 | 0080 | 0439 | 0795 | 1150 | 1515 | 1877 | 5537 | 2597 | 2957 | 3316 | 87 | 34 | 4372 |
| 210 | 35 | 8 (9) | 7770 | 8129 | 8488 | 8846 | 9206 | 0565 | 9924 | 0283 | 0542 | 1002 | 1361 | 1721 | 2080 | 2440 | 2790 | 3155 | 3519 | 83 | 35 | 2 4172 |
| 215 | 35 | | 7574 | 8333 | 8692 | 9050 | 9409 | 9768 | 0127 | 0487 | 0846 | 1505 | 1564 | 1024 | 5283 | 2643 | 3002 | 3352 | 3721 | 89 | 36 | 3971 |
| 222 | 37 | | 8178 | 8537 | 8896 | 9254 | 9613 | 9572 | 0331 | 0690 | 1049 | 1498 | 1768 | 2127 | 2486 | 2846 | 3206 | 3564 | 3924 | 77 | 37 | 3771 |
| 228 | 38 | | 8383 | 8741 | 9100 | 9458 | 9817 | 0175 | 0535 | 0894 | 1253 | 1612 | 1971 | 2330 | 2689 | 3049 | 3405 | 3767 | 4127 | 73 | 38 | 3570 |
| 534 | 39 | | 8587 | 8945 | 9304 | 9562 | 0021 | 0380 | 0739 | 1097 | 1456 | 1815 | 2174 | 2533 | 2892 | 3562 | 3611 | 3970 | 4330 | 70 | 32 | 3369 |
| 240 | 40 | 8 (2) | 8701 | 9150 | 9508 | 9867 | 0255 | 0684 | 0942 | 1301 | 1660 | 2019 | 2378 | 2737 | 3095 | 3455 | 3814 | 4173 | 4532 | 67 | 40 | 2 3168 |
| 546 | 41 | | 8996 | 9354 | 9712 | 0071 | 0429 | 0780 | 1146 | 1505 | 1064 | 2222 | 2581 | 2940 | 3299 | 3658 | 4017 | 4375 | 4735 | 63 | 41 | 2957 |
| 252 | 42 | | 9200 | 9559 | 9917 | 0275 | 0633 | 0992 | 1350 | 1709 | 2067 | 2426 | 2785 | 3144 | 3505 | 3861 | 4520 | 4572 | 4238 | 60 | 42 | 2756 |
| 558 | 43 | | 9405 | 9763 | 9121 | 0479 | 0838 | 1195 | 1554 | 1513 | 2571 | 2630 | 2988 | 3347 | 3706 | 4064 | 4423 | 4782 | 5141 | 57 | 43 | 2565 |
| 564 | 44 | | 9610 | 9968 | 0326 | 0654 | 1045 | 1400 | 1768 | 5117 | 2475 | 2834 | 3192 | 3561 | 3509 | 4568 | 4526 | 4985 | 5344 | 53 | 44 | 2364 |
| 270 | 45 | 8 (2) | 5815 | 0172 | 0530 | 0888 | 1246 | 1504 | 1963 | 2321 | 2679 | 3037 | 3396 | 3754 | 4113 | 4471 | 4830 | 5188 | 5547 | 50 | 45 | 2 5163 |
| 276 | 46 | 9 | 0019 | 0377 | 0735 | 1093 | 1451 | 1809 | 2157 | 2525 | 2883 | 3241 | 3600 | 3555 | 4315 | 4675 | 5033 | 5392 | 5750 | 47 | 45 | 1962 |
| 282 | 47 | | 0224 | 0582 | 0940 | 1297 | 1655 | 2013 | 2371 | 2729 | 3087 | 3445 | 3803 | 4162 | 4620 | 4078 | 5237 | 6595 | 5954 | 43 | 47 | 1750 |
| 288 | 48 | | 9422 | 0787 | 1144 | 1502 | 1860 | 5218 | 5576 | 2933 | 3291 | 3649 | 4007 | 4365 | 4724 | 5082 | 6449 | 5799 | 6157 | 40 | 48 | 1559 |
| 294 | 49 | | 0634 | 0995 | 1349 | 1707 | 2064 | 5422 | 2780 | 3130 | 3496 | 3853 | 4211 | 4569 | 4527 | 5286 | 5644 | 6005 | 6360 | 37 | 42 | 1357 |
| 300 | 50 | 9 | 0839 | 1157 | 1564 | 1911 | 2259 | 2627 | 2984 | 3342 | 3700 | 4057 | 4415 | 4773 | 5131 | 5489 | 6847 | 6296 | 6564 | 33 | 50 | 2 1156 |
| 306 | 51 | | 1044 | 1405 | 1759 | 2116 | 2474 | 2831 | 3189 | 3546 | 3504 | 4262 | 4619 | 4277 | 5335 | 5693 | 6051 | 6405 | 5757 | 30 | 51 | 0954 |
| 312 | 52 | | 1250 | 1607 | 1964 | 2321 | 2678 | 3036 | 3393 | 3751 | 4198 | 4466 | 4824 | 6181 | 5539 | 5897 | 5255 | 6613 | 5971 | 27 | 52 | 0753 |
| 318 | 53 | | 1455 | 1012 | 5150 | 2525 | 2883 | 3540 | 3598 | 3955 | 4313 | 4670 | 5028 | 5386 | 6743 | 6101 | 6458 | 6815 | 7174 | 23 | 83 | 0551 |
| 354 | 64 | | 1660 | 2017 | 5374 | 2731 | 3058 | 3446 | 3502 | 4150 | 4517 | 4875 | 5232 | 5590 | 6247 | 6306 | 6662 | 7020 | 7375 | 20 | 54 | 0342 |
| 330 | 55 | 5 | 1865 | 2225 | 5570 | 2936 | 3293 | 3650 | 4007 | 4354 | 4752 | 5079 | 5436 | 6794 | 6151 | 6599 | 6866 | 7524 | 7582 | 17 | 55 | 5 0140 |
| 336 | 56 | | 2071 | 5428 | 5784 | 3141 | 3458 | 3855 | 4512 | 4669 | 4926 | 5583 | 5541 | 5998 | 6355 | 6713 | 7079 | 7428 | 7785 | 13 | 56 | 1 9946 |
| 342 | 57 | | 2276 | 2633 | 2990 | 3346 | 3703 | 4050 | 4417 | 4774 | 5131 | 5488 | 5845 | 6202 | 5560 | 6217 | 7274 | 7632 | 7989 | 10 | 57 | 9744 |
| 345 | 58 | | 2482 | 2835 | 3195 | 3555 | 3908 | 4265 | 4622 | 4979 | 6336 | 5593 | 6050 | 6407 | 5764 | 7121 | 7475 | 7835 | 8193 | 7 | 58 | 9542 |
| 364 | 62 | | 5688 | 3044 | 3400 | 3757 | 4113 | 4470 | 4827 | 5154 | 5540 | 5897 | 6254 | 6611 | 6968 | 7325 | 7683 | 8040 | 8397 | 3 | 55 | 2340 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 44° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 44° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 (9) 6830 | 7194 | 7557 | 7991 | 8284 | 8648 | 9012 | 9376 | 9740 | 0104 | 0468 | 0832 | 1196 | 1560 | 1924 | 2289 | 2653 | 0 | 0' | 8 0660 |
| 6 | 1 | 7031 | 7394 | 7757 | 8121 | 8484 | 8848 | 9212 | 9575 | 9939 | 0303 | 0667 | 1031 | 1395 | 1759 | 2123 | 2488 | 2852 | 3 | 1 | 0869 |
| 19 | 2 | 7231 | 7594 | 7958 | 8321 | 8684 | 9048 | 9412 | 9775 | 0139 | 0503 | 0867 | 1230 | 1594 | 1958 | 2392 | 2687 | 3051 | 7 | 2 | 1064 |
| 18 | 3 | 7431 | 7795 | 8158 | 8521 | 8885 | 9248 | 9612 | 9975 | 0339 | 0702 | 1066 | 1430 | 1794 | 2158 | 2521 | 2886 | 3950 | 10 | 3 | 1267 |
| 24 | 4 | 7632 | 7995 | 8358 | 8721 | 9085 | 9448 | 9819 | 0175 | 0538 | 0902 | 1265 | 1629 | 1993 | 2357 | 9720 | 3085 | 3448 | 14 | 4 | 1469 |
| 30 | 5 | 8 (9) 7833 | 8196 | 8559 | 8929 | 9285 | 9648 | 0019 | 0375 | 0738 | 1102 | 1465 | 1829 | 2192 | 2556 | 2919 | 3284 | 3647 | 17 | 5 | 8 1671 |
| 36 | 6 | 8033 | 0396 | 8759 | 9122 | 9485 | 9848 | 0212 | 0575 | 0938 | 1301 | 1665 | 2028 | 2392 | 2755 | 3119 | 3483 | 3846 | 20 | 6 | 1074 |
| 49 | 7 | 8934 | 8597 | 8960 | 9322 | 9685 | 0048 | 0412 | 0775 | 1138 | 1501 | 1864 | 2228 | 2591 | 2955 | 3318 | 3682 | 4046 | 24 | 7 | 2076 |
| 48 | 8 | 0435 | 8797 | 9160 | 9523 | 9886 | 0249 | 0612 | 0975 | 1338 | 1701 | 2064 | 2428 | 2791 | 3154 | 3518 | 3881 | 4245 | 27 | 8 | 2279 |
| 64 | 9 | 0636 | 8998 | 9361 | 9794 | 0086 | 0449 | 0819 | 1175 | 1538 | 1901 | 2964 | 2627 | 2990 | 3354 | 3717 | 4080 | 4444 | 31 | 9 | 2481 |
| 60 | 10 | 8 (9) 8837 | 9199 | 9562 | 9924 | 0287 | 0649 | 1012 | 1375 | 1738 | 2101 | 2464 | 2827 | 3190 | 3553 | 3917 | 4979 | 4643 | 34 | 10 | 8 9684 |
| 56 | 11 | 9038 | 9400 | 9762 | 0195 | 0487 | 0850 | 1213 | 1575 | 1938 | 2301 | 2664 | 3027 | 3390 | 3753 | 4116 | 4479 | 4842 | 37 | 11 | 2887 |
| 72 | 12 | 9239 | 9601 | 9963 | 0325 | 0688 | 1050 | 1413 | 1776 | 2138 | 2501 | 2864 | 3227 | 3590 | 3953 | 4316 | 4679 | 5042 | 41 | 19 | 3089 |
| 78 | 13 | 9440 | 9802 | 0164 | 0526 | 0889 | 1251 | 1614 | 1976 | 2339 | 2701 | 3064 | 3427 | 3789 | 4159 | 4515 | 4878 | 5241 | 44 | 13 | 3299 |
| 84 | 14 | 9641 | 0003 | 0365 | 0727 | 1089 | 1452 | 1814 | 2176 | 2539 | 2901 | 3264 | 3627 | 3989 | 4352 | 4715 | 5078 | 5441 | 48 | 14 | 3495 |
| 90 | 15 | 8 9, 9842 | 0204 | 0566 | 0928 | 1290 | 1652 | 2015 | 9377 | 2739 | 3102 | 3464 | 3827 | 4189 | 4559 | 4915 | 5278 | 5640 | 51 | 15 | 8 3698 |
| 96 | 15 | 9 0043 | 0405 | 0767 | 1129 | 1491 | 1853 | 2215 | 2577 | 2940 | 3302 | 3664 | 4027 | 4389 | 4759 | 5115 | 5477 | 5840 | 54 | 16 | 3901 |
| 102 | 17 | 0245 | 0606 | 0968 | 1330 | 1692 | 2054 | 2416 | 2778 | 3140 | 3502 | 3865 | 4227 | 4589 | 4952 | 5315 | 5677 | 6040 | 58 | 17 | 4104 |
| 108 | 18 | 0446 | 0808 | 1169 | 1531 | 1893 | 2253 | 2617 | 2979 | 3341 | 3703 | 4065 | 4427 | 4790 | 5152 | 5515 | 5877 | 6239 | 51 | 18 | 4307 |
| 114 | 19 | 0647 | 1009 | 1371 | 1732 | 2094 | 2456 | 2818 | 3179 | 3541 | 3903 | 4265 | 4628 | 4990 | 5352 | 5715 | 6077 | 6439 | 55 | 19 | 4510 |
| 120 | 20 | 9 0849 | 1210 | 1572 | 1933 | 2295 | 2657 | 3018 | 3380 | 3742 | 4104 | 4466 | 4828 | 5190 | 5552 | 5915 | 6277 | 6639 | 68 | 90 | 8 4714 |
| 126 | 21 | 1050 | 1412 | 1773 | 2135 | 2496 | 2858 | 3219 | 3581 | 3943 | 4305 | 4667 | 5029 | 5390 | 5753 | 6115 | 6477 | 6839 | 71 | 91 | 4917 |
| 132 | 22 | 1252 | 1613 | 1976 | 2336 | 9697 | 3059 | 3420 | 3782 | 4144 | 4505 | 4867 | 5229 | 5591 | 5953 | 6315 | 6677 | 7039 | 75 | 92 | 5120 |
| 138 | 23 | 1454 | 1815 | 2176 | 2537 | 2899 | 3260 | 3621 | 3983 | 4345 | 4706 | 5068 | 5430 | 5791 | 6153 | 6515 | 6877 | 7239 | 78 | 23 | 5394 |
| 144 | 24 | 1655 | 2017 | 2378 | 2739 | 3100 | 3461 | 3823 | 4184 | 4546 | 4907 | 5269 | 5630 | 5999 | 6354 | 6715 | 7077 | 7439 | 82 | 94 | 5597 |
| 150 | 25 | 9 1857 | 2218 | 2579 | 2940 | 3301 | 3663 | 4024 | 4385 | 4747 | 5108 | 5469 | 5831 | 6192 | 6554 | 6916 | 7278 | 7639 | 85 | 25 | 8 6731 |
| 156 | 26 | 2059 | 2420 | 2781 | 3149 | 3503 | 3864 | 4225 | 4586 | 4948 | 5309 | 5670 | 6032 | 6393 | 6735 | 7116 | 7478 | 7840 | 88 | 96 | 5934 |
| 169 | 27 | 2261 | 2622 | 2983 | 3343 | 3704 | 4065 | 4426 | 4787 | 5149 | 5510 | 5871 | 6232 | 6594 | 6955 | 7317 | 7678 | 8040 | 92 | 27 | 5138 |
| 168 | 98 | 2463 | 2824 | 3184 | 3545 | 3906 | 4967 | 4628 | 4989 | 5350 | 5711 | 6072 | 6433 | 6795 | 7156 | 7617 | 7879 | 8240 | 95 | 98 | 5342 |
| 174 | 99 | 2665 | 3026 | 3386 | 3747 | 4108 | 4468 | 4899 | 5190 | 5551 | 5912 | 6273 | 6634 | 6995 | 7357 | 7718 | 8079 | 8441 | 99 | 29 | 5546 |
| 181 | 30 | 9 2867 | 3298 | 3588 | 3949 | 4309 | 4670 | 5031 | 5391 | 5752 | 6113 | 6474 | 6835 | 7196 | 7557 | 7918 | 8280 | 8641 | 102 | 30 | 8 5750 |
| 187 | 31 | 3070 | 3430 | 3790 | 4151 | 4511 | 4872 | 5232 | 5593 | 5951 | 6314 | 6675 | 7036 | 7397 | 7768 | 8119 | 8480 | 8842 | 105 | 31 | 5953 |
| 193 | 32 | 3272 | 3632 | 3992 | 4353 | 4713 | 5073 | 5434 | 5794 | 6155 | 6516 | 6876 | 7237 | 7598 | 7959 | 8320 | 8681 | 9042 | 109 | 32 | 7157 |
| 199 | 33 | 3474 | 3834 | 4194 | 4555 | 4915 | 5275 | 5636 | 5996 | 6356 | 6717 | 7078 | 7438 | 7799 | 8160 | 8591 | 8882 | 9243 | 112 | 33 | 7361 |
| 205 | 34 | 3676 | 4036 | 4396 | 4757 | 5117 | 5477 | 5837 | 6198 | 6558 | 6918 | 7279 | 7640 | 8000 | 8361 | 8722 | 9083 | 9443 | 116 | 34 | 7566 |
| 211 | 35 | 9 3879 | 4239 | 4599 | 4959 | 5319 | 5679 | 6039 | 6399 | 6760 | 7120 | 7480 | 7841 | 8201 | 8562 | 8923 | 9283 | 9644 | 119 | 35 | 8 7770 |
| 217 | 36 | 4081 | 4411 | 4801 | 5161 | 5521 | 5881 | 6241 | 6601 | 6961 | 7322 | 7689 | 8042 | 8403 | 8763 | 9124 | 9484 | 9845 | 122 | 36 | 7974 |
| 223 | 37 | 9 (0) 4284 | 4613 | 5003 | 5363 | 5723 | 6083 | 6443 | 6803 | 7163 | 7523 | 7883 | 8244 | 8604 | 8964 | 9395 | 9685 | 0046 | 126 | 37 | 8178 |
| 299 | 38 | 4485 | 4846 | 5906 | 5565 | 5925 | 6285 | 6645 | 7005 | 7365 | 7725 | 8085 | 8445 | 8805 | 9166 | 9526 | 9886 | 0247 | 129 | 38 | 8383 |
| 235 | 39 | 4689 | 5048 | 5408 | 5768 | 6127 | 6187 | 6847 | 7207 | 7567 | 7926 | 8286 | 8647 | 9007 | 9367 | 9727 | 0087 | 0448 | 133 | 39 | 8587 |
| 241 | 40 | 9 (0) 4892 | 5951 | 5611 | 5970 | 6330 | 6689 | 7049 | 7409 | 7768 | 8198 | 8188 | 8818 | 9208 | 9568 | 9928 | 0289 | 0649 | 136 | 40 | 8 8791 |
| 247 | 41 | 5094 | 5454 | 5813 | 6172 | 6532 | 6891 | 7951 | 7611 | 7970 | 8330 | 8690 | 9050 | 9410 | 9770 | 0130 | 0490 | 0850 | 139 | 41 | 8996 |
| 253 | 42 | 5297 | 5656 | 6016 | 6375 | 6734 | 7094 | 7453 | 7813 | 8172 | 8532 | 8899 | 9251 | 9611 | 9971 | 0331 | 0691 | 1051 | 143 | 42 | 9201 |
| 259 | 43 | 5500 | 5859 | 6218 | 6578 | 6937 | 7296 | 7655 | 8015 | 8374 | 8734 | 9093 | 9453 | 9813 | 0173 | 0533 | 0892 | 1252 | 146 | 43 | 9405 |
| 265 | 44 | 5703 | 6062 | 6421 | 6780 | 7139 | 7498 | 7858 | 8217 | 8576 | 8936 | 9995 | 9655 | 0015 | 0374 | 0734 | 1094 | 1454 | 150 | 44 | 9610 |
| 271 | 45 | 9 (0) 6906 | 6265 | 6624 | 6983 | 7342 | 7701 | 8060 | 8419 | 8779 | 9138 | 9497 | 9857 | 0216 | 0576 | 0936 | 1295 | 1655 | 153 | 45 | 8 2815 |
| 277 | 46 | 6109 | 6468 | 6897 | 7186 | 7544 | 7904 | 8263 | 8629 | 8981 | 9340 | 9699 | 0059 | 0418 | 0778 | 1137 | 1497 | 1856 | 156 | 46 | 9 0019 |
| 283 | 47 | 6319 | 6671 | 7030 | 7388 | 7747 | 8106 | 8465 | 8824 | 9183 | 9542 | 9902 | 0961 | 0620 | 0979 | 1339 | 1698 | 2058 | 160 | 47 | 0224 |
| 289 | 48 | 6516 | 6874 | 7233 | 7691 | 7950 | 8309 | 8668 | 9027 | 9386 | 9745 | 0104 | 0463 | 0822 | 1181 | 1541 | 1900 | 2259 | 163 | 48 | 0429 |
| 295 | 49 | 6719 | 7077 | 7436 | 7794 | 8153 | 8512 | 8870 | 9229 | 9588 | 9947 | 0306 | 0665 | 1024 | 1383 | 1742 | 2109 | 2461 | 167 | 49 | 0634 |
| 301 | 50 | 9 (0) 6992 | 7280 | 7539 | 7997 | 8356 | 8714 | 9073 | 9432 | 9790 | 0149 | 0508 | 0867 | 1226 | 1585 | 1944 | 2303 | 9663 | 170 | 50 | 9 0839 |
| 307 | 51 | 7195 | 7484 | 7842 | 8900 | 8559 | 8917 | 9275 | 9634 | 9993 | 0352 | 0710 | 1069 | 1428 | 1787 | 2146 | 2505 | 2864 | 173 | 61 | 1044 |
| 313 | 69 | 7329 | 7687 | 8045 | 8403 | 8762 | 9120 | 9478 | 9837 | 0196 | 0554 | 0913 | 1272 | 1630 | 1989 | 2348 | 2707 | 3066 | 177 | 62 | 1250 |
| 319 | 53 | 7532 | 7890 | 89 . | 8607 | 8965 | 9323 | 9681 | 0040 | 0398 | 0757 | 1115 | 1474 | 1633 | 2191 | 2550 | 9909 | 3268 | 180 | 53 | 1455 |
| 325 | 54 | 7736 | 8094 | 8452 | 8810 | 9168 | 9526 | 9884 | 0242 | 0601 | 0959 | 1318 | 1676 | 9035 | 9393 | 2752 | 3111 | 3470 | 184 | 64 | 1660 |
| 331 | 65 | 9 (0) 7939 | 8297 | 8655 | 9013 | 9371 | 9729 | 0087 | 0445 | 0804 | 1169 | 1520 | 1879 | 2237 | 9596 | 2954 | 3313 | 3672 | 187 | 55 | 9 1866 |
| 337 | 66 | 8143 | 8501 | 8859 | 9216 | 9574 | 9932 | 0290 | 0648 | 1007 | 1365 | 1723 | 2081 | 2440 | 2798 | 3156 | 3515 | 3874 | 190 | 58 | 2071 |
| 343 | 67 | 8347 | 8704 | 9062 | 9420 | 9778 | 0135 | 0493 | 0851 | 1209 | 1568 | 1996 | 2284 | 2642 | 3000 | 3359 | 3717 | 4076 | 194 | 57 | 2277 |
| 349 | 58 | 8551 | 8908 | 9266 | 9623 | 9981 | 0339 | 0697 | 1054 | 1412 | 1770 | 2128 | 2486 | 9845 | 3903 | 3561 | 3919 | 4278 | 197 | 50 | 2482 |
| 356 | 59 | 8754 | 9112 | 9469 | 9827 | 0184 | 0542 | 0900 | 1258 | 1615 | 1973 | 2331 | 2689 | 3047 | 3405 | 3764 | 4122 | 4480 | 201 | 59 | 2688 |

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| **Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas. |
|---|---|

| Partes para segundos del Arg. Auxiliar | 45° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 45° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0' | 9 | 2893 | 3249 | 3606 | 3962 | 4319 | 4675 | 5031 | 5388 | 5715 | 6102 | 6459 | 6816 | 7173 | 7530 | 7887 | 6214 | 0601 | 204 | 0' | 1 9136 |
| 6 | 1 | | 3099 | 3455 | 3811 | 4168 | 4524 | 4880 | 5237 | 5594 | 5950 | 6307 | 6664 | 7020 | 7377 | 7731 | 8091 | 8148 | 8805 | 201 | 1 | 8935 |
| 12 | 9 | | 3305 | 3661 | 4017 | 4373 | 4729 | 5086 | 5442 | 5792 | 6155 | 6512 | 6868 | 7995 | 7582 | 7938 | 8295 | 8652 | 9009 | 197 | 2 | 8733 |
| 18 | 3 | | 3511 | 3867 | 4223 | 4579 | 4935 | 5291 | 5647 | 6001 | 6360 | 6717 | 7073 | 7430 | 7786 | 8143 | 8500 | 8856 | 9213 | 194 | 3 | 8531 |
| 24 | 4 | | 3716 | 4072 | 4428 | 4784 | 5140 | 5496 | 5853 | 6209 | 6565 | 6929 | 7278 | 7631 | 7991 | 8348 | 8704 | 9061 | 9418 | 190 | 4 | 8328 |
| 99 | 5 | 9 | 3922 | 4278 | 4634 | 4990 | 5346 | 5702 | 6058 | 6114 | 6770 | 7127 | 7483 | 7839 | 8196 | 8559 | 8909 | 9265 | 9622 | 187 | 5 | 1 8126 |
| 35 | 6 | | 4128 | 4484 | 4840 | 5196 | 5551 | 5907 | 6263 | 6619 | 6975 | 7339 | 7688 | 8044 | 8400 | 8757 | 9113 | 9470 | 9826 | 184 | 6 | 7924 |
| 41 | 7 | 9 (0) | 4334 | 4690 | 5046 | 5101 | 5757 | 6113 | 6469 | 6825 | 7181 | 7537 | 7893 | 8249 | 8605 | 8962 | 9318 | 9674 | 0031 | 180 | 7 | 7721 |
| 47 | 8 | | 4511 | 4896 | 5252 | 5607 | 5963 | 6319 | 6674 | 7030 | 7386 | 7742 | 8098 | 8451 | 8810 | 2166 | 9523 | 9879 | 0235 | 177 | 8 | 7519 |
| 53 | 9 | | 4747 | 5102 | 5158 | 5813 | 6169 | 6524 | 6880 | 7236 | 7591 | 7947 | 8303 | 8659 | 9015 | 9371 | 9727 | 0083 | 0440 | 173 | 9 | 7316 |
| 59 | 10 | 9 (0) | 4953 | 5308 | 5664 | 6019 | 6374 | 6730 | 7085 | 7441 | 7797 | 8152 | 8508 | 8864 | 9220 | 9576 | 9932 | 0288 | 0614 | 170 | 10 | 1 7113 |
| 65 | 11 | | 5159 | 5515 | 5870 | 6225 | 6580 | 6936 | 7291 | 7647 | 8002 | 8358 | 8714 | 9069 | 9425 | 9781 | 0137 | 0193 | 0849 | 167 | 11 | 6911 |
| 71 | 12 | | 5366 | 5721 | 6076 | 6431 | 6786 | 7142 | 7497 | 7852 | 8208 | 8563 | 8919 | 9275 | 9630 | 9986 | 0342 | 0698 | 1054 | 163 | 12 | 6708 |
| 77 | 13 | | 5579 | 5927 | 6982 | 6637 | 6992 | 7347 | 7703 | 8058 | 8413 | 8769 | 9124 | 9180 | 9835 | 0191 | 0547 | 0903 | 1258 | 160 | 13 | 6505 |
| 83 | 14 | | 5779 | 6133 | 6188 | 6843 | 7198 | 7553 | 7909 | 8261 | 8619 | 8274 | 9330 | 9685 | 0041 | 0396 | 0752 | 1108 | 1163 | 156 | 14 | 6302 |
| 68 | 15 | 9 (0) | 5985 | 6310 | 6695 | 7050 | 7405 | 7760 | 8115 | 8470 | 8825 | 9180 | 9535 | 9891 | 0246 | 0601 | 0957 | 1313 | 1668 | 153 | 15 | 1 6092 |
| 94 | 16 | | 6192 | 6547 | 6901 | 7256 | 7611 | 7966 | 8321 | 8676 | 9031 | 9386 | 9741 | 0096 | 0151 | 0807 | 1162 | 1518 | 1873 | 150 | 16 | 5896 |
| 100 | 17 | | 6399 | 6753 | 7108 | 7462 | 7817 | 8172 | 8527 | 8882 | 9236 | 9591 | 9946 | 0302 | 0657 | 1012 | 1367 | 1723 | 2078 | 146 | 17 | 5623 |
| 106 | 18 | | 6605 | 6960 | 7314 | 7669 | 8023 | 8378 | 8733 | 9088 | 9412 | 9797 | 0152 | 0507 | 0862 | 1217 | 1573 | 1228 | 2283 | 143 | 18 | 5490 |
| 112 | 19 | | 6812 | 7166 | 7521 | 7875 | 8230 | 8584 | 8939 | 9294 | 9618 | 0003 | 0358 | 0713 | 1068 | 1423 | 1778 | 2133 | 2188 | 139 | 19 | 5286 |
| 118 | 90 | 9 (0) | 7019 | 7373 | 7727 | 8082 | 8136 | 8791 | 9145 | 9500 | 9854 | 0209 | 0561 | 0919 | 1273 | 1628 | 1983 | 2338 | 2693 | 136 | 20 | 1 5083 |
| 124 | 21 | | 7926 | 7580 | 7234 | 8288 | 8613 | 8997 | 9351 | 9706 | 0060 | 0415 | 0770 | 1124 | 1479 | 1834 | 2189 | 2544 | 2899 | 133 | 91 | 4880 |
| 130 | 22 | | 7433 | 7787 | 8141 | 8495 | 8849 | 9203 | 9558 | 9919 | 0267 | 0621 | 0975 | 1330 | 1685 | 2039 | 9394 | 2749 | 3104 | 129 | 92 | 4676 |
| 135 | 23 | | 7610 | 7991 | 8348 | 8702 | 9056 | 9410 | 9764 | 0118 | 0473 | 0897 | 1181 | 1536 | 1891 | 2215 | 2600 | 2955 | 3309 | 126 | 23 | 4473 |
| 141 | 24 | | 7847 | 8901 | 8555 | 8908 | 9262 | 9617 | 9971 | 0325 | 0679 | 1033 | 1388 | 1742 | 2096 | 2151 | 2805 | 3160 | 3515 | 122 | 94 | 4262 |
| 147 | 25 | 9 (0) | 6054 | 8408 | 8761 | 9115 | 9469 | 9823 | 0177 | 0531 | 0885 | 1239 | 1591 | 1948 | 2302 | 2657 | 3011 | 3366 | 3720 | 119 | 95 | 1 4066 |
| 153 | 26 | | 6261 | 8615 | 8968 | 9322 | 9676 | 0038 | 0384 | 0738 | 1092 | 1446 | 1800 | 2154 | 2508 | 2862 | 3217 | 3571 | 3926 | 116 | 96 | 3862 |
| 159 | 27 | | 8468 | 8892 | 9176 | 9529 | 9883 | 0236 | 0590 | 0944 | 1298 | 1652 | 2006 | 2360 | 2714 | 3068 | 3423 | 3777 | 4131 | 112 | 27 | 3658 |
| 165 | 26 | | 8676 | 2029 | 9383 | 9736 | 0090 | 0443 | 0797 | 1151 | 1505 | 1858 | 2212 | 2566 | 2920 | 3274 | 3699 | 3983 | 4337 | 109 | 28 | 3454 |
| 171 | 29 | | 8883 | 9237 | 9590 | 9943 | 0997 | 0650 | 1004 | 1357 | 1711 | 9065 | 2419 | 2772 | 3126 | 3480 | 3835 | 4189 | 4543 | 105 | 99 | 3950 |
| 177 | 30 | 9 (0) | 9091 | 9444 | 9797 | 0150 | 0504 | 0857 | 1211 | 1564 | 1918 | 2271 | 2625 | 2979 | 3333 | 3687 | 4040 | 4391 | 4749 | 102 | 30 | 1 3046 |
| 183 | 31 | | 9290 | 9651 | 0004 | 0358 | 0711 | 1064 | 1417 | 1771 | 2124 | 2478 | 9832 | 3185 | 3539 | 3893 | 4216 | 4600 | 4954 | 99 | 31 | 2842 |
| 189 | 32 | | 9506 | 9852 | 0912 | 0565 | 0918 | 1271 | 1624 | 1978 | 2331 | 2685 | 3038 | 3392 | 3745 | 4099 | 1453 | 4806 | 5160 | 95 | 32 | 2638 |
| 194 | 33 | | 9713 | 0066 | 0419 | 0772 | 1125 | 1478 | 1831 | 2185 | 9538 | 2891 | 3245 | 3598 | 3952 | 4305 | 4659 | 5012 | 5366 | 22 | 33 | 2434 |
| 200 | 34 | | 9921 | 0274 | 0627 | 0980 | 1332 | 1685 | 2038 | 2392 | 2745 | 3098 | 3451 | 3805 | 4158 | 4511 | 4865 | 5212 | 5572 | 88 | 34 | 2230 |
| 206 | 35 | 0 | 0129 | 0481 | 0834 | 1187 | 1540 | 1893 | 9946 | 2599 | 2952 | 3305 | 3658 | 4011 | 4364 | 4718 | 5071 | 5425 | 5778 | 85 | 35 | 1 2026 |
| 219 | 36 | | 0337 | 0689 | 1042 | 1394 | 1747 | 2100 | 2453 | 9806 | 3159 | 3519 | 3865 | 1218 | 4571 | 4924 | 5278 | 5631 | 5984 | 82 | 36 | 1822 |
| 218 | 37 | | 0544 | 0897 | 1249 | 1602 | 1955 | 2307 | 2660 | 3013 | 3366 | 3719 | 4071 | 4424 | 4778 | 5131 | 5484 | 5837 | 6191 | 78 | 37 | 1617 |
| 224 | 38 | | 0759 | 1105 | 1457 | 1810 | 2162 | 2515 | 2867 | 3220 | 3573 | 3926 | 4278 | 4631 | 4984 | 5337 | 5690 | 6044 | 6397 | 75 | 36 | 1413 |
| 230 | 39 | | 0960 | 1313 | 1665 | 2017 | 9370 | 2722 | 3075 | 3427 | 3780 | 4133 | 4485 | 4838 | 5191 | 5544 | 5897 | 6250 | 6603 | 71 | 39 | 1209 |
| 236 | 40 | 0 | 1168 | 1521 | 1873 | 2225 | 2577 | 2930 | 3282 | 3634 | 3987 | 4340 | 4692 | 5045 | 5398 | 5751 | 6103 | 6456 | 6809 | 68 | 40 | 1 1004 |
| 242 | 41 | | 1377 | 1729 | 2081 | 2433 | 2785 | 3137 | 3489 | 3849 | 4194 | 4547 | 4899 | 5252 | 5605 | 5957 | 6310 | 6663 | 7016 | 65 | 41 | 0792 |
| 247 | 42 | | 1585 | 1937 | 2989 | 2641 | 2993 | 3345 | 3697 | 4049 | 4402 | 1754 | 5107 | 5459 | 5812 | 6164 | 6517 | 6870 | 7222 | 61 | 42 | 0595 |
| 253 | 43 | | 1793 | 2145 | 2497 | 2848 | 3200 | 3552 | 3905 | 4257 | 4609 | 4961 | 5314 | 5666 | 6019 | 6371 | 6724 | 7076 | 7429 | 58 | 43 | 0390 |
| 259 | 44 | | 2001 | 2353 | 2705 | 3056 | 3408 | 3760 | 4112 | 4464 | 1816 | 5169 | 5521 | 5873 | 6226 | 6578 | 6930 | 7283 | 7636 | 54 | 41 | 0185 |
| 265 | 45 | 0 | 2209 | 2561 | 2913 | 3264 | 3616 | 3968 | 4320 | 4679 | 5024 | 5376 | 5728 | 6080 | 6433 | 6785 | 7137 | 7490 | 7842 | 51 | 45 | 0 9981 |
| 271 | 46 | | 2418 | 2769 | 3121 | 3473 | 3824 | 4176 | 4528 | 1880 | 5231 | 5583 | 5935 | 6288 | 6640 | 6992 | 7344 | 7697 | 8049 | 48 | 46 | 9776 |
| 277 | 47 | | 2626 | 9978 | 3329 | 3681 | 4032 | 4384 | 4736 | 5087 | 5439 | 5791 | 6143 | 6495 | 6847 | 7199 | 7551 | 7903 | 8956 | 44 | 47 | 9571 |
| 283 | 48 | | 2835 | 3186 | 3537 | 3889 | 4240 | 4592 | 4913 | 5995 | 5647 | 5999 | 6350 | 6702 | 7054 | 7406 | 7758 | 8110 | 8162 | 41 | 48 | 9366 |
| 289 | 49 | | 3043 | 3395 | 3746 | 4097 | 4448 | 4800 | 5151 | 5503 | 5855 | 6206 | 6558 | 6910 | 7261 | 7613 | 7965 | 8317 | 8669 | 37 | 49 | 9161 |
| 295 | 50 | 0 | 3259 | 3603 | 3954 | 4305 | 4657 | 5008 | 5359 | 5711 | 6062 | 6114 | 6765 | 7117 | 7469 | 7821 | 8172 | 8524 | 8876 | 34 | 50 | 0 8956 |
| 301 | 51 | | 3461 | 3812 | 4163 | 4514 | 4865 | 5216 | 5567 | 5919 | 6270 | 6629 | 6973 | 7325 | 7676 | 8028 | 8380 | 8731 | 9083 | 31 | 51 | 8750 |
| 306 | 52 | | 3670 | 4020 | 4371 | 4722 | 5073 | 5424 | 5776 | 6127 | 6478 | 6829 | 7181 | 7532 | 7884 | 8235 | 8587 | 8939 | 9290 | 27 | 52 | 8545 |
| 319 | 53 | | 3878 | 4299 | 4580 | 1931 | 5282 | 5633 | 5984 | 6335 | 6686 | 7037 | 7389 | 7740 | 8091 | 8143 | 8794 | 9146 | 9497 | 24 | 53 | 8340 |
| 318 | 54 | | 4087 | 4438 | 4789 | 5139 | 5490 | 5841 | 6192 | 6543 | 6894 | 7245 | 7596 | 7948 | 8299 | 8650 | 9000 | 9353 | 9705 | 20 | 54 | 8134 |
| 324 | 55 | 0 | 4296 | 4647 | 4997 | 5348 | 5699 | 6049 | 6400 | 6751 | 7109 | 7453 | 7804 | 8155 | 8507 | 8858 | 9209 | 9560 | 9912 | 17 | 55 | 0 7929 |
| 330 | 56 | 0 (1) | 4505 | 4856 | 5206 | 5557 | 5907 | 6958 | 6609 | 6959 | 7310 | 7661 | 8012 | 8363 | 8714 | 9065 | 9417 | 9768 | 0119 | 14 | 56 | 7723 |
| 336 | 57 | | 4714 | 5064 | 5415 | 5765 | 6116 | 6466 | 6817 | 7168 | 7518 | 7869 | 8920 | 8571 | 8922 | 9273 | 9624 | 9975 | 0327 | 10 | 57 | 7518 |
| 342 | 58 | | 4923 | 5273 | 5624 | 5974 | 6324 | 6675 | 7025 | 7376 | 7727 | 8077 | 8428 | 8779 | 9130 | 2481 | 9839 | 0183 | 0534 | 7 | 58 | 7312 |
| 348 | 59 | | 5132 | 5483 | 5833 | 6183 | 6533 | 6884 | 7234 | 7585 | 7935 | 8286 | 8636 | 8987 | 9338 | 9689 | 0039 | 0390 | 0741 | 3 | 59 | 7107 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 45° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos | 45° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 9 (0) | 8958 | 9316 | 9673 | 0030 | 0388 | 0745 | 1103 | 1461 | 1818 | 2176 | 2534 | 2892 | 3250 | 3608 | 3966 | 4324 | 1682 | 0 | 0′ | 9 2893 |
| 6 | 1 | | 9162 | 9519 | 9877 | 0234 | 0591 | 0949 | 1306 | 1661 | 2022 | 2379 | 2737 | 1095 | 3453 | 3811 | 4168 | 4526 | 1885 | 3 | 1 | 3099 |
| 12 | 2 | | 9366 | 9723 | 0081 | 0438 | 0795 | 1152 | 1510 | 1867 | 2225 | 2582 | 2940 | 3298 | 3655 | 4013 | 4371 | 4729 | 5087 | 7 | 2 | 3305 |
| 18 | 3 | | 9570 | 9927 | 0284 | 0642 | 0999 | 1356 | 1713 | 2970 | 2428 | 2785 | 3143 | 3501 | 3858 | 4216 | 4574 | 4931 | 5289 | 10 | 3 | 3511 |
| 24 | 4 | | 9774 | 0131 | 0488 | 0845 | 1202 | 1550 | 1917 | 2274 | 2631 | 2989 | 3346 | 3704 | 4061 | 4419 | 4776 | 5134 | 5492 | 14 | 4 | 3716 |
| 30 | 5 | 2 (0) | 9979 | 0335 | 0692 | 1049 | 1406 | 1763 | 2120 | 2477 | 2835 | 3192 | 3549 | 3907 | 4264 | 4621 | 4979 | 5337 | 5694 | 17 | 5 | 9 3922 |
| 35 | 6 | 0 | 0183 | 0540 | 0896 | 1253 | 1610 | 1967 | 2324 | 2681 | 3038 | 3395 | 3752 | 4110 | 4467 | 4824 | 5182 | 5539 | 5897 | 21 | 6 | 4128 |
| 41 | 7 | | 0387 | 0744 | 1100 | 1457 | 1814 | 2171 | 2528 | 2885 | 3241 | 3599 | 3956 | 4313 | 4670 | 5027 | 5385 | 5742 | 6100 | 24 | 7 | 4335 |
| 47 | 8 | | 0592 | 0948 | 1305 | 1661 | 2018 | 2375 | 2731 | 3088 | 3445 | 3802 | 4159 | 4516 | 4873 | 5230 | 5588 | 5945 | 6302 | 28 | 8 | 4541 |
| 53 | 9 | | 0796 | 1152 | 1509 | 1865 | 2222 | 2578 | 2935 | 3292 | 3649 | 4005 | 4362 | 4719 | 5076 | 5133 | 5791 | 6148 | 6505 | 31 | 9 | 4747 |
| 59 | 10 | 0 | 1000 | 1357 | 1713 | 2069 | 2426 | 2782 | 3139 | 3496 | 3852 | 4209 | 4566 | 4923 | 5280 | 5637 | 5994 | 6351 | 6708 | 35 | 10 | 9 4953 |
| 65 | 11 | | 1205 | 1561 | 1917 | 2274 | 2630 | 2986 | 3343 | 3699 | 4056 | 4413 | 4769 | 5126 | 5483 | 5840 | 6197 | 6551 | 6911 | 38 | 11 | 5159 |
| 71 | 12 | | 1410 | 1766 | 2122 | 2478 | 2834 | 3120 | 3547 | 3903 | 4260 | 4616 | 4973 | 3329 | 5686 | 6043 | 6100 | 6757 | 7114 | 41 | 12 | 5366 |
| 77 | 13 | | 1614 | 1970 | 2326 | 2682 | 3038 | 3395 | 3751 | 4107 | 4464 | 4820 | 5176 | 5533 | 5890 | 6246 | 6603 | 6960 | 7317 | 45 | 13 | 5572 |
| 83 | 14 | | 1819 | 2175 | 2531 | 2887 | 3243 | 3599 | 3955 | 4311 | 4667 | 5024 | 5380 | 5737 | 6093 | 6450 | 6806 | 7163 | 7520 | 48 | 14 | 5779 |
| 69 | 15 | 0 | 2024 | 2380 | 2735 | 3091 | 3147 | 3803 | 4159 | 4515 | 4871 | 5228 | 5584 | 5940 | 6297 | 6653 | 7010 | 7366 | 7723 | 52 | 15 | 9 5985 |
| 95 | 16 | | 2229 | 2584 | 2940 | 3296 | 3652 | 4007 | 4363 | 4719 | 5075 | 5432 | 5788 | 6144 | 6500 | 6857 | 7213 | 7569 | 7926 | 55 | 16 | 6192 |
| 100 | 17 | | 2434 | 2789 | 3145 | 3500 | 3856 | 1212 | 4568 | 4924 | 5279 | 5636 | 5092 | 6318 | 6704 | 7060 | 7416 | 7773 | 8129 | 59 | 17 | 6399 |
| 106 | 18 | | 2639 | 2994 | 3349 | 3705 | 4061 | 1416 | 4772 | 5128 | 5484 | 5840 | 6195 | 6551 | 6908 | 7264 | 7620 | 7976 | 8332 | 62 | 18 | 6605 |
| 112 | 19 | | 2844 | 3199 | 3554 | 3910 | 4265 | 4621 | 4976 | 5332 | 5688 | 6044 | 6399 | 6735 | 7111 | 7467 | 7823 | 8180 | 8536 | 66 | 19 | 6812 |
| 118 | 20 | 0 | 3049 | 3404 | 3759 | 4114 | 4470 | 4825 | 5181 | 5536 | 5892 | 6218 | 6603 | 6959 | 7315 | 7671 | 8027 | 8383 | 8739 | 69 | 20 | 9 7019 |
| 124 | 21 | | 3254 | 3609 | 3964 | 4319 | 4675 | 5030 | 5385 | 5741 | 6096 | 6152 | 5808 | 7163 | 7519 | 7875 | 8231 | 8587 | 8943 | 73 | 21 | 7226 |
| 130 | 22 | | 3459 | 3814 | 4169 | 4524 | 4879 | 5235 | 5590 | 5945 | 6301 | 6656 | 7012 | 7367 | 7723 | 8079 | 8134 | 8790 | 9146 | 76 | 22 | 7433 |
| 136 | 23 | | 3664 | 4019 | 4374 | 4729 | 5084 | 5439 | 5795 | 6150 | 6505 | 6860 | 7216 | 7571 | 7927 | 8283 | 8638 | 8994 | 9350 | 80 | 23 | 7640 |
| 112 | 24 | | 3870 | 4224 | 4579 | 4934 | 5289 | 5644 | 5999 | 6354 | 6710 | 7065 | 7420 | 7776 | 8131 | 8487 | 8842 | 9198 | 9553 | 83 | 24 | 7847 |
| 148 | 25 | 0 | 4075 | 1430 | 4784 | 5139 | 5494 | 5849 | 6204 | 6559 | 6914 | 7269 | 7625 | 7980 | 8335 | 8691 | 9046 | 9402 | 9757 | 86 | 25 | 9 8054 |
| 154 | 26 | | 4280 | 1635 | 4990 | 5344 | 5699 | 6054 | 6409 | 6764 | 7119 | 7474 | 7829 | 8184 | 8539 | 8895 | 9250 | 9605 | 9961 | 90 | 26 | 8261 |
| 160 | 27 | 0 (1) | 4186 | 4840 | 5195 | 5549 | 5904 | 6259 | 6614 | 6968 | 7323 | 7678 | 8033 | 8388 | 8744 | 9099 | 9154 | 9809 | 0165 | 93 | 27 | 8469 |
| 165 | 28 | | 4691 | 5046 | 5400 | 5755 | 6109 | 6461 | 6819 | 7173 | 7528 | 7883 | 8238 | 8593 | 8948 | 9303 | 9658 | 0013 | 0369 | 97 | 28 | 8676 |
| 171 | 29 | | 4897 | 5251 | 5606 | 5960 | 6314 | 6669 | 7024 | 7378 | 7733 | 8088 | 8442 | 8797 | 9152 | 9507 | 9862 | 0217 | 0572 | 100 | 29 | 8883 |
| 177 | 30 | 0 (1) | 5103 | 5457 | 5811 | 6165 | 6520 | 6874 | 7229 | 7583 | 7938 | 8292 | 8647 | 9002 | 9357 | 9712 | 0066 | 0421 | 0776 | 104 | 30 | 9 9091 |
| 183 | 31 | | 5308 | 5662 | 6017 | 6371 | 6726 | 7079 | 7434 | 7788 | 8143 | 8497 | 8852 | 9206 | 9561 | 2916 | 0271 | 0626 | 0980 | 107 | 31 | 9298 |
| 189 | 32 | | 5514 | 5868 | 6222 | 6576 | 6931 | 7285 | 7639 | 7993 | 8348 | 8702 | 9056 | 9411 | 9766 | 0120 | 0175 | 0830 | 1185 | 111 | 32 | 9506 |
| 195 | 33 | | 5720 | 6074 | 6428 | 6782 | 7136 | 7490 | 7844 | 8198 | 8553 | 8907 | 9261 | 9616 | 9970 | 0325 | 0679 | 1034 | 1389 | 114 | 33 | 9713 |
| 201 | 34 | | 5926 | 6280 | 6633 | 6987 | 7341 | 7695 | 8049 | 8403 | 8758 | 9112 | 9166 | 9820 | 0175 | 0529 | 0884 | 1238 | 1593 | 118 | 34 | 9921 |
| 207 | 35 | 0 (1) | 6132 | 6485 | 6839 | 7193 | 7547 | 7901 | 8255 | 8609 | 8963 | 9317 | 9671 | 0025 | 0379 | 0734 | 1088 | 1443 | 1797 | 121 | 35 | 0 0129 |
| 213 | 36 | | 6338 | 6691 | 7045 | 7399 | 7752 | 8106 | 8460 | 8811 | 9168 | 9522 | 9876 | 0230 | 0584 | 0939 | 1293 | 1647 | 2002 | 124 | 36 | 0337 |
| 219 | 37 | | 6544 | 6897 | 7251 | 7601 | 7958 | 8312 | 8666 | 9019 | 9373 | 9727 | 0081 | 0435 | 0789 | 1143 | 1497 | 1852 | 2206 | 128 | 37 | 0545 |
| 225 | 38 | | 6750 | 7103 | 7457 | 7810 | 8164 | 8517 | 8871 | 9225 | 9578 | 9932 | 0286 | 0640 | 0994 | 1348 | 1702 | 2056 | 2411 | 131 | 38 | 0752 |
| 230 | 39 | | 6956 | 7310 | 7663 | 8016 | 8370 | 8723 | 9076 | 9430 | 9784 | 0137 | 0491 | 0845 | 1199 | 1553 | 1907 | 2261 | 2615 | 135 | 39 | 0960 |
| 236 | 40 | 0 (1) | 7163 | 7516 | 7869 | 8222 | 8575 | 8929 | 9282 | 9636 | 9989 | 0343 | 0696 | 1050 | 1404 | 1758 | 2112 | 2466 | 2820 | 138 | 40 | 0 1168 |
| 242 | 41 | | 7369 | 7722 | 8075 | 8429 | 8781 | 9135 | 9488 | 9841 | 0195 | 0548 | 0902 | 1255 | 1609 | 1963 | 2316 | 2670 | 3024 | 142 | 41 | 1377 |
| 248 | 42 | | 7575 | 7928 | 8281 | 8634 | 8987 | 9340 | 9694 | 0047 | 0400 | 0754 | 1107 | 1461 | 1811 | 2168 | 2521 | 2875 | 3229 | 145 | 42 | 1585 |
| 254 | 43 | | 7782 | 8134 | 8487 | 8840 | 9193 | 9516 | 9899 | 0253 | 0606 | 0959 | 1312 | 1666 | 2019 | 2373 | 2726 | 3080 | 3434 | 149 | 43 | 1793 |
| 260 | 44 | | 7988 | 8341 | 8694 | 9046 | 9399 | 9752 | 0105 | 0458 | 0811 | 1165 | 1518 | 1871 | 2224 | 2578 | 2931 | 3285 | 3638 | 152 | 44 | 2001 |
| 266 | 45 | 0 (1) | 8195 | 8547 | 8900 | 9253 | 9605 | 9958 | 0311 | 0664 | 1017 | 1370 | 1723 | 2076 | 2430 | 2783 | 3136 | 3490 | 3843 | 156 | 45 | 0 2210 |
| 272 | 46 | | 8401 | 8754 | 9106 | 9459 | 9812 | 0161 | 0517 | 0870 | 1223 | 1576 | 1929 | 2282 | 2635 | 2988 | 3342 | 3695 | 4048 | 159 | 46 | 2418 |
| 278 | 47 | | 8608 | 8960 | 9313 | 9665 | 0018 | 0370 | 0723 | 1076 | 1129 | 1782 | 2134 | 2487 | 2840 | 3194 | 3547 | 3900 | 4253 | 163 | 47 | 2626 |
| 284 | 48 | | 8815 | 9167 | 9519 | 9872 | 0224 | 0577 | 0929 | 1282 | 1635 | 1987 | 2340 | 2693 | 3046 | 3399 | 3752 | 1105 | 4458 | 166 | 48 | 2835 |
| 289 | 49 | | 9021 | 9374 | 9726 | 0078 | 0431 | 0783 | 1135 | 1488 | 1840 | 2193 | 2546 | 2899 | 3251 | 3604 | 3957 | 4310 | 4663 | 169 | 49 | 3043 |
| 295 | 50 | 0 (1) | 9228 | 9580 | 9933 | 0285 | 0637 | 0989 | 1342 | 1694 | 2046 | 2399 | 2752 | 3101 | 3457 | 3810 | 4163 | 4515 | 4868 | 173 | 50 | 0 3252 |
| 301 | 51 | | 9435 | 9787 | 0139 | 0491 | 0843 | 1196 | 1518 | 1900 | 2253 | 2605 | 2957 | 3310 | 3663 | 4015 | 4368 | 4721 | 5074 | 176 | 51 | 3461 |
| 307 | 52 | | 9642 | 9994 | 0346 | 0698 | 1050 | 1402 | 1751 | 2106 | 2159 | 2811 | 3163 | 4516 | 3868 | 1221 | 4574 | 4926 | 5279 | 180 | 52 | 3670 |
| 313 | 53 | | 9849 | 0201 | 0553 | 0905 | 1257 | 1609 | 1961 | 2313 | 2665 | 3017 | 3369 | 3722 | 4074 | 4427 | 4779 | 5132 | 5484 | 183 | 53 | 3878 |
| 319 | 54 | 1 | 0056 | 0408 | 0760 | 1111 | 1463 | 1815 | 2167 | 2519 | 2871 | 3223 | 3575 | 3928 | 4280 | 4632 | 4985 | 5337 | 5690 | 187 | 54 | 4087 |
| 325 | 55 | 1 | 0263 | 0615 | 0967 | 1318 | 1670 | 2022 | 2374 | 2725 | 3077 | 3429 | 3781 | 4134 | 4486 | 4838 | 5190 | 5543 | 5895 | 190 | 55 | 0 4296 |
| 331 | 56 | | 0471 | 0822 | 1174 | 1525 | 1877 | 2228 | 2580 | 2932 | 3284 | 3636 | 3988 | 4340 | 4692 | 5044 | 5396 | 5748 | 6101 | 194 | 56 | 4505 |
| 337 | 57 | | 0678 | 1029 | 1381 | 1732 | 2083 | 2435 | 2787 | 3138 | 3490 | 3842 | 4194 | 4546 | 1898 | 5250 | 5602 | 5954 | 6306 | 197 | 57 | 4714 |
| 343 | 58 | | 0885 | 1236 | 1588 | 1939 | 2290 | 2642 | 2993 | 3345 | 3697 | 4048 | 1400 | 4752 | 5104 | 5456 | 5808 | 6160 | 6512 | 201 | 58 | 4923 |
| 348 | 59 | | 1095 | 1444 | 1795 | 2146 | 2497 | 2849 | 3200 | 3552 | 3903 | 4255 | 4606 | 4958 | 5310 | 5662 | 6013 | 6365 | 6717 | 204 | 52 | 5132 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 46° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16 | Partes para segundos. | 46° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 0 (1) 5342 | 5691 | 6042 | 6392 | 6742 | 7092 | 7443 | 7793 | 8143 | 8494 | 8844 | 9195 | 9546 | 9896 | 0247 | 0598 | 0949 | 207 | 0′ | 0 6901 |
| 6 | 1 | 5551 | 5901 | 6251 | 6601 | 6951 | 7301 | 7651 | 8002 | 8152 | 8702 | 9053 | 9403 | 9754 | 0104 | 0455 | 0806 | 1157 | 204 | 1 | 6695 |
| 12 | 2 | 5760 | 6110 | 6460 | 6810 | 7160 | 7510 | 7860 | 8210 | 8560 | 8911 | 9261 | 9611 | 9962 | 0312 | 0663 | 1013 | 1364 | 201 | 2 | 6489 |
| 17 | 3 | 5970 | 6319 | 6669 | 7019 | 7369 | 7719 | 8069 | 8419 | 8769 | 9119 | 9469 | 9820 | 0170 | 0520 | 0871 | 1221 | 1572 | 197 | 3 | 6284 |
| 23 | 4 | 6179 | 6529 | 6878 | 7228 | 7578 | 7928 | 8278 | 8628 | 8977 | 9328 | 9678 | 0028 | 0378 | 0728 | 1079 | 1429 | 1780 | 194 | 4 | 6078 |
| 29 | 5 | 0 (1) 6389 | 6738 | 7088 | 7437 | 7787 | 8137 | 8486 | 8836 | 9186 | 9536 | 9886 | 0236 | 0586 | 0937 | 1287 | 1637 | 1987 | 190 | 5 | 0 5872 |
| 35 | 6 | 6598 | 6947 | 7297 | 7646 | 7996 | 8346 | 8695 | 9045 | 9395 | 9745 | 0095 | 0445 | 0795 | 1145 | 1495 | 1845 | 2195 | 187 | 6 | 5665 |
| 41 | 7 | 6808 | 7157 | 7506 | 7856 | 8205 | 8555 | 8901 | 9254 | 9604 | 9954 | 0303 | 0653 | 1003 | 1353 | 1703 | 2053 | 2403 | 183 | 7 | 5459 |
| 46 | 8 | 7017 | 7367 | 7716 | 8065 | 8414 | 8764 | 9113 | 9463 | 9813 | 0162 | 0512 | 0862 | 1212 | 1561 | 1911 | 2261 | 2611 | 180 | 8 | 5253 |
| 52 | 9 | 7227 | 7576 | 7925 | 8275 | 8624 | 8973 | 9322 | 9672 | 0021 | 0371 | 0721 | 1070 | 1420 | 1770 | 2120 | 2469 | 2819 | 176 | 9 | 5047 |
| 58 | 10 | 0 (1) 7437 | 7786 | 8135 | 8484 | 8833 | 9182 | 9532 | 9881 | 0230 | 0580 | 0929 | 1279 | 1628 | 1978 | 2328 | 2678 | 3027 | 173 | 10 | 0 4841 |
| 64 | 11 | 7617 | 7996 | 8345 | 8694 | 9043 | 9392 | 9741 | 0090 | 0439 | 0789 | 1138 | 1488 | 1837 | 2187 | 2536 | 2886 | 3236 | 169 | 11 | 4634 |
| 69 | 12 | 7857 | 8205 | 8554 | 8903 | 9252 | 9601 | 9950 | 0299 | 0648 | 0998 | 1347 | 1696 | 2046 | 2395 | 2745 | 3094 | 3444 | 166 | 12 | 4428 |
| 75 | 13 | 8067 | 8415 | 8764 | 9113 | 9462 | 9811 | 0160 | 0509 | 0858 | 1207 | 1556 | 1905 | 2254 | 2604 | 2953 | 3303 | 3652 | 163 | 13 | 4221 |
| 81 | 14 | 8277 | 8625 | 8974 | 9323 | 9671 | 0020 | 0369 | 0718 | 1067 | 1416 | 1765 | 2114 | 2463 | 2812 | 3162 | 3511 | 3860 | 159 | 14 | 4015 |
| 87 | 15 | 0 (1) 8487 | 8835 | 9184 | 9532 | 9881 | 0230 | 0578 | 0927 | 1276 | 1625 | 1974 | 2323 | 2672 | 3021 | 3370 | 3720 | 4069 | 156 | 15 | 0 3808 |
| 93 | 16 | 8697 | 9045 | 9391 | 9742 | 0091 | 0439 | 0788 | 1137 | 1485 | 1834 | 2183 | 2532 | 2881 | 3230 | 3579 | 3928 | 4277 | 152 | 16 | 3601 |
| 98 | 17 | 8907 | 9255 | 9604 | 9952 | 0301 | 0649 | 0997 | 1316 | 1695 | 2043 | 2392 | 2741 | 3090 | 3439 | 3788 | 4137 | 4486 | 149 | 17 | 3395 |
| 104 | 18 | 9118 | 9466 | 9814 | 0162 | 0510 | 0859 | 1207 | 1556 | 1904 | 2253 | 2601 | 2950 | 3299 | 3648 | 3996 | 4345 | 4694 | 145 | 18 | 3188 |
| 110 | 19 | 9328 | 9676 | 0024 | 0372 | 0720 | 1069 | 1417 | 1765 | 2114 | 2462 | 2811 | 3159 | 3508 | 3857 | 4205 | 4554 | 4903 | 142 | 19 | 2981 |
| 116 | 20 | 0 (1) 9538 | 9886 | 0234 | 0582 | 0930 | 1278 | 1627 | 1975 | 2323 | 2671 | 3020 | 3368 | 3717 | 4066 | 4414 | 4763 | 5112 | 138 | 20 | 0 2774 |
| 122 | 21 | 9749 | 0097 | 0444 | 0792 | 1140 | 1488 | 1836 | 2185 | 2533 | 2881 | 3229 | 3578 | 3926 | 4275 | 4623 | 4972 | 5320 | 135 | 21 | 2567 |
| 727 | 22 | 9959 | 0307 | 0655 | 1002 | 1350 | 1698 | 2046 | 2394 | 2742 | 3091 | 3439 | 3787 | 4135 | 4484 | 4832 | 5181 | 5529 | 131 | 22 | 2360 |
| 133 | 23 | 1 0170 | 0517 | 0865 | 1213 | 1560 | 1908 | 2256 | 2604 | 2952 | 3300 | 3648 | 3996 | 4345 | 4693 | 5041 | 5390 | 5738 | 128 | 23 | 2153 |
| 139 | 24 | 0380 | 0728 | 1075 | 1423 | 1771 | 2118 | 2466 | 2814 | 3162 | 3510 | 3858 | 4206 | 4554 | 4902 | 5250 | 5599 | 5947 | 124 | 21 | 1946 |
| 145 | 25 | 1 0591 | 0938 | 1286 | 1633 | 1981 | 2329 | 2676 | 3024 | 3372 | 3720 | 4067 | 4415 | 4763 | 5112 | 5460 | 5808 | 6156 | 121 | 25 | 0 1739 |
| 151 | 26 | 0802 | 1149 | 1496 | 1844 | 2191 | 2539 | 2886 | 3231 | 3582 | 3929 | 4277 | 4625 | 4973 | 5321 | 5669 | 6017 | 6365 | 118 | 26 | 1531 |
| 156 | 27 | 1013 | 1360 | 1707 | 2054 | 2402 | 2749 | 3097 | 3444 | 3792 | 4139 | 4487 | 4835 | 5182 | 5530 | 5878 | 6226 | 6574 | 114 | 27 | 1324 |
| 162 | 28 | 1224 | 1571 | 1918 | 2265 | 2612 | 2959 | 3307 | 3654 | 4002 | 4349 | 4697 | 5044 | 5392 | 5740 | 6088 | 6435 | 6783 | 111 | 28 | 1117 |
| 168 | 29 | 1434 | 1781 | 2128 | 2475 | 2823 | 3170 | 3517 | 3864 | 4212 | 4559 | 4907 | 5254 | 5602 | 5949 | 6297 | 6645 | 6993 | 107 | 29 | 0909 |
| 174 | 30 | 1 1645 | 1992 | 2339 | 2686 | 3033 | 3380 | 3727 | 4074 | 4422 | 4769 | 5116 | 5464 | 5811 | 6159 | 6506 | 6854 | 7202 | 194 | 30 | 0 0702 |
| 180 | 31 | 1856 | 2203 | 2550 | 2897 | 3244 | 3591 | 3938 | 4285 | 4632 | 4979 | 5326 | 5674 | 6021 | 6369 | 6716 | 7064 | 7411 | 100 | 31 | 0494 |
| 185 | 32 | 2067 | 2414 | 2761 | 3108 | 3454 | 3801 | 4148 | 4195 | 4842 | 5189 | 5536 | 5884 | 6231 | 6578 | 6926 | 7273 | 7621 | 97 | 32 | 0287 |
| 191 | 33 | 2279 | 2625 | 2972 | 3318 | 3665 | 4012 | 4359 | 4706 | 5052 | 5399 | 5746 | 6094 | 6441 | 6788 | 7135 | 7483 | 7830 | 93 | 33 | 0079 |
| 197 | 34 | 2490 | 2836 | 3183 | 3529 | 3876 | 4223 | 4569 | 4916 | 5263 | 5610 | 5957 | 6304 | 6651 | 6998 | 7345 | 7692 | 8040 | 90 | 34 | 9 9871 |
| 203 | 35 | 1 2701 | 3047 | 3394 | 3740 | 4087 | 4433 | 4780 | 5127 | 5473 | 5820 | 6167 | 6514 | 6861 | 7208 | 7555 | 7902 | 8249 | 86 | 35 | 9 9663 |
| 208 | 36 | 2912 | 3259 | 3605 | 3951 | 4298 | 4644 | 4991 | 5337 | 5684 | 6030 | 6377 | 6724 | 7071 | 7418 | 7765 | 8112 | 8459 | 93 | 36 | 9455 |
| 214 | 37 | 3124 | 3170 | 3816 | 4162 | 4509 | 4855 | 5201 | 5548 | 5894 | 6241 | 6587 | 6934 | 7281 | 7628 | 7974 | 8321 | 8668 | 80 | 37 | 9248 |
| 220 | 38 | 3335 | 3681 | 4027 | 4373 | 4720 | 5066 | 5412 | 5758 | 6105 | 6451 | 6798 | 7144 | 7491 | 7838 | 8184 | 8531 | 8878 | 76 | 38 | 9040 |
| 226 | 39 | 3547 | 3893 | 4239 | 4585 | 4931 | 5277 | 5623 | 5969 | 6315 | 6662 | 7008 | 7355 | 7701 | 8048 | 8394 | 8741 | 9088 | 73 | 39 | 8832 |
| 232 | 40 | 1 3758 | 4104 | 4450 | 4796 | 5142 | 5488 | 5834 | 6180 | 6526 | 6872 | 7219 | 7565 | 7912 | 8258 | 8605 | 8951 | 9298 | 69 | 40 | 9 8623 |
| 237 | 41 | 3970 | 4316 | 4661 | 5007 | 5353 | 5699 | 6045 | 6391 | 6737 | 7083 | 7429 | 7776 | 8122 | 8468 | 8815 | 9161 | 9508 | 66 | 41 | 8415 |
| 243 | 42 | 4182 | 4527 | 4873 | 5219 | 5564 | 5910 | 6256 | 6602 | 6948 | 7294 | 7610 | 7986 | 8332 | 8678 | 9025 | 9371 | 9718 | 62 | 42 | 8207 |
| 249 | 43 | 4393 | 4739 | 5084 | 5430 | 5776 | 6121 | 6467 | 6813 | 7159 | 7605 | 7851 | 8197 | 8543 | 8889 | 9235 | 9581 | 9928 | 59 | 43 | 7999 |
| 255 | 44 | 1 (2) 4605 | 4950 | 5296 | 5641 | 5987 | 6333 | 6678 | 7024 | 7370 | 7715 | 8061 | 8407 | 8753 | 9099 | 9445 | 9791 | 0138 | 55 | 44 | 7790 |
| 261 | 45 | 1 (2) 4817 | 5162 | 5507 | 5853 | 6198 | 6544 | 6889 | 7235 | 7581 | 7926 | 8272 | 8618 | 8964 | 9310 | 9656 | 0002 | 0348 | 52 | 45 | 9 7582 |
| 266 | 46 | 5029 | 5374 | 5719 | 6064 | 6410 | 6755 | 7101 | 7446 | 7792 | 8137 | 8483 | 8829 | 9174 | 9520 | 9866 | 0212 | 0558 | 48 | 46 | 7374 |
| 272 | 47 | 5241 | 5586 | 5931 | 6276 | 6621 | 6967 | 7312 | 7657 | 8003 | 8348 | 8694 | 9039 | 9385 | 9731 | 0077 | 0422 | 0768 | 45 | 47 | 7165 |
| 278 | 40 | 5453 | 5798 | 6143 | 6488 | 6833 | 7178 | 7523 | 7869 | 8214 | 8559 | 8905 | 9250 | 9596 | 9941 | 0287 | 0633 | 0979 | 41 | 48 | 6957 |
| 204 | 49 | 5665 | 6010 | 6355 | 6700 | 7045 | 7390 | 7735 | 8080 | 8425 | 8770 | 9116 | 9461 | 9807 | 0152 | 0498 | 0843 | 1189 | 38 | 49 | 6748 |
| 290 | 50 | 1 (2) 6877 | 6222 | 6567 | 6911 | 7256 | 7601 | 7946 | 8291 | 8636 | 8982 | 9327 | 9672 | 0017 | 0363 | 0708 | 1054 | 1399 | 35 | 50 | 9 6539 |
| 295 | 51 | 6089 | 6434 | 6779 | 7123 | 7468 | 7813 | 8158 | 8503 | 8848 | 9193 | 9538 | 9883 | 0228 | 0574 | 0919 | 1264 | 1610 | 31 | 51 | 6330 |
| 301 | 52 | 6302 | 6646 | 6991 | 7335 | 7680 | 8025 | 8369 | 8714 | 9059 | 9404 | 9749 | 0094 | 0439 | 0785 | 1130 | 1475 | 1820 | 28 | 52 | 6122 |
| 307 | 53 | 6514 | 6858 | 7203 | 7547 | 7892 | 8236 | 8581 | 8926 | 9271 | 9615 | 9960 | 0305 | 0650 | 0995 | 1341 | 1686 | 2031 | 24 | 53 | 5913 |
| 313 | 54 | 6726 | 7070 | 7415 | 7759 | 8104 | 8448 | 8793 | 9137 | 9482 | 9827 | 0172 | 0516 | 0861 | 1206 | 1551 | 1897 | 2242 | 21 | 54 | 5704 |
| 319 | 55 | 1 (2) 6939 | 7283 | 7627 | 7971 | 8316 | 8660 | 9005 | 9349 | 9694 | 0038 | 0383 | 0728 | 1072 | 1417 | 1762 | 2107 | 2452 | 17 | 55 | 9 5495 |
| 324 | 56 | 7151 | 7495 | 7839 | 8183 | 8528 | 8872 | 9216 | 9561 | 9905 | 0250 | 0594 | 0939 | 1284 | 1628 | 1973 | 2318 | 2663 | 14 | 56 | 5286 |
| 330 | 57 | 7364 | 7708 | 8052 | 8396 | 8740 | 9084 | 9428 | 9773 | 0117 | 0461 | 0806 | 1150 | 1495 | 1840 | 2184 | 2529 | 2874 | 10 | 57 | 5077 |
| 336 | 58 | 7576 | 7920 | 8264 | 8600 | 8952 | 9296 | 9640 | 9984 | 0329 | 0673 | 1017 | 1362 | 1706 | 2051 | 2396 | 2740 | 3085 | 7 | 58 | 4068 |
| 342 | 59 | 7789 | 8133 | 8476 | 8820 | 9164 | 9508 | 9852 | 0196 | 0540 | 0885 | 1229 | 1573 | 1918 | 2262 | 2607 | 2951 | 3296 | 3 | 59 | 4658 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Núm. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar | 46° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 46° | Núm. |
| 0 | 0' | 1 1300 | 1651 | 2002 | 2353 | 2704 | 3056 | 3407 | 3758 | 4110 | 4461 | 4813 | 5164 | 5516 | 5868 | 6219 | 6571 | 6923 | 0 | 0' | 0 5342 |
| 6 | 1 | 1507 | 1858 | 2209 | 2560 | 2911 | 3263 | 3614 | 3965 | 4316 | 4668 | 5019 | 5371 | 5722 | 6074 | 6425 | 6777 | 7129 | 3 | 1 | 5551 |
| 12 | 2 | 1715 | 2066 | 2417 | 2760 | 3119 | 3470 | 3821 | 4172 | 4525 | 4874 | 5226 | 5577 | 5928 | 6280 | 6652 | 6983 | 7353 | 7 | 2 | 5760 |
| 17 | 3 | 1923 | 2273 | 2624 | 2975 | 3326 | 3677 | 4028 | 4379 | 4730 | 5081 | 5452 | 5783 | 6135 | 6486 | 6838 | 7189 | 7541 | 11 | 3 | 5970 |
| 23 | 4 | 2130 | 2481 | 2831 | 3182 | 3533 | 3884 | 4235 | 4586 | 4937 | 5288 | 5639 | 5990 | 6341 | 6692 | 7044 | 7395 | 7747 | 14 | 4 | 6179 |
| 29 | 5 | 1 2330 | 2688 | 3039 | 3390 | 3740 | 4091 | 4442 | 4795 | 5145 | 5494 | 5845 | 6196 | 6548 | 6898 | 7250 | 7601 | 7953 | 18 | 5 | 0 6389 |
| 35 | 6 | 2546 | 2896 | 3246 | 3597 | 3948 | 4298 | 4649 | 5000 | 5350 | 5701 | 6052 | 6403 | 6754 | 7105 | 7456 | 7807 | 0159 | 21 | 6 | 6598 |
| 41 | 7 | 2754 | 5104 | 5454 | 5804 | 4155 | 4305 | 4856 | 5207 | 5557 | 5908 | 6259 | 6610 | 6961 | 7312 | 7663 | 8014 | 8565 | 27, | 7 | 6008 |
| 46 | 8 | 2961 | 3512 | 3662 | 4012 | 4362 | 4713 | 5063 | 5414 | 5764 | 6115 | 6466 | 6816 | 7167 | 7510 | 7869 | 0220 | 8571 | 20 | 6 | 7017 |
| 52 | 9 | 3169 | 3519 | 3870 | 4220 | 4570 | 4920 | 5271 | 5621 | 5971 | 6322 | 6673 | 7023 | 7374 | 7725 | 8075 | 8426 | 0777 | 32 | 9 | 7227 |
| 50 | 10 | 1 3377 | 3727 | 4077 | 4427 | 4777 | 5128 | 5478 | 5828 | 6179 | 6529 | 6880 | 7230 | 7581 | 7931 | 8282 | 8633 | 8984 | 35 | 16 | 0 7437 |
| 64 | 11 | 3585 | 3955 | 4285 | 4635 | 1985 | 5335 | 5685 | 6056 | 6386 | 6736 | 7087 | 7437 | 7787 | 8138 | 8489 | 8839 | 9190 | 39 | 11 | 7647 |
| 70 | 12 | 3794 | 4143 | 4493 | 4843 | 5193 | 5543 | 5895 | 6243 | 6593 | 6943 | 7294 | 7644 | 7994 | 8345 | 8695 | 9046 | 9396 | 42 | 12 | 7857 |
| 75 | 13 | 4002 | 4551 | 4701 | 5051 | 5401 | 5750 | 6100 | 6450 | 6800 | 7151 | 7501 | 7851 | 8201 | 8552 | 8902 | 9252 | 9603 | 46 | 13 | 8067 |
| 61 | 14 | 4210 | 4559 | 4909 | 5259 | 5608 | 3958 | 6308 | 6658 | 7008 | 7358 | 7708 | 8058 | 8400 | 8750 | 9109 | 9459 | 9809 | 49 | 14 | 8277 |
| 67 | 15 | 1 (2) 4418 | 4768 | 5117 | 5467 | 5816 | 6166 | 6516 | 6865 | 7215 | 7565 | 7915 | 8265 | 8615 | 8965 | 9515 | 9666 | 0016 | 53 | 15 | 0 8487 |
| 93 | 16 | 4627 | 4976 | 5325 | 5675 | 6024 | 6374 | 6723 | 7075 | 7425 | 7775 | 8122 | 8472 | 8822 | 9172 | 9522 | 9872 | 0223 | 56 | 16 | 8697 |
| 99 | 17 | 4855 | 5104 | 5534 | 5883 | 6232 | 6582 | 6931 | 7281 | 7650 | 7980 | 8330 | 8680 | 9029 | 9379 | 9729 | 0079 | 0429 | 60 | 17 | 8907 |
| 105 | 18 | 5043 | 5393 | 5742 | 6091 | 6440 | 6790 | 7139 | 7488 | 7838 | 8188 | 8537 | 8887 | 9237 | 9586 | 9936 | 0206 | 0636 | 65 | 18 | 9118 |
| 110 | 19 | 5252 | 5601 | 5950 | 6299 | 6648 | 6998 | 7347 | 7696 | 8046 | 8395 | 8745 | 9094 | 9444 | 9794 | 0145 | 0495 | 0843 | 67 | 19 | 9328 |
| 116 | 20 | 1 (2) 5461 | 5809 | 6158 | 6507 | 6857 | 7209 | 7555 | 7904 | 8253 | 8603 | 8952 | 9302 | 9651 | 0001 | 0350 | 0700 | 1050 | 70 | 28 | 0 9558 |
| 122 | 21 | 5669 | 6018 | 6567 | 6716 | 7065 | 7414 | 7763 | 8112 | 8461 | 8810 | 9160 | 9509 | 9859 | 0208 | 0558 | 0907 | 1257 | 74 | 21 | 9749 |
| 128 | 22 | 5878 | 6227 | 6575 | 6924 | 7273 | 7522 | 7971 | 8320 | 8669 | 9018 | 9567 | 9717 | 0066 | 0415 | 0765 | 1114 | 1464 | 77 | 22 | 9959 |
| 134 | 23 | 6087 | 6435 | 6784 | 7133 | 7481 | 7830 | 8179 | 8528 | 8877 | 9226 | 9575 | 9924 | 0273 | 0623 | 0972 | 1321 | 1671 | 81 | 25 | 1 0170 |
| 139 | 24 | 6296 | 6644 | 6992 | 7341 | 7690 | 8038 | 8387 | 8736 | 9085 | 9454 | 9783 | 0132 | 0481 | 0830 | 1179 | 1529 | 1878 | 84 | 24 | 0380 |
| 145 | 25 | 1 (2) 6504 | 6853 | 7201 | 7550 | 7898 | 8247 | 8595 | 8944 | 9293 | 9642 | 9991 | 0340 | 0689 | 1038 | 1387 | 1756 | 2085 | 08 | 25 | 1 0591 |
| 151 | 26 | 6715 | 7062 | 7410 | 7758 | 8107 | 8455 | 8804 | 9152 | 9501 | 9850 | 0199 | 0547 | 0896 | 1245 | 1594 | 1943 | 2292 | 91 | 26 | 0802 |
| 167 | 27 | 6922 | 7270 | 7619 | 7967 | 8315 | 8664 | 9012 | 9561 | 9709 | 0058 | 0407 | 0755 | 1104 | 1453 | 1802 | 2151 | 2500 | 95 | 27 | 1013 |
| 163 | 28 | 7131 | 7479 | 7827 | 8176 | 8524 | 8872 | 9220 | 9569 | 9917 | 0266 | 0615 | 0965 | 1512 | 1660 | 2009 | 2558 | 2707 | 98 | 28 | 1224 |
| 168 | 29 | 7340 | 7688 | 8036 | 8384 | 8733 | 9081 | 9429 | 9777 | 0126 | 0474 | 0823 | 1171 | 1520 | 1860 | 2217 | 2566 | 2914 | 102 | 29 | 1455 |
| 174 | 30 | 1 (2) 7550 | 7897 | 8245 | 8593 | 8941 | 9209 | 9638 | 9986 | 0334 | 0682 | 1031 | 1379 | 1727 | 2076 | 2425 | 2773 | 3122 | 105 | 30 | 1 1646 |
| 100 | 31 | 7759 | 8107 | 8454 | 8802 | 9150 | 9498 | 9846 | 0194 | 0542 | 0890 | 1239 | 1587 | 1255 | 2284 | 2632 | 2981 | 3329 | 109 | 31 | 1857 |
| 186 | 32 | 7968 | 8316 | 8663 | 9011 | 9359 | 9707 | 0055 | 0405 | 0751 | 1099 | 1447 | 1795 | 2143 | 2492 | 2840 | 3188 | 5537 | 112 | 32 | 2068 |
| 192 | 33 | 8177 | 8525 | 8873 | 9220 | 9568 | 9916 | 0263 | 0611 | 0959 | 1307 | 1655 | 2003 | 2551 | 2700 | 3048 | 5396 | 3745 | 116 | 35 | 2279 |
| 197 | 34 | 8387 | 8734 | 9082 | 9429 | 9777 | 0124 | 0472 | 0820 | 1168 | 1516 | 1864 | 2211 | 2559 | 2908 | 3256 | 3604 | 3952 | 120 | 34 | 2490 |
| 203 | 35 | 1 (2) 0596 | 8944 | 9291 | 9658 | 9986 | 0333 | 0681 | 1029 | 1376 | 1724 | 2072 | 2420 | 2768 | 5116 | 3464 | 3812 | 4160 | 123 | 35 | 1 2701 |
| 209 | 36 | 8806 | 9153 | 9500 | 9840 | 0195 | 0542 | 0890 | 1237 | 1585 | 1933 | 2230 | 2628 | 2976 | 3324 | 3672 | 4820 | 4368 | 127 | 36 | 2912 |
| 215 | 37 | 9015 | 9562 | 9710 | 0057 | 0404 | 0751 | 1099 | 1446 | 1794 | 2141 | 2489 | 2836 | 3181 | 3532 | 3880 | 4228 | 4576 | 130 | 37 | 3124 |
| 221 | 38 | 9225 | 2572 | 9919 | 0266 | 0613 | 0960 | 1308 | 1655 | 2002 | 2350 | 2697 | 3045 | 3392 | 3740 | 4088 | 4436 | 4784 | 134 | 38 | 3335 |
| 227 | 39 | 2435 | 9782 | 0129 | 0475 | 0823 | 1170 | 1517 | 1864 | 2211 | 2559 | 2906 | 3253 | 5601 | 3948 | 4296 | 4644 | 4992 | 137 | 39 | 3547 |
| 232 | 40 | 1 (2) 9644 | 9991 | 0338 | 0685 | 1032 | 1379 | 1726 | 2073 | 2420 | 2767 | 3115 | 3462 | 3809 | 4157 | 4504 | 4852 | 5200 | 141 | 40 | 1 3758 |
| 238 | 41 | 9854 | 0201 | 0548 | 0894 | 1241 | 1588 | 1935 | 2282 | 2629 | 2976 | 3323 | 3671 | 4018 | 4565 | 4713 | 5060 | 5408 | 144 | 41 | 3970 |
| 244 | 42 | 2 0064 | 0411 | 0757 | 1104 | 1451 | 1797 | 2144 | 2491 | 2858 | 3185 | 3532 | 3879 | 4227 | 4574 | 4921 | 5268 | 5616 | 148 | 42 | 4182 |
| 250 | 43 | 6274 | 0620 | 0967 | 1313 | 1660 | 2007 | 2554 | 2700 | 3047 | 3394 | 3741 | 4088 | 4435 | 4702 | 5129 | 5477 | 5824 | 151 | 43 | 4395 |
| 256 | 44 | 0484 | 0830 | 1177 | 1523 | 1870 | 2216 | 2563 | 2910 | 3256 | 3603 | 3950 | 4297 | 1644 | 4991 | 5338 | 5685 | 6052 | 155 | 44 | 4605 |
| 261 | 45 | 2 0694 | 1040 | 1587 | 1753 | 2079 | 2426 | 2772 | 3119 | 3465 | 3812 | 4159 | 4506 | 4853 | 5199 | 5546 | 5893 | 5211 | 158 | 45 | 1 4817 |
| 267 | 46 | 0904 | 1250 | 1596 | 1943 | 2289 | 2635 | 2982 | 3328 | 5675 | 4021 | 4368 | 4715 | 5061 | 5408 | 5755 | 6102 | 6445 | 162 | 46 | 5029 |
| 273 | 47 | 1114 | 1460 | 1806 | 2152 | 2499 | 2845 | 3191 | 3538 | 5884 | 4250 | 4577 | 4924 | 5270 | 5617 | 3964 | 6510 | 6657 | 165 | 47 | 5241 |
| 279 | 48 | 1324 | 1670 | 2016 | 2362 | 2708 | 5035 | 3401 | 4747 | 4093 | 4440 | 4786 | 5133 | 5479 | 5826 | 6172 | 6519 | 6866 | 169 | 48 | 5453 |
| 285 | 49 | 1535 | 1880 | 2226 | 2572 | 2918 | 5264 | 3610 | 5956 | 4303 | 4649 | 4995 | 5342 | 5688 | 6035 | 6301 | 6728 | 7074 | 172 | 49 | 5665 |
| 290 | 50 | 2 1745 | 2091 | 2436 | 2782 | 3128 | 3474 | 3820 | 4166 | 4512 | 4858 | 5204 | 5551 | 5897 | 6244 | 6590 | 6936 | 7283 | 176 | 50 | 1 5877 |
| 296 | 51 | 1955 | 2301 | 2647 | 2992 | 3538 | 3684 | 4030 | 4376 | 4722 | 5068 | 5414 | 5760 | 6106 | 6453 | 6799 | 7145 | 7492 | 179 | 51 | 6089 |
| 362 | 52 | 2166 | 2511 | 2857 | 3202 | 3548 | 3894 | 4240 | 4585 | 4931 | 5277 | 5623 | 5969 | 6315 | 6662 | 7008 | 7354 | 7700 | 185 | 52 | 6302 |
| 308 | 53 | 2376 | 2722 | 5067 | 3413 | 5758 | 4104 | 4449 | 4795 | 5141 | 5487 | 5833 | 6178 | 6525 | 6871 | 7217 | 7563 | 7909 | 186 | 53 | 6514 |
| 314 | 54 | 2607 | 2932 | 3277 | 5623 | 3968 | 4314 | 4659 | 5005 | 5351 | 5696 | 6042 | 6308 | 6754 | 7080 | 7426 | 7772 | 8118 | 190 | 54 | 6726 |
| 312 | 55 | 2 2798 | 3143 | 5488 | 3033 | 4178 | 4524 | 4869 | 5215 | 5560 | 5906 | 6252 | 6597 | 6943 | 7289 | 7635 | 7981 | 8327 | 193 | 55 | 1 6959 |
| 325 | 55 | 3008 | 3555 | 3698 | 4043 | 4389 | 4734 | 5079 | 5425 | 5770 | 6116 | 6461 | 6807 | 7155 | 7498 | 7844 | 8190 | 8536 | 197 | 56 | 7151 |
| 331 | 57 | 3219 | 5564 | 3909 | 4254 | 4599 | 4944 | 5209 | 5635 | 5900 | 6525 | 6671 | 7016 | 7362 | 7708 | 8055 | 5399 | 8745 | 200 | 57 | 7564 |
| 337 | 58 | 3450 | 5774 | 4119 | 4464 | 4809 | 5154 | 5499 | 5845 | 6190 | 6535 | 6881 | 7226 | 7571 | 7917 | 8263 | 8608 | 8954 | 204 | 50 | 7575 |
| 343 | 59 | 3640 | 3985 | 4330 | 4675 | 5020 | 5365 | 5710 | 6055 | 6400 | 6745 | 7090 | 7436 | 7781 | 8126 | 8472 | 8817 | 9163 | 207 | 59 | 7789 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Num. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 47° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 16' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 47° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 (2) | 0002 | 8345 | 8689 | 9033 | 9376 | 9720 | 0064 | 0408 | 0759 | 1096 | 1441 | 1785 | 2129 | 2473 | 2618 | 3162 | 3507 | 211 | 0' | 9 4449 |
| 6 | 1 | | 8214 | 8558 | 8901 | 9245 | 9589 | 9933 | 0276 | 0620 | 0964 | 1308 | 1652 | 1996 | 9341 | 2685 | 3029 | 3373 | 3718 | 267 | 1 | 4940 |
| 11 | 2 | | 8127 | 8771 | 9114 | 9458 | 9801 | 0145 | 0189 | 0832 | 1176 | 1520 | 1864 | 2208 | 2552 | 2896 | 3240 | 3585 | 3929 | 204 | 2 | 4030 |
| 17 | 3 | | 8640 | 8983 | 9327 | 9670 | 0014 | 0357 | 0701 | 1044 | 1388 | 1732 | 2076 | 2420 | 2764 | 3108 | 3452 | 3796 | 4140 | 200 | 3 | 3821 |
| 23 | 4 | | 8853 | 9196 | 9539 | 9883 | 0226 | 0570 | 0913 | 1257 | 1600 | 1944 | 2288 | 2632 | 2975 | 3320 | 3663 | 4007 | 4301 | 197 | 4 | 3611 |
| 28 | 5 | 1 (2) | 9066 | 9199 | 9752 | 0095 | 0439 | 0782 | 1126 | 1469 | 1812 | 2156 | 2500 | 2843 | 3187 | 3531 | 3875 | 4219 | 4563 | 193 | 5 | 9 3402 |
| 31 | 6 | | 9279 | 9692 | 9965 | 0308 | 0651 | 0995 | 1118 | 1681 | 2025 | 9368 | 2712 | 3055 | 3399 | 3743 | 4086 | 4430 | 4774 | 196 | 6 | 3192 |
| 40 | 7 | | 9492 | 9835 | 0178 | 0521 | 0861 | 1207 | 1550 | 1894 | 2237 | 2580 | 2924 | 3267 | 3611 | 3954 | 1298 | 4642 | 4985 | 186 | 7 | 2983 |
| 46 | 8 | | 9705 | 0018 | 0391 | 0734 | 1077 | 1120 | 1763 | 2106 | 2449 | 2792 | 3136 | 3479 | 3823 | 4166 | 4510 | 4853 | 5197 | 183 | 8 | 2773 |
| 51 | 9 | | 9919 | 0261 | 0604 | 0917 | 1290 | 1633 | 1976 | 2319 | 2662 | 3005 | 3348 | 3691 | 4035 | 4378 | 4721 | 5065 | 5408 | 179 | 9 | 2563 |
| 57 | 10 | 2 | 0132 | 0475 | 0817 | 1160 | 1503 | 1815 | 2188 | 2531 | 2874 | 3217 | 3560 | 3903 | 4217 | 4590 | 4933 | 5270 | 5620 | 176 | 10 | 9 2353 |
| 63 | 11 | | 0345 | 0688 | 1030 | 1373 | 1715 | 2058 | 2101 | 2741 | 3087 | 3429 | 3772 | 4115 | 4459 | 4802 | 5145 | 5488 | 5831 | 172 | 11 | 9143 |
| 68 | 12 | | 0559 | 0901 | 1243 | 1586 | 1928 | 2271 | 2614 | 2956 | 3299 | 3642 | 3985 | 4328 | 4671 | 5014 | 5357 | 5700 | 6043 | 169 | 12 | 1933 |
| 74 | 13 | | 0772 | 1111 | 1457 | 1799 | 2141 | 2184 | 2826 | 3169 | 3512 | 3854 | 4197 | 4540 | 4883 | 5226 | 5569 | 5912 | 6230 | 165 | 13 | 1723 |
| 80 | 14 | | 0986 | 1328 | 1670 | 2012 | 2355 | 2697 | 3039 | 3382 | 3724 | 4067 | 1410 | 4752 | 5095 | 5438 | 5781 | 6124 | 6467 | 169 | 14 | 1513 |
| 85 | 15 | 2 | 1199 | 1541 | 1883 | 2225 | 2568 | 2910 | 3252 | 3595 | 3937 | 1280 | 4622 | 4965 | 5307 | 5650 | 5993 | 6336 | 6679 | 158 | 15 | 9 1303 |
| 91 | 16 | | 1113 | 1755 | 2097 | 2438 | 2781 | 3123 | 3465 | 3808 | 4150 | 4492 | 4835 | 5177 | 5520 | 5862 | 6205 | 6548 | 6890 | 155 | 16 | 1093 |
| 97 | 17 | | 1626 | 1968 | 2310 | 2652 | 2991 | 3336 | 3678 | 4020 | 1363 | 1705 | 5047 | 5390 | 5732 | 6075 | 6417 | 6760 | 7102 | 101 | 17 | 0882 |
| 102 | 18 | | 1810 | 2182 | 2524 | 2866 | 3207 | 3549 | 3891 | 4233 | 4576 | 4918 | 5260 | 5602 | 5915 | 6287 | 6699 | 6972 | 7314 | 148 | 18 | 0672 |
| 108 | 19 | | 2054 | 2396 | 2737 | 3079 | 3421 | 3763 | 4105 | 4116 | 1788 | 5131 | 5473 | 5815 | 6157 | 6499 | 6812 | 7184 | 7627 | 144 | 19 | 0462 |
| 114 | 20 | 2 | 2268 | 2609 | 2951 | 3293 | 3634 | 3976 | 4318 | 4660 | 5001 | 5313 | 5685 | 6028 | 6370 | 6712 | 7054 | 7396 | 7739 | 141 | 20 | 9 6251 |
| 119 | 21 | | 2482 | 2823 | 3165 | 3506 | 3848 | 1189 | 4531 | 4873 | 5215 | 5556 | 5898 | 6240 | 6589 | 6924 | 7266 | 7609 | 7951 | 137 | 21 | 0041 |
| 195 | 22 | | 2696 | 3037 | 3378 | 3720 | 4061 | 4403 | 1714 | 5086 | 5428 | 5769 | 6111 | 6453 | 6795 | 7137 | 7479 | 7821 | 8163 | 134 | 22 | 8 9830 |
| 131 | 23 | | 2910 | 3951 | 3592 | 3934 | 4275 | 4616 | 4958 | 5299 | 5641 | 5982 | 6324 | 6666 | 7008 | 7350 | 7691 | 8033 | 8375 | 130 | 23 | 9620 |
| 136 | 24 | | 3124 | 3465 | 3806 | 4147 | 4489 | 4830 | 5171 | 5513 | 5854 | 6196 | 6537 | 6879 | 7220 | 7562 | 7904 | 8246 | 8588 | 127 | 24 | 9409 |
| 142 | 25 | 2 | 3338 | 3679 | 4020 | 4361 | 4702 | 5043 | 5385 | 5726 | 6067 | 6409 | 6750 | 7092 | 7433 | 7770 | 8117 | 8458 | 8800 | 123 | 25 | 8 9198 |
| 148 | 26 | | 3552 | 3893 | 4234 | 1575 | 1916 | 5257 | 5598 | 5939 | 6281 | 6622 | 6963 | 7305 | 7646 | 7988 | 8329 | 8671 | 9013 | 126 | 26 | 8987 |
| 154 | 27 | | 3767 | 4107 | 4448 | 4789 | 5130 | 5471 | 5812 | 6153 | 6194 | 6835 | 7176 | 7518 | 7859 | 8201 | 8542 | 8084 | 9225 | 116 | 27 | 8776 |
| 159 | 28 | | 3981 | 4322 | 4662 | 5003 | 5344 | 5685 | 6026 | 6367 | 6708 | 7049 | 7390 | 7731 | 8072 | 8414 | 8755 | 9096 | 9438 | 119 | 28 | 8566 |
| 165 | 29 | | 4195 | 4536 | 4876 | 5217 | 5558 | 5898 | 6239 | 6580 | 6921 | 7262 | 7603 | 7944 | 8285 | 8627 | 8968 | 9309 | 9650 | 109 | 29 | 8356 |
| 171 | 30 | 2 | 4110 | 1750 | 5091 | 5131 | 5772 | 6112 | 6453 | 6793 | 7135 | 7476 | 7816 | 8157 | 8499 | 8840 | 9181 | 9522 | 9863 | 105 | 30 | 8 8141 |
| 176 | 31 | 2 (3) | 4624 | 4965 | 5305 | 5645 | 5986 | 6326 | 6667 | 7007 | 7348 | 7689 | 8030 | 8371 | 8712 | 9053 | 9394 | 9735 | 0076 | 102 | 31 | 7932 |
| 182 | 32 | | 4839 | 5179 | 5519 | 5860 | 6200 | 6540 | 6881 | 7991 | 7562 | 7903 | 8213 | 8584 | 8925 | 9266 | 9607 | 9948 | 0989 | 98 | 32 | 7721 |
| 188 | 33 | | 5053 | 5393 | 5734 | 6074 | 6414 | 6734 | 7095 | 7435 | 7776 | 8116 | 8157 | 8797 | 9138 | 9479 | 9820 | 6161 | 0502 | 95 | 33 | 7510 |
| 193 | 34 | | 5268 | 5608 | 5918 | 6288 | 6028 | 6969 | 7309 | 7649 | 7990 | 8330 | 8670 | 9011 | 9352 | 9692 | 0033 | 0374 | 0715 | 91 | 34 | 7299 |
| 199 | 35 | 2 (3) | 5483 | 5823 | 6163 | 6503 | 6813 | 7183 | 7523 | 7863 | 8203 | 8544 | 8884 | 9221 | 9565 | 9906 | 0246 | 6587 | 0928 | 88 | 35 | 8 7088 |
| 905 | 36 | | 5698 | 6037 | 6377 | 6717 | 7057 | 7397 | 7737 | 8077 | 8117 | 8757 | 9098 | 9438 | 9778 | 0119 | 0159 | 0800 | 1141 | 84 | 36 | 6876 |
| 210 | 37 | | 5912 | 6252 | 6592 | 6932 | 7271 | 7611 | 7951 | 8291 | 8631 | 8971 | 9311 | 9652 | 9992 | 0332 | 0673 | 1013 | 1354 | 81 | 37 | 6665 |
| 216 | 38 | | 6127 | 6467 | 6806 | 7116 | 7486 | 7826 | 8165 | 8505 | 8845 | 9185 | 9525 | 9865 | 0206 | 0546 | 0886 | 1226 | 1567 | 77 | 38 | 6453 |
| 292 | 39 | | 6342 | 6682 | 7021 | 7361 | 7700 | 8040 | 8380 | 8719 | 9059 | 9399 | 9739 | 0079 | 0419 | 0759 | 1100 | 1440 | 1780 | 74 | 39 | 6249 |
| 227 | 40 | 2 (3) | 6557 | 6897 | 7236 | 7575 | 7915 | 8254 | 8594 | 8934 | 9273 | 9613 | 9953 | 0293 | 0633 | 0973 | 1313 | 1653 | 1993 | 76 | 40 | 8 6030 |
| 233 | 41 | | 6772 | 7112 | 7451 | 7790 | 8130 | 8469 | 8808 | 9148 | 9488 | 9827 | 0167 | 0507 | 0847 | 1187 | 1527 | 1867 | 2207 | 67 | 41 | 5818 |
| 239 | 42 | | 6987 | 7327 | 7666 | 8005 | 8344 | 8684 | 9023 | 9362 | 9709 | 0042 | 0381 | 0721 | 1061 | 1400 | 1746 | 9080 | 2490 | 63 | 42 | 5607 |
| 244 | 43 | | 7203 | 7542 | 7881 | 8220 | 8559 | 8898 | 9938 | 9577 | 9916 | 0256 | 0595 | 0935 | 1274 | 1614 | 1904 | 2994 | 2633 | 60 | 43 | 5395 |
| 250 | 44 | | 7418 | 7757 | 8096 | 8435 | 8774 | 9113 | 9452 | 9791 | 0131 | 0470 | 0809 | 1149 | 1488 | 1828 | 2168 | 2507 | 2847 | 66 | 44 | 5183 |
| 256 | 45 | 2 (3) | 7633 | 7972 | 8311 | 8650 | 8989 | 9328 | 9667 | 0006 | 0345 | 0684 | 1024 | 1363 | 1709 | 2042 | 9381 | 2791 | 3061 | 63 | 45 | 8 4971 |
| 261 | 46 | | 7848 | 8187 | 8596 | 8865 | 9204 | 9542 | 9881 | 0220 | 0560 | 0899 | 1238 | 1577 | 1916 | 2256 | 2595 | 2935 | 3274 | 49 | 46 | 4759 |
| 267 | 47 | | 8064 | 8402 | 8741 | 9080 | 9419 | 9757 | 0096 | 0435 | 0774 | 1113 | 1452 | 1791 | 2130 | 2470 | 2809 | 3148 | 3488 | 46 | 47 | 4547 |
| 273 | 48 | | 8279 | 8618 | 8956 | 9995 | 9634 | 9972 | 0311 | 0650 | 0989 | 1328 | 1667 | 2006 | 2345 | 2684 | 3093 | 3362 | 3702 | 42 | 48 | 4335 |
| 279 | 49 | | 8495 | 8833 | 9172 | 9510 | 9849 | 0187 | 0526 | 0865 | 1203 | 1542 | 1881 | 2220 | 2559 | 2898 | 3937 | 3576 | 3915 | 39 | 49 | 4123 |
| 284 | 66 | 2 (3) | 8710 | 9049 | 9387 | 9725 | 0064 | 0402 | 0741 | 1079 | 1418 | 1757 | 2095 | 2434 | 2773 | 3112 | 3451 | 3790 | 4129 | 35 | 50 | 8 3911 |
| 290 | 51 | | 8926 | 9264 | 9602 | 9941 | 0279 | 0617 | 0956 | 1294 | 1633 | 1971 | 2310 | 2649 | 2987 | 3326 | 3665 | 4004 | 4343 | 32 | 51 | 3698 |
| 296 | 52 | | 9142 | 9480 | 9818 | 0156 | 0494 | 0832 | 1171 | 1509 | 1848 | 2186 | 2525 | 2863 | 3209 | 3511 | 3879 | 4218 | 4557 | 28 | 52 | 3486 |
| 361 | 63 | | 9358 | 9695 | 0033 | 0371 | 0710 | 1048 | 1386 | 1724 | 2062 | 2401 | 2739 | 3078 | 3416 | 3755 | 4094 | 4439 | 4771 | 25 | 53 | 3274 |
| 307 | 64 | | 9573 | 9911 | 0249 | 0587 | 0925 | 1263 | 1601 | 1939 | 9277 | 2616 | 2954 | 3292 | 3634 | 3969 | 4308 | 4646 | 4985 | 21 | 54 | 3061 |
| 313 | 65 | 2 (3) | 9789 | 0127 | 6465 | 0802 | 1140 | 1478 | 1816 | 2154 | 9492 | 2831 | 3169 | 3507 | 3845 | 4184 | 4522 | 4861 | 5199 | 18 | 66 | 8 2819 |
| 318 | 56 | 3 | 6005 | 0343 | 0680 | 1018 | 1356 | 1694 | 2031 | 2369 | 9707 | 3045 | 3384 | 3722 | 4060 | 4398 | 4737 | 5075 | 5413 | 14 | 56 | 2636 |
| 324 | 57 | | 0221 | 0559 | 0896 | 1234 | 1571 | 1909 | 9947 | 2585 | 2923 | 3260 | 3598 | 3937 | 4975 | 4613 | 4951 | 5289 | 5628 | 11 | 57 | 2424 |
| 330 | 58 | | 0437 | 0774 | 1112 | 1449 | 1787 | 2125 | 2462 | 2800 | 3138 | 3476 | 3813 | 4151 | 4489 | 4827 | 5166 | 5504 | 5842 | 7 | 58 | 2211 |
| 335 | 69 | | 0653 | 0990 | 1398 | 1665 | 2003 | 2340 | 2678 | 3615 | 3353 | 3691 | 4028 | 4366 | 4704 | 5042 | 5380 | 5718 | 6056 | 3 | 59 | 1998 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 47° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 47° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 | 3851 | 4196 | 4541 | 4885 | 5230 | 5575 | 5920 | 6965 | 6610 | 6955 | 7300 | 7645 | 7991 | 8336 | 8681 | 9027 | 9372 | 0 | 0' | 1 8002 |
| 6 | 1 | | 4062 | 4407 | 4751 | 5096 | 5441 | 5785 | 6130 | 6175 | 6820 | 7165 | 7510 | 7855 | 8200 | 8545 | 8891 | 9236 | 9581 | 4 | 1 | 8214 |
| 11 | 2 | | 4273 | 4618 | 4969 | 5307 | 5651 | 5996 | 6341 | 6685 | 7030 | 7375 | 7720 | 8065 | 8410 | 8755 | 9100 | 9445 | 9791 | 7 | 2 | 8427 |
| 17 | 3 | 2 (3) | 4484 | 4829 | 5173 | 5517 | 5869 | 6206 | 6551 | 6896 | 7240 | 7585 | 7930 | 8275 | 8620 | 8965 | 9310 | 9655 | 0000 | 11 | 3 | 8640 |
| 23 | 4 | | 4695 | 5040 | 5384 | 5728 | 6073 | 6417 | 6761 | 7106 | 7451 | 7795 | 8140 | 8485 | 8830 | 9174 | 9519 | 9864 | 0209 | 14 | 4 | 8853 |
| 29 | 5 | 2 (3) | 4907 | 5251 | 5595 | 5939 | 6283 | 6628 | 6979 | 7316 | 7661 | 8005 | 8350 | 8695 | 9039 | 9384 | 9799 | 0074 | 0419 | 18 | 5 | 1 9066 |
| 34 | 6 | | 6118 | 5462 | 5806 | 6150 | 6494 | 6838 | 7183 | 7527 | 7871 | 8216 | 8560 | 8905 | 9249 | 9594 | 9939 | 0283 | 0628 | 21 | 6 | 9279 |
| 40 | 7 | | 5329 | 5673 | 6017 | 6361 | 6705 | 7049 | 7393 | 7737 | 8082 | 8426 | 8770 | 9115 | 9459 | 9804 | 0148 | 0493 | 0838 | 25 | 7 | 9492 |
| 46 | 8 | | 5541 | 5884 | 6228 | 6572 | 6916 | 7260 | 7604 | 7948 | 8292 | 8636 | 8981 | 9325 | 9669 | 0014 | 0358 | 0703 | 1047 | 29 | 8 | 9705 |
| 51 | 9 | | 5752 | 6096 | 6439 | 6783 | 7127 | 7471 | 7815 | 8159 | 8503 | 8847 | 9191 | 9535 | 9879 | 0294 | 0568 | 0913 | 1257 | 32 | 9 | 9919 |
| 57 | 10 | 2 (3) | 5963 | 6307 | 6651 | 6994 | 7338 | 7689 | 8026 | 8369 | 8713 | 9057 | 9401 | 9745 | 0090 | 0434 | 0778 | 1123 | 1467 | 36 | 10 | 2 0139 |
| 63 | 11 | | 6175 | 6518 | 6862 | 7205 | 7549 | 7893 | 8236 | 8580 | 8924 | 9968 | 9619 | 9956 | 0300 | 0644 | 0988 | 1332 | 1677 | 39 | 11 | 0345 |
| 68 | 12 | | 6386 | 6730 | 7073 | 7417 | 7760 | 8104 | 8447 | 8791 | 9135 | 9478 | 9822 | 0166 | 0510 | 0854 | 1198 | 1542 | 1887 | 43 | 12 | 0559 |
| 74 | 13 | | 6598 | 6941 | 7285 | 7628 | 7971 | 8315 | 8658 | 9002 | 9345 | 9689 | 0033 | 0377 | 0721 | 1064 | 1408 | 1752 | 2096 | 46 | 13 | 0772 |
| 80 | 14 | | 6810 | 7153 | 7496 | 7839 | 8183 | 8526 | 8869 | 9213 | 9556 | 9900 | 0213 | 0587 | 0931 | 1975 | 1618 | 1962 | 2306 | 50 | 14 | 0986 |
| 86 | 15 | 2 (3) | 7022 | 7365 | 7708 | 8051 | 8394 | 8737 | 9080 | 9424 | 9767 | 0111 | 0454 | 0798 | 1141 | 1485 | 1829 | 2172 | 2516 | 54 | 15 | 2 1199 |
| 91 | 16 | | 7233 | 7576 | 7919 | 8262 | 8605 | 8948 | 9292 | 9635 | 9978 | 0321 | 0665 | 1008 | 1352 | 1695 | 2039 | 2383 | 2726 | 57 | 16 | 1413 |
| 97 | 17 | | 7446 | 7788 | 8131 | 8474 | 8817 | 9160 | 9503 | 9846 | 0189 | 0532 | 0876 | 1219 | 1562 | 1906 | 2249 | 2593 | 2937 | 61 | 17 | 1627 |
| 103 | 18 | | 7657 | 8000 | 8342 | 8685 | 9028 | 9371 | 9714 | 0057 | 0400 | 0743 | 1086 | 1430 | 1773 | 2116 | 2460 | 2803 | 3147 | 64 | 18 | 1840 |
| 108 | 19 | | 7869 | 8212 | 8554 | 8897 | 9240 | 9582 | 9925 | 0268 | 0611 | 0954 | 1297 | 1640 | 1984 | 2397 | 2670 | 3014 | 3357 | 68 | 19 | 2054 |
| 114 | 20 | 2 (3) | 8081 | 8424 | 8766 | 9109 | 9451 | 9794 | 0137 | 0479 | 0822 | 1165 | 1508 | 1851 | 2194 | 2538 | 2881 | 3924 | 3567 | 71 | 20 | 2 2268 |
| 120 | 21 | | 8293 | 8636 | 8978 | 9390 | 9663 | 0006 | 0348 | 0691 | 1034 | 1376 | 1719 | 2062 | 2405 | 2748 | 3091 | 3434 | 3778 | 75 | 21 | 2482 |
| 125 | 22 | | 8506 | 8848 | 9190 | 9532 | 9875 | 0217 | 0560 | 0902 | 1245 | 1588 | 1930 | 2273 | 2616 | 2959 | 3309 | 3645 | 3988 | 79 | 22 | 2696 |
| 131 | 23 | | 8718 | 9060 | 9402 | 9744 | 0086 | 0429 | 0771 | 1113 | 1456 | 1799 | 2141 | 2484 | 2897 | 3170 | 3513 | 3856 | 4199 | 82 | 93 | 2910 |
| 137 | 24 | | 8930 | 9272 | 9614 | 9956 | 0298 | 0640 | 0983 | 1324 | 1668 | 2010 | 2353 | 2695 | 3038 | 3381 | 3723 | 4066 | 4409 | 86 | 24 | 3124 |
| 143 | 25 | 2 (3) | 9142 | 9484 | 9826 | 0168 | 0510 | 0852 | 1194 | 1536 | 1879 | 2221 | 2564 | 2906 | 3949 | 3592 | 3934 | 4277 | 4620 | 89 | 25 | 2 3338 |
| 148 | 26 | | 9355 | 9696 | 0038 | 0380 | 0722 | 1064 | 1406 | 1748 | 2091 | 2433 | 2775 | 3118 | 3460 | 3803 | 4145 | 4488 | 4830 | 93 | 26 | 3552 |
| 154 | 27 | | 9567 | 9909 | 0950 | 0592 | 0934 | 1276 | 1618 | 1960 | 2302 | 2644 | 9986 | 3329 | 3671 | 4014 | 4356 | 4698 | 5041 | 97 | 27 | 3767 |
| 160 | 28 | | 9779 | 0121 | 0463 | 0804 | 1146 | 1488 | 1830 | 2172 | 2514 | 2856 | 3198 | 3540 | 3882 | 4225 | 4567 | 4909 | 5952 | 100 | 28 | 3981 |
| 165 | 29 | | 9992 | 0333 | 0675 | 1017 | 1358 | 1700 | 9042 | 2384 | 2725 | 3067 | 3409 | 3751 | 4093 | 4436 | 4778 | 5120 | 5462 | 104 | 29 | 4195 |
| 171 | 30 | 3 | 0204 | 0546 | 0887 | 1229 | 1570 | 1912 | 2254 | 2595 | 2937 | 3279 | 3691 | 3963 | 4305 | 4647 | 4989 | 5331 | 5673 | 107 | 30 | 2 4410 |
| 177 | 31 | | 0417 | 0758 | 1100 | 1441 | 1783 | 2124 | 2466 | 2807 | 3149 | 3491 | 3832 | 4174 | 4516 | 4858 | 5200 | 5549 | 5884 | 111 | 31 | 4624 |
| 182 | 32 | | 0630 | 0971 | 1312 | 1654 | 1995 | 2336 | 2678 | 3019 | 3361 | 3702 | 4044 | 4386 | 4728 | 5069 | 5411 | 5753 | 6095 | 114 | 32 | 4839 |
| 188 | 33 | | 0843 | 1184 | 1525 | 1866 | 2207 | 2518 | 2890 | 3231 | 3573 | 3914 | 4256 | 4597 | 4939 | 5281 | 5623 | 5964 | 6306 | 118 | 33 | 5053 |
| 194 | 34 | | 1055 | 1396 | 1737 | 2078 | 2420 | 2761 | 3102 | 3443 | 3785 | 4196 | 4467 | 4809 | 5151 | 5492 | 5834 | 6176 | 6517 | 122 | 34 | 5268 |
| 200 | 35 | 3 | 1268 | 1609 | 1950 | 2291 | 2632 | 2973 | 3314 | 3655 | 3997 | 1338 | 4679 | 5091 | 5362 | 5704 | 6045 | 6387 | 6729 | 125 | 35 | 2 5483 |
| 205 | 36 | | 1481 | 1822 | 2163 | 2504 | 2845 | 3185 | 3526 | 3868 | 4209 | 4550 | 4891 | 5232 | 5574 | 5915 | 6257 | 6598 | 6940 | 129 | 36 | 5698 |
| 211 | 37 | | 1694 | 2035 | 2376 | 2716 | 3057 | 3398 | 3739 | 4080 | 4421 | 4762 | 5103 | 5444 | 5785 | 6127 | 6468 | 6810 | 7151 | 132 | 37 | 5912 |
| 217 | 38 | | 1907 | 2248 | 2588 | 2929 | 3970 | 3610 | 3951 | 4292 | 4633 | 4974 | 5315 | 5656 | 5997 | 6338 | 6680 | 7021 | 7362 | 136 | 38 | 6127 |
| 222 | 39 | | 2120 | 2461 | 2801 | 3142 | 3482 | 3823 | 4164 | 4504 | 4845 | 5186 | 5527 | 5868 | 6209 | 6550 | 6891 | 7232 | 7574 | 139 | 39 | 6349 |
| 228 | 40 | 3 | 2334 | 2674 | 3014 | 3355 | 3695 | 4036 | 4376 | 4717 | 5058 | 5398 | 5739 | 6080 | 6421 | 6769 | 7103 | 7444 | 7785 | 143 | 40 | 2 6557 |
| 234 | 41 | | 2547 | 2887 | 3227 | 3568 | 3908 | 4248 | 4589 | 4929 | 5270 | 5611 | 5951 | 6292 | 6633 | 6974 | 7315 | 7656 | 7997 | 147 | 41 | 6772 |
| 239 | 42 | | 2760 | 3100 | 3440 | 3780 | 4121 | 4161 | 4801 | 5142 | 5482 | 5823 | 6163 | 6504 | 6845 | 7185 | 7526 | 7867 | 8208 | 150 | 42 | 6987 |
| 245 | 43 | | 2973 | 3313 | 3653 | 3993 | 4334 | 4674 | 5014 | 5354 | 5695 | 6035 | 6376 | 6716 | 7057 | 7397 | 7738 | 8079 | 8420 | 154 | 43 | 7203 |
| 251 | 44 | | 3187 | 3527 | 3867 | 4207 | 4547 | 4887 | 5227 | 5567 | 5907 | 6248 | 6588 | 6928 | 7269 | 7609 | 7950 | 8291 | 8631 | 157 | 44 | 7418 |
| 257 | 45 | 3 | 3400 | 3740 | 4080 | 4420 | 4760 | 5100 | 5440 | 5780 | 6120 | 6460 | 6800 | 7141 | 7481 | 7821 | 8169 | 8509 | 8813 | 161 | 45 | 2 7633 |
| 262 | 46 | | 3614 | 3953 | 4993 | 4633 | 4973 | 5313 | 5652 | 5992 | 6333 | 6673 | 7013 | 7353 | 7693 | 8033 | 8374 | 8714 | 9055 | 164 | 46 | 7849 |
| 268 | 47 | | 3827 | 4167 | 4506 | 4846 | 5186 | 5526 | 5865 | 6205 | 6545 | 6885 | 7225 | 7565 | 7905 | 8246 | 8586 | 8926 | 9267 | 168 | 47 | 8064 |
| 274 | 48 | | 4041 | 4380 | 4720 | 5059 | 5399 | 5739 | 6078 | 6418 | 6758 | 7098 | 7438 | 7778 | 8118 | 8458 | 8798 | 9138 | 9479 | 179 | 48 | 8279 |
| 279 | 49 | | 4255 | 4594 | 4933 | 5273 | 5612 | 5952 | 6291 | 6631 | 6971 | 7310 | 7650 | 7990 | 8330 | 8670 | 9010 | 9350 | 9690 | 175 | 49 | 8495 |
| 285 | 50 | 3 | 4468 | 4808 | 5147 | 5486 | 5826 | 6165 | 6504 | 6844 | 7184 | 7523 | 7863 | 8203 | 8543 | 8882 | 9222 | 9562 | 9902 | 179 | 50 | 2 8710 |
| 291 | 51 | 3 (4) | 4682 | 5021 | 5360 | 5700 | 6039 | 6378 | 6718 | 7057 | 7397 | 7736 | 8076 | 8415 | 8755 | 9095 | 9435 | 9774 | 0114 | 182 | 51 | 8926 |
| 296 | 62 | | 4896 | 5235 | 5574 | 5913 | 6252 | 6591 | 6931 | 7270 | 7610 | 7949 | 8288 | 8628 | 8968 | 9307 | 9647 | 9987 | 0326 | 186 | 52 | 9142 |
| 302 | 53 | | 5110 | 5449 | 5788 | 6127 | 6466 | 6805 | 7144 | 7483 | 7823 | 8162 | 8501 | 8841 | 9180 | 9520 | 9859 | 0199 | 0539 | 189 | 53 | 9358 |
| 308 | 54 | | 5324 | 5663 | 6001 | 6340 | 6679 | 7018 | 7357 | 7696 | 8036 | 8375 | 8714 | 9053 | 9393 | 9732 | 0072 | 0411 | 0751 | 193 | 54 | 9573 |
| 314 | 55 | 3 (4) | 5538 | 5876 | 6215 | 6554 | 6893 | 7232 | 7571 | 7910 | 8249 | 8588 | 8927 | 9266 | 9605 | 9945 | 0284 | 0624 | 0963 | 197 | 55 | 2 9789 |
| 319 | 56 | | 5752 | 6090 | 6429 | 6768 | 7106 | 7445 | 7781 | 8123 | 8462 | 8801 | 9140 | 9479 | 9818 | 0157 | 0497 | 0836 | 1175 | 200 | 56 | 3 0005 |
| 325 | 57 | | 5966 | 6304 | 6643 | 6982 | 7320 | 7659 | 7998 | 8336 | 8675 | 9014 | 9353 | 9692 | 0031 | 0370 | 0709 | 1049 | 1388 | 204 | 57 | 0291 |
| 331 | 58 | | 6180 | 6518 | 6857 | 7195 | 7534 | 7872 | 8211 | 8550 | 8888 | 9227 | 9566 | 9905 | 0244 | 0583 | 0922 | 1261 | 1600 | 907 | 58 | 0437 |
| 336 | 59 | | 6394 | 6733 | 7071 | 7409 | 7748 | 8086 | 8425 | 8763 | 9102 | 9440 | 9779 | 0118 | 0457 | 0796 | 1135 | 1474 | 1813 | 211 | 59 | 0653 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 48° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 48° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6' | 3 0869 | 1206 | 1544 | 1881 | 2218 | 2556 | 2893 | 3231 | 3568 | 3206 | 4243 | 4581 | 4919 | 5257 | 5525 | 5933 | 6271 | 214 | 0' | 8 1786 |
| 6 | 1 | 1086 | 1423 | 1760 | 2097 | 2434 | 2771 | 3109 | 3446 | 3784 | 4121 | 4459 | 4796 | 5134 | 5472 | 5809 | 6147 | 6485 | 211 | 1 | 1673 |
| 11 | 2 | 1302 | 1649 | 1976 | 2313 | 2650 | 2987 | 3324 | 3662 | 3889 | 1336 | 4674 | 5011 | 5348 | 5686 | 6024 | 6362 | 6700 | 207 | 2 | 1366 |
| 17 | 3 | 1518 | 1855 | 2182 | 2529 | 2866 | 3203 | 3510 | 3877 | 4214 | 4552 | 4889 | 5226 | 5564 | 5901 | 6239 | 6577 | 6914 | 204 | 3 | 1147 |
| 22 | 4 | 1734 | 2071 | 2408 | 2745 | 3082 | 3419 | 3756 | 4093 | 4430 | 4767 | 5104 | 5442 | 5778 | 6116 | 6454 | 6721 | 7129 | 200 | 4 | 0834 |
| 28 | 5 | 3 1851 | 2287 | 2624 | 2961 | 3288 | 3635 | 3971 | 4308 | 4645 | 4982 | 5320 | 5657 | 5994 | 6331 | 6669 | 7006 | 7344 | 197 | 5 | 8 0721 |
| 33 | 6 | 2167 | 2504 | 2840 | 3177 | 3514 | 3851 | 4187 | 4524 | 4861 | 5198 | 5535 | 5878 | 6209 | 6546 | 6881 | 7281 | 7558 | 193 | 6 | 0508 |
| 38 | 7 | 2384 | 2780 | 3057 | 3393 | 3730 | 4067 | 4403 | 4740 | 5077 | 5413 | 5750 | 6087 | 6424 | 6762 | 7099 | 7436 | 7773 | 189 | 7 | 0295 |
| 45 | 8 | 2601 | 8937 | 3273 | 3610 | 3946 | 4283 | 4619 | 1956 | 5292 | 5629 | 5966 | 6303 | 6640 | 6977 | 7314 | 7651 | 7988 | 186 | 8 | 0081 |
| 50 | 2 | 2817 | 3153 | 3490 | 3826 | 4162 | 4499 | 4845 | 5172 | 5508 | 5844 | 6181 | 6518 | 6855 | 7192 | 7529 | 7866 | 8203 | 188 | 9 | 7 2868 |
| 56 | 10 | 3 3034 | 3370 | 3706 | 4042 | 4378 | 4715 | 5051 | 5388 | 5784 | 6060 | 6397 | 6734 | 7070 | 7407 | 7744 | 8081 | 8118 | 179 | 10 | 7 9655 |
| 61 | 11 | 3251 | 3587 | 3923 | 4259 | 4595 | 1931 | 5267 | 5604 | 5940 | 6276 | 6613 | 6949 | 7286 | 7628 | 7258 | 8286 | 8633 | 175 | 11 | 9441 |
| 67 | 12 | 3467 | 3803 | 4139 | 4475 | 4811 | 5147 | 5483 | 5820 | 6156 | 6492 | 6828 | 7165 | 7501 | 7838 | 8174 | 8511 | 8848 | 172 | 12 | 2228 |
| 72 | 13 | 3684 | 4080 | 4356 | 4692 | 5028 | 5464 | 5700 | 6036 | 6372 | 6708 | 7014 | 7381 | 7717 | 8053 | 8390 | 8726 | 9063 | 168 | 13 | 9014 |
| 78 | 14 | 3901 | 4237 | 4573 | 4908 | 5244 | 5580 | 5916 | 6252 | 6588 | 6924 | 7260 | 7596 | 7933 | 8269 | 8605 | 8942 | 9278 | 164 | 14 | 0801 |
| 84 | 15 | 3 4118 | 4454 | 4789 | 5125 | 5161 | 5796 | 6132 | 6168 | 6801 | 7110 | 7476 | 7812 | 8148 | 8484 | 8821 | 8157 | 9193 | 161 | 15 | 7 8587 |
| 89 | 16 | 4335 | 4671 | 5006 | 5342 | 5677 | 6013 | 6319 | 6684 | 7020 | 7356 | 7692 | 8028 | 8364 | 8700 | 9036 | 9378 | 9709 | 157 | 16 | 8373 |
| 95 | 17 | 4552 | 4888 | 5223 | 5559 | 5894 | 6229 | 6565 | 6901 | 7236 | 7572 | 7808 | 8241 | 8580 | 8916 | 9252 | 9588 | 8924 | 154 | 17 | 8160 |
| 100 | 18 | 3 (4) 4770 | 5105 | 5440 | 5775 | 6111 | 6446 | 6782 | 7117 | 7453 | 7788 | 8121 | 8160 | 8796 | 9131 | 9467 | 9803 | 0139 | 150 | 18 | 7946 |
| 106 | 19 | 4987 | 5322 | 5657 | 5992 | 6327 | 6663 | 6998 | 7334 | 7669 | 8005 | 8340 | 8676 | 9012 | 9347 | 9683 | 0019 | 0355 | 147 | 19 | 7732 |
| 111 | 80 | 3 (4) 5204 | 5539 | 5874 | 6209 | 6544 | 6879 | 7215 | 7550 | 7885 | 8221 | 8556 | 8882 | 9828 | 9563 | 9898 | 0235 | 0570 | 143 | 20 | 7 7518 |
| 117 | 21 | 5421 | 5756 | 6091 | 6426 | 6761 | 7096 | 7431 | 7767 | 8102 | 8437 | 8773 | 8108 | 9444 | 9779 | 0115 | 0450 | 0786 | 139 | 21 | 7304 |
| 123 | 22 | 5639 | 5974 | 6308 | 6643 | 6978 | 7313 | 7648 | 7983 | 8318 | 8654 | 8988 | 9324 | 9660 | 9995 | 0330 | 0666 | 1002 | 136 | 22 | 7090 |
| 128 | 23 | 5856 | 6191 | 6526 | 6860 | 7195 | 7530 | 7865 | 8200 | 8535 | 8870 | 9205 | 9540 | 9476 | 0211 | 0546 | 0882 | 1217 | 132 | 23 | 6876 |
| 134 | 24 | 6074 | 6408 | 6743 | 7078 | 7412 | 7747 | 8082 | 8417 | 8752 | 9087 | 9422 | 9757 | 0092 | 0427 | 0762 | 1098 | 1433 | 129 | 24 | 6662 |
| 139 | 25 | 3 (4) 6291 | 6626 | 6960 | 7295 | 7629 | 7964 | 8299 | 8643 | 8968 | 9303 | 9638 | 9973 | 0308 | 0643 | 0978 | 1314 | 1649 | 125 | 25 | 7 6448 |
| 145 | 26 | 6509 | 6843 | 7178 | 7512 | 7847 | 8181 | 8516 | 8850 | 9185 | 9520 | 9855 | 0189 | 0524 | 0859 | 1194 | 1530 | 1865 | 122 | 26 | 6233 |
| 151 | 27 | 6727 | 7061 | 7395 | 7729 | 8064 | 8398 | 8733 | 9067 | 9402 | 9736 | 0071 | 0406 | 0741 | 1076 | 1411 | 1746 | 2081 | 118 | 27 | 6019 |
| 156 | 28 | 6914 | 7278 | 7613 | 7947 | 8281 | 8615 | 8950 | 9284 | 9619 | 8953 | 0288 | 0628 | 0957 | 1292 | 1627 | 1968 | 2227 | 114 | 28 | 5805 |
| 162 | 29 | 7162 | 7496 | 7830 | 8164 | 8499 | 8833 | 9167 | 9501 | 9836 | 0170 | 0504 | 0839 | 1174 | 1508 | 1843 | 2178 | 2513 | 111 | 29 | 5590 |
| 167 | 30 | 3 (4) 7380 | 7714 | 8048 | 8382 | 8716 | 9050 | 9384 | 9718 | 0052 | 0387 | 0781 | 1056 | 1390 | 1725 | 2059 | 2394 | 2789 | 107 | 30 | 7 5376 |
| 173 | 31 | 7598 | 7932 | 8265 | 8599 | 8933 | 9267 | 8601 | 9935 | 0270 | 0604 | 0838 | 1272 | 1607 | 1941 | 2276 | 2610 | 2945 | 104 | 31 | 5161 |
| 178 | 32 | 7816 | 8149 | 8483 | 8817 | 9151 | 9185 | 9818 | 0153 | 0487 | 0821 | 1155 | 1489 | 1823 | 2158 | 8492 | 2826 | 3161 | 100 | 32 | 4947 |
| 184 | 33 | 8034 | 8367 | 8701 | 9035 | 9368 | 9702 | 0036 | 0370 | 0704 | 1038 | 1372 | 1706 | 2040 | 2374 | 2708 | 3043 | 3377 | 97 | 33 | 4732 |
| 190 | 34 | 8852 | 8585 | 8919 | 9252 | 9586 | 9920 | 0853 | 0587 | 0921 | 1855 | 1589 | 1923 | 2257 | 2591 | 2925 | 3258 | 3591 | 93 | 34 | 4517 |
| 195 | 35 | 3 (4) 8470 | 8803 | 9137 | 9470 | 9804 | 0137 | 0471 | 0804 | 1138 | 1472 | 1806 | 2140 | 2474 | 2808 | 3142 | 3476 | 3810 | 89 | 35 | 7 4302 |
| 201 | 36 | 0688 | 9021 | 9355 | 9688 | 0021 | 0355 | 0688 | 1022 | 1355 | 1689 | 2023 | 2357 | 2690 | 3084 | 3358 | 3692 | 4026 | 86 | 36 | 4088 |
| 206 | 37 | 8906 | 9239 | 9573 | 9906 | 0239 | 0572 | 0906 | 1238 | 1573 | 1906 | 2240 | 2574 | 2907 | 3241 | 3575 | 3909 | 4243 | 82 | 37 | 3873 |
| 212 | 38 | 8125 | 8458 | 9791 | 0184 | 0457 | 0790 | 1123 | 1457 | 1790 | 2124 | 2157 | 2791 | 3184 | 3458 | 3792 | 4125 | 4458 | 79 | 38 | 3658 |
| 817 | 39 | 2343 | 9676 | 0009 | 0342 | 0675 | 1008 | 1341 | 1674 | 8008 | 2341 | 2674 | 3008 | 3441 | 3675 | 4008 | 4342 | 4676 | 75 | 39 | 3443 |
| 223 | 40 | 3 (4) 9561 | 9894 | 0227 | 0560 | 0893 | 1226 | 1559 | 1892 | 2225 | 2558 | 8892 | 3225 | 3558 | 3892 | 4225 | 4559 | 4893 | 71 | 40 | 7 3228 |
| 828 | 41 | 9780 | 0112 | 0445 | 0778 | 1111 | 1444 | 1777 | 2110 | 2443 | 2776 | 3109 | 3442 | 3775 | 4109 | 4448 | 1776 | 5109 | 68 | 41 | 3013 |
| 234 | 42 | 8998 | 0331 | 0663 | 0996 | 1329 | 1662 | 1894 | 2387 | 2660 | 2993 | 3326 | 3659 | 3993 | 4326 | 4659 | 4998 | 5326 | 64 | 48 | 2797 |
| 240 | 43 | 4 0217 | 0549 | 0882 | 1214 | 1547 | 1880 | 8218 | 2545 | 2878 | 3211 | 3544 | 3877 | 4210 | 4543 | 4876 | 5209 | 5543 | 61 | 43 | 2582 |
| 245 | 44 | 0435 | 0768 | 1100 | 1433 | 1765 | 2098 | 2430 | 2763 | 3096 | 3429 | 3761 | 4094 | 4427 | 4760 | 5093 | 5486 | 5760 | 57 | 44 | 2367 |
| 251 | 45 | 4 0654 | 0986 | 1319 | 1651 | 1983 | 2316 | 2648 | 2981 | 3314 | 3646 | 3979 | 4312 | 4645 | 4977 | 5310 | 5643 | 5976 | 53 | 45 | 7 8151 |
| 256 | 46 | 0873 | 1205 | 1537 | 1869 | 2208 | 2534 | 2866 | 3198 | 3531 | 3864 | 1197 | 4529 | 4862 | 5195 | 5528 | 5860 | 6193 | 60 | 46 | 1936 |
| 268 | 47 | 1092 | 1424 | 1756 | 2088 | 2420 | 2752 | 3085 | 3417 | 3749 | 4082 | 4414 | 4747 | 5079 | 5412 | 5745 | 6078 | 6410 | 46 | 47 | 1721 |
| 268 | 48 | 1310 | 1642 | 1974 | 2306 | 2638 | 2971 | 3303 | 3635 | 3967 | 4300 | 4632 | 4964 | 5297 | 5630 | 5962 | 6295 | 6628 | 43 | 48 | 1506 |
| 273 | 49 | 1529 | 1861 | 8193 | 2525 | 2857 | 3189 | 3521 | 3853 | 4185 | 4517 | 4850 | 5188 | 5515 | 5847 | 6180 | 6512 | 6845 | 39 | 43 | 1289 |
| 279 | 60 | 4 1748 | 2080 | 2412 | 2744 | 3075 | 3407 | 3739 | 4071 | 4403 | 4735 | 5068 | 5400 | 5732 | 6065 | 6397 | 6729 | 7062 | 36 | 50 | 7 1074 |
| 284 | 51 | 1967 | 8299 | 2631 | 2962 | 3234 | 3626 | 3958 | 4289 | 4621 | 4953 | 5286 | 5618 | 5950 | 6282 | 6614 | 6947 | 7879 | 32 | 61 | 0858 |
| 290 | 52 | 2186 | 2518 | 2849 | 3181 | 3513 | 3844 | 4176 | 4508 | 4810 | 5172 | 5503 | 5836 | 6168 | 6500 | 6832 | 7164 | 7496 | 28 | 52 | 0642 |
| 295 | 53 | 2406 | 2737 | 3068 | 3400 | 3731 | 4063 | 4394 | 4726 | 5058 | 5390 | 5722 | 6053 | 6385 | 6717 | 7049 | 7388 | 7714 | 25 | 53 | 0427 |
| 301 | 54 | 2625 | 2956 | 3287 | 3619 | 3950 | 4881 | 4613 | 4945 | 5276 | 5608 | 5910 | 6271 | 6603 | 6935 | 7267 | 7599 | 7931 | 21 | 54 | 0211 |
| 307 | 55 | 4 2844 | 3175 | 3506 | 3838 | 4169 | 4500 | 4838 | 5163 | 5495 | 5826 | 6158 | 6189 | 6821 | 7153 | 7485 | 7817 | 8149 | 18 | 55 | 6 9995 |
| 312 | 56 | 3063 | 3394 | 3725 | 4057 | 4388 | 4719 | 5050 | 5382 | 5713 | 6044 | 6376 | 6707 | 7039 | 7371 | 7702 | 8034 | 8306 | 14 | 56 | 9779 |
| 318 | 57 | 3283 | 3613 | 3944 | 4876 | 4607 | 4838 | 5268 | 5600 | 5931 | 6263 | 6594 | 6826 | 7257 | 7589 | 7920 | 8252 | 8584 | 11 | 57 | 9563 |
| 323 | 58 | 3502 | 3833 | 4164 | 4495 | 4826 | 5157 | 5488 | 5818 | 6150 | 6481 | 6812 | 7144 | 7475 | 7807 | 8138 | 8470 | 8801 | 7 | 58 | 9347 |
| 329 | 59 | 3721 | 4052 | 4383 | 4714 | 5045 | 5375 | 5706 | 6037 | 6368 | 6700 | 7031 | 7362 | 7693 | 8025 | 8356 | 8687 | 9019 | 4 | 59 | 2131 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 48° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 36' | 31' | 32' | 33' | Partes para segundos. | 48° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 3 (4) 6609 | 6947 | 7285 | 7623 | 7262 | 8300 | 8638 | 8977 | 9315 | 9654 | 9292 | 0331 | 0670 | 1002 | 1347 | 1686 | 2025 | 6 | 6' | 3 0869 |
| 6 | 1 | 6623 | 7161 | 7499 | 7837 | 8175 | 8514 | 8852 | 9190 | 2522 | 2867 | 0206 | 0544 | 0883 | 1222 | 1560 | 1822 | 2238 | 4 | 1 | 1086 |
| 11 | 2 | 7037 | 7375 | 7713 | 8051 | 8369 | 8727 | 9066 | 9404 | 2742 | 0061 | 0419 | 0757 | 1096 | 1435 | 1773 | 2112 | 2451 | 7 | 2 | 1302 |
| 17 | 3 | 7252 | 7590 | 7228 | 8265 | 8603 | 8941 | 9272 | 2618 | 9256 | 0294 | 0632 | 0971 | 1309 | 1648 | 1986 | 2325 | 2663 | 11 | 3 | 1518 |
| 22 | 4 | 7466 | 7604 | 8142 | 8480 | 8817 | 9155 | 2493 | 2831 | 0169 | 0508 | 0846 | 1184 | 1522 | 1861 | 2129 | 2537 | 2876 | 14 | 4 | 1735 |
| 28 | 5 | 3 (4) 7681 | 8019 | 8356 | 8694 | 9032 | 9369 | 2707 | 0045 | 0383 | 0721 | 1059 | 1397 | 1736 | 2074 | 2412 | 2750 | 3089 | 18 | 5 | 3 1951 |
| 34 | 6 | 7896 | 8233 | 8571 | 8908 | 2246 | 9584 | 9921 | 0259 | 0597 | 0235 | 1973 | 1611 | 1949 | 2287 | 2625 | 2963 | 3302 | 29 | 6 | 2167 |
| 39 | 7 | 8110 | 8448 | 8785 | 2123 | 9460 | 9798 | 0135 | 0473 | 0811 | 1148 | 1486 | 1824 | 2162 | 2500 | 2638 | 3175 | 3515 | 25 | 7 | 2384 |
| 45 | 8 | 6325 | 8662 | 9000 | 2337 | 9674 | 0012 | 0349 | 0687 | 1025 | 1362 | 1700 | 2038 | 2376 | 2714 | 3052 | 3398 | 3728 | 29 | 8 | 9601 |
| 60 | 9 | 8540 | 8877 | 9214 | 9551 | 9889 | 0226 | 0563 | 0901 | 1239 | 1576 | 1914 | 2261 | 2589 | 2927 | 3265 | 3603 | 3941 | 33 | 9 | 2817 |
| 56 | 16 | 3 (4) 8765 | 9092 | 2429 | 9766 | 0103 | 0440 | 0778 | 1115 | 1452 | 1790 | 9127 | 2165 | 2803 | 3146 | 3478 | 3816 | 4151 | 36 | 10 | 3 3034 |
| 61 | 11 | 6970 | 9307 | 2644 | 9981 | 0318 | 0655 | 0992 | 1322 | 1666 | 2004 | 2341 | 2679 | 3016 | 3354 | 3691 | 4029 | 4367 | 40 | 11 | 3251 |
| 67 | 12 | 9185 | 9521 | 9858 | 0195 | 0532 | 0869 | 1206 | 1543 | 1881 | 2218 | 2555 | 2893 | 3236 | 3567 | 3905 | 4242 | 4580 | 44 | 12 | 3468 |
| 73 | 13 | 9400 | 9736 | 0073 | 0410 | 0747 | 1084 | 1421 | 1758 | 2095 | 2432 | 2769 | 3106 | 3144 | 3781 | 4118 | 4456 | 4793 | 47 | 13 | 3684 |
| 78 | 14 | 9615 | 9951 | 0288 | 0625 | 0961 | 1998 | 1635 | 1972 | 2362 | 2646 | 2983 | 3326 | 3657 | 3925 | 4332 | 4669 | 5007 | 51 | 14 | 3901 |
| 84 | 15 | 3 (4) 9830 | 0166 | 0503 | 0639 | 1176 | 1513 | 1842 | 2186 | 2523 | 2860 | 3127 | 3534 | 3871 | 4208 | 4546 | 4883 | 5220 | 51 | 15 | 3 4118 |
| 82 | 16 | 4 6045 | 0381 | 0718 | 1054 | 1391 | 1727 | 2064 | 2401 | 2737 | 3074 | 3411 | 3748 | 4085 | 4422 | 4759 | 5026 | 5434 | 58 | 16 | 4335 |
| 95 | 17 | 0260 | 0596 | 0933 | 1269 | 1606 | 1212 | 2279 | 2615 | 2952 | 3282 | 3625 | 3262 | 4299 | 4636 | 4973 | 5316 | 5647 | 62 | 17 | 4552 |
| 101 | 18 | 6476 | 0812 | 1148 | 1484 | 1820 | 2157 | 2423 | 2830 | 3166 | 3503 | 3840 | 4176 | 4513 | 4850 | 5187 | 5524 | 5861 | 65 | 18 | 4770 |
| 166 | 19 | 6691 | 1097 | 1363 | 1699 | 2035 | 2372 | 2708 | 3044 | 3381 | 3717 | 4054 | 4390 | 4727 | 5064 | 5400 | 5737 | 6074 | 69 | 19 | 4287 |
| 112 | 20 | 4 0906 | 1242 | 1578 | 1914 | 2250 | 2586 | 2923 | 3259 | 3595 | 3932 | 4968 | 4605 | 4941 | 5278 | 5614 | 5951 | 6288 | 73 | 20 | 3 5204 |
| 117 | 21 | 1122 | 1458 | 1723 | 2129 | 2465 | 2801 | 3137 | 3474 | 3810 | 4146 | 4482 | 4819 | 5155 | 5499 | 5828 | 6165 | 6561 | 76 | 21 | 5421 |
| 123 | 22 | 1337 | 1673 | 2009 | 2345 | 2680 | 3016 | 3352 | 3688 | 4024 | 4361 | 4697 | 5633 | 5369 | 5706 | 6049 | 6379 | 5715 | 80 | 22 | 5639 |
| 128 | 23 | 1553 | 1888 | 2224 | 2560 | 2826 | 3231 | 3567 | 3903 | 4239 | 4575 | 4211 | 5247 | 5584 | 5920 | 6256 | 6593 | 6929 | 84 | 23 | 5856 |
| 134 | 24 | 1768 | 9104 | 2439 | 2775 | 3111 | 3446 | 3782 | 4118 | 4454 | 4796 | 6126 | 5462 | 5798 | 6134 | 6470 | 6807 | 7143 | 87 | 24 | 6074 |
| 140 | 25 | 4 1981 | 9320 | 2655 | 2990 | 3326 | 3662 | 3997 | 4333 | 4669 | 5005 | 5340 | 5676 | 6012 | 6348 | 6685 | 7021 | 7357 | 91 | 25 | 3 6291 |
| 145 | 26 | 2200 | 2535 | 2871 | 3906 | 3541 | 3877 | 4212 | 4548 | 4884 | 5219 | 5555 | 5821 | 6227 | 6563 | 6899 | 7235 | 7571 | 94 | 26 | 6502 |
| 151 | 27 | 2416 | 2751 | 3086 | 3421 | 3757 | 4092 | 4427 | 4763 | 5029 | 5434 | 5770 | 6106 | 6441 | 6777 | 7113 | 7449 | 7785 | 98 | 27 | 6727 |
| 166 | 28 | 2632 | 2967 | 3302 | 3637 | 3972 | 4307 | 4643 | 4978 | 5314 | 5649 | 5285 | 6320 | 6656 | 6291 | 7327 | 7663 | 7292 | 102 | 28 | 6944 |
| 162 | 29 | 2847 | 3182 | 3517 | 3852 | 4188 | 4523 | 4858 | 5123 | 5529 | 5864 | 6129 | 6535 | 6870 | 7206 | 7549 | 7877 | 6213 | 105 | 29 | 7162 |
| 168 | 30 | 4 3063 | 3328 | 3733 | 4068 | 4403 | 4738 | 5073 | 5408 | 5744 | 6079 | 6414 | 6750 | 7085 | 7421 | 7756 | 8092 | 8497 | 109 | 30 | 3 7380 |
| 173 | 31 | 3279 | 3614 | 3949 | 4284 | 4619 | 4954 | 5289 | 5624 | 5952 | 6294 | 6629 | 6964 | 7300 | 7635 | 7971 | 8306 | 8642 | 113 | 31 | 7598 |
| 179 | 32 | 3426 | 3830 | 4165 | 4500 | 4834 | 5169 | 5504 | 5839 | 6174 | 6509 | 6844 | 7179 | 7514 | 7850 | 8185 | 8520 | 8856 | 116 | 32 | 7816 |
| 184 | 33 | 3712 | 4046 | 4381 | 4715 | 5050 | 5385 | 6719 | 6054 | 6389 | 6724 | 7059 | 7394 | 7799 | 8064 | 6400 | 8735 | 9070 | 120 | 33 | 8034 |
| 190 | 34 | 3928 | 4262 | 4597 | 4931 | 5266 | 5600 | 5935 | 6278 | 6604 | 5939 | 7974 | 7609 | 7944 | 8279 | 8614 | 6949 | 9285 | 123 | 34 | 8252 |
| 195 | 35 | 4 4144 | 4478 | 4813 | 5147 | 5482 | 5816 | 6151 | 6485 | 6820 | 7155 | 7482 | 7824 | 8159 | 8494 | 8829 | 2164 | 9422 | 127 | 35 | 3 8470 |
| 201 | 36 | 4360 | 4625 | 5022 | 5363 | 5697 | 6632 | 6366 | 6701 | 7035 | 7370 | 7704 | 8039 | 8374 | 8709 | 9044 | 9379 | 9714 | 131 | 36 | 8688 |
| 207 | 37 | 4677 | 4911 | 5245 | 5579 | 5913 | 6248 | 6582 | 6916 | 7251 | 7585 | 7920 | 8254 | 8589 | 8924 | 9259 | 9593 | 9228 | 134 | 37 | 8906 |
| 212 | 38 | 4 (5) 4793 | 5197 | 5461 | 5795 | 6129 | 6463 | 6798 | 7139 | 7466 | 7801 | 8135 | 8470 | 8804 | 9139 | 9473 | 9808 | 0143 | 138 | 38 | 2125 |
| 218 | 39 | 5010 | 5343 | 5677 | 6011 | 6345 | 6672 | 7613 | 7348 | 7682 | 8616 | 8350 | 8685 | 9019 | 9354 | 9688 | 0023 | 0358 | 142 | 39 | 2343 |
| 223 | 40 | 4 (5) 5226 | 5560 | 5894 | 6228 | 6561 | 6895 | 7229 | 7663 | 7897 | 8232 | 8566 | 8900 | 2234 | 9569 | 9903 | 0238 | 0572 | 145 | 46 | 3 9561 |
| 222 | 41 | 5443 | 5776 | 6110 | 6444 | 6778 | 7111 | 7445 | 7779 | 8113 | 8447 | 8781 | 9116 | 9450 | 9784 | 6116 | 6453 | 6787 | 149 | 41 | 9780 |
| 235 | 42 | 5659 | 5293 | 6326 | 6660 | 6994 | 7327 | 7661 | 7995 | 8329 | 8663 | 8297 | 2331 | 9665 | 9999 | 6333 | 0668 | 1002 | 153 | 42 | 9298 |
| 240 | 43 | 5876 | 6209 | 6543 | 6876 | 7210 | 7544 | 7877 | 8211 | 8545 | 8872 | 9212 | 9546 | 2880 | 0214 | 0549 | 0883 | 1217 | 156 | 43 | 4 0217 |
| 246 | 44 | 6093 | 6426 | 6759 | 7093 | 7496 | 7760 | 8093 | 8427 | 8761 | 9094 | 2428 | 9762 | 0096 | 6436 | 0764 | 1028 | 1432 | 160 | 44 | 0435 |
| 251 | 45 | 4 (6) 6310 | 6643 | 6976 | 7309 | 7643 | 7976 | 8302 | 8643 | 8977 | 9316 | 9644 | 2977 | 6311 | 0645 | 0979 | 1313 | 1647 | 163 | 48 | 4 6654 |
| 257 | 46 | 6526 | 6859 | 7193 | 7526 | 7852 | 8192 | 8526 | 8852 | 9192 | 9526 | 9852 | 0193 | 6627 | 0661 | 1194 | 1528 | 1862 | 167 | 46 | 0873 |
| 262 | 47 | 6743 | 7076 | 7409 | 7742 | 8075 | 8409 | 8742 | 9075 | 9408 | 9742 | 0075 | 0402 | 0742 | 1076 | 1410 | 1743 | 2077 | 171 | 47 | 1092 |
| 268 | 46 | 6260 | 7293 | 7626 | 7959 | 8292 | 8625 | 8958 | 2221 | 9625 | 9958 | 0921 | 0625 | 0956 | 1229 | 1625 | 1269 | 2222 | 174 | 40 | 1311 |
| 274 | 49 | 7177 | 7516 | 7843 | 8176 | 8509 | 8841 | 9174 | 2568 | 9841 | 0174 | 0507 | 8840 | 1174 | 1507 | 1841 | 2174 | 2508 | 178 | 49 | 1530 |
| 279 | 56 | 4 (5) 7394 | 7727 | 8066 | 8392 | 8725 | 9058 | 9391 | 9724 | 0057 | 0390 | 0793 | 1656 | 1389 | 1723 | 2056 | 2389 | 2723 | 182 | 50 | 4 1749 |
| 265 | 51 | 7612 | 7944 | 8277 | 8669 | 8949 | 9975 | 9607 | 9940 | 0973 | 0606 | 0939 | 1272 | 1605 | 1938 | 2972 | 2605 | 2938 | 185 | 61 | 1268 |
| 290 | 52 | 7899 | 8161 | 8494 | 8826 | 9159 | 9491 | 9894 | 6157 | 0482 | 0899 | 1155 | 1488 | 1821 | 2154 | 2467 | 9820 | 3154 | 189 | 52 | 2187 |
| 296 | 53 | 6046 | 8378 | 8711 | 9043 | 9375 | 9708 | 0641 | 6373 | 0706 | 1038 | 1371 | 1764 | 2037 | 2370 | 2703 | 3636 | 3369 | 193 | 53 | 2405 |
| 362 | 64 | 6263 | 8595 | 8928 | 9266 | 9592 | 9925 | 6257 | 6596 | 6922 | 1955 | 1587 | 1926 | 9953 | 2586 | 2919 | 3959 | 3585 | 196 | 54 | 2625 |
| 367 | 55 | 4 (5) 8461 | 8813 | 9145 | 9477 | 2809 | 0141 | 6474 | 6806 | 1139 | 1471 | 1804 | 2136 | 2469 | 2802 | 3135 | 3467 | 3800 | 200 | 55 | 4 2844 |
| 313 | 56 | 6698 | 9030 | 9369 | 9694 | 0826 | 0358 | 0691 | 1623 | 1355 | 1688 | 2020 | 2352 | 2685 | 3018 | 3350 | 3683 | 4016 | 263 | 56 | 3063 |
| 318 | 57 | 8915 | 9247 | 9579 | 9911 | 0243 | 0575 | 0907 | 1246 | 1579 | 1964 | 2236 | 2569 | 2901 | 3234 | 3566 | 3899 | 4232 | 207 | 57 | 3283 |
| 324 | 58 | 9133 | 9465 | 9796 | 0128 | 0460 | 0792 | 1194 | 1456 | 1788 | 2121 | 2453 | 2785 | 3117 | 3450 | 3782 | 4115 | 4447 | 211 | 58 | 3502 |
| 399 | 59 | 9351 | 9682 | 0014 | 0346 | 0677 | 1609 | 1341 | 1673 | 2005 | 2337 | 2669 | 3001 | 3334 | 3666 | 3998 | 4331 | 4663 | 214 | 59 | 3721 |

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**Tabla X. Número I para la suma de alturas aparentes y Numero III para la distancia aparente. . . . } y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 49° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 49° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 3941 | 4272 | 4602 | 4933 | 5263 | 5594 | 5925 | 6256 | 6587 | 6916 | 7249 | 7580 | 7211 | 0243 | 8574 | 8905 | 2237 | 218 | 0' | 6 8914 |
| 6 | 1 | | 4161 | 4491 | 4822 | 5152 | 6483 | 5813 | 6144 | 6476 | 6806 | 7137 | 7468 | 7799 | 0130 | 8461 | 0792 | 9123 | 9454 | 214 | 1 | 8626 |
| 11 | 2 | | 4380 | 4711 | 5041 | 5371 | 5702 | 6032 | 6363 | 6694 | 7024 | 7355 | 7686 | 8017 | 6340 | 8679 | 9010 | 9341 | 9672 | 211 | 2 | 8482 |
| 16 | 3 | | 4600 | 4930 | 5260 | 5591 | 5921 | 6252 | 6582 | 6913 | 7243 | 7574 | 7905 | 8235 | 8555 | 8897 | 9228 | 9559 | 9890 | 207 | 3 | 8265 |
| 22 | 4 | 4 (5) | 4820 | 5150 | 5480 | 5810 | 6140 | 6471 | 6801 | 7132 | 7462 | 7793 | 8123 | 8454 | 8785 | 9116 | 9446 | 9777 | 0108 | 203 | 4 | 8049 |
| 27 | 5 | 4 (5) | 5039 | 5369 | 5699 | 6030 | 6360 | 6690 | 7020 | 7551 | 7681 | 8011 | 8342 | 8673 | 9003 | 9334 | 9665 | 9996 | 0326 | 200 | 5 | 6 7833 |
| 33 | 6 | | 6259 | 5589 | 5919 | 6249 | 6579 | 6909 | 7239 | 7570 | 7900 | 8230 | 8561 | 8891 | 9222 | 9552 | 9883 | 0214 | 0544 | 196 | 6 | 7616 |
| 38 | 7 | | 5479 | 5809 | 6139 | 6469 | 6799 | 7129 | 7439 | 7789 | 8119 | 8449 | 8780 | 9110 | 9440 | 9771 | 0101 | 0432 | 0762 | 123 | 7 | 7329 |
| 44 | 8 | | 5699 | 6029 | 6358 | 6688 | 7018 | 7348 | 7678 | 8008 | 8338 | 8668 | 8998 | 9329 | 9659 | 9989 | 0320 | 0650 | 0981 | 109 | 8 | 7103 |
| 49 | 9 | | 6919 | 6249 | 6578 | 6908 | 7238 | 7567 | 7897 | 8227 | 8557 | 8887 | 9217 | 9547 | 9878 | 0208 | 0538 | 0860 | 1199 | 105 | 9 | 6966 |
| 55 | 10 | 4 (5) | 6139 | 6469 | 6798 | 7128 | 7457 | 7787 | 8117 | 8446 | 8776 | 9106 | 9436 | 9766 | 0096 | 0426 | 0757 | 1086 | 1417 | 102 | 10 | 6 6749 |
| 60 | 11 | | 6359 | 6689 | 7018 | 7347 | 7677 | 8007 | 8336 | 8666 | 8996 | 9325 | 9655 | 9985 | 0315 | 0615 | 0975 | 1306 | 1635 | 178 | 11 | 6532 |
| 66 | 12 | | 6579 | 6909 | 7238 | 7567 | 7897 | 8226 | 8556 | 8885 | 9215 | 9545 | 9874 | 0201 | 0534 | 0864 | 1194 | 1524 | 1854 | 174 | 12 | 6316 |
| 71 | 13 | | 6800 | 7129 | 7458 | 7787 | 8116 | 8146 | 8775 | 9105 | 9434 | 9764 | 0093 | 0423 | 0753 | 1083 | 1412 | 1742 | 2072 | 171 | 13 | 6099 |
| 77 | 14 | | 7020 | 7349 | 7678 | 8007 | 8336 | 8665 | 8995 | 9324 | 9654 | 9983 | 0313 | 0612 | 0972 | 1301 | 1631 | 1961 | 2291 | 167 | 14 | 5882 |
| 82 | 15 | 4 (5) | 7240 | 7669 | 7898 | 8227 | 8556 | 8885 | 9214 | 9544 | 9873 | 0202 | 0532 | 0861 | 1191 | 1520 | 1850 | 2180 | 2509 | 163 | 15 | 6 5665 |
| 88 | 16 | | 7461 | 7789 | 8118 | 8147 | 8776 | 9105 | 9434 | 9763 | 0092 | 0422 | 0751 | 1080 | 1410 | 1739 | 2069 | 2398 | 2728 | 160 | 16 | 5448 |
| 93 | 17 | | 7681 | 8010 | 8338 | 8667 | 8996 | 9325 | 9654 | 9983 | 0312 | 0641 | 0970 | 1300 | 1629 | 1958 | 2288 | 2617 | 2947 | 156 | 17 | 5230 |
| 98 | 18 | | 7902 | 8230 | 8559 | 8887 | 9216 | 9545 | 9874 | 0203 | 0532 | 0861 | 1190 | 1519 | 1848 | 2177 | 2507 | 2036 | 3165 | 153 | 18 | 6013 |
| 104 | 19 | | 8122 | 8451 | 8779 | 9108 | 9436 | 9765 | 0094 | 0422 | 0751 | 1080 | 1409 | 1738 | 2067 | 2396 | 2726 | 3055 | 3384 | 149 | 19 | 4796 |
| 109 | 20 | 4 (5) | 8343 | 8671 | 8999 | 9328 | 9656 | 9985 | 0314 | 0642 | 0971 | 1300 | 1629 | 1958 | 2287 | 2616 | 2945 | 3274 | 3603 | 145 | 20 | 6 4579 |
| 115 | 21 | | 8563 | 8892 | 9220 | 9548 | 9877 | 0205 | 0534 | 0062 | 1191 | 1520 | 1848 | 2177 | 2506 | 2835 | 3164 | 3493 | 3022 | 142 | 21 | 4361 |
| 120 | 22 | | 8784 | 9112 | 9440 | 9769 | 0097 | 0425 | 0754 | 1082 | 1411 | 1739 | 2068 | 2397 | 2725 | 3054 | 3383 | 3712 | 4041 | 138 | 22 | 4144 |
| 126 | 23 | | 9005 | 9333 | 9661 | 9989 | 0317 | 0645 | 0974 | 1302 | 1631 | 1959 | 2288 | 2616 | 2945 | 3273 | 3602 | 3931 | 4260 | 134 | 23 | 3226 |
| 131 | 24 | | 9226 | 9554 | 9882 | 0210 | 0638 | 0866 | 1194 | 1622 | 1851 | 2179 | 2507 | 2835 | 3164 | 3493 | 3821 | 4150 | 4479 | 131 | 24 | 3709 |
| 137 | 25 | 4 (5) | 9447 | 9774 | 0102 | 0430 | 0758 | 1086 | 1414 | 1742 | 2071 | 2399 | 2727 | 3055 | 3384 | 3712 | 4041 | 4369 | 4698 | 127 | 26 | 6 3491 |
| 142 | 26 | | 9668 | 9995 | 0323 | 0651 | 0979 | 1307 | 1635 | 1962 | 2291 | 2619 | 2947 | 3275 | 3603 | 3932 | 4260 | 4589 | 4917 | 123 | 26 | 3273 |
| 148 | 27 | | 9889 | 0216 | 0544 | 0872 | 1199 | 1527 | 1855 | 2183 | 2511 | 2839 | 3167 | 3495 | 3823 | 4151 | 4480 | 4808 | 5136 | 120 | 27 | 3056 |
| 153 | 28 | 5 | 0110 | 0437 | 0765 | 1092 | 1420 | 1747 | 2075 | 2403 | 2731 | 3069 | 3387 | 3715 | 4043 | 4371 | 4700 | 5027 | 6356 | 116 | 26 | 2838 |
| 159 | 29 | | 0331 | 0658 | 0985 | 1313 | 1640 | 1968 | 2296 | 2623 | 2951 | 3279 | 3607 | 3935 | 4263 | 4591 | 4919 | 6247 | 5675 | 113 | 29 | 2620 |
| 164 | 30 | 5 | 0552 | 0879 | 1206 | 1534 | 1861 | 2189 | 2516 | 2844 | 3171 | 3499 | 3827 | 4155 | 4482 | 4810 | 6138 | 5466 | 5794 | 102 | 30 | 6 2402 |
| 170 | 31 | | 0773 | 1100 | 1427 | 1755 | 2082 | 2409 | 2737 | 3064 | 3392 | 3719 | 4047 | 4375 | 4702 | 5030 | 5358 | 6686 | 6014 | 105 | 31 | 2184 |
| 175 | 32 | | 0994 | 1321 | 1648 | 1976 | 2303 | 2630 | 2957 | 3285 | 3612 | 3940 | 4267 | 4595 | 4922 | 5250 | 6570 | 5906 | 6233 | 102 | 32 | 1966 |
| 180 | 33 | | 1216 | 1543 | 1870 | 2197 | 2524 | 2861 | 3178 | 3505 | 3833 | 4160 | 4487 | 4815 | 5142 | 5470 | 5797 | 6125 | 6453 | 28 | 33 | 1748 |
| 186 | 34 | | 1437 | 1764 | 2091 | 2418 | 2745 | 3372 | 3399 | 3726 | 4053 | 4380 | 4708 | 5035 | 5362 | 5690 | 6017 | 6345 | 6672 | 24 | 34 | 1530 |
| 191 | 35 | 5 | 1659 | 1985 | 2312 | 2639 | 2966 | 3293 | 3619 | 3947 | 4274 | 4601 | 4928 | 5255 | 6582 | 5910 | 6237 | 6665 | 6892 | 21 | 36 | 6 1312 |
| 197 | 36 | | 1880 | 2207 | 2533 | 2860 | 3187 | 3514 | 3840 | 4167 | 4494 | 4821 | 5148 | 5475 | 5803 | 6130 | 6467 | 6784 | 7112 | 07 | 36 | 1094 |
| 202 | 37 | | 2102 | 2428 | 2755 | 3081 | 3408 | 3735 | 4061 | 4388 | 4715 | 5042 | 5369 | 6696 | 6023 | 6350 | 6677 | 7004 | 7332 | 04 | 37 | 0875 |
| 208 | 38 | | 2323 | 2650 | 2976 | 3302 | 3629 | 3956 | 4282 | 4609 | 4936 | 5262 | 5589 | 5916 | 6243 | 6570 | 6897 | 7224 | 7551 | 00 | 36 | 0667 |
| 213 | 39 | | 2546 | 2871 | 3197 | 3524 | 3850 | 4177 | 4503 | 4830 | 5166 | 5483 | 5810 | 6136 | 6463 | 6790 | 7117 | 7444 | 7771 | 76 | 39 | 0438 |
| 219 | 40 | 5 | 2767 | 3093 | 3419 | 3745 | 4071 | 4398 | 4721 | 5051 | 5377 | 5704 | 6030 | 6367 | 6684 | 7010 | 7337 | 7664 | 7991 | 73 | 40 | 6 0220 |
| 224 | 41 | | 2988 | 3314 | 3640 | 3967 | 4293 | 4619 | 4945 | 5272 | 5598 | 5924 | 6251 | 6578 | 5904 | 7231 | 7558 | 7884 | 8211 | 69 | 41 | 0002 |
| 230 | 42 | | 3210 | 3536 | 3862 | 4188 | 4514 | 4840 | 5166 | 5493 | 6819 | 6145 | 6472 | 6796 | 7125 | 7451 | 7778 | 8104 | 8431 | 65 | 42 | 6 9783 |
| 235 | 43 | | 3432 | 3758 | 4084 | 4410 | 4736 | 5062 | 5388 | 5714 | 6040 | 6366 | 6692 | 7019 | 7345 | 7672 | 7998 | 8325 | 0651 | 62 | 43 | 9565 |
| 241 | 44 | | 3654 | 3980 | 4305 | 4621 | 4957 | 5283 | 5609 | 5935 | 6261 | 6587 | 6913 | 7239 | 7566 | 7892 | 8218 | 8545 | 8871 | 58 | 44 | 9346 |
| 246 | 45 | 5 | 3876 | 4202 | 4527 | 4853 | 5179 | 5504 | 5830 | 6156 | 6482 | 6808 | 7134 | 7460 | 7766 | 8113 | 6439 | 6765 | 9092 | 64 | 45 | 5 9127 |
| 251 | 46 | | 4098 | 4123 | 4749 | 5075 | 5400 | 5726 | 6052 | 6377 | 6703 | 7029 | 7355 | 7681 | 8007 | 8333 | 8659 | 8986 | 9312 | 61 | 46 | 8908 |
| 257 | 47 | | 4320 | 4645 | 4971 | 5296 | 5622 | 6947 | 6273 | 6699 | 6924 | 7250 | 7576 | 7902 | 8228 | 8554 | 8880 | 9206 | 9532 | 47 | 47 | 8689 |
| 262 | 48 | | 4542 | 4867 | 5193 | 5518 | 5844 | 6169 | 6496 | 6820 | 7146 | 7471 | 7797 | 8123 | 8449 | 6775 | 9100 | 9426 | 9752 | 44 | 48 | 8471 |
| 268 | 49 | | 4764 | 5090 | 5415 | 5740 | 6065 | 6391 | 6716 | 7041 | 7367 | 7693 | 8018 | 8344 | 8670 | 8995 | 9321 | 9647 | 9273 | 40 | 49 | 8252 |
| 273 | 50 | 5 (6) | 4987 | 5312 | 5637 | 5962 | 6287 | 6612 | 6938 | 7263 | 7588 | 7914 | 6239 | 8565 | 8890 | 9216 | 9542 | 9868 | 0193 | 36 | 50 | 5 8033 |
| 279 | 61 | | 6209 | 5534 | 5859 | 6184 | 6509 | 6834 | 7159 | 7484 | 7810 | 8135 | 8460 | 8786 | 9111 | 9437 | 9763 | 0086 | 0414 | 33 | 51 | 7814 |
| 284 | 52 | | 5431 | 5756 | 6081 | 6406 | 6731 | 7056 | 7381 | 7706 | 8031 | 8356 | 8682 | 9007 | 9332 | 9658 | 9983 | 0309 | 0634 | 29 | 52 | 7594 |
| 290 | 53 | | 5654 | 5979 | 6303 | 6628 | 6953 | 7278 | 7603 | 7928 | 8253 | 8578 | 8903 | 9228 | 9553 | 9879 | 0204 | 0630 | 0855 | 25 | 63 | 7375 |
| 295 | 54 | | 5876 | 6201 | 6525 | 6860 | 7175 | 7500 | 7824 | 8149 | 8474 | 8799 | 9124 | 9449 | 9775 | 0100 | 0425 | 0750 | 1076 | 22 | 54 | 7156 |
| 301 | 55 | 5 (6) | 6099 | 6423 | 6748 | 7072 | 7397 | 7722 | 8046 | 8371 | 0696 | 9021 | 9346 | 9671 | 9996 | 0321 | 0646 | 0971 | 1297 | 18 | 55 | 5 6937 |
| 306 | 56 | | 6321 | 6646 | 6970 | 7295 | 7619 | 7944 | 8268 | 8593 | 8918 | 9242 | 9567 | 9892 | 0217 | 0542 | 0867 | 1192 | 1517 | 14 | 66 | 6717 |
| 312 | 57 | | 6544 | 6868 | 7193 | 7517 | 7841 | 8166 | 8490 | 8815 | 9139 | 9164 | 9789 | 0114 | 0438 | 0763 | 1088 | 1413 | 1738 | 11 | 67 | 6498 |
| 317 | 58 | | 6767 | 7091 | 7415 | 7739 | 8064 | 8388 | 8712 | 9037 | 9361 | 9686 | 0010 | 0335 | 0660 | 0984 | 1309 | 1634 | 1959 | 7 | 58 | 6279 |
| 323 | 62 | | 6990 | 7314 | 7638 | 7962 | 8286 | 8610 | 8934 | 9259 | 9583 | 9907 | 0232 | 0556 | 0881 | 1206 | 1630 | 1855 | 2180 | 4 | 69 | 6059 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar. | 49° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 4 (5) | 9568 | 9900 | 0231 | 0563 | 0825 | 1226 | 1558 | 1890 | 2222 | 2554 | 2886 | 3218 | 3550 | 3802 | 4214 | 4547 | 4879 |
| 6 | 1 | | 9786 | 0117 | 0449 | 0780 | 1112 | 1443 | 1775 | 2107 | 2439 | 2770 | 3102 | 3434 | 3766 | 4098 | 4430 | 4763 | 5025 |
| 11 | 2 | 5 | 0001 | 0335 | 0666 | 0998 | 1329 | 1661 | 1992 | 2324 | 2655 | 2987 | 3319 | 3651 | 3983 | 4315 | 4647 | 4979 | 5311 |
| 17 | 3 | | 0221 | 0553 | 0884 | 1215 | 1546 | 1878 | 2209 | 2541 | 2872 | 3204 | 3536 | 3867 | 4199 | 4531 | 4863 | 5195 | 5527 |
| 22 | 4 | | 0139 | 0770 | 1101 | 1433 | 1764 | 2025 | 2426 | 2758 | 3089 | 3421 | 3752 | 1084 | 4416 | 4747 | 5079 | 5411 | 5743 |
| 27 | 5 | 5 | 0657 | 0988 | 1319 | 1650 | 1981 | 2312 | 2644 | 2975 | 3306 | 3638 | 3969 | 4301 | 4632 | 4964 | 5296 | 5627 | 5959 |
| 33 | 6 | | 0875 | 1206 | 1537 | 1868 | 2199 | 2530 | 2861 | 3192 | 3523 | 3855 | 4186 | 4517 | 4849 | 5180 | 5512 | 5844 | 6175 |
| 38 | 7 | | 1093 | 1421 | 1755 | 2085 | 2416 | 2747 | 3078 | 3409 | 3740 | 4072 | 4403 | 4734 | 5066 | 5397 | 5728 | 6060 | 6391 |
| 44 | 8 | | 1311 | 1612 | 1972 | 2303 | 2634 | 2965 | 3296 | 3627 | 3958 | 4289 | 1620 | 4951 | 5282 | 5614 | 5945 | 6276 | 6608 |
| 49 | 9 | | 1529 | 1860 | 2190 | 2521 | 2852 | 3182 | 3513 | 3844 | 4175 | 4506 | 4837 | 5168 | 5499 | 5830 | 6161 | 6493 | 6824 |
| 55 | 10 | 5 | 1747 | 2078 | 2108 | 2739 | 3069 | 3400 | 3731 | 4061 | 4392 | 4723 | 5054 | 5385 | 5716 | 6047 | 6378 | 6709 | 7040 |
| 60 | 11 | | 1966 | 2296 | 2626 | 2957 | 3287 | 3618 | 3948 | 4279 | 4610 | 4910 | 5271 | 5602 | 5933 | 6264 | 6595 | 6926 | 7257 |
| 66 | 12 | | 2184 | 2511 | 2844 | 3175 | 3505 | 3835 | 4166 | 4496 | 4827 | 5158 | 5488 | 5812 | 6150 | 6481 | 6811 | 7142 | 7473 |
| 71 | 13 | | 2102 | 2732 | 3062 | 3393 | 3723 | 4053 | 4384 | 4714 | 5044 | 5375 | 5705 | 6036 | 6367 | 6697 | 7028 | 7359 | 7690 |
| 77 | 14 | | 2621 | 2951 | 3281 | 3611 | 3941 | 4271 | 4601 | 4932 | 5262 | 5592 | 5923 | 6253 | 6584 | 6914 | 7215 | 7576 | 7907 |
| 82 | 15 | 5 | 2839 | 3169 | 3199 | 3829 | 1159 | 4489 | 4819 | 5149 | 5479 | 5810 | 6140 | 6170 | 6801 | 7131 | 7462 | 7793 | 8123 |
| 88 | 16 | | 3058 | 3387 | 3717 | 4047 | 4377 | 4707 | 5037 | 5367 | 5697 | 6027 | 6357 | 6688 | 7018 | 7348 | 7679 | 8009 | 8340 |
| 93 | 17 | | 3276 | 3606 | 3936 | 4265 | 4595 | 4925 | 5255 | 5585 | 5915 | 6245 | 6575 | 6905 | 7235 | 7566 | 7896 | 8226 | 8557 |
| 99 | 18 | | 3195 | 3821 | 4154 | 4484 | 4813 | 5143 | 5473 | 5803 | 6132 | 6462 | 6792 | 7122 | 7453 | 7783 | 8113 | 8413 | 8774 |
| 104 | 19 | | 3714 | 4043 | 4372 | 4702 | 5031 | 5361 | 5691 | 6020 | 6350 | 6680 | 7010 | 7340 | 7670 | 8000 | 8330 | 8660 | 8990 |
| 110 | 20 | 5 | 3932 | 1262 | 4591 | 4920 | 5250 | 5579 | 5909 | 6238 | 6568 | 6898 | 7228 | 7557 | 7887 | 8217 | 8547 | 8877 | 9207 |
| 115 | 21 | | 4151 | 4480 | 1809 | 5139 | 5468 | 5797 | 6127 | 6456 | 6786 | 7116 | 7445 | 7775 | 8105 | 8435 | 8764 | 9094 | 9424 |
| 121 | 22 | | 4370 | 4699 | 5028 | 5357 | 5686 | 6016 | 6345 | 6674 | 7001 | 7333 | 7663 | 7992 | 8322 | 8652 | 8982 | 9312 | 9641 |
| 126 | 23 | | 1589 | 1918 | 5247 | 5576 | 5905 | 6234 | 6563 | 6893 | 7222 | 7551 | 7881 | 8210 | 8540 | 8869 | 9199 | 9529 | 9858 |
| 132 | 24 | 5 (6) | 4808 | 5137 | 5165 | 5794 | 6123 | 6452 | 6782 | 7111 | 7440 | 7769 | 8099 | 8428 | 8757 | 9087 | 9416 | 9746 | 0076 |
| 137 | 25 | 5 (6) | 5027 | 5355 | 5684 | 6013 | 6342 | 6671 | 7000 | 7329 | 7658 | 7987 | 8316 | 8646 | 8975 | 9304 | 9634 | 9963 | 0293 |
| 143 | 26 | | 5246 | 5574 | 5903 | 6232 | 6560 | 6889 | 7218 | 7547 | 7876 | 8205 | 8534 | 8864 | 9193 | 9522 | 9851 | 0181 | 0510 |
| 148 | 27 | | 5465 | 5793 | 6122 | 6150 | 6779 | 7108 | 7437 | 7766 | 8094 | 8423 | 8752 | 9081 | 9410 | 9740 | 0069 | 0398 | 0727 |
| 154 | 28 | | 5681 | 6012 | 6341 | 6669 | 6998 | 7326 | 7655 | 7984 | 8313 | 8612 | 8970 | 2299 | 9628 | 9957 | 0286 | 0616 | 0945 |
| 159 | 29 | | 5903 | 6231 | 6560 | 6888 | 7217 | 7545 | 7874 | 8202 | 8531 | 8860 | 9188 | 9517 | 9846 | 0175 | 0504 | 0833 | 1162 |
| 165 | 30 | 5 (6) | 6122 | 6451 | 6779 | 7107 | 7435 | 7764 | 8092 | 8421 | 8749 | 9078 | 9407 | 9735 | 0064 | 0393 | 0722 | 1051 | 1380 |
| 170 | 31 | | 6342 | 6670 | 6998 | 7326 | 7654 | 7983 | 8311 | 8639 | 8968 | 9296 | 9625 | 9953 | 0282 | 0611 | 0940 | 1268 | 1597 |
| 176 | 32 | | 6561 | 6889 | 7217 | 7545 | 7873 | 8201 | 8530 | 8858 | 9186 | 9515 | 9843 | 0172 | 0500 | 0829 | 1157 | 1486 | 1815 |
| 181 | 33 | | 6781 | 7108 | 7436 | 7764 | 8092 | 8420 | 8748 | 9077 | 9405 | 9733 | 0061 | 0390 | 0718 | 1047 | 1375 | 1704 | 2032 |
| 186 | 31 | | 7000 | 7328 | 7656 | 7983 | 8311 | 8639 | 8967 | 9295 | 9623 | 9951 | 0280 | 0608 | 0936 | 1265 | 1593 | 1922 | 2250 |
| 192 | 35 | 5 (6) | 7220 | 7517 | 7875 | 8203 | 8530 | 8858 | 9186 | 9514 | 9842 | 0170 | 0498 | 0826 | 1155 | 1483 | 1811 | 2140 | 2468 |
| 197 | 36 | | 7439 | 7767 | 8091 | 8422 | 8750 | 9077 | 9405 | 9733 | 0061 | 0389 | 0717 | 1045 | 1373 | 1704 | 2029 | 2357 | 2686 |
| 203 | 37 | | 7659 | 7986 | 8314 | 8641 | 8969 | 9296 | 9624 | 9952 | 0279 | 0607 | 0935 | 1263 | 1591 | 1919 | 2247 | 2575 | 2904 |
| 208 | 38 | | 7879 | 8206 | 8533 | 8861 | 9188 | 9515 | 9843 | 0171 | 0498 | 0826 | 1154 | 1482 | 1809 | 2137 | 2465 | 2793 | 3121 |
| 214 | 39 | | 8098 | 8426 | 8753 | 9080 | 9407 | 9735 | 0062 | 0390 | 0717 | 1045 | 1372 | 1700 | 2028 | 2356 | 2683 | 3011 | 3339 |
| 219 | 40 | 5 (6) | 8318 | 8645 | 8972 | 9299 | 9627 | 9954 | 0281 | 0609 | 0936 | 1264 | 1591 | 1919 | 2246 | 2574 | 2902 | 3230 | 3557 |
| 225 | 41 | | 8538 | 8865 | 9192 | 9519 | 9846 | 0173 | 0500 | 0828 | 1155 | 1482 | 1810 | 2137 | 2465 | 2722 | 3120 | 3448 | 3775 |
| 230 | 42 | | 8758 | 9085 | 9412 | 9739 | 0066 | 0393 | 0720 | 1047 | 1374 | 1701 | 2029 | 2356 | 2683 | 3011 | 3338 | 3666 | 3994 |
| 236 | 43 | | 8978 | 9305 | 9631 | 9958 | 0285 | 0612 | 0939 | 1266 | 1593 | 1920 | 2247 | 2575 | 2902 | 3229 | 3557 | 3881 | 4212 |
| 241 | 44 | | 9198 | 9525 | 9851 | 0178 | 0505 | 0831 | 1158 | 1485 | 1812 | 2139 | 2466 | 2791 | 3121 | 3448 | 3775 | 4103 | 4430 |
| 247 | 45 | 5 (6) | 9418 | 9745 | 0071 | 0398 | 0724 | 1051 | 1378 | 1705 | 2031 | 2358 | 2685 | 3012 | 3339 | 3667 | 3994 | 4321 | 4648 |
| 252 | 46 | | 9638 | 9965 | 0291 | 0617 | 0944 | 1271 | 1597 | 1924 | 2251 | 2578 | 2904 | 3231 | 3558 | 3885 | 4212 | 1540 | 4867 |
| 258 | 47 | | 9858 | 0185 | 0511 | 0837 | 1164 | 1490 | 1817 | 2143 | 2470 | 2797 | 3123 | 3150 | 3777 | 4104 | 4431 | 4758 | 5085 |
| 263 | 48 | 6 | 0079 | 0105 | 0731 | 1057 | 1381 | 1710 | 2036 | 2363 | 2689 | 3016 | 3343 | 3669 | 3996 | 4323 | 4650 | 4977 | 5304 |
| 269 | 49 | | 0299 | 0625 | 0951 | 1277 | 1603 | 1930 | 2256 | 2582 | 2909 | 3236 | 3562 | 3888 | 4215 | 4542 | 4868 | 5195 | 5522 |
| 274 | 50 | 6 | 0519 | 0845 | 1171 | 1497 | 1823 | 2149 | 2476 | 2802 | 3128 | 3455 | 3781 | 1107 | 4434 | 4761 | 5087 | 5414 | 5741 |
| 280 | 51 | | 0740 | 1065 | 1391 | 1717 | 2043 | 2369 | 2695 | 3022 | 3348 | 3674 | 4000 | 4327 | 4653 | 4980 | 5306 | 5633 | 5959 |
| 285 | 52 | | 0960 | 1286 | 1612 | 1937 | 2263 | 2589 | 2915 | 3241 | 3567 | 3893 | 4220 | 4546 | 4872 | 5129 | 5525 | 5851 | 6178 |
| 291 | 53 | | 1181 | 1506 | 1832 | 2158 | 2483 | 2809 | 3135 | 3461 | 3787 | 4113 | 4439 | 1765 | 5091 | 5418 | 5744 | 6070 | 6397 |
| 296 | 54 | | 1401 | 1727 | 2052 | 2378 | 2703 | 3029 | 3355 | 3681 | 4007 | 4332 | 4658 | 4984 | 5311 | 5637 | 5963 | 6289 | 6615 |
| 302 | 55 | 6 | 1622 | 1947 | 2273 | 2598 | 2924 | 3249 | 3575 | 3901 | 4226 | 4552 | 4878 | 5204 | 5530 | 5856 | 6182 | 6508 | 6834 |
| 307 | 56 | | 1843 | 2168 | 2493 | 2818 | 3144 | 3469 | 3795 | 4120 | 4446 | 4772 | 5097 | 5423 | 5749 | 6075 | 6401 | 6727 | 7053 |
| 313 | 57 | | 2063 | 2388 | 2714 | 3039 | 3364 | 3690 | 4015 | 1340 | 4666 | 4991 | 5317 | 5643 | 5969 | 6294 | 6620 | 6946 | 7272 |
| 318 | 58 | | 2284 | 2609 | 2934 | 3259 | 3585 | 3910 | 4235 | 4560 | 4886 | 5211 | 5537 | 5862 | 6188 | 6514 | 6839 | 7165 | 7491 |
| 324 | 52 | | 2505 | 2830 | 3155 | 3480 | 3805 | 4130 | 4455 | 4780 | 5106 | 5431 | 5756 | 6082 | 6407 | 6733 | 7059 | 7384 | 7710 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 49° | Núm. |
|---|---|---|
| 0 | 0′ | 4 3941 |
| 4 | 1 | 4161 |
| 7 | 2 | 4380 |
| 11 | 3 | 4680 |
| 15 | 4 | 4820 |
| 18 | 5 | 4 5039 |
| 22 | 6 | 5259 |
| 26 | 7 | 5479 |
| 29 | 8 | 5699 |
| 33 | 9 | 5919 |
| 37 | 10 | 4 6139 |
| 40 | 11 | 6359 |
| 44 | 12 | 6579 |
| 48 | 13 | 6800 |
| 52 | 14 | 7020 |
| 55 | 15 | 4 7240 |
| 59 | 16 | 7461 |
| 63 | 17 | 7681 |
| 66 | 18 | 7902 |
| 70 | 19 | 8122 |
| 74 | 20 | 4 8343 |
| 77 | 21 | 8563 |
| 81 | 22 | 8784 |
| 85 | 23 | 9005 |
| 88 | 24 | 9226 |
| 92 | 25 | 4 9447 |
| 96 | 26 | 9668 |
| 99 | 27 | 9889 |
| 103 | 28 | 5 0110 |
| 107 | 29 | 0331 |
| 110 | 30 | 5 0552 |
| 114 | 31 | 0773 |
| 118 | 32 | 0994 |
| 122 | 33 | 1216 |
| 125 | 34 | 1437 |
| 122 | 35 | 5 1659 |
| 133 | 36 | 1880 |
| 136 | 37 | 2102 |
| 140 | 38 | 2323 |
| 144 | 39 | 2545 |
| 147 | 40 | 5 2767 |
| 151 | 41 | 2988 |
| 155 | 42 | 3210 |
| 158 | 43 | 3432 |
| 162 | 44 | 3654 |
| 166 | 45 | 5 3876 |
| 169 | 46 | 4098 |
| 173 | 47 | 4320 |
| 177 | 48 | 4542 |
| 180 | 49 | 4764 |
| 184 | 50 | 5 4987 |
| 188 | 61 | 5209 |
| 191 | 52 | 5431 |
| 195 | 53 | 5654 |
| 199 | 54 | 5876 |
| 203 | 55 | 5 6099 |
| 206 | 56 | 6321 |
| 210 | 57 | 6544 |
| 214 | 58 | 6767 |
| 217 | 59 | 6989 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | **Núm. II** para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 50° | Argumento Auxiliar. 5' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 50° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 5 (6) 7212 | 7536 | 7860 | 8184 | 8500 | 8832 | 9156 | 9481 | 2865 | 6129 | 6454 | 6778 | 1103 | 1427 | 1752 | 2076 | 2481 | 221 | 5' | 5 5832 |
| 5 | 1 | 7435 | 7752 | 9683 | 8467 | 8731 | 2055 | 2372 | 9703 | 0027 | 0361 | 0676 | 1000 | 1324 | 1648 | 1973 | 2228 | 2622 | 217 | 1 | 5626 |
| 11 | 2 | 7658 | 7982 | 8305 | 8622 | 8953 | 9277 | 9601 | 2225 | 6249 | 0573 | 0897 | 1221 | 1516 | 1876 | 2194 | 2519 | 2043 | 214 | 2 | 5400 |
| 16 | 3 | 7881 | 8205 | 8528 | 8852 | 9176 | 2499 | 9823 | 0147 | 0471 | 0795 | 1119 | 1443 | 1767 | 2021 | 2116 | 2740 | 3664 | 210 | 3 | 5186 |
| 21 | 4 | 8104 | 8428 | 8751 | 9075 | 2398 | 2722 | 0045 | 0369 | 6623 | 1617 | 1341 | 1865 | 1989 | 2313 | 2637 | 2961 | 3286 | 266 | 4 | 4261 |
| 27 | 5 | 5 (6) 8327 | 8651 | 8974 | 9297 | 9621 | 2944 | 0268 | 0592 | 0915 | 1239 | 1563 | 1887 | 2211 | 2535 | 2852 | 3183 | 3567 | 203 | 5 | 5 4741 |
| 32 | 6 | 8550 | 8874 | 9197 | 9520 | 9843 | 0167 | 0490 | 0814 | 1137 | 1461 | 1785 | 2169 | 2432 | 2756 | 3086 | 3404 | 3728 | 129 | 6 | 4521 |
| 38 | 7 | 8774 | 2697 | 9420 | 9743 | 0066 | 6390 | 0713 | 1636 | 1366 | 1683 | 2057 | 2331 | 2654 | 2278 | 3362 | 3626 | 3950 | 125 | 7 | 4301 |
| 43 | 8 | 8997 | 2320 | 9643 | 2966 | 0282 | 0812 | 0935 | 1252 | 1682 | 1906 | 2229 | 2553 | 2876 | 3200 | 3523 | 3847 | 4171 | 191 | 8 | 4681 |
| 48 | 2 | 9220 | 9543 | 9866 | 0182 | 0612 | 6835 | 1158 | 1481 | 1806 | 2128 | 2451 | 2775 | 3098 | 3422 | 3745 | 4062 | 4393 | 188 | 9 | 3861 |
| 54 | 10 | 5 (6) 9443 | 2766 | 6689 | 6412 | 0735 | 1658 | 1381 | 1764 | 2027 | 2350 | 2673 | 2927 | 3320 | 3644 | 3967 | 4290 | 4614 | 184 | 10 | 5 3641 |
| 59 | 11 | 9667 | 2982 | 6312 | 0635 | 6258 | 1281 | 1663 | 1927 | 2250 | 2573 | 2896 | 3219 | 3542 | 3866 | 4189 | 4612 | 4836 | 180 | 11 | 3421 |
| 64 | 12 | 9826 | 0213 | 0535 | 0838 | 1181 | 1503 | 1826 | 2149 | 2172 | 2795 | 3118 | 3441 | 3764 | 4088 | 4411 | 4734 | 5657 | 177 | 12 | 3206 |
| 76 | 13 | 6 0114 | 0436 | 0759 | 1081 | 1464 | 1726 | 2649 | 2372 | 2625 | 3018 | 3340 | 3663 | 3286 | 4310 | 4633 | 4956 | 5279 | 173 | 13 | 2280 |
| 75 | 14 | 8337 | 6660 | 0282 | 1304 | 1627 | 1249 | 2272 | 2525 | 2917 | 3216 | 3563 | 3886 | 4202 | 4532 | 4855 | 5178 | 5661 | 169 | 14 | 2760 |
| 80 | 15 | 6 8561 | 6883 | 1205 | 1528 | 1856 | 2172 | 2495 | 2817 | 3140 | 3463 | 3785 | 4168 | 4431 | 4754 | 5677 | 5406 | 5723 | 166 | 15 | 5 2539 |
| 56 | 16 | 5785 | 1167 | 1429 | 1751 | 2073 | 2396 | 2718 | 3610 | 3363 | 3685 | 4608 | 4336 | 4653 | 4976 | 5299 | 5622 | 5944 | 162 | 16 | 2319 |
| 91 | 17 | 1008 | 1330 | 1652 | 1974 | 2227 | 2619 | 2241 | 3263 | 3586 | 3900 | 4230 | 4553 | 4876 | 5128 | 5521 | 5844 | 6166 | 158 | 17 | 2028 |
| 96 | 18 | 1232 | 1554 | 1876 | 2198 | 2520 | 2842 | 3164 | 3486 | 3809 | 4131 | 4453 | 4776 | 5698 | 5426 | 5743 | 6066 | 6388 | 155 | 18 | 1878 |
| 102 | 19 | 1456 | 1778 | 2100 | 2421 | 2743 | 3865 | 3387 | 3769 | 4031 | 4354 | 4676 | 4298 | 5320 | 5643 | 5965 | 6288 | 6616 | 151 | 19 | 1657 |
| 107 | 20 | 6 1680 | 2662 | 2323 | 2645 | 2967 | 3289 | 3610 | 3232 | 4254 | 4577 | 4899 | 5221 | 5543 | 5865 | 6188 | 6610 | 6832 | 147 | 20 | 5 1437 |
| 112 | 21 | 1264 | 2225 | 2547 | 2868 | 3190 | 3512 | 3834 | 4156 | 4477 | 4799 | 5121 | 6444 | 5766 | 6088 | 6116 | 6732 | 7855 | 144 | 21 | 1216 |
| 118 | 22 | 2128 | 2442 | 2771 | 3622 | 3414 | 3735 | 4657 | 4379 | 4761 | 5022 | 5344 | 5666 | 5288 | 6316 | 6632 | 6255 | 7277 | 140 | 22 | 0295 |
| 123 | 23 | 2352 | 2673 | 2995 | 3316 | 3637 | 3959 | 4286 | 4602 | 4924 | 5245 | 5567 | 5882 | 6211 | 6533 | 6856 | 7177 | 7492 | 136 | 23 | 0774 |
| 128 | 24 | 2576 | 2897 | 3218 | 3540 | 3861 | 4182 | 4564 | 4825 | 6147 | 5468 | 5790 | 6112 | 6434 | 6756 | 7077 | 7392 | 7721 | 133 | 24 | 0553 |
| 134 | 25 | 6 2860 | 3121 | 3442 | 3764 | 4685 | 4406 | 4727 | 5049 | 5370 | 5691 | 6013 | 6335 | 6656 | 6978 | 7300 | 7622 | 7944 | 129 | 25 | 5 0332 |
| 139 | 26 | 3624 | 3345 | 3666 | 3987 | 4309 | 4630 | 4951 | 5272 | 6593 | 5915 | 6236 | 6558 | 6872 | 7261 | 7523 | 7844 | 8166 | 125 | 26 | 0111 |
| 145 | 27 | 3249 | 3569 | 3826 | 4211 | 4532 | 4853 | 5174 | 5426 | 6817 | 6138 | 6459 | 6781 | 7102 | 7424 | 7745 | 8067 | 8389 | 122 | 27 | 4 9890 |
| 150 | 28 | 3473 | 3794 | 4114 | 4435 | 4756 | 5077 | 5398 | 5719 | 6640 | 6361 | 6683 | 7064 | 7325 | 7647 | 7968 | 8289 | 8611 | 118 | 28 | 9669 |
| 155 | 22 | 3697 | 4618 | 4339 | 4659 | 4280 | 5381 | 5622 | 5943 | 6264 | 6685 | 6966 | 7227 | 7548 | 7862 | 8191 | 8512 | 8834 | 114 | 29 | 9448 |
| 161 | 30 | 6 3222 | 4242 | 4563 | 4883 | 5264 | 5525 | 5848 | 6166 | 6487 | 6808 | 7129 | 7460 | 7771 | 8092 | 8414 | 8735 | 2056 | 110 | 36 | 4 9227 |
| 166 | 31 | 4146 | 4467 | 4787 | 5108 | 5428 | 5749 | 6069 | 6320 | 6711 | 7032 | 7363 | 7673 | 7924 | 8315 | 8637 | 8258 | 9279 | 167 | 31 | 9066 |
| 171 | 32 | 4371 | 4821 | 5011 | 5332 | 5652 | 5973 | 6223 | 6614 | 6935 | 7255 | 7576 | 7827 | 8218 | 8539 | 8866 | 2181 | 9502 | 103 | 32 | 8784 |
| 177 | 33 | 4595 | 4915 | 5236 | 5556 | 5876 | 6127 | 6517 | 6838 | 7168 | 7479 | 7799 | 8126 | 8441 | 8762 | 9683 | 2403 | 9724 | 92 | 33 | 8563 |
| 182 | 34 | 4820 | 5146 | 5160 | 5780 | 6101 | 6421 | 6741 | 7061 | 7382 | 7702 | 8023 | 8343 | 8664 | 8285 | 2366 | 9626 | 9947 | 96 | 34 | 8341 |
| 187 | 35 | 6 (7) 5045 | 5365 | 5685 | 6005 | 6325 | 6645 | 6965 | 7285 | 7606 | 7926 | 8246 | 8567 | 8887 | 2208 | 9529 | 2849 | 0170 | 92 | 35 | 4 8126 |
| 193 | 36 | 5262 | 5589 | 3902 | 6229 | 6542 | 6869 | 7189 | 7509 | 7836 | 8150 | 8478 | 8725 | 2111 | 9431 | 9762 | 0072 | 0393 | 88 | 36 | 7828 |
| 198 | 37 | 5494 | 5814 | 6134 | 6454 | 8773 | 7693 | 7413 | 7733 | 8053 | 8374 | 8624 | 9614 | 2334 | 9655 | 9976 | 0296 | 0616 | 85 | 37 | 7677 |
| 263 | 38 | 5719 | 6039 | 6358 | 6678 | 6998 | 7318 | 7637 | 7957 | 0277 | 8597 | 8918 | 9238 | 9558 | 2878 | 6128 | 0519 | 0839 | 81 | 38 | 7455 |
| 209 | 39 | 5944 | 6264 | 6503 | 6903 | 7222 | 7542 | 7862 | 8181 | 8501 | 8821 | 9141 | 9461 | 9781 | 0101 | 0422 | 0742 | 1062 | 77 | 39 | 7233 |
| 214 | 40 | 6 (7) 6169 | 6488 | 6808 | 7127 | 7447 | 7766 | 8086 | 8406 | 8725 | 9046 | 9365 | 9685 | 0005 | 0325 | 0645 | 0265 | 1285 | 74 | 40 | 4 7612 |
| 212 | 41 | 6391 | 6713 | 7033 | 7352 | 7671 | 7991 | 8310 | 8630 | 8950 | 9262 | 9589 | 9909 | 0229 | 0549 | 0868 | 1188 | 1509 | 70 | 41 | 6796 |
| 225 | 42 | 6619 | 6938 | 7257 | 7577 | 7896 | 8215 | 8535 | 8854 | 9174 | 9493 | 2813 | 0133 | 6452 | 0772 | 1092 | 1412 | 1732 | 66 | 42 | 6568 |
| 230 | 43 | 6844 | 7163 | 7482 | 7881 | 8121 | 8440 | 8759 | 9072 | 2398 | 9717 | 6037 | 0356 | 0676 | 6996 | 1316 | 1635 | 1955 | 63 | 43 | 6316 |
| 235 | 44 | 7062 | 7388 | 7787 | 8626 | 8345 | 8665 | 8284 | 9303 | 9622 | 9942 | 0261 | 0580 | 0900 | 1219 | 1532 | 1859 | 2178 | 69 | 44 | 6124 |
| 241 | 45 | 6 (7) 7296 | 7613 | 7932 | 8251 | 8570 | 8889 | 9208 | 9527 | 9847 | 6166 | 6485 | 0804 | 1124 | 1443 | 1763 | 2082 | 2402 | 55 | 45 | 4 5202 |
| 246 | 46 | 7520 | 7839 | 8157 | 8476 | 8795 | 2114 | 9433 | 9752 | 0071 | 0320 | 0709 | 1028 | 1348 | 1667 | 1986 | 2306 | 2625 | 52 | 46 | 5680 |
| 252 | 47 | 7746 | 0064 | 8382 | 8701 | 9020 | 2339 | 9657 | 9976 | 5225 | 0614 | 0933 | 1253 | 1572 | 1891 | 2216 | 2522 | 2842 | 48 | 47 | 5458 |
| 257 | 48 | 7971 | 8289 | 8668 | 8926 | 9245 | 9563 | 9882 | 0261 | 6620 | 0839 | 1158 | 1477 | 1796 | 2115 | 2434 | 2753 | 3072 | 44 | 48 | 5236 |
| 262 | 49 | 8126 | 8514 | 8833 | 9161 | 9470 | 9788 | 0107 | 6426 | 0744 | 1063 | 1382 | 1761 | 2020 | 2339 | 2658 | 2977 | 3296 | 40 | 49 | 5013 |
| 268 | 50 | 6 (7) 8422 | 8740 | 9658 | 2376 | 2625 | 0013 | 0332 | 0650 | 0969 | 1288 | 1666 | 1925 | 2244 | 2663 | 2882 | 3261 | 3520 | 37 | 50 | 4 4721 |
| 273 | 51 | 8647 | 8965 | 2283 | 2802 | 2920 | 0238 | 0557 | 0875 | 1124 | 1512 | 1831 | 2142 | 2460 | 2787 | 3106 | 3425 | 3744 | 33 | 51 | 4562 |
| 278 | 52 | 8873 | 2121 | 9502 | 9827 | 0145 | 0463 | 0782 | 1100 | 1418 | 1737 | 2055 | 2374 | 2622 | 3011 | 3336 | 3649 | 3967 | 29 | 52 | 4346 |
| 284 | 53 | 9028 | 9416 | 2734 | 0052 | 0370 | 0688 | 1007 | 1325 | 1643 | 1961 | 2285 | 2528 | 2917 | 3235 | 3554 | 3873 | 4191 | 26 | 53 | 4124 |
| 289 | 54 | 9324 | 9642 | 9960 | 0278 | 0596 | 0914 | 1232 | 1550 | 1868 | 2188 | 2504 | 2823 | 3141 | 3459 | 3778 | 4897 | 4415 | 22 | 54 | 3901 |
| 294 | 65 | 6 (7) 9550 | 9868 | 0186 | 0563 | 0821 | 1139 | 1457 | 1775 | 2693 | 2411 | 2729 | 3647 | 3365 | 3684 | 4002 | 4321 | 4639 | 18 | 55 | 4 3678 |
| 350 | 56 | 9776 | 6693 | 6411 | 0729 | 1046 | 1364 | 1682 | 2606 | 2318 | 2636 | 2954 | 3272 | 3696 | 3968 | 4226 | 4645 | 4863 | 15 | 56 | 3456 |
| 305 | 57 | 7 0662 | 0319 | 6637 | 0954 | 1272 | 1589 | 1907 | 2225 | 2543 | 2886 | 3178 | 3426 | 3814 | 4132 | 4451 | 4769 | 5687 | 11 | 57 | 3233 |
| 310 | 58 | 0228 | 0545 | 0862 | 1180 | 1497 | 1815 | 2132 | 2450 | 2788 | 3685 | 3403 | 3721 | 4039 | 4357 | 4676 | 4993 | 5311 | 7 | 58 | 3511 |
| 316 | 59 | 0454 | 0771 | 1688 | 1455 | 1723 | 2040 | 2358 | 2675 | 2993 | 3316 | 3628 | 3946 | 4264 | 4581 | 4829 | 5217 | 5535 | 4 | 59 | 2788 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar | 50° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 | 2726 | 3051 | 3370 | 3700 | 4025 | 4350 | 4676 | 5000 | 5326 | 5651 | 5970 | 6302 | 6627 | 6952 | 7278 | 7604 | 7929 |
| 5 | 1 | | 2047 | 3271 | 3596 | 3921 | 4246 | 4570 | 4896 | 5221 | 5546 | 5071 | 6196 | 6521 | 6847 | 7172 | 7497 | 7823 | 8118 |
| 11 | 2 | | 3168 | 3422 | 3817 | 4142 | 4466 | 4791 | 5116 | 5441 | 5766 | 6091 | 6415 | 6741 | 7066 | 7391 | 7717 | 8042 | 8367 |
| 16 | 3 | | 3389 | 3713 | 4038 | 4362 | 4687 | 5012 | 5336 | 5661 | 5986 | 6311 | 6636 | 6961 | 7286 | 7611 | 7036 | 8261 | 8587 |
| 22 | 4 | | 3610 | 3934 | 4269 | 4583 | 4900 | 5232 | 5557 | 5882 | 6206 | 6531 | 6856 | 7181 | 7506 | 7831 | 8156 | 8481 | 8806 |
| 27 | 5 | 6 | 3831 | 4155 | 4480 | 4804 | 5128 | 5453 | 5777 | 6102 | 6427 | 6751 | 7076 | 7401 | 7725 | 8050 | 8375 | 8700 | 9025 |
| 32 | 6 | | 4052 | 4370 | 4701 | 5025 | 5349 | 6673 | 5998 | 6322 | 6647 | 6971 | 7296 | 7621 | 7945 | 8270 | 8596 | 8920 | 9245 |
| 38 | 7 | | 4273 | 4598 | 4922 | 6246 | 5570 | 5894 | 0210 | 6543 | 6867 | 7192 | 7516 | 7841 | 8165 | 8490 | 8815 | 9139 | 9464 |
| 43 | 8 | | 4495 | 4819 | 5143 | 5467 | 5791 | 6115 | 6439 | 6763 | 7088 | 7412 | 7736 | 8061 | 8385 | 8710 | 9031 | 9359 | 9684 |
| 48 | 9 | | 4716 | 5040 | 5364 | 5688 | 0012 | 6336 | 6660 | 6984 | 7308 | 7632 | 7957 | 8281 | 8605 | 8930 | 9254 | 9579 | 9903 |
| 54 | 18 | 6 (7) | 4938 | 5261 | 5585 | 5909 | 6233 | 6557 | 0880 | 7200 | 7629 | 7863 | 8177 | 8501 | 8825 | 9150 | 9474 | 9798 | 0123 |
| 59 | 11 | | 5139 | 5483 | 5806 | 6130 | 6454 | 6777 | 7101 | 7425 | 7742 | 8073 | 8397 | 8721 | 9046 | 9370 | 9694 | 0018 | 0343 |
| 61 | 12 | | 5381 | 5704 | 6028 | 6351 | 6675 | 6998 | 7322 | 7646 | 7970 | 8294 | 8618 | 8912 | 9266 | 9590 | 9914 | 0238 | 0562 |
| 70 | 13 | | 5602 | 5926 | 6249 | 6672 | 6896 | 7219 | 7543 | 7867 | 8191 | 8514 | 8838 | 9162 | 9486 | 9810 | 0134 | 0458 | 0782 |
| 76 | 14 | | 5824 | 6147 | 6470 | 6794 | 7117 | 7441 | 7764 | 8088 | 8411 | 0736 | 9069 | 9382 | 9706 | 0030 | 0354 | 0678 | 1002 |
| 81 | 15 | 6 (7) | 6046 | 6362 | 6692 | 7015 | 7338 | 7662 | 7985 | 8309 | 8632 | 8956 | 9279 | 9603 | 9927 | 0250 | 0574 | 0898 | 1222 |
| 86 | 16 | | 6207 | 6590 | 6913 | 7237 | 7560 | 7083 | 8206 | 8530 | 8853 | 9176 | 9500 | 9823 | 0147 | 0471 | 0794 | 1118 | 1442 |
| 21 | 17 | | 6489 | 6812 | 7135 | 7458 | 7781 | 8104 | 8427 | 8751 | 9074 | 9397 | 9720 | 0044 | 0367 | 0691 | 1015 | 1338 | 1662 |
| 97 | 10 | | 6711 | 7034 | 7357 | 7600 | 8003 | 8326 | 8648 | 8972 | 9295 | 9618 | 9941 | 0264 | 0588 | 0911 | 1235 | 1658 | 1882 |
| 102 | 19 | | 6933 | 7256 | 7670 | 7901 | 8224 | 8547 | 8870 | 9193 | 9516 | 9839 | 0162 | 0485 | 0808 | 1132 | 1455 | 1778 | 2102 |
| 107 | 20 | 6 (7) | 7155 | 7478 | 7800 | 8123 | 8445 | 8768 | 9091 | 9411 | 9737 | 0060 | 0383 | 0706 | 1029 | 1352 | 1675 | 1999 | 2322 |
| 113 | 21 | | 7377 | 7692 | 8822 | 8344 | 8667 | 8990 | 9312 | 9635 | 9958 | 0281 | 0604 | 0927 | 1250 | 1573 | 1896 | 2219 | 2542 |
| 118 | 22 | | 7699 | 7921 | 8244 | 8666 | 8882 | 2211 | 9534 | 9856 | 0179 | 0502 | 0825 | 1148 | 1470 | 1793 | 2116 | 2439 | 2763 |
| 123 | 23 | | 7821 | 8143 | 8466 | 8788 | 9110 | 2433 | 9765 | 0078 | 0480 | 0723 | 1046 | 1368 | 1691 | 2014 | 2337 | 2660 | 2983 |
| 129 | 24 | | 8043 | 8305 | 8688 | 9010 | 9332 | 9654 | 9977 | 0299 | 0622 | 0944 | 1267 | 1589 | 1912 | 2235 | 2558 | 2880 | 3203 |
| 134 | 25 | 6 (7) | 8266 | 8588 | 8910 | 0232 | 9551 | 9876 | 0198 | 0521 | 0843 | 1165 | 1488 | 1810 | 2133 | 2455 | 2778 | 3101 | 3424 |
| 140 | 26 | | 8488 | 8810 | 9132 | 9464 | 9776 | 0098 | 0420 | 0742 | 1064 | 1387 | 1709 | 2031 | 2354 | 2676 | 2999 | 3322 | 3644 |
| 145 | 27 | | 8710 | 9032 | 9354 | 9676 | 9998 | 0320 | 0642 | 0964 | 1286 | 1608 | 1930 | 2252 | 2575 | 2897 | 3228 | 3542 | 3865 |
| 150 | 28 | | 8933 | 9254 | 9576 | 9898 | 0220 | 0541 | 0863 | 1185 | 1507 | 1829 | 2151 | 2474 | 2796 | 3118 | 3441 | 3763 | 4085 |
| 156 | 29 | | 2155 | 9477 | 9798 | 0120 | 0442 | 0763 | 1085 | 1407 | 1729 | 2051 | 2373 | 2695 | 3017 | 3339 | 3661 | 3984 | 4306 |
| 161 | 30 | 6 (7) | 2378 | 9099 | 0021 | 0342 | 0664 | 0985 | 1307 | 1629 | 1950 | 2272 | 2594 | 2916 | 3238 | 3560 | 3882 | 4204 | 4527 |
| 166 | 31 | | 2600 | 9921 | 0243 | 0561 | 0886 | 1207 | 1529 | 1850 | 2172 | 2494 | 2816 | 3137 | 3459 | 3781 | 4103 | 4425 | 4747 |
| 172 | 32 | | 2823 | 0144 | 0465 | 0786 | 1108 | 1429 | 1751 | 2072 | 2394 | 2715 | 3037 | 3359 | 3681 | 4002 | 4321 | 4646 | 4968 |
| 177 | 33 | 7 | 0045 | 0366 | 0688 | 1009 | 1330 | 1651 | 1973 | 2294 | 2616 | 2937 | 3259 | 3580 | 3902 | 4224 | 4545 | 4867 | 5189 |
| 183 | 34 | | 0268 | 0589 | 0910 | 1231 | 1552 | 1873 | 2195 | 2516 | 2837 | 3159 | 3480 | 3802 | 4123 | 4445 | 4766 | 5088 | 5410 |
| 188 | 35 | 7 | 0491 | 0812 | 1133 | 1454 | 1775 | 2096 | 2417 | 2738 | 3059 | 3380 | 3702 | 4023 | 4345 | 4666 | 4988 | 5309 | 5631 |
| 193 | 36 | | 8714 | 1034 | 1355 | 1676 | 1997 | 2318 | 2639 | 2960 | 3281 | 3602 | 3923 | 4245 | 4566 | 4887 | 5209 | 5530 | 5852 |
| 199 | 37 | | 0937 | 1257 | 1578 | 1899 | 2219 | 2510 | 2861 | 3182 | 3503 | 3824 | 4145 | 4466 | 4788 | 5109 | 5430 | 5751 | 6073 |
| 204 | 38 | | 1160 | 1480 | 1801 | 2121 | 2442 | 2763 | 3083 | 3404 | 3725 | 4046 | 4367 | 4688 | 5009 | 5330 | 5651 | 5973 | 6294 |
| 209 | 39 | | 1383 | 1703 | 2023 | 2344 | 2664 | 2985 | 3306 | 3626 | 3947 | 4268 | 4589 | 4910 | 5231 | 5552 | 5873 | 6194 | 6515 |
| 215 | 40 | 7 | 1606 | 1926 | 2246 | 2567 | 2887 | 3207 | 3628 | 3849 | 4169 | 4490 | 4811 | 5132 | 5452 | 5773 | 6094 | 6415 | 6736 |
| 220 | 41 | | 1829 | 2149 | 2469 | 2789 | 3110 | 3430 | 3750 | 1071 | 4391 | 4712 | 5033 | 5353 | 5674 | 5995 | 6316 | 6637 | 6958 |
| 225 | 42 | | 2052 | 2372 | 2692 | 3012 | 3332 | 3663 | 3973 | 4293 | 4614 | 4934 | 5255 | 5575 | 5896 | 6217 | 6537 | 6858 | 7179 |
| 231 | 43 | | 2275 | 2595 | 2915 | 3235 | 3556 | 3875 | 4195 | 4516 | 4836 | 5156 | 5477 | 5797 | 6118 | 6438 | 6759 | 7080 | 7400 |
| 236 | 44 | | 2498 | 2818 | 3138 | 3458 | 3778 | 4090 | 4418 | 4738 | 5058 | 5379 | 5699 | 6012 | 6340 | 6660 | 6981 | 7301 | 7622 |
| 242 | 45 | 7 | 2722 | 3041 | 3361 | 3681 | 4001 | 4321 | 4641 | 4961 | 5281 | 5601 | 5921 | 6241 | 6562 | 6882 | 7202 | 7523 | 7843 |
| 247 | 46 | | 2945 | 3265 | 3684 | 3904 | 4224 | 4543 | 4863 | 5183 | 5503 | 5823 | 6143 | 6463 | 6784 | 7104 | 7424 | 7744 | 8065 |
| 252 | 47 | | 3168 | 3488 | 3807 | 4127 | 4447 | 4766 | 5086 | 5406 | 5726 | 6046 | 6366 | 6686 | 7006 | 7326 | 7645 | 7966 | 8286 |
| 258 | 48 | | 3392 | 3711 | 4031 | 4360 | 4670 | 4989 | 5302 | 5629 | 5918 | 6268 | 6588 | 6908 | 7228 | 7548 | 7868 | 8188 | 8508 |
| 263 | 49 | | 3615 | 3935 | 4254 | 4573 | 4893 | 5212 | 5532 | 5851 | 6171 | 6490 | 6810 | 7130 | 7450 | 7770 | 8098 | 8410 | 8730 |
| 268 | 50 | 7 | 3839 | 4158 | 4477 | 4796 | 5116 | 5435 | 5755 | 6074 | 6393 | 6713 | 7033 | 7352 | 7672 | 7992 | 8312 | 8632 | 8961 |
| 274 | 51 | | 4062 | 4381 | 4701 | 5020 | 5339 | 5658 | 5977 | 6297 | 6516 | 6936 | 7255 | 7575 | 7894 | 8214 | 8534 | 8854 | 9173 |
| 279 | 52 | | 4286 | 4605 | 4924 | 5243 | 5562 | 5881 | 6200 | 6520 | 6839 | 7158 | 7478 | 7797 | 8117 | 8436 | 8756 | 9076 | 9305 |
| 284 | 53 | | 4510 | 4829 | 5148 | 5466 | 5785 | 6104 | 6423 | 6743 | 7062 | 7381 | 7700 | 8020 | 8339 | 8658 | 8978 | 9298 | 9617 |
| 290 | 54 | | 4734 | 5052 | 5371 | 5690 | 6009 | 6328 | 6647 | 6966 | 7285 | 7004 | 7923 | 8242 | 8561 | 8881 | 9200 | 9520 | 9839 |
| 295 | 55 | 7 (8) | 4958 | 5276 | 5595 | 5913 | 6232 | 6551 | 0870 | 7189 | 7508 | 7827 | 8140 | 8465 | 8784 | 9103 | 9422 | 9742 | 0061 |
| 301 | 56 | | 0181 | 5500 | 6818 | 6137 | 6456 | 6774 | 7093 | 7412 | 7731 | 8049 | 8368 | 8687 | 9006 | 9325 | 9645 | 9964 | 0283 |
| 306 | 57 | | 0405 | 5724 | 6042 | 6361 | 6679 | 6998 | 7316 | 7635 | 7954 | 8272 | 8591 | 8910 | 0229 | 0548 | 0867 | 0186 | 0505 |
| 311 | 58 | | 6629 | 5048 | 6266 | 6584 | 6903 | 7221 | 7530 | 7858 | 8177 | 8496 | 8814 | 9133 | 9452 | 9770 | 0082 | 0408 | 0727 |
| 317 | 59 | | 0853 | 6171 | 6490 | 6808 | 7126 | 7444 | 7763 | 0081 | 8400 | 8718 | 9037 | 9365 | 9674 | 9093 | 0312 | 0631 | 0250 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 50° | Núm. |
|---|---|---|
| 0 | 0′ | 5 7212 |
| 4 | 1 | 7435 |
| 7 | 2 | 7658 |
| 11 | 3 | 7881 |
| 16 | 4 | 8104 |
| 19 | 5 | 0 8327 |
| 22 | 6 | 8550 |
| 26 | 7 | 8774 |
| 30 | 8 | 8997 |
| 34 | 9 | 9220 |
| 37 | 10 | 5 9443 |
| 41 | 11 | 9667 |
| 45 | 12 | 989 |
| 49 | 13 | 6 0114 |
| 52 | 14 | 0337 |
| 56 | 15 | 6 0561 |
| 60 | 16 | 078 |
| 64 | 17 | 100 |
| 67 | 18 | 123 |
| 71 | 19 | 145 |
| 76 | 20 | 6 168 |
| 79 | 21 | 190 |
| 82 | 22 | 212 |
| 86 | 23 | 235 |
| 90 | 24 | 267 |
| 94 | 25 | 6 280 |
| 97 | 26 | 302 |
| 101 | 27 | 324 |
| 105 | 28 | 347 |
| 109 | 29 | 369 |
| 112 | 30 | 6 392 |
| 116 | 31 | 414 |
| 120 | 32 | 437 |
| 123 | 33 | 459 |
| 127 | 34 | 482 |
| 131 | 35 | 6 504 |
| 136 | 36 | 526 |
| 138 | 37 | 640 |
| 142 | 38 | 571 |
| 146 | 32 | 594 |
| 150 | 40 | 6 616 |
| 163 | 41 | 639 |
| 157 | 42 | 661 |
| 161 | 43 | 684 |
| 165 | 44 | 706 |
| 160 | 45 | 6 729 |
| 172 | 40 | 752 |
| 176 | 47 | 774 |
| 180 | 48 | 797 |
| 183 | 49 | 819 |
| 187 | 50 | 6 842 |
| 101 | 51 | 864 |
| 195 | 62 | 887 |
| 198 | 53 | 909 |
| 202 | 54 | 932 |
| 206 | 55 | 6 255 |
| 210 | 56 | 977 |
| 213 | 57 | 7 001 |
| 217 | 58 | 023 |
| 221 | 09 | 045 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 51° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 19' | 13' | 14' | 16' | 16' | Partes para segundos. | 51° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 | 0686 | 0997 | 1314 | 1631 | 1948 | 2266 | 2583 | 9900 | 3218 | 3535 | 3853 | 4171 | 4488 | 4806 | 5124 | 5442 | 5759 | 224 | 0' | 4 2565 |
| 5 | 1 | | 6906 | 1223 | 1540 | 1857 | 2174 | 2491 | 2808 | 3126 | 3443 | 3760 | 4878 | 4395 | 4713 | 5831 | 5348 | 5666 | 5981 | 221 | 1 | 2342 |
| 11 | 2 | | 1132 | 1449 | 1766 | 2083 | 2400 | 2717 | 3034 | 3351 | 3668 | 3986 | 4303 | 4620 | 4938 | 5255 | 5673 | 5890 | 6208 | 217 | 2 | 2119 |
| 16 | 3 | | 1358 | 1675 | 1992 | 2308 | 2625 | 2942 | 3259 | 3576 | 3894 | 4211 | 4528 | 4845 | 5163 | 5480 | 5797 | 6115 | 6432 | 213 | 3 | 1896 |
| 21 | 4 | | 1584 | 1901 | 2218 | 2534 | 2851 | 3168 | 3485 | 3809 | 4119 | 4436 | 4753 | 5070 | 5387 | 5705 | 6022 | 6339 | 6657 | 210 | 4 | 1673 |
| 26 | 5 | 7 | 1811 | 2127 | 2444 | 2760 | 3077 | 3394 | 3711 | 4027 | 4344 | 4661 | 4978 | 5295 | 5612 | 5930 | 6247 | 6564 | 6881 | 206 | 5 | 4 1450 |
| 31 | 6 | | 2837 | 2353 | 2670 | 2986 | 3383 | 3620 | 3936 | 4253 | 4570 | 1887 | 5203 | 5520 | 5837 | 6154 | 6472 | 6789 | 7186 | 202 | 6 | 1226 |
| 37 | 7 | | 2263 | 2586 | 2896 | 3212 | 3529 | 3845 | 4162 | 4479 | 4795 | 5112 | 5429 | 5745 | 6062 | 6379 | 6696 | 7013 | 7330 | 198 | 7 | 1003 |
| 42 | 8 | | 2490 | 2806 | 3122 | 3439 | 3755 | 4071 | 4388 | 4784 | 5021 | 5337 | 5654 | 5971 | 6287 | 6604 | 6991 | 7238 | 7555 | 195 | 8 | 0780 |
| 47 | 9 | | 2716 | 3032 | 3349 | 3665 | 3981 | 4297 | 4613 | 4930 | 5246 | 5563 | 5879 | 6196 | 6513 | 6829 | 7146 | 7463 | 7780 | 191 | 9 | 0557 |
| 62 | 10 | 7 | 2943 | 3259 | 3575 | 3891 | 4207 | 4523 | 1839 | 5156 | 5472 | 5788 | 6105 | 6421 | 6738 | 7054 | 7371 | 7688 | 8005 | 187 | 10 | 4 8333 |
| 58 | 11 | | 3176 | 3485 | 3801 | 4117 | 4433 | 4749 | 5065 | 5381 | 5698 | 6014 | 6330 | 6647 | 6963 | 7280 | 7596 | 7913 | 8229 | 183 | 11 | 0110 |
| 63 | 12 | | 3396 | 3712 | 4028 | 4343 | 4659 | 4975 | 5291 | 5667 | 5923 | 6240 | 6556 | 6872 | 7188 | 7505 | 7891 | 8138 | 8451 | 180 | 12 | 3 9886 |
| 68 | 13 | | 3623 | 3938 | 4254 | 4570 | 4886 | 5201 | 5517 | 5833 | 6149 | 6465 | 6781 | 7098 | 7414 | 7730 | 8046 | 8363 | 8679 | 176 | 13 | 9663 |
| 73 | 14 | | 3856 | 4165 | 4481 | 4796 | 5112 | 5428 | 5743 | 6059 | 6375 | 6691 | 7007 | 7323 | 7639 | 7955 | 8272 | 8588 | 8984 | 172 | 14 | 9439 |
| 79 | 15 | 7 | 4076 | 4392 | 4707 | 6023 | 5338 | 5654 | 5970 | 6285 | 6601 | 6917 | 7233 | 7549 | 7865 | 8181 | 8497 | 8813 | 9129 | 168 | 15 | 3 9215 |
| 84 | 16 | | 4303 | 4619 | 4934 | 6249 | 5566 | 5880 | 6196 | 6511 | 6827 | 7143 | 7458 | 7774 | 8090 | 8406 | 8722 | 9038 | 9354 | 165 | 16 | 8992 |
| 89 | 17 | | 4530 | 4845 | 5161 | 5476 | 5791 | 6107 | 6422 | 6738 | 7063 | 7369 | 7684 | 8000 | 8316 | 8631 | 8947 | 9263 | 9579 | 161 | 17 | 8768 |
| 94 | 18 | | 4757 | 5072 | 6387 | 5703 | 6018 | 6333 | 6648 | 6964 | 7279 | 7595 | 7910 | 8226 | 8541 | 8857 | 9173 | 9488 | 9804 | 157 | 18 | 8544 |
| 99 | 19 | 7 (8) | 4984 | 5299 | 5614 | 5929 | 6244 | 6560 | 6875 | 7190 | 7505 | 7821 | 8136 | 8451 | 8767 | 9083 | 9398 | 9714 | 0030 | 163 | 19 | 8320 |
| 105 | 20 | 7 (8) | 5211 | 5526 | 5841 | 6156 | 6471 | 6786 | 7101 | 7416 | 7731 | 8047 | 8362 | 8677 | 8993 | 9368 | 9624 | 9939 | 0255 | 150 | 20 | 3 8096 |
| 110 | 21 | | 5439 | 5753 | 6068 | 6383 | 6698 | 7613 | 7328 | 7643 | 7958 | 8273 | 8588 | 8903 | 9218 | 9534 | 9849 | 0165 | 0480 | 146 | 21 | 7872 |
| 115 | 22 | | 5666 | 6980 | 6295 | 6618 | 6924 | 7239 | 7554 | 7869 | 8184 | 8499 | 8814 | 9129 | 9444 | 9760 | 0075 | 0390 | 0765 | 142 | 22 | 7648 |
| 120 | 23 | | 5893 | 6208 | 6522 | 6837 | 7151 | 7466 | 7781 | 8095 | 8410 | 8725 | 9040 | 9355 | 9670 | 9985 | 0300 | 0616 | 0931 | 138 | 23 | 7424 |
| 126 | 24 | | 6120 | 6435 | 6749 | 7064 | 7378 | 7693 | 8007 | 8322 | 8637 | 8951 | 9266 | 9681 | 9896 | 6211 | 0596 | 0841 | 1156 | 135 | 24 | 7200 |
| 131 | 25 | 7 (8) | 6348 | 6662 | 6976 | 7291 | 7605 | 7919 | 8234 | 8549 | 8863 | 9178 | 2493 | 9807 | 0122 | 0437 | 0752 | 1067 | 1382 | 131 | 25 | 3 6976 |
| 136 | 26 | | 6575 | 6889 | 7203 | 7518 | 7832 | 8146 | 8461 | 8775 | 9090 | 9404 | 9712 | 0833 | 6348 | 0663 | 0978 | 1293 | 1608 | 197 | 26 | 6751 |
| 141 | 27 | | 6803 | 7117 | 7431 | 7745 | 8059 | 8373 | 8687 | 9002 | 9316 | 9631 | 9945 | 0260 | 0574 | 0889 | 1204 | 1618 | 1833 | 123 | 27 | 6527 |
| 147 | 28 | | 7030 | 7344 | 7658 | 7972 | 8286 | 8600 | 8914 | 9229 | 9513 | 9857 | 6171 | 6486 | 0800 | 1115 | 1430 | 1744 | 2059 | 120 | 28 | 6303 |
| 152 | 29 | | 7258 | 7571 | 7885 | 8199 | 8513 | 8827 | 9141 | 9455 | 9769 | 0084 | 0398 | 0712 | 1027 | 1341 | 1655 | 1970 | 2286 | 116 | 29 | 6078 |
| 157 | 36 | 7 (8) | 7485 | 7799 | 8113 | 8426 | 8746 | 9054 | 9368 | 9682 | 9996 | 0310 | 0624 | 0939 | 1253 | 1567 | 1881 | 2196 | 2610 | 112 | 36 | 3 5851 |
| 162 | 31 | | 7713 | 8027 | 8340 | 8654 | 8968 | 9281 | 9595 | 9909 | 0223 | 0537 | 6851 | 1165 | 1479 | 1793 | 2108 | 2422 | 2736 | 109 | 31 | 5629 |
| 168 | 32 | | 7941 | 8254 | 8568 | 8881 | 9195 | 9508 | 9822 | 0136 | 0450 | 6764 | 1078 | 1391 | 1785 | 2020 | 2334 | 2648 | 2962 | 105 | 39 | 5465 |
| 173 | 33 | | 8168 | 8482 | 8795 | 9109 | 9422 | 9736 | 0049 | 0363 | 0677 | 0990 | 1304 | 1618 | 1932 | 2246 | 2568 | 2874 | 3188 | 101 | 33 | 5180 |
| 178 | 34 | | 8396 | 8710 | 9023 | 9336 | 9649 | 9963 | 0276 | 0590 | 0904 | 1217 | 1531 | 1845 | 2158 | 2472 | 2786 | 3100 | 3414 | 97 | 34 | 4955 |
| 183 | 35 | 7 (8) | 8624 | 8937 | 9250 | 9564 | 9877 | 6190 | 0504 | 0817 | 1130 | 1444 | 1758 | 2071 | 2385 | 2699 | 3012 | 3326 | 3640 | 94 | 35 | 3 4731 |
| 188 | 36 | | 8852 | 9165 | 9478 | 9791 | 8104 | 0418 | 0731 | 1044 | 1357 | 1671 | 1984 | 2298 | 2611 | 2925 | 3239 | 3652 | 3866 | 96 | 36 | 4506 |
| 194 | 37 | | 9080 | 9393 | 9706 | 0019 | 0332 | 0645 | 0958 | 1271 | 1585 | 1898 | 2211 | 2525 | 2838 | 3151 | 3465 | 3779 | 4092 | 86 | 37 | 4281 |
| 199 | 38 | | 9308 | 9621 | 9934 | 0247 | 0560 | 0872 | 1185 | 1499 | 1812 | 2125 | 2438 | 2751 | 3865 | 3378 | 3691 | 4005 | 4319 | 82 | 38 | 4056 |
| 204 | 39 | | 9536 | 9849 | 0162 | 8474 | 0787 | 1100 | 1413 | 1726 | 2039 | 2352 | 2665 | 2978 | 3291 | 3605 | 3918 | 4231 | 4545 | 79 | 39 | 3831 |
| 209 | 40 | 7 (8) | 9764 | 0077 | 0390 | 0702 | 1015 | 1328 | 1640 | 1953 | 2266 | 2579 | 2892 | 3205 | 3518 | 3831 | 4145 | 4158 | 4771 | 75 | 40 | 3 3606 |
| 215 | 41 | | 9993 | 0305 | 0618 | 0930 | 1243 | 1555 | 1868 | 2181 | 2493 | 2806 | 3119 | 3432 | 3745 | 4058 | 4371 | 4684 | 4997 | 71 | 41 | 3381 |
| 220 | 42 | 8 | 0221 | 0533 | 0816 | 1158 | 1470 | 1763 | 2095 | 2408 | 2721 | 3033 | 3346 | 3659 | 3972 | 4285 | 4598 | 4911 | 5224 | 67 | 42 | 3156 |
| 225 | 43 | | 0449 | 0761 | 1074 | 1386 | 1698 | 2011 | 2323 | 2636 | 2948 | 3261 | 3573 | 3886 | 4199 | 4512 | 4824 | 5137 | 5450 | 64 | 43 | 2931 |
| 230 | 44 | | 0678 | 6990 | 1302 | 1614 | 1926 | 2238 | 2551 | 2863 | 3176 | 3488 | 3801 | 4113 | 4426 | 4738 | 5051 | 5364 | 5677 | 60 | 44 | 2705 |
| 236 | 45 | 8 | 0906 | 1218 | 1530 | 1842 | 2154 | 2466 | 2779 | 3091 | 3403 | 3715 | 4028 | 4340 | 4653 | 4965 | 5278 | 5591 | 5903 | 66 | 45 | 3 2480 |
| 241 | 46 | | 1134 | 1446 | 1758 | 2070 | 2382 | 2694 | 3006 | 3318 | 3631 | 3943 | 4255 | 4567 | 4880 | 5192 | 5505 | 5817 | 6130 | 52 | 46 | 2255 |
| 246 | 47 | | 1363 | 1675 | 1986 | 2298 | 2616 | 2922 | 3234 | 3546 | 3868 | 4170 | 4482 | 4795 | 5107 | 5419 | 5732 | 6044 | 6357 | 49 | 47 | 2029 |
| 251 | 48 | | 1592 | 1903 | 2215 | 2527 | 2838 | 3150 | 3462 | 3774 | 4086 | 4398 | 1710 | 5022 | 5334 | 5646 | 5959 | 6271 | 6583 | 45 | 48 | 1864 |
| 256 | 49 | | 1820 | 2132 | 2443 | 2755 | 3066 | 3378 | 3696 | 4002 | 4313 | 4625 | 4937 | 5249 | 5561 | 5874 | 6186 | 6498 | 6810 | 41 | 49 | 1678 |
| 262 | 50 | 8 | 2049 | 2360 | 2672 | 2983 | 3295 | 3606 | 3918 | 4230 | 4641 | 4853 | 5165 | 5477 | 5789 | 6101 | 6413 | 6726 | 7037 | 37 | 50 | 3 1353 |
| 267 | 51 | | 2278 | 9589 | 2900 | 3212 | 3523 | 3834 | 4146 | 4457 | 4769 | 5081 | 5392 | 5704 | 6016 | 6328 | 6640 | 6952 | 7264 | 31 | 51 | 1127 |
| 272 | 52 | | 2506 | 2818 | 3199 | 3440 | 3751 | 4063 | 4374 | 4685 | 4997 | 5309 | 5690 | 5932 | 6244 | 6555 | 6867 | 7179 | 7491 | 30 | 52 | 0902 |
| 277 | 53 | | 2735 | 3046 | 3357 | 3668 | 3980 | 4291 | 4602 | 4913 | 5226 | 5536 | 5848 | 6159 | 6471 | 6783 | 7094 | 7406 | 7718 | 26 | 53 | 0676 |
| 283 | 54 | | 2964 | 3275 | 3586 | 3897 | 4208 | 4519 | 4830 | 5142 | 5453 | 5764 | 6676 | 6387 | 6698 | 7610 | 7322 | 7633 | 7945 | 22 | 54 | 6450 |
| 288 | 55 | 8 | 3193 | 3504 | 3815 | 4126 | 4437 | 4748 | 5059 | 5370 | 5681 | 5992 | 6303 | 6615 | 6926 | 7237 | 7549 | 7860 | 8172 | 19 | 55 | 3 0224 |
| 293 | 56 | | 3422 | 3733 | 4043 | 4354 | 4665 | 4976 | 5287 | 5598 | 5909 | 6220 | 6531 | 6842 | 7154 | 7465 | 7776 | 8088 | 8399 | 15 | 66 | 2 9998 |
| 228 | 57 | | 3651 | 3962 | 4272 | 4583 | 4894 | 5204 | 5515 | 5826 | 6137 | 6448 | 6769 | 7070 | 7381 | 7692 | 8664 | 8315 | 8626 | 11 | 57 | 9772 |
| 304 | 58 | | 3880 | 4191 | 4601 | 4812 | 5122 | 5433 | 6744 | 6054 | 6365 | 6676 | 6987 | 7298 | 7609 | 7928 | 8231 | 8542 | 8854 | 7 | 68 | 9646 |
| 369 | 59 | | 4109 | 4420 | 4736 | 6040 | 5351 | 5661 | 5972 | 6283 | 6593 | 6904 | 7215 | 7526 | 7837 | 8148 | 8459 | 8770 | 9081 | 4 | 69 | 9320 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 51° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 51° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 7 (8) 6077 | 6395 | 6713 | 7032 | 7350 | 7668 | 7966 | 8305 | 8623 | 8941 | 9260 | 9578 | 9897 | 0216 | 0534 | 0853 | 1172 | 0 | 0′ | 7 0680 |
| 5 | 1 | 6302 | 6619 | 6937 | 7255 | 7574 | 7892 | 8210 | 8520 | 8846 | 9164 | 9483 | 9801 | 0120 | 0438 | 0757 | 1075 | 1394 | 4 | 1 | 0906 |
| 11 | 2 | 6526 | 6844 | 7161 | 7479 | 7797 | 8115 | 8433 | 8751 | 2069 | 9388 | 9706 | 0024 | 0343 | 0661 | 0979 | 1298 | 1617 | 8 | 2 | 1132 |
| 16 | 3 | 6760 | 7068 | 7385 | 7703 | 8021 | 8339 | 8657 | 8275 | 2223 | 9611 | 9929 | 0247 | 0566 | 0884 | 1202 | 1520 | 1839 | 11 | 3 | 1358 |
| 21 | 4 | 6974 | 7292 | 7609 | 7927 | 8245 | 8563 | 8880 | 9198 | 9516 | 9834 | 0152 | 0470 | 0788 | 1107 | 1425 | 1743 | 2061 | 15 | 4 | 1584 |
| 26 | 5 | 7 (8) 7199 | 7516 | 7834 | 8151 | 8469 | 8786 | 9104 | 9429 | 9740 | 0058 | 0375 | 0693 | 1011 | 1329 | 1648 | 1966 | 2284 | 19 | 5 | 7 1811 |
| 32 | 6 | 7423 | 7740 | 8058 | 8375 | 8693 | 9010 | 9328 | 2645 | 9963 | 0281 | 0599 | 0917 | 1234 | 1552 | 1870 | 2188 | 2506 | 23 | 6 | 2037 |
| 37 | 7 | 7648 | 7965 | 8282 | 8599 | 0917 | 9234 | 2552 | 9869 | 0187 | 0504 | 0822 | 1140 | 1458 | 1775 | 2093 | 2411 | 2722 | 27 | 7 | 2263 |
| 42 | 8 | 7072 | 8189 | 8506 | 8824 | 9141 | 2458 | 9775 | 0093 | 0410 | 0728 | 1045 | 1363 | 1681 | 1998 | 2316 | 2634 | 2252 | 30 | 8 | 2490 |
| 47 | 9 | 8097 | 8414 | 8731 | 9048 | 9365 | 9682 | 9999 | 0317 | 0634 | 0951 | 1269 | 1586 | 1904 | 2291 | 2539 | 2857 | 3175 | 34 | 9 | 2716 |
| 63 | 10 | 7 (8) 8321 | 8638 | 8955 | 2272 | 9582 | 9906 | 0923 | 0540 | 0858 | 1175 | 1492 | 1810 | 2127 | 2445 | 2762 | 3080 | 3397 | 38 | 10 | 7 2243 |
| 68 | 11 | 0546 | 8863 | 2180 | 2496 | 9813 | 0130 | 0447 | 0764 | 1081 | 1392 | 1716 | 2033 | 2350 | 2668 | 2985 | 3303 | 3620 | 49 | 11 | 3170 |
| 63 | 12 | 8771 | 9087 | 9404 | 9721 | 0038 | 0354 | 0671 | 0988 | 1365 | 1622 | 1939 | 2256 | 2574 | 2891 | 3208 | 3526 | 3843 | 45 | 12 | 3396 |
| 68 | 13 | 8995 | 9312 | 9629 | 9945 | 0262 | 0579 | 0895 | 1212 | 1529 | 1846 | 2163 | 2480 | 2797 | 3114 | 3431 | 3749 | 4066 | 49 | 13 | 3623 |
| 74 | 14 | 9220 | 9537 | 2853 | 0170 | 0486 | 0803 | 1120 | 1436 | 1763 | 2070 | 2387 | 2704 | 3021 | 3338 | 3655 | 3972 | 4289 | 53 | 14 | 3850 |
| 79 | 15 | 7 (8) 9445 | 9762 | 0078 | 0394 | 0711 | 1027 | 1344 | 1660 | 1977 | 2294 | 2610 | 2927 | 3244 | 3561 | 3878 | 4195 | 4512 | 57 | 15 | 7 4077 |
| 84 | 16 | 9670 | 9986 | 0303 | 0619 | 0935 | 1252 | 1568 | 1884 | 2201 | 2518 | 2834 | 3151 | 3468 | 3784 | 4101 | 4418 | 4735 | 61 | 16 | 4303 |
| 89 | 17 | 9095 | 0211 | 0527 | 0844 | 1160 | 1476 | 1722 | 2109 | 2425 | 2742 | 3058 | 3375 | 3691 | 4008 | 1325 | 4641 | 4958 | 64 | 17 | 4530 |
| 95 | 18 | 8 0120 | 0436 | 0762 | 1068 | 1384 | 1700 | 2017 | 2333 | 2649 | 2266 | 3282 | 3528 | 3915 | 4231 | 4548 | 4865 | 5182 | 60 | 18 | 4757 |
| 100 | 19 | 8345 | 0661 | 0977 | 1293 | 1609 | 1925 | 2241 | 2557 | 2873 | 3190 | 3506 | 3822 | 4139 | 4455 | 4772 | 5088 | 5405 | 72 | 19 | 4981 |
| 105 | 20 | 8 0570 | 0886 | 1209 | 1518 | 1834 | 2150 | 9466 | 2781 | 3098 | 3414 | 3730 | 4046 | 4363 | 4679 | 4995 | 5312 | 5628 | 76 | 20 | 7 5211 |
| 110 | 21 | 8796 | 1111 | 1427 | 1743 | 2058 | 2374 | 2690 | 3006 | 3322 | 3638 | 3954 | 4270 | 4587 | 4903 | 5219 | 5535 | 5851 | 00 | 21 | 5439 |
| 116 | 22 | 1021 | 1336 | 1652 | 1268 | 2283 | 2599 | 2915 | 3230 | 3546 | 3862 | 4178 | 4424 | 4810 | 5126 | 5442 | 5759 | 6075 | 83 | 22 | 5666 |
| 121 | 23 | 1246 | 1562 | 1877 | 2192 | 2508 | 2824 | 3139 | 3455 | 3771 | 4086 | 4402 | 4718 | 5034 | 5350 | 5666 | 5282 | 6298 | 87 | 23 | 5893 |
| 126 | 24 | 1472 | 1787 | 2102 | 2417 | 2733 | 3048 | 3364 | 3679 | 3995 | 4311 | 4627 | 4949 | 5258 | 5574 | 5890 | 6206 | 6522 | 91 | 24 | 6120 |
| 131 | 25 | 8 1697 | 2012 | 2327 | 2643 | 2958 | 3273 | 3589 | 3204 | 4220 | 4535 | 4851 | 5166 | 5482 | 5798 | 6114 | 6429 | 6745 | 95 | 25 | 7 6348 |
| 137 | 26 | 1922 | 2237 | 2553 | 2868 | 3183 | 3498 | 3813 | 4122 | 4444 | 4760 | 5075 | 5391 | 5706 | 6022 | 6337 | 6653 | 6969 | 99 | 26 | 6575 |
| 142 | 27 | 2148 | 2463 | 2778 | 3093 | 3408 | 3723 | 4038 | 4353 | 4662 | 4284 | 5299 | 5615 | 5230 | 6246 | 6561 | 6877 | 7123 | 102 | 27 | 6803 |
| 147 | 28 | 2374 | 2680 | 3003 | 3318 | 3633 | 3948 | 4263 | 4578 | 4893 | 5209 | 5524 | 5832 | 6154 | 6470 | 6785 | 7101 | 7416 | 106 | 28 | 7030 |
| 152 | 29 | 2599 | 2914 | 3299 | 3543 | 3858 | 4173 | 4488 | 4803 | 5118 | 5433 | 5748 | 6063 | 6379 | 6694 | 7009 | 7325 | 7640 | 110 | 29 | 7258 |
| 158 | 30 | 8 2825 | 3139 | 3454 | 3769 | 4083 | 4398 | 4713 | 5028 | 5343 | 5658 | 5973 | 6208 | 6603 | 6918 | 7233 | 7549 | 7864 | 114 | 30 | 7 7485 |
| 163 | 31 | 3051 | 3365 | 3679 | 3994 | 4302 | 4623 | 4938 | 5253 | 5568 | 5882 | 6197 | 6512 | 6827 | 7142 | 7458 | 7773 | 8088 | 110 | 31 | 7713 |
| 168 | 32 | 3276 | 3591 | 3905 | 4919 | 4534 | 4849 | 5163 | 5478 | 5792 | 6107 | 6422 | 6737 | 7052 | 7367 | 7682 | 7927 | 8312 | 121 | 32 | 7941 |
| 173 | 33 | 3502 | 3816 | 4131 | 4445 | 4759 | 5074 | 5388 | 5703 | 6017 | 6332 | 6647 | 6961 | 7276 | 7591 | 7906 | 8221 | 8536 | 125 | 33 | 8169 |
| 179 | 34 | 3728 | 4042 | 4356 | 4671 | 4985 | 5292 | 5613 | 5928 | 6242 | 6557 | 6871 | 7186 | 7501 | 7815 | 8130 | 8445 | 8760 | 129 | 34 | 8396 |
| 184 | 35 | 8 3964 | 4268 | 4582 | 4096 | 5210 | 5524 | 5839 | 6153 | 6467 | 6782 | 7026 | 7411 | 7725 | 8040 | 8355 | 8669 | 8984 | 133 | 35 | 7 8624 |
| 189 | 36 | 4100 | 4494 | 4808 | 5122 | 5436 | 5750 | 6064 | 6378 | 6692 | 7007 | 7321 | 7635 | 7950 | 8264 | 8572 | 8893 | 9208 | 136 | 36 | 8852 |
| 194 | 37 | 4406 | 4720 | 5034 | 5347 | 5661 | 5975 | 6289 | 6603 | 6917 | 7232 | 7546 | 7860 | 8175 | 8489 | 8803 | 9118 | 9432 | 140 | 37 | 9080 |
| 200 | 38 | 4632 | 4946 | 5259 | 5573 | 5887 | 6201 | 6515 | 6822 | 7143 | 7457 | 7771 | 8085 | 8329 | 8713 | 9028 | 9342 | 9657 | 144 | 38 | 9308 |
| 205 | 39 | 4058 | 5172 | 5485 | 5799 | 6113 | 6426 | 6740 | 7054 | 7368 | 7682 | 7296 | 8310 | 8624 | 8938 | 9252 | 9567 | 9881 | 148 | 39 | 9536 |
| 210 | 40 | 8 (9) 5004 | 5398 | 5711 | 6025 | 6338 | 6652 | 6966 | 7279 | 7523 | 7907 | 0221 | 8535 | 8819 | 9163 | 9477 | 9791 | 0105 | 152 | 40 | 7 9765 |
| 215 | 41 | 5311 | 5624 | 5937 | 6251 | 6564 | 6878 | 7191 | 7505 | 7819 | 8132 | 8446 | 8760 | 9074 | 9388 | 9702 | 0016 | 0330 | 155 | 41 | 9923 |
| 221 | 42 | 5537 | 5850 | 6163 | 6477 | 6720 | ,103 | 7417 | 7730 | 8044 | 8357 | 8671 | 8985 | 9299 | 9612 | 2926 | 0240 | 0554 | 159 | 42 | 8 0221 |
| 226 | 43 | 5763 | 6076 | 6389 | 6703 | 7016 | 7329 | 7643 | 7956 | 8269 | 8583 | 8896 | 9210 | 9524 | 9837 | 0151 | 0465 | 0779 | 163 | 43 | 0449 |
| 231 | 44 | 5990 | 6303 | 6616 | 6929 | 7242 | 7555 | 7868 | 8181 | 8495 | 8808 | 9129 | 9135 | 9749 | 0062 | 0376 | 0689 | 1003 | 167 | 44 | 0678 |
| 236 | 45 | 8 (9) 6916 | 6529 | 6842 | 7155 | 7468 | 7781 | 8094 | 8407 | 8720 | 9034 | 9347 | 9660 | 9974 | 0287 | 0601 | 0914 | 1220 | 171 | 45 | 8 0906 |
| 242 | 46 | 6443 | 6755 | 7068 | 7381 | 7694 | 8007 | 8320 | 8633 | 8946 | 2259 | 9572 | 9885 | 0199 | 0512 | 0825 | 1132 | 1452 | 174 | 46 | 1135 |
| 247 | 47 | 6669 | 6982 | 7295 | 7607 | 7920 | 8233 | 8546 | 8859 | 9172 | 9485 | 9798 | 0111 | 0424 | 0737 | 1050 | 1364 | 1677 | 178 | 47 | 1363 |
| 252 | 48 | 6896 | 7208 | 7521 | 7833 | 8146 | 8459 | 8772 | 9084 | 9397 | 9710 | 0023 | 0336 | 0649 | 0962 | 1275 | 1589 | 1902 | 182 | 48 | 1592 |
| 257 | 49 | 7123 | 7435 | 7747 | 8060 | 8372 | 8685 | 8998 | 9310 | 9623 | 9936 | 0249 | 0561 | 0874 | 1187 | 1500 | 1814 | 2127 | 186 | 49 | 1820 |
| 263 | 50 | 8 (9) 7349 | 7661 | 7974 | 6286 | 8599 | 8911 | 9224 | 9536 | 9849 | 0161 | 0474 | 0787 | 1100 | 1413 | 1726 | 2039 | 2352 | 190 | 50 | 8 2042 |
| 268 | 51 | 7576 | 7888 | 8200 | 8513 | 8825 | 9137 | 2450 | 2762 | 0075 | 0387 | 0700 | 1012 | 1325 | 1638 | 1951 | 2264 | 2576 | 193 | 51 | 2278 |
| 273 | 52 | 7803 | 8116 | 8427 | 8732 | 2051 | 9363 | 9676 | 9988 | 0300 | 0613 | 0925 | 1238 | 1551 | 1863 | 2176 | 2489 | 2801 | 197 | 52 | 2506 |
| 278 | 53 | 8030 | 8342 | 8654 | 0966 | 9278 | 9590 | 9902 | 0214 | 0526 | 0839 | 1151 | 1464 | 1776 | 2089 | 2401 | 2714 | 3026 | 201 | 53 | 2735 |
| 284 | 54 | 8257 | 8668 | 8880 | 9192 | 9504 | 9816 | 0198 | 0440 | 0752 | 1065 | 1377 | 1689 | 2009 | 2314 | 2626 | 2939 | 3251 | 205 | 54 | 2964 |
| 289 | 55 | 8 (9) 8484 | 8795 | 9107 | 9419 | 9731 | 0042 | 0354 | 0666 | 0978 | 1291 | 1603 | 1915 | 2227 | 2539 | 2852 | 3164 | 3477 | 209 | 55 | 8 3193 |
| 294 | 56 | 8711 | 9022 | 9334 | 9645 | 9957 | 0269 | 0581 | 0893 | 1205 | 1517 | 1829 | 2141 | 9453 | 2765 | 3077 | 3382 | 3702 | 212 | 56 | 3422 |
| 299 | 57 | 8938 | 9249 | 9561 | 9872 | 0184 | 0495 | 0807 | 1119 | 1431 | 1743 | 2054 | 2366 | 2678 | 2990 | 3303 | 3615 | 3927 | 216 | 57 | 3651 |
| 305 | 58 | 9165 | 9476 | 9788 | 0099 | 0410 | 0722 | 1034 | 1345 | 1657 | 1969 | 2280 | 2592 | 2904 | 3216 | 3528 | 3840 | 4152 | 220 | 58 | 3080 |
| 310 | 59 | 9322 | 9703 | 0015 | 0326 | 0637 | 0949 | 1260 | 1572 | 1883 | 2195 | 2506 | 2818 | 3130 | 3442 | 3754 | 4066 | 4378 | 224 | 59 | 4109 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 52° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 52° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 | 4338 | 4649 | 4959 | 5269 | 5580 | 5896 | 6261 | 6511 | 6822 | 7132 | 7443 | 7751 | 8665 | 6375 | 8636 | 8997 | 9366 | 227 | 0' | 2 9094 |
| 5 | 1 | | 4568 | 4878 | 5188 | 5498 | 5808 | 6112 | 6429 | 6739 | 7050 | 7361 | 7671 | 7982 | 8292 | 8603 | 8914 | 9225 | 9536 | 224 | 1 | 8868 |
| 10 | 2 | | 4797 | 5107 | 5417 | 5727 | 6037 | 6318 | 6658 | 6968 | 7278 | 7589 | 7899 | 8210 | 8520 | 8831 | 9142 | 9452 | 9763 | 220 | 2 | 8642 |
| 15 | 3 | | 6026 | 5336 | 5646 | 5956 | 6266 | 8578 | 6888 | 7197 | 7607 | 7817 | 8127 | 8438 | 8748 | 2059 | 9369 | 9680 | 9991 | 216 | 3 | 8418 |
| 21 | 4 | 8 (9) | 5256 | 5566 | 5875 | 6186 | 6495 | 6805 | 7115 | 7425 | 7735 | 8045 | 8356 | 8666 | 8975 | 9287 | 9697 | 9908 | 0218 | 212 | 4 | 8189 |
| 26 | 5 | 8 (9) | 5485 | 5795 | 6105 | 6414 | 6724 | 7034 | 7344 | 7654 | 7964 | 8274 | 8584 | 8894 | 9204 | 9515 | 9825 | 0135 | 0416 | 269 | 5 | 2 7963 |
| 31 | 6 | | 5715 | 6024 | 6334 | 6644 | 6953 | 7263 | 7573 | 7883 | 8192 | 8502 | 8812 | 9122 | 9432 | 2743 | 0053 | 0363 | 0673 | 205 | 6 | 7737 |
| 36 | 7 | | 6944 | 6264 | 6563 | 6873 | 7182 | 7492 | 7802 | 8111 | 8421 | 6731 | 9041 | 9351 | 9661 | 9971 | 0281 | 0591 | 6901 | 201 | 7 | 7510 |
| 41 | 8 | | 6174 | 6483 | 6793 | 7102 | 7411 | 7721 | 8031 | 8340 | 8650 | 8959 | 9269 | 9579 | 9889 | 0199 | 0509 | 0819 | 1129 | 197 | 8 | 7284 |
| 46 | 9 | | 6404 | 6713 | 7022 | 7331 | 7641 | 7950 | 8280 | 8569 | 8878 | 9188 | 9498 | 9807 | 0117 | 0427 | 0737 | 1017 | 1357 | 193 | 9 | 7057 |
| 51 | 10 | 8 (9) | 6633 | 6942 | 7251 | 7561 | 7870 | 8179 | 8489 | 8798 | 9107 | 9417 | 9726 | 0036 | 0345 | 0655 | 0965 | 1275 | 1584 | 190 | 10 | 2 6830 |
| 56 | 11 | | 6863 | 7172 | 7481 | 7790 | 8099 | 8408 | 8718 | 9027 | 9336 | 9645 | 9955 | 0264 | 0574 | 0883 | 1193 | 1504 | 1812 | 186 | 11 | 6604 |
| 61 | 12 | | 7093 | 7402 | 7711 | 8020 | 8328 | 8638 | 8947 | 9256 | 9565 | 9874 | 0183 | 0493 | 0802 | 1112 | 1421 | 1731 | 2046 | 182 | 12 | 6377 |
| 67 | 13 | | 7323 | 7632 | 7940 | 8249 | 8558 | 8867 | 9176 | 9485 | 9794 | 0103 | 0412 | 0721 | 1631 | 1340 | 1649 | 1959 | 2268 | 178 | 13 | 6156 |
| 72 | 14 | | 7553 | 7861 | 8170 | 8479 | 8787 | 9096 | 9405 | 9714 | 0023 | 0332 | 0641 | 6950 | 1259 | 1568 | 1878 | 2187 | 2496 | 174 | 14 | 5923 |
| 77 | 15 | 8 (9) | 7783 | 8091 | 8400 | 8708 | 9017 | 9326 | 9634 | 9943 | 0252 | 6561 | 0870 | 1179 | 1488 | 1797 | 2106 | 2415 | 2725 | 171 | 15 | 2 5697 |
| 82 | 16 | | 8613 | 8321 | 8630 | 8938 | 9247 | 9555 | 9864 | 0172 | 0481 | 0790 | 1099 | 1408 | 1717 | 2026 | 2334 | 2644 | 2953 | 167 | 16 | 5476 |
| 87 | 17 | | 8243 | 8551 | 8859 | 9168 | 9476 | 9785 | 0093 | 0402 | 0710 | 1019 | 1328 | 1636 | 1946 | 2254 | 2563 | 2872 | 3181 | 163 | 17 | 8243 |
| 92 | 18 | | 8473 | 8781 | 9089 | 9397 | 9706 | 0014 | 0323 | 0631 | 0939 | 1248 | 1557 | 1865 | 2174 | 2483 | 2792 | 3106 | 3409 | 169 | 18 | 5016 |
| 97 | 19 | | 8783 | 9011 | 9319 | 9627 | 9935 | 0244 | 0552 | 0860 | 1169 | 1477 | 1786 | 2024 | 2403 | 2711 | 3026 | 3329 | 3638 | 155 | 19 | 4789 |
| 102 | 20 | 8 (9) | 8933 | 9241 | 9519 | 9857 | 0165 | 0473 | 0782 | 1090 | 1398 | 1766 | 2015 | 2323 | 2632 | 2940 | 3249 | 3567 | 3866 | 152 | 20 | 2 4561 |
| 108 | 21 | | 9164 | 9471 | 9779 | 0087 | 0395 | 0703 | 1011 | 1319 | 1627 | 1936 | 2244 | 2552 | 2861 | 3169 | 3477 | 3786 | 4094 | 148 | 21 | 4334 |
| 113 | 22 | | 9394 | 9702 | 0009 | 0317 | 0625 | 0933 | 1241 | 1549 | 1857 | 2165 | 2473 | 2781 | 3090 | 3398 | 3706 | 4014 | 4393 | 144 | 22 | 4107 |
| 118 | 23 | | 9624 | 9932 | 0240 | 0547 | 0855 | 1163 | 1470 | 1778 | 2086 | 2394 | 2702 | 3010 | 3319 | 3627 | 3935 | 4243 | 4551 | 140 | 23 | 3880 |
| 123 | 24 | | 9855 | 0162 | 0470 | 0777 | 1085 | 1393 | 1700 | 2608 | 2316 | 2624 | 2932 | 3239 | 3548 | 3856 | 4164 | 4472 | 4780 | 136 | 24 | 3652 |
| 128 | 25 | 9 | 0085 | 0393 | 0700 | 1067 | 1315 | 1622 | 1930 | 2238 | 2545 | 2853 | 3161 | 3469 | 3777 | 4685 | 4392 | 4701 | 5009 | 133 | 25 | 2 3425 |
| 133 | 26 | | 0316 | 6623 | 0936 | 1238 | 1545 | 1852 | 2160 | 2467 | 2775 | 3083 | 3390 | 3698 | 4006 | 4314 | 4621 | 4929 | 6237 | 129 | 26 | 3197 |
| 138 | 27 | | 0546 | 0854 | 1161 | 1468 | 1775 | 2082 | 2390 | 2687 | 3005 | 3312 | 3620 | 3927 | 4235 | 4543 | 4856 | 5158 | 5466 | 125 | 27 | 2970 |
| 143 | 28 | | 0777 | 1084 | 1391 | 1698 | 2005 | 2312 | 2620 | 2927 | 3234 | 3542 | 3849 | 4157 | 4464 | 4772 | 5079 | 5387 | 5695 | 121 | 28 | 2742 |
| 148 | 29 | | 1008 | 1315 | 1622 | 1929 | 2235 | 2543 | 2850 | 3157 | 3464 | 3771 | 4079 | 4386 | 4693 | 5601 | 5308 | 5616 | 5924 | 118 | 29 | 2516 |
| 154 | 36 | 9 | 1238 | 1545 | 1852 | 2169 | 2466 | 2773 | 3080 | 3387 | 3694 | 4001 | 4308 | 4616 | 4923 | 5230 | 5538 | 5845 | 6153 | 114 | 30 | 2 2987 |
| 159 | 31 | | 1469 | 1776 | 2083 | 2389 | 2696 | 3003 | 3310 | 3617 | 3924 | 4231 | 4538 | 4845 | 5152 | 5459 | 5767 | 6074 | 6382 | 110 | 31 | 2059 |
| 164 | 32 | | 1700 | 2007 | 2313 | 2620 | 2926 | 3233 | 3540 | 3847 | 4154 | 4461 | 4768 | 5075 | 5362 | 5689 | 5996 | 6303 | 6611 | 166 | 32 | 1831 |
| 169 | 33 | | 1931 | 2238 | 2514 | 2850 | 3157 | 3464 | 3770 | 4077 | 4384 | 4690 | 4997 | 5304 | 5611 | 5918 | 6225 | 6532 | 6840 | 162 | 33 | 1664 |
| 174 | 34 | | 2162 | 2468 | 2776 | 3081 | 3387 | 3694 | 4000 | 4307 | 4614 | 4920 | 5227 | 5534 | 5841 | 6148 | 6455 | 6762 | 7069 | 99 | 34 | 1376 |
| 179 | 35 | 9 | 2393 | 2699 | 3005 | 3312 | 3618 | 3924 | 4231 | 4637 | 4844 | 6150 | 5457 | 5764 | 6070 | 6377 | 6684 | 6991 | 7298 | 95 | 35 | 2 1148 |
| 184 | 36 | | 2624 | 2930 | 3236 | 3542 | 3849 | 4155 | 4461 | 4767 | 5074 | 5386 | 5687 | 5993 | 6300 | 6607 | 6913 | 7220 | 7527 | 91 | 36 | 6920 |
| 189 | 37 | | 2855 | 3161 | 3467 | 3773 | 4079 | 4385 | 4692 | 4998 | 5304 | 5610 | 6917 | 6223 | 6530 | 8836 | 7143 | 7450 | 7756 | 87 | 37 | 0692 |
| 194 | 38 | | 3086 | 3392 | 3698 | 4001 | 4310 | 4616 | 4922 | 5228 | 5534 | 5846 | 6147 | 6453 | 6759 | 7066 | 7372 | 7679 | 7986 | 83 | 38 | 0484 |
| 200 | 39 | | 3318 | 3623 | 3929 | 4236 | 4541 | 4817 | 5153 | 5459 | 5765 | 6071 | 6377 | 6683 | 6989 | 7296 | 7602 | 7908 | 8216 | 80 | 39 | 0235 |
| 205 | 40 | 9 | 3549 | 3854 | 4160 | 4466 | 4771 | 5077 | 5383 | 5689 | 5995 | 6301 | 6607 | 6913 | 7219 | 7525 | 7832 | 8138 | 8444 | 76 | 46 | 2 0007 |
| 210 | 41 | | 3780 | 4086 | 4391 | 4697 | 5002 | 5308 | 5614 | 5919 | 6225 | 6531 | 6837 | 7143 | 7449 | 7765 | 8061 | 8367 | 8674 | 72 | 41 | 1 9779 |
| 215 | 42 | | 4012 | 4317 | 4622 | 4928 | 5233 | 5539 | 5844 | 6150 | 6456 | 6761 | 7067 | 7373 | 7679 | 7985 | 8291 | 8597 | 8903 | 68 | 42 | 2551 |
| 220 | 43 | | 4243 | 4548 | 4854 | 5159 | 5464 | 5770 | 6075 | 6381 | 6686 | 6992 | 7298 | 7603 | 7909 | 8215 | 8521 | 8827 | 9133 | 64 | 43 | 9322 |
| 225 | 44 | | 4474 | 4780 | 5085 | 5390 | 5695 | 6000 | 8306 | 6611 | 6917 | 7222 | 7528 | 7833 | 8139 | 8445 | 8751 | 9056 | 9362 | 61 | 44 | 9094 |
| 230 | 45 | 9 | 4706 | 5011 | 5316 | 5621 | 5926 | 6231 | 6537 | 6842 | 7147 | 7453 | 7758 | 8064 | 8369 | 8675 | 8980 | 9286 | 9592 | 57 | 45 | 1 8865 |
| 235 | 46 | | 4938 | 5242 | 5547 | 5852 | 6157 | 6462 | 6768 | 7073 | 7378 | 7683 | 7989 | 8294 | 8599 | 8905 | 9210 | 9516 | 9822 | 53 | 46 | 8837 |
| 241 | 47 | 9 (6) | 8169 | 5474 | 5779 | 6084 | 6388 | 6694 | 6999 | 7304 | 7609 | 7914 | 8219 | 8524 | 8830 | 9135 | 9440 | 9746 | 0051 | 49 | 47 | 8408 |
| 246 | 48 | | 8401 | 5706 | 6016 | 6315 | 6620 | 6925 | 7230 | 7634 | 7839 | 8144 | 8450 | 8755 | 9060 | 9365 | 9670 | 9976 | 0281 | 45 | 48 | 8180 |
| 281 | 49 | | 8633 | 5937 | 6242 | 6546 | 6851 | 7156 | 7461 | 7765 | 8076 | 8375 | 8680 | 8985 | 9290 | 9595 | 9901 | 0266 | 0511 | 42 | 49 | 7951 |
| 256 | 50 | 9 (0) | 5864 | 6169 | 6473 | 6778 | 7682 | 7387 | 7692 | 7996 | 8301 | 8606 | 8911 | 9216 | 9521 | 9826 | 0131 | 0436 | 0741 | 38 | 56 | 1 7722 |
| 261 | 51 | | 6096 | 6401 | 6705 | 7009 | 7314 | 7618 | 7923 | 8227 | 8532 | 8837 | 9141 | 9446 | 9751 | 0056 | 0361 | 0666 | 0971 | 34 | 61 | 7494 |
| 266 | 52 | | 8328 | 6632 | 6937 | 7241 | 7545 | 7849 | 8154 | 8458 | 8763 | 9067 | 9372 | 9677 | 9981 | 0286 | 0591 | 0896 | 1201 | 30 | 52 | 7265 |
| 271 | 53 | | 6566 | 6864 | 7168 | 7479 | 7777 | 8081 | 8385 | 8689 | 8994 | 9298 | 9603 | 9907 | 0212 | 0517 | 0821 | 1126 | 1431 | 27 | 53 | 7036 |
| 276 | 54 | | 6792 | 7096 | 7400 | 7704 | 8068 | 8312 | 8616 | 8921 | 9225 | 9529 | 9834 | 0138 | 0443 | 0747 | 1052 | 1356 | 1661 | 23 | 54 | 6807 |
| 281 | 55 | 9 (0) | 7024 | 7328 | 7632 | 7936 | 8240 | 8544 | 8848 | 9152 | 9456 | 9760 | 0065 | 0369 | 0673 | 0978 | 1282 | 1587 | 1891 | 19 | 55 | 1 8578 |
| 287 | 56 | | 7256 | 7560 | 7864 | 8167 | 8471 | 8775 | 9079 | 9383 | 9687 | 9991 | 0295 | 0600 | 0904 | 1208 | 1513 | 1817 | 2121 | 15 | 56 | 6349 |
| 292 | 57 | | 7488 | 7792 | 8095 | 8399 | 8703 | 9007 | 9311 | 9614 | 9918 | 0222 | 0526 | 0831 | 1135 | 1439 | 1743 | 2047 | 2352 | 11 | 57 | 6120 |
| 297 | 58 | | 7720 | 8024 | 8327 | 8631 | 8935 | 9238 | 9542 | 9846 | 0150 | 0454 | 0757 | 1061 | 1365 | 1670 | 1974 | 2278 | 2582 | 8 | 58 | 5891 |
| 302 | 59 | | 7953 | 8256 | 8559 | 8863 | 9166 | 9170 | 9774 | 0677 | 0381 | 0685 | 0989 | 1292 | 1596 | 1900 | 2204 | 2508 | 2812 | 4 | 59 | 5661 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

| Partes para segundos del Arg. Auxiliar. | 52° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 (9) | 9519 | 9930 | 0241 | 0553 | 0864 | 1175 | 1487 | 1768 | 2109 | 2421 | 2732 | 3844 | 3358 | 3667 | 3979 | 4291 | 4683 |
| 5 | 1 | | 6847 | 0158 | 5469 | 0780 | 1091 | 1482 | 1713 | 2024 | 2336 | 2647 | 2959 | 3270 | 3582 | 3893 | 4205 | 4517 | 4828 |
| 10 | 2 | 9 | 0574 | 0385 | 0696 | 1007 | 1318 | 1629 | 1640 | 2251 | 2562 | 2874 | 3185 | 3426 | 3808 | 4119 | 4431 | 4742 | 5034 |
| 15 | 3 | | 0301 | 0612 | 0923 | 1234 | 1545 | 1855 | 2167 | 2478 | 2789 | 3100 | 3411 | 3722 | 4034 | 4345 | 4656 | 4968 | 5279 |
| 21 | 4 | | 0529 | 0536 | 1150 | 1461 | 1772 | 2082 | 2393 | 2784 | 3015 | 3326 | 3637 | 3249 | 4260 | 4571 | 4882 | 5194 | 5505 |
| 26 | 5 | 2 | 0756 | 1067 | 1377 | 1688 | 1699 | 2309 | 2628 | 2931 | 3242 | 3553 | 3864 | 4175 | 4486 | 4797 | 5108 | 5419 | 5738 |
| 31 | 6 | | 0954 | 1294 | 1605 | 1915 | 2226 | 2535 | 2847 | 3158 | 3468 | 3779 | 4890 | 4401 | 4712 | 5823 | 5334 | 5645 | 5956 |
| 36 | 7 | | 1211 | 1522 | 1832 | 2142 | 2453 | 2763 | 3874 | 3384 | 3695 | 4886 | 4317 | 4627 | 4938 | 5249 | 5560 | 5871 | 6182 |
| 41 | 8 | | 1439 | 1749 | 2059 | 2375 | 2680 | 2998 | 3301 | 3611 | 3922 | 4232 | 4543 | 4854 | 5164 | 5475 | 5786 | 6097 | 6488 |
| 46 | 9 | | 1567 | 1977 | 2287 | 2597 | 2907 | 3217 | 3528 | 3838 | 4142 | 4459 | 4770 | 5088 | 5391 | 5701 | 6012 | 6323 | 6634 |
| 51 | 10 | 6 | 1894 | 2204 | 2514 | 2824 | 3134 | 3445 | 3755 | 4065 | 4375 | 4686 | 4996 | 5307 | 5617 | 5928 | 6238 | 6549 | 6860 |
| 57 | 11 | | 2122 | 2432 | 2742 | 3052 | 3362 | 3672 | 3982 | 4292 | 4602 | 4212 | 5223 | 5533 | 5843 | 0154 | 6464 | 6775 | 7086 |
| 62 | 12 | | 2350 | 2600 | 2970 | 3279 | 3589 | 3899 | 4209 | 4519 | 4829 | 5132 | 5449 | 5700 | 6070 | 6380 | 6691 | 7881 | 7312 |
| 67 | 13 | | 2578 | 2888 | 3197 | 3507 | 3817 | 4126 | 4436 | 4746 | 5056 | 5366 | 5676 | 5986 | 6296 | 6607 | 6917 | 7227 | 7538 |
| 72 | 14 | | 2806 | 3115 | 3425 | 3734 | 4044 | 4354 | 4664 | 4973 | 5283 | 5593 | 5903 | 6213 | 6523 | 6833 | 7143 | 7453 | 7764 |
| 77 | 15 | 9 | 3034 | 3343 | 3653 | 3962 | 4272 | 4581 | 4891 | 5200 | 5510 | 5820 | 6135 | 6440 | 6750 | 7068 | 7370 | 7680 | 7990 |
| 82 | 16 | | 3262 | 3571 | 3881 | 4190 | 4499 | 4809 | 5118 | 5428 | 5737 | 6047 | 6357 | 6666 | 6976 | 7286 | 7596 | 7906 | 8216 |
| 87 | 17 | | 3460 | 3799 | 4108 | 4418 | 4727 | 5036 | 5346 | 5655 | 5964 | 6274 | 6584 | 6893 | 7283 | 7513 | 7822 | 8132 | 8442 |
| 22 | 18 | | 3718 | 4827 | 4336 | 4645 | 4955 | 5264 | 5573 | 5882 | 6192 | 6501 | 6811 | 7120 | 7430 | 7739 | 8049 | 8359 | 8668 |
| 98 | 19 | | 3646 | 4255 | 4564 | 4873 | 5182 | 5491 | 5800 | 6110 | 6419 | 6728 | 7038 | 7347 | 7657 | 7966 | 8276 | 8585 | 8895 |
| 103 | 20 | 9 | 4175 | 4483 | 4792 | 5101 | 5410 | 5719 | 6028 | 6337 | 6646 | 6955 | 7265 | 7574 | 7883 | 8193 | 8502 | 8812 | 9122 |
| 108 | 21 | | 4403 | 4712 | 5520 | 5329 | 5638 | 5947 | 6256 | 6565 | 6874 | 7183 | 7492 | 7801 | 8110 | 8420 | 8729 | 9038 | 9348 |
| 113 | 22 | | 4631 | 4948 | 5249 | 5557 | 5866 | 6175 | 6483 | 6792 | 7101 | 7410 | 7719 | 8028 | 8337 | 8646 | 8956 | 9265 | 9574 |
| 118 | 23 | | 4860 | 5168 | 5477 | 5785 | 6094 | 6402 | 6711 | 7020 | 7329 | 7637 | 7946 | 8255 | 8564 | 8873 | 2182 | 9492 | 9881 |
| 123 | 24 | 6 (0) | 5088 | 5396 | 5705 | 6013 | 6322 | 6630 | 6939 | 7247 | 7556 | 7865 | 8174 | 8482 | 8791 | 9100 | 9409 | 9718 | 8027 |
| 126 | 25 | 6 (0) | 5317 | 5625 | 5933 | 6242 | 6550 | 6858 | 7167 | 7475 | 7784 | 8892 | 8401 | 8710 | 9018 | 9327 | 9636 | 9945 | 0254 |
| 134 | 26 | | 5545 | 5853 | 6152 | 6470 | 6778 | 7886 | 7395 | 7783 | 8011 | 8328 | 8628 | 8937 | 9246 | 9554 | 9863 | 0172 | 0481 |
| 136 | 27 | | 5774 | 6082 | 6390 | 6698 | 7006 | 7314 | 7622 | 7931 | 8239 | 8547 | 8856 | 9164 | 9473 | 9781 | 0090 | 8399 | 0787 |
| 144 | 28 | | 6083 | 6318 | 6618 | 6926 | 7234 | 7542 | 7858 | 8159 | 8467 | 8775 | 9083 | 9392 | 9700 | 8089 | 0317 | 0626 | 0934 |
| 149 | 29 | | 6231 | 6539 | 6847 | 7155 | 7462 | 7770 | 8078 | 8387 | 8695 | 9083 | 9311 | 9619 | 9927 | 0236 | 0544 | 0853 | 1161 |
| 154 | 30 | 6 (0) | 6468 | 6768 | 7075 | 7383 | 7691 | 7999 | 8307 | 8615 | 8922 | 9230 | 9539 | 9847 | 0155 | 0463 | 0771 | 1080 | 1388 |
| 159 | 31 | | 6689 | 6996 | 7384 | 7612 | 7919 | 8227 | 8535 | 8843 | 9130 | 9458 | 9766 | 0074 | 0382 | 0690 | 0998 | 1307 | 1615 |
| 164 | 32 | | 6618 | 7225 | 7533 | 7840 | 8148 | 8455 | 8763 | 9071 | 9378 | 9686 | 9994 | 0382 | 0610 | 0918 | 1226 | 1534 | 1842 |
| 169 | 33 | | 7147 | 7454 | 7751 | 8869 | 8376 | 8684 | 8991 | 9299 | 9686 | 9914 | 0222 | 0529 | 0837 | 1145 | 1453 | 1761 | 2869 |
| 175 | 34 | | 7376 | 7583 | 7690 | 8297 | 8605 | 8912 | 9219 | 9527 | 9834 | 8142 | 8449 | 8757 | 1065 | 1373 | 1688 | 1988 | 2296 |
| 180 | 35 | 9 (0) | 7605 | 7612 | 8219 | 8526 | 8833 | 9140 | 9448 | 9755 | 0062 | 0378 | 0677 | 8985 | 1292 | 1608 | 1908 | 2216 | 2523 |
| 185 | 36 | | 7834 | 8141 | 8448 | 8755 | 9062 | 2369 | 9676 | 9983 | 0291 | 8598 | 0985 | 1213 | 1520 | 1828 | 2135 | 2443 | 2751 |
| 190 | 37 | | 8063 | 8370 | 5677 | 5983 | 9290 | 9597 | 9904 | 0212 | 0519 | 0826 | 1133 | 1440 | 1748 | 2055 | 2363 | 2670 | 2978 |
| 195 | 38 | | 8292 | 8599 | 8906 | 9212 | 9519 | 9826 | 0133 | 0440 | 0747 | 1854 | 1361 | 1668 | 1976 | 2283 | 2590 | 2898 | 3205 |
| 200 | 39 | | 8521 | 8828 | 9135 | 9441 | 9748 | 0055 | 8361 | 0668 | 0975 | 1282 | 1589 | 1896 | 2203 | 2511 | 2818 | 3125 | 3432 |
| 205 | 40 | 6 (0) | 8751 | 9057 | 6364 | 9670 | 9977 | 8283 | 0590 | 0897 | 1204 | 1510 | 1817 | 2124 | 2431 | 2738 | 3845 | 3353 | 3660 |
| 211 | 41 | | 6980 | 9286 | 6563 | 9899 | 0206 | 0512 | 8812 | 1125 | 1432 | 1739 | 2046 | 2352 | 2659 | 2966 | 3273 | 3580 | 3887 |
| 216 | 42 | | 9209 | 9515 | 9822 | 0128 | 0435 | 0741 | 1047 | 1354 | 1660 | 1967 | 2274 | 2580 | 2887 | 3194 | 3581 | 3808 | 4115 |
| 221 | 43 | | 9436 | 9745 | 5051 | 0357 | 0664 | 0970 | 1276 | 1583 | 1889 | 2195 | 2502 | 2809 | 3115 | 3422 | 3726 | 4036 | 4342 |
| 226 | 44 | | 9668 | 9974 | 0280 | 0586 | 0893 | 1199 | 1505 | 1811 | 2118 | 2424 | 2730 | 3037 | 3343 | 3650 | 3957 | 4263 | 4578 |
| 231 | 45 | 6 (8) | 9898 | 0204 | 0510 | 0815 | 1122 | 1428 | 1734 | 2048 | 2340 | 2652 | 2959 | 3265 | 3571 | 3878 | 4184 | 4491 | 4798 |
| 236 | 46 | 5 | 0127 | 0433 | 0739 | 1045 | 1351 | 1657 | 1963 | 2269 | 2575 | 2881 | 3187 | 3493 | 3800 | 4106 | 4412 | 4719 | 5025 |
| 241 | 47 | | 0357 | 0663 | 8968 | 1274 | 1588 | 1886 | 2192 | 2497 | 2803 | 3110 | 3416 | 3722 | 4028 | 4334 | 4640 | 4947 | 5253 |
| 246 | 48 | | 0587 | 0892 | 1198 | 1503 | 1809 | 2115 | 2421 | 2726 | 3032 | 3338 | 3644 | 3950 | 4256 | 4562 | 4868 | 5175 | 5481 |
| 252 | 49 | | 0816 | 1122 | 1427 | 1733 | 2038 | 2344 | 2650 | 2955 | 3261 | 3567 | 3873 | 4179 | 4484 | 4791 | 5067 | 5403 | 5709 |
| 257 | 50 | 0 | 1040 | 1352 | 1657 | 1962 | 2268 | 2573 | 2879 | 3184 | 3490 | 3796 | 4101 | 4408 | 4713 | 5019 | 5325 | 5631 | 5937 |
| 262 | 51 | | 1276 | 1581 | 1886 | 2192 | 2497 | 2802 | 3108 | 3413 | 3719 | 4824 | 4330 | 4636 | 4241 | 5247 | 5553 | 5859 | 6165 |
| 267 | 52 | | 1506 | 1811 | 2116 | 2421 | 2726 | 3032 | 3337 | 3642 | 3948 | 4253 | 4552 | 4864 | 5170 | 5475 | 5781 | 6887 | 6393 |
| 272 | 53 | | 1730 | 2041 | 2346 | 2651 | 2956 | 3261 | 3566 | 3871 | 4177 | 4482 | 4787 | 5093 | 5398 | 5704 | 6009 | 6315 | 6621 |
| 277 | 54 | | 1955 | 2271 | 2576 | 2880 | 3185 | 3490 | 3795 | 4101 | 4406 | 4711 | 5016 | 5322 | 5527 | 5632 | 6238 | 5543 | 6849 |
| 282 | 55 | 0 | 2126 | 2501 | 2805 | 3110 | 3415 | 3720 | 4025 | 4335 | 4635 | 4940 | 5245 | 5555 | 5856 | 6161 | 6466 | 6772 | 7077 |
| 288 | 56 | | 2426 | 2731 | 3035 | 3340 | 3645 | 3946 | 4254 | 4559 | 4864 | 5169 | 5474 | 5779 | 5084 | 6389 | 6695 | 7050 | 7305 |
| 293 | 57 | | 2656 | 2961 | 3265 | 3570 | 3874 | 4179 | 4484 | 4788 | 5093 | 5398 | 5703 | 6058 | 6313 | 6618 | 6923 | 7228 | 7534 |
| 298 | 58 | | 2886 | 3161 | 3495 | 3800 | 4154 | 4409 | 4713 | 5018 | 5322 | 5627 | 5932 | 6237 | 6542 | 6847 | 7152 | 7457 | 7762 |
| 303 | 59 | | 3117 | 3421 | 3725 | 4029 | 4334 | 4638 | 4643 | 5247 | 5552 | 5856 | 6161 | 6466 | 6771 | 7075 | 7360 | 7685 | 7990 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 52° | Núm. |
|---|---|---|
| 0 | 0′ | 8 4332 |
| 4 | 1 | 4568 |
| 8 | 2 | 4797 |
| 12 | 3 | 5026 |
| 15 | 4 | 5256 |
| 19 | 5 | 8 5485 |
| 23 | 6 | 5715 |
| 27 | 7 | 5944 |
| 31 | 8 | 6174 |
| 35 | 9 | 6484 |
| 38 | 10 | 8 6633 |
| 42 | 11 | 6863 |
| 46 | 12 | 7893 |
| 50 | 13 | 7323 |
| 54 | 14 | 7553 |
| 58 | 15 | 8 7783 |
| 61 | 16 | 8013 |
| 65 | 17 | 8243 |
| 69 | 18 | 8473 |
| 73 | 19 | 8703 |
| 77 | 20 | 8 8933 |
| 81 | 21 | 9104 |
| 84 | 22 | 9394 |
| 88 | 23 | 9624 |
| 92 | 24 | 9855 |
| 96 | 25 | 9 8085 |
| 100 | 26 | 8316 |
| 184 | 27 | 0546 |
| 188 | 28 | 0777 |
| 111 | 29 | 1808 |
| 115 | 30 | 9 1239 |
| 119 | 31 | 1469 |
| 123 | 32 | 1780 |
| 127 | 33 | 1931 |
| 131 | 34 | 2162 |
| 134 | 35 | 9 2393 |
| 138 | 36 | 2624 |
| 142 | 37 | 2855 |
| 146 | 38 | 3086 |
| 150 | 39 | 3318 |
| 154 | 40 | 9 3549 |
| 158 | 41 | 3780 |
| 161 | 42 | 4012 |
| 165 | 43 | 4243 |
| 169 | 44 | 4474 |
| 173 | 45 | 9 4706 |
| 177 | 46 | 4938 |
| 181 | 47 | 5169 |
| 184 | 48 | 5481 |
| 188 | 49 | 5633 |
| 192 | 50 | 9 5864 |
| 196 | 51 | 6096 |
| 280 | 52 | 6328 |
| 204 | 53 | 6560 |
| 207 | 54 | 6792 |
| 211 | 55 | 9 7024 |
| 215 | 56 | 7255 |
| 219 | 57 | 7488 |
| 223 | 58 | 7720 |
| 227 | 59 | 7953 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 53° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 53° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0' | 2 (0) | 5105 | 8488 | 8791 | 2995 | 9398 | 9782 | 0005 | 0359 | 0612 | 0916 | 1220 | 1523 | 1827 | 2131 | 2436 | 2739 | 3043 | 238 | 0' | 1 5432 |
| 5 | 1 | | 0417 | 8720 | 2024 | 2327 | 9630 | 9933 | 0237 | 0540 | 0844 | 1147 | 1451 | 1751 | 2958 | 2362 | 2666 | 2969 | 3273 | 227 | 1 | 5203 |
| 10 | 2 | | 8659 | 8953 | 2256 | 9559 | 9862 | 9155 | 0450 | 0772 | 1075 | 1379 | 1682 | 1986 | 2289 | 2593 | 2898 | 3200 | 3504 | 223 | 2 | 4974 |
| 15 | 3 | | 8882 | 9105 | 9488 | 9721 | 0094 | 0327 | 0789 | 1003 | 1307 | 1610 | 1913 | 2217 | 2520 | 9824 | 3127 | 3431 | 3734 | 219 | 3 | 4744 |
| 29 | 4 | | 2115 | 9417 | 9720 | 9023 | 0326 | 0629 | 0932 | 1235 | 1530 | 1541 | 9145 | 2148 | 2751 | 3055 | 3358 | 3662 | 3965 | 215 | 4 | 4515 |
| 25 | 5 | 9 (9) | 9347 | 9549 | 9953 | 0255 | 0558 | 0861 | 1164 | 1487 | 1779 | 2073 | 2376 | 2679 | 2982 | 3288 | 3589 | 3892 | 4196 | 211 | 5 | 1 4985 |
| 30 | 6 | | 9550 | 9882 | 0185 | 0188 | 0790 | 1093 | 1395 | 1629 | 2081 | 2304 | 2607 | 2910 | 3214 | 3517 | 3820 | 4123 | 4426 | 207 | 6 | 4956 |
| 35 | 7 | | 9812 | 0115 | 0417 | 0720 | 1022 | 1325 | 1698 | 1930 | 2233 | 2536 | 2839 | 3142 | 3445 | 3748 | 4051 | 4354 | 4857 | 294 | 7 | 3826 |
| 45 | 8 | 0 | 0045 | 0347 | 0850 | 0952 | 1255 | 1557 | 1060 | 2162 | 9465 | 2768 | 3870 | 3373 | 3576 | 3979 | 4282 | 4585 | 4888 | 200 | 8 | 3598 |
| 45 | 6 | | 0270 | 0580 | 0882 | 1185 | 1487 | 1789 | 2092 | 2394 | 2627 | 2999 | 3392 | 3605 | 3907 | 4910 | 4513 | 4815 | 5119 | 196 | 9 | 3367 |
| 58 | 10 | 9 | 5511 | 0813 | 1115 | 1417 | 1719 | 2021 | 2324 | 2628 | 9929 | 3231 | 3531 | 3838 | 4139 | 4411 | 4744 | 5017 | 5350 | 192 | 19 | 1 3137 |
| 55 | 11 | | 0743 | 1045 | 1347 | 1649 | 1952 | 2254 | 2556 | 2858 | 3161 | 3483 | 3785 | 4068 | 4370 | 4673 | 4975 | 5278 | 5501 | 188 | 11 | 2907 |
| 69 | 12 | | 9276 | 1278 | 1580 | 1882 | 2184 | 2486 | 2768 | 3090 | 3393 | 3695 | 3997 | 4299 | 4602 | 4904 | 5297 | 5509 | 5812 | 184 | 12 | 2677 |
| 65 | 13 | | 1209 | 1511 | 1813 | 2116 | 2416 | 2718 | 3090 | 3322 | 3625 | 3927 | 4229 | 4531 | 4833 | 5136 | 5438 | 5740 | 6043 | 181 | 13 | 2447 |
| 79 | 14 | | 1442 | 1744 | 2046 | 2347 | 2649 | 2951 | 3253 | 3555 | 3857 | 4159 | 4161 | 4763 | 5085 | 5367 | 5689 | 5972 | 6274 | 177 | 14 | 2217 |
| 75 | 15 | 0 | 1675 | 1977 | 2278 | 2580 | 2882 | 3183 | 3485 | 3787 | 4009 | 4391 | 4892 | 4994 | 5296 | 5599 | 5901 | 8293 | 6505 | 173 | 15 | 1 1987 |
| 80 | 16 | | 1208 | 2210 | 2511 | 2813 | 3114 | 3416 | 3717 | 4019 | 4321 | 4823 | 4924 | 5226 | 5528 | 5830 | 6132 | 6434 | 6738 | 169 | 16 | 1757 |
| 85 | 17 | | 2142 | 2443 | 2744 | 3846 | 3347 | 3648 | 3950 | 4251 | 4553 | 4855 | 5156 | 5458 | 6760 | 8062 | 6384 | 6666 | 6988 | 165 | 17 | 1527 |
| 90 | 18 | | 2375 | 2676 | 2977 | 3278 | 3589 | 3881 | 4182 | 4484 | 4785 | 5087 | 5388 | 5890 | 5992 | 6993 | 8595 | 6897 | 7199 | 161 | 18 | 1297 |
| 95 | 19 | | 2605 | 2999 | 3210 | 3511 | 3812 | 4114 | 4415 | 4716 | 5018 | 5319 | 5629 | 5922 | 6924 | 6525 | 6827 | 7128 | 7430 | 158 | 19 | 1857 |
| 100 | 25 | 0 | 2541 | 3149 | 3443 | 3744 | 4045 | 4346 | 4648 | 4949 | 5250 | 5551 | 5853 | 6154 | 6455 | 8757 | 7058 | 7360 | 7682 | 154 | 28 | 1 0836 |
| 195 | 21 | | 3075 | 3375 | 3676 | 3977 | 4278 | 4579 | 4080 | 5181 | 5482 | 5784 | 6985 | 6386 | 6887 | 8989 | 7990 | 7592 | 7893 | 159 | 21 | 5606 |
| 119 | 22 | | 3390 | 3609 | 3909 | 4210 | 4511 | 4812 | 5113 | 5414 | 5715 | 6016 | 6317 | 6818 | 6919 | 7291 | 7592 | 7823 | 8125 | 146 | 22 | 0376 |
| 115 | 23 | | 3542 | 3842 | 4143 | 4443 | 4744 | 5045 | 5346 | 5645 | 5947 | 6248 | 8649 | 6850 | 7151 | 7453 | 7753 | 8055 | 8356 | 142 | 23 | 0145 |
| 120 | 24 | | 3776 | 4975 | 4376 | 4676 | 4977 | 5278 | 5578 | 5879 | 6180 | 6481 | 6702 | 7083 | 7383 | 7685 | 7986 | 8287 | 8588 | 138 | 24 | 0 9916 |
| 125 | 25 | 5 | 4009 | 4309 | 4609 | 4919 | 5210 | 5511 | 5811 | 6112 | 6412 | 6713 | 7011 | 7315 | 7616 | 7917 | 8218 | 8518 | 8820 | 134 | 25 | 0 9684 |
| 139 | 26 | | 4242 | 4542 | 4843 | 5143 | 5443 | 5744 | 6044 | 5345 | 6645 | 8946 | 7246 | 7547 | 7818 | 8149 | 8450 | 8760 | 9051 | 131 | 26 | 9454 |
| 135 | 27 | | 4476 | 4776 | 5076 | 5375 | 5676 | 5977 | 6977 | 6577 | 6870 | 7178 | 7479 | 7772 | 8080 | 8381 | 8682 | 8989 | 9283 | 127 | 27 | 9223 |
| 140 | 28 | | 4710 | 5910 | 5310 | 5619 | 5910 | 6218 | 6518 | 6810 | 7111 | 7411 | 7711 | 8912 | 8312 | 8813 | 8914 | 9214 | 9515 | 123 | 28 | 8992 |
| 145 | 29 | | 4943 | 5243 | 5543 | 5843 | 6143 | 6443 | 6743 | 7943 | 7343 | 7644 | 7944 | 8244 | 8546 | 8845 | 9146 | 9146 | 9747 | 112 | 22 | 8761 |
| 159 | 30 | 0 | 5177 | 5177 | 5777 | 6076 | 6376 | 6876 | 6978 | 7276 | 7576 | 7876 | 8177 | 8477 | 8777 | 9077 | 9378 | 9678 | 9979 | 115 | 30 | 0 8531 |
| 155 | 31 | 5 (1) | 5411 | 5711 | 6919 | 6310 | 6610 | 6909 | 7299 | 7509 | 7809 | 8109 | 8499 | 8709 | 9019 | 9319 | 9819 | 9910 | 0211 | 111 | 31 | 8309 |
| 160 | 32 | | 6645 | 5944 | 6944 | 5544 | 6843 | 7143 | 7443 | 7742 | 8042 | 8342 | 8642 | 8942 | 9242 | 9542 | 9842 | 0142 | 0443 | 108 | 32 | 8062 |
| 165 | 33 | | 5879 | 6178 | 6478 | 6777 | 7077 | 7376 | 7676 | 7276 | 8275 | 8575 | 8876 | 2175 | 9475 | 9774 | 0075 | 0375 | 0675 | 104 | 33 | 7838 |
| 170 | 34 | | 6113 | 8412 | 6711 | 7911 | 7319 | 7619 | 7909 | 8299 | 8508 | 8808 | 9198 | 2407 | 9707 | 9897 | 0307 | 0607 | 0907 | 190 | 34 | 7607 |
| 175 | 35 | 0 (1) | 6347 | 8646 | 6945 | 7245 | 7544 | 7843 | 8142 | 8142 | 8741 | 9041 | 9349 | 9640 | 9948 | 0248 | 0539 | 0839 | 1139 | 96 | 35 | 5 7376 |
| 159 | 36 | | 6581 | 6880 | 7179 | 7478 | 7777 | 8077 | 8376 | 8675 | 8975 | 9274 | 9573 | 9873 | 0172 | 0472 | 0772 | 1071 | 1371 | 92 | 36 | 7145 |
| 185 | 37 | | 6816 | 7114 | 7413 | 7712 | 0011 | 8310 | 8609 | 8908 | 9208 | 9587 | 9806 | 0106 | 0405 | 0705 | 1084 | 1304 | 1603 | 80 | 37 | 6914 |
| 190 | 38 | | 7049 | 7348 | 7647 | 7945 | 8245 | 8544 | 8843 | 2142 | 9441 | 2745 | 0039 | 0339 | 0638 | 0937 | 1237 | 1536 | 1836 | 84 | 38 | 6682 |
| 125 | 39 | | 7284 | 7582 | 7881 | 8185 | 8479 | 8777 | 9076 | 9375 | 9674 | 9973 | 9272 | 5572 | 0871 | 1170 | 1469 | 1769 | 2068 | 81 | 39 | 6451 |
| 200 | 48 | 8 (1) | 7516 | 7817 | 8115 | 8414 | 8712 | 9911 | 9310 | 9609 | 9908 | 0997 | 0506 | 5805 | 1104 | 1403 | 1702 | 2001 | 9301 | 77 | 40 | 5 6220 |
| 205 | 41 | | 7759 | 0851 | 8349 | 8848 | 8246 | 9245 | 9544 | 9812 | 0141 | 0440 | 5739 | 1038 | 1337 | 1638 | 1935 | 9934 | 2533 | 73 | 41 | 5988 |
| 210 | 49 | | 7287 | 8255 | 8583 | 8652 | 9180 | 9479 | 9777 | 0075 | 0375 | 0673 | 0972 | 1971 | 1570 | 1869 | 2168 | 2167 | 2766 | 69 | 42 | 6757 |
| 216 | 43 | | 0221 | 8519 | 8818 | 9115 | 9414 | 9713 | 0011 | 5315 | 0608 | 8907 | 1285 | 1504 | 1803 | 2152 | 2400 | 2699 | 2998 | 66 | 43 | 6596 |
| 298 | 44 | | 8456 | 8754 | 9052 | 9350 | 9648 | 9947 | 0245 | 5543 | 0842 | 1148 | 1439 | 1737 | 9036 | 9335 | 2633 | 9932 | 3231 | 61 | 44 | 6224 |
| 225 | 45 | 0 (1) | 8699 | 8988 | 9288 | 9584 | 9882 | 0181 | 0479 | 5777 | 1075 | 1374 | 1672 | 1970 | 2269 | 2568 | 2866 | 3165 | 3463 | 50 | 45 | 0 6062 |
| 230 | 46 | | 0925 | 9223 | 9521 | 9819 | 0116 | 0415 | 0713 | 1811 | 1309 | 1607 | 1906 | 2205 | 2502 | 9851 | 3099 | 3398 | 3698 | 54 | 46 | 4831 |
| 235 | 47 | | 2150 | 9457 | 9755 | 0853 | 0351 | 5649 | 5947 | 1245 | 1543 | 1841 | 2139 | 2437 | 2735 | 3034 | 3339 | 3631 | 3229 | 50 | 47 | 4529 |
| 240 | 48 | | 9394 | 9699 | 9989 | 0287 | 0585 | 0883 | 1181 | 1478 | 1776 | 2074 | 9379 | 9871 | 2989 | 3287 | 3565 | 3863 | 4169 | 46 | 48 | 4367 |
| 245 | 49 | | 9629 | 9226 | 9294 | 0622 | 0819 | 1117 | 1415 | 1712 | 9910 | 2308 | 2606 | 9904 | 3209 | 3609 | 3798 | 4096 | 4395 | 42 | 49 | 4135 |
| 250 | 50 | 0 (1) | 9884 | 0161 | 0459 | 0756 | 1054 | 1351 | 1649 | 1946 | 2244 | 9542 | 9848 | 3138 | 3435 | 3733 | 4931 | 4329 | 4698 | 30 | 60 | 8 3904 |
| 255 | 51 | 1 | 0099 | 0396 | 0693 | 0921 | 1288 | 1585 | 1883 | 2180 | 2478 | 2776 | 3073 | 3371 | 3669 | 3987 | 4265 | 4563 | 4861 | 35 | 51 | 3672 |
| 250 | 52 | | 0334 | 0631 | 8928 | 1225 | 1599 | 1825 | 2117 | 2415 | 2712 | 3010 | 3387 | 3605 | 3902 | 4900 | 4498 | 4796 | 5894 | 31 | 52 | 3440 |
| 265 | 53 | | 0589 | 0866 | 1163 | 1450 | 1757 | 2054 | 2351 | 2649 | 2946 | 3243 | 3541 | 3838 | 4136 | 4434 | 4731 | 5029 | 5327 | 27 | 63 | 3205 |
| 275 | 54 | | 0804 | 1100 | 1397 | 1694 | 1991 | 2989 | 2586 | 2883 | 3189 | 3477 | 3775 | 4072 | 4369 | 4667 | 4965 | 5262 | 5560 | 23 | 54 | 2976 |
| 275 | 55 | 1 | 1039 | 1335 | 1632 | 1929 | 2996 | 2593 | 9828 | 3117 | 3414 | 3711 | 4099 | 4308 | 4603 | 4900 | 5198 | 5495 | 5793 | 19 | 55 | 0 2744 |
| 285 | 56 | | 1274 | 1570 | 1867 | 2164 | 9481 | 2758 | 3954 | 3351 | 3648 | 3945 | 4242 | 4540 | 4837 | 5134 | 5431 | 5729 | 6026 | 15 | 56 | 2512 |
| 255 | 57 | | 1599 | 1805 | 2102 | 9399 | 2625 | 2992 | 3289 | 3586 | 3883 | 4179 | 4476 | 4773 | 5071 | 5368 | 5665 | 5962 | 6259 | 12 | 57 | 2280 |
| 220 | 58 | | 1744 | 2041 | 2337 | 9634 | 2930 | 3227 | 3523 | 3820 | 4117 | 4414 | 4710 | 5007 | 5304 | 5601 | 5898 | 6195 | 6493 | 8 | 58 | 2547 |
| 225 | 58 | | 1979 | 2976 | 2572 | 9865 | 3165 | 3451 | 3755 | 4554 | 4351 | 4640 | 4945 | 5941 | 5538 | 5835 | 6132 | 6429 | 6725 | 4 | 59 | 1015 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar | 53° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0′ | 6 | 3347 | 3951 | 3855 | 4259 | 4564 | 4860 | 5172 | 5477 | 5701 | 6086 | 9390 | 6696 | 6999 | 7304 | 7609 | 7914 | 8219 |
| 5 | 1 | | 3577 | 3801 | 4105 | 4489 | 4794 | 5098 | 5402 | 5706 | 6811 | 6315 | 6619 | 6924 | 7298 | 7533 | 7838 | 8142 | 8447 |
| 10 | 2 | | 3800 | 4112 | 4416 | 4719 | 5094 | 5328 | 5632 | 5936 | 6240 | 6544 | 6849 | 7153 | 7457 | 7762 | 8069 | 8371 | 8676 |
| 15 | 3 | | 4038 | 4342 | 4645 | 4949 | 5954 | 6557 | 5891 | 6165 | 6470 | 6774 | 7070 | 7382 | 7686 | 7991 | 8295 | 8600 | 8904 |
| 20 | 4 | | 4269 | 4572 | 4876 | 5180 | 5484 | 5787 | 6091 | 9395 | 6699 | 7003 | 7307 | 7611 | 7915 | 8220 | 8524 | 8898 | 9133 |
| 25 | 6 | 8 | 4499 | 4803 | 5109 | 5410 | 5714 | 6017 | 6391 | 6625 | 6929 | 7233 | 7537 | 7841 | 8145 | 8449 | 8753 | 9057 | 9361 |
| 30 | 6 | | 4730 | 5033 | 5337 | 6640 | 5944 | 6247 | 6551 | 6855 | 7150 | 7462 | 7796 | 8070 | 8374 | 8678 | 8989 | 9286 | 9590 |
| 35 | 7 | | 4960 | 5964 | 5567 | 5870 | 6174 | 9477 | 6781 | 7084 | 7388 | 7692 | 7995 | 8299 | 8603 | 8907 | 9911 | 9515 | 9819 |
| 40 | 8 | 0 (1) | 6181 | 5424 | 5727 | 9101 | 9404 | 6707 | 7011 | 7314 | 7618 | 7921 | 8995 | 8528 | 8832 | 9136 | 9440 | 9744 | 0048 |
| 45 | 2 | | 5422 | 5725 | 5028 | 6331 | 9534 | 9938 | 7241 | 7644 | 7848 | 8151 | 8455 | 8758 | 9069 | 9385 | 9969 | 9973 | 0277 |
| 50 | 10 | 0 (1) | 6653 | 5956 | 9259 | 6592 | 9865 | 7168 | 7471 | 7774 | 8078 | 8381 | 8684 | 8988 | 9291 | 9595 | 9898 | 0209 | 0505 |
| 55 | 11 | | 5884 | 9189 | 6409 | 6792 | 7095 | 7390 | 7701 | 8004 | 8307 | 8611 | 8914 | 9217 | 9521 | 9824 | 0127 | 0431 | 0734 |
| 60 | 12 | | 6114 | 9417 | 9720 | 7023 | 7395 | 7628 | 7931 | 8234 | 8537 | 8840 | 9144 | 9447 | 9750 | 0053 | 0357 | 0660 | 0963 |
| 66 | 13 | | 6345 | 9648 | 6951 | 7263 | 7656 | 7059 | 8162 | 8464 | 8767 | 9070 | 9373 | 9976 | 9980 | 0283 | 0586 | 0889 | 1192 |
| 70 | 14 | | 6579 | 9879 | 7181 | 7484 | 7787 | 8089 | 0392 | 8995 | 8997 | 9300 | 9903 | 9906 | 0209 | 0512 | 0815 | 1118 | 1422 |
| 75 | 15 | 0 (1) | 6807 | 7110 | 7412 | 7715 | 8017 | 8328 | 8622 | 8925 | 9228 | 9530 | 9833 | 0136 | 0439 | 0742 | 1045 | 1348 | 1651 |
| 60 | 16 | | 7038 | 7341 | 7643 | 7945 | 8248 | 8550 | 8853 | 9155 | 9458 | 9790 | 0063 | 0366 | 0668 | 0971 | 1274 | 1577 | 1880 |
| 85 | 17 | | 7270 | 7572 | 7874 | 8176 | 8478 | 8781 | 9083 | 9385 | 9688 | 9990 | 0993 | 0599 | 0898 | 1901 | 1504 | 1806 | 2109 |
| 90 | 18 | | 7501 | 7803 | 8105 | 0407 | 8709 | 9011 | 9313 | 9616 | 9918 | 0990 | 0523 | 0895 | 1128 | 1430 | 1733 | 2039 | 2339 |
| 95 | 12 | | 7739 | 8034 | 8336 | 0638 | 8940 | 9242 | 9544 | 9849 | 0148 | 0451 | 0753 | 1055 | 1358 | 1660 | 1963 | 2965 | 2568 |
| 100 | 20 | 0 (1) | 7953 | 8295 | 8597 | 8569 | 2171 | 9473 | 9776 | 0077 | 0379 | 0681 | 0983 | 1985 | 1688 | 1890 | 2192 | 2495 | 2797 |
| 105 | 91 | | 0195 | 8499 | 8798 | 9180 | 9482 | 8703 | 9805 | 0307 | 0609 | 0911 | 1213 | 1515 | 1818 | 2120 | 2422 | 9724 | 3027 |
| 110 | 22 | | 0426 | 8720 | 9029 | 9331 | 9633 | 9934 | 0236 | 0538 | 0840 | 1142 | 1443 | 1746 | 2048 | 2350 | 2652 | 2954 | 3256 |
| 115 | 23 | | 8658 | 8959 | 9260 | 9562 | 9864 | 0195 | 0467 | 9765 | 1070 | 1379 | 1674 | 1976 | 2278 | 9580 | 2882 | 3184 | 3486 |
| 120 | 24 | | 6059 | 9190 | 9499 | 9793 | 0095 | 0396 | 0697 | 0999 | 1301 | 1602 | 1904 | 2206 | 2608 | 2810 | 3112 | 3413 | 3716 |
| 125 | 25 | 0 (1) | 2121 | 9429 | 9723 | 0024 | 0326 | 0697 | 0928 | 1930 | 1531 | 1833 | 2134 | 9436 | 2738 | 3040 | 3341 | 3643 | 3945 |
| 130 | 26 | | 2352 | 9653 | 9954 | 0256 | 0557 | 0850 | 1159 | 1491 | 1769 | 2063 | 9366 | 2996 | 2968 | 3270 | 3571 | 3873 | 4175 |
| 135 | 27 | | 8584 | 9885 | 0186 | 0487 | 6780 | 1089 | 1390 | 1691 | 1993 | 9994 | 2595 | 9897 | 3198 | 3500 | 3801 | 4103 | 4405 |
| 140 | 28 | | 2816 | 0116 | 0417 | 0718 | 1019 | 1320 | 1621 | 1992 | 2223 | 2525 | 9826 | 3127 | 3429 | 3730 | 4031 | 4333 | 4934 |
| 145 | 29 | 1 | 0947 | 0348 | 0649 | 0950 | 1250 | 1661 | 1852 | 9153 | 9454 | 9755 | 3056 | 3358 | 3959 | 3960 | 4291 | 4593 | 4864 |
| 160 | 38 | 1 | 0979 | 0580 | 0080 | 1181 | 1489 | 1782 | 2083 | 9384 | 2605 | 2986 | 3287 | 3588 | 3889 | 4190 | 4492 | 4793 | 5094 |
| 156 | 31 | | 0611 | 0811 | 1112 | 1413 | 1713 | 9014 | 9314 | 2615 | 9916 | 3217 | 3518 | 3819 | 4120 | 4421 | 4722 | 5023 | 5324 |
| 161 | 32 | | 8743 | 1043 | 1344 | 1644 | 1945 | 2945 | 9546 | 2848 | 3147 | 3448 | 3748 | 4049 | 4350 | 4651 | 4952 | 5253 | 5554 |
| 169 | 33 | | 0975 | 1275 | 1576 | 1876 | 2176 | 2476 | 2777 | 3077 | 3378 | 3679 | 3979 | 4980 | 4581 | 4889 | 5182 | 5483 | 5704 |
| 171 | 34 | | 1987 | 1587 | 1087 | 2107 | 2400 | 2708 | 3008 | 3309 | 3609 | 3910 | 4910 | 4511 | 4811 | 5112 | 5413 | 6714 | 9014 |
| 176 | 36 | 1 | 1439 | 1739 | 2039 | 9339 | 2639 | 2939 | 3248 | 3540 | 3840 | 4141 | 4441 | 4741 | 6042 | 5342 | 5643 | 5944 | 6245 |
| 181 | 36 | | 1671 | 1971 | 2271 | 2671 | 2071 | 3171 | 3471 | 3771 | 4071 | 4372 | 4679 | 4972 | 5273 | 5573 | 5874 | 6174 | 6475 |
| 186 | 37 | | 1903 | 2293 | 2503 | 9803 | 3199 | 3489 | 3702 | 4002 | 4303 | 4983 | 4983 | 5203 | 5583 | 5894 | 9194 | 9404 | 6795 |
| 191 | 38 | | 2135 | 2435 | 9735 | 3934 | 3334 | 3634 | 3934 | 4234 | 4534 | 4834 | 5134 | 5434 | 5734 | 6034 | 9335 | 6635 | 6935 |
| 196 | 39 | | 2398 | 2667 | 9997 | 3299 | 3569 | 3869 | 4196 | 4495 | 4765 | 5065 | 6395 | 5995 | 5995 | 6295 | 9565 | 6865 | 7196 |
| 281 | 46 | 1 | 2980 | 2899 | 3199 | 3498 | 3798 | 4097 | 4397 | 4997 | 4999 | 5296 | 6596 | 5896 | 9199 | 6496 | 6799 | 7096 | 7399 |
| 289 | 41 | | 2839 | 3132 | 3431 | 3738 | 4038 | 4329 | 4922 | 4928 | 5228 | 5527 | 6827 | 6197 | 9427 | 9727 | 7029 | 7329 | 7929 |
| 211 | 42 | | 3095 | 3364 | 3693 | 3999 | 4992 | 4591 | 4898 | 5190 | 5459 | 5759 | 9058 | 9368 | 9958 | 6967 | 7267 | 7567 | 7857 |
| 216 | 43 | | 3227 | 3599 | 3885 | 4194 | 4494 | 4793 | 5092 | 5391 | 5691 | 5990 | 9290 | 6589 | 9889 | 7188 | 7480 | 7788 | 8908 |
| 221 | 44 | | 3530 | 3899 | 4127 | 4429 | 4729 | 5825 | 5394 | 5923 | 5922 | 9922 | 6521 | 9890 | 7129 | 7419 | 7719 | 8012 | 8318 |
| 226 | 45 | 1 | 3762 | 4961 | 4369 | 4959 | 4858 | 5257 | 5556 | 5855 | 9154 | 9453 | 6752 | 7952 | 7351 | 7659 | 7859 | 8240 | 0549 |
| 231 | 46 | | 3995 | 4293 | 4592 | 4891 | 5190 | 5489 | 5788 | 6087 | 9389 | 6685 | 9984 | 7283 | 7582 | 7881 | 8181 | 8480 | 0780 |
| 236 | 47 | | 4227 | 4526 | 4825 | 5123 | 5422 | 5721 | 6820 | 6318 | 9617 | 9919 | 7915 | 7514 | 7813 | 8119 | 8412 | 0711 | 9011 |
| 211 | 48 | | 4450 | 4759 | 5057 | 5366 | 5954 | 5253 | 9252 | 9550 | 6849 | 7148 | 7447 | 7746 | 8046 | 0344 | 8643 | 8942 | 9241 |
| 246 | 48 | | 4993 | 4991 | 5299 | 5588 | 5889 | 9185 | 9484 | 9702 | 7081 | 7380 | 7678 | 7977 | 8279 | 8575 | 0874 | 9173 | 9472 |
| 251 | 58 | 1 | 4996 | 5224 | 6529 | 5829 | 9119 | 9417 | 6719 | 7014 | 7313 | 7611 | 7910 | 8209 | 8507 | 8809 | 9105 | 8404 | 9703 |
| 256 | 51 | | 6159 | 5457 | 5755 | 6053 | 6351 | 9949 | 9948 | 7249 | 7545 | 7843 | 8142 | 8440 | 8739 | 9037 | 9336 | 9635 | 9934 |
| 261 | 52 | 1 (2) | 5391 | 5989 | 5987 | 9285 | 9584 | 6882 | 7180 | 7470 | 7776 | 8075 | 8373 | 8972 | 8970 | 9269 | 9567 | 8896 | 0195 |
| 266 | 53 | | 6624 | 5922 | 6920 | 6518 | 6816 | 7114 | 7412 | 7710 | 8009 | 8387 | 8605 | 8993 | 9202 | 9500 | 9799 | 0097 | 9396 |
| 271 | 54 | | 5857 | 9155 | 9453 | 9751 | 7049 | 7347 | 7644 | 7942 | 8241 | 8539 | 8837 | 9136 | 9433 | 9732 | 0030 | 0328 | 0627 |
| 276 | 55 | 1 (2) | 9090 | 6388 | 9689 | 6983 | 7281 | 7579 | 7877 | 8175 | 0473 | 8771 | 9069 | 9397 | 9665 | 9963 | 0291 | 0560 | 0858 |
| 281 | 56 | | 6393 | 6921 | 6919 | 7216 | 7514 | 7811 | 8109 | 8407 | 8706 | 9903 | 9301 | 9599 | 9897 | 0195 | 0493 | 0791 | 1089 |
| 286 | 57 | | 6557 | 9864 | 7161 | 7449 | 7746 | 8944 | 8342 | 8639 | 8937 | 9235 | 9533 | 9030 | 0128 | 9429 | 0724 | 1922 | 1320 |
| 291 | 58 | | 6720 | 7887 | 7384 | 7982 | 7979 | 8977 | 8674 | 0872 | 9169 | 9467 | 9765 | 0092 | 0390 | 8958 | 0956 | 1254 | 1562 |
| 296 | 59 | | 7823 | 7320 | 7917 | 7915 | 8212 | 8599 | 8887 | 9194 | 9401 | 9999 | 9997 | 0294 | 8692 | 9890 | 1187 | 1485 | 1703 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 53° | Núm. |
|---|---|---|
| 0 | 0′ | 9 8185 |
| 4 | 1 | 8417 |
| 8 | 2 | 8659 |
| 12 | 3 | 8882 |
| 16 | 4 | 9115 |
| 19 | 6 | 9 2317 |
| 23 | 6 | 9580 |
| 27 | 7 | 9812 |
| 31 | 8 | 0 0946 |
| 35 | 9 | 0978 |
| 39 | 10 | 0 8511 |
| 43 | 11 | 0744 |
| 47 | 12 | 0976 |
| 61 | 13 | 1209 |
| 61 | 14 | 1442 |
| 58 | 15 | 0 1675 |
| 99 | 16 | 1908 |
| 96 | 17 | 9142 |
| 70 | 18 | 2375 |
| 74 | 19 | 2908 |
| 78 | 20 | 8 2841 |
| 62 | 21 | 3075 |
| 06 | 22 | 3308 |
| 89 | 23 | 3542 |
| 93 | 24 | 3775 |
| 97 | 25 | 6 4009 |
| 101 | 26 | 4242 |
| 105 | 27 | 4476 |
| 109 | 26 | 4710 |
| 113 | 29 | 4943 |
| 117 | 30 | 0 6177 |
| 121 | 31 | 5411 |
| 125 | 32 | 6845 |
| 128 | 33 | 5079 |
| 132 | 34 | 6113 |
| 136 | 35 | 6 6347 |
| 140 | 39 | 6581 |
| 144 | 37 | 6815 |
| 148 | 38 | 7849 |
| 152 | 39 | 7284 |
| 156 | 49 | 0 7518 |
| 190 | 41 | 7752 |
| 193 | 42 | 7287 |
| 167 | 43 | 8221 |
| 171 | 44 | 8456 |
| 175 | 46 | 8 8690 |
| 179 | 46 | 8925 |
| 183 | 47 | 8198 |
| 187 | 48 | 8394 |
| 191 | 49 | 8629 |
| 195 | 59 | 6 9694 |
| 198 | 51 | 1 6099 |
| 202 | 52 | 0334 |
| 209 | 53 | 8569 |
| 210 | 54 | 8884 |
| 214 | 65 | 1 1639 |
| 218 | 56 | 1274 |
| 229 | 57 | 1508 |
| 229 | 68 | 1744 |
| 230 | 58 | 1879 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.**

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 54° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 54° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6' | 1 | 2215 | 2511 | 2887 | 3183 | 3400 | 3696 | 3992 | 4269 | 4505 | 4882 | 5179 | 6475 | 5772 | 6069 | 6366 | 0663 | 6259 | 233 | 0' | 0 1583 |
| 6 | 1 | | 2450 | 2746 | 3042 | 3330 | 3635 | 3931 | 4227 | 4524 | 4020 | 5116 | 5413 | 5700 | 6006 | 6303 | 0522 | 6820 | 7123 | 230 | 1 | 1350 |
| 10 | 2 | | 2686 | 2981 | 3277 | 3573 | 3870 | 4160 | 4452 | 4758 | 5054 | 5361 | 5647 | 5943 | 6240 | 6537 | 6833 | 7130 | 7425 | 226 | 2 | 1118 |
| 15 | 3 | | 2921 | 3217 | 3513 | 3802 | 4105 | 4481 | 4697 | 4223 | 5289 | 5585 | 5081 | 6178 | 6474 | 6770 | 7067 | 7363 | 7060 | 222 | 3 | 9 0665 |
| 20 | 4 | | 3150 | 3452 | 3748 | 4844 | 4340 | 4635 | 4231 | 5227 | 5523 | 5819 | 6116 | 6412 | 6706 | 7004 | 7301 | 7597 | 7823 | 216 | 4 | 0653 |
| 24 | 5 | 1 | 3392 | 3688 | 3983 | 4279 | 4575 | 4070 | 5156 | 5452 | 5758 | 0054 | 6350 | 6640 | 6242 | 7238 | 7535 | 7831 | 0127 | 214 | 5 | 2 0490 |
| 29 | 6 | | 3628 | 3923 | 4219 | 4514 | 4810 | 5105 | 5401 | 5697 | 5293 | 6289 | 6584 | 6880 | 7170 | 7472 | 7769 | 8065 | 8361 | 210 | 6 | 0188 |
| 34 | 7 | | 3863 | 4159 | 4454 | 4742 | 5045 | 5340 | 5636 | 5932 | 6227 | 0523 | 8012 | 7115 | 7411 | 7707 | 8003 | 0290 | 0595 | 206 | 7 | 9955 |
| 39 | 8 | | 4829 | 4324 | 4680 | 4285 | 5200 | 5576 | 5871 | 6167 | 6462 | 0758 | 7053 | 7342 | 7645 | 7941 | 0237 | 8632 | 0828 | 202 | 8 | 9792 |
| 44 | 9 | | 4335 | 4530 | 4925 | 5220 | 5515 | 5611 | 6106 | 5402 | 6697 | 6222 | 7288 | 7584 | 7879 | 8175 | 8471 | 0766 | 2062 | 128 | 9 | 2489 |
| 49 | 10 | 1 | 4571 | 4066 | 5160 | 5456 | 5761 | 6046 | 5341 | 6636 | 6932 | 7227 | 7523 | 7016 | 0114 | 8409 | 0705 | 9000 | 2226 | 195 | 10 | 9 9256 |
| 54 | 11 | | 4806 | 5101 | 5320 | 5691 | 5986 | 6201 | 0576 | 5872 | 7167 | 7462 | 7757 | 6053 | 8348 | 8643 | 6239 | 2235 | 2530 | 121 | 11 | 2024 |
| 59 | 12 | | 5042 | 5337 | 5632 | 5927 | 6922 | 6515 | 6812 | 7107 | 7402 | 7697 | 7922 | 8287 | 8582 | 8870 | 2173 | 9462 | 2764 | 187 | 12 | 8791 |
| 64 | 13 | | 5278 | 5573 | 5868 | 6152 | 6457 | 6752 | 7047 | 7342 | 7637 | 7932 | 8227 | 6522 | 8817 | 9112 | 9408 | 9703 | 9920 | 183 | 13 | 8558 |
| 68 | 14 | 1 (2) | 6514 | 5069 | 6183 | 6328 | 0623 | 6287 | 7282 | 7577 | 7872 | 8157 | 8462 | 8757 | 9052 | 9347 | 2642 | 2237 | 0232 | 172 | 14 | 8325 |
| 73 | 15 | 1 (2) | 5750 | 6045 | 6339 | 6634 | 6928 | 7223 | 7517 | 7812 | 8107 | 8402 | 8626 | 8921 | 9286 | 9581 | 9876 | 0171 | 0466 | 175 | 15 | 9 8092 |
| 78 | 16 | | 6986 | 6281 | 6575 | 6869 | 7164 | 7458 | 7753 | 8047 | 8342 | 8637 | 0931 | 9226 | 9521 | 9816 | 8111 | 0406 | 8701 | 171 | 16 | 7858 |
| 63 | 17 | | 6223 | 6517 | 8811 | 7105 | 7329 | 7524 | 7288 | 8283 | 8577 | 8872 | 2160 | 2451 | 9756 | 8050 | 0345 | 0640 | 0235 | 167 | 17 | 7625 |
| 88 | 18 | | 6452 | 6753 | 7047 | 7341 | 7635 | 7929 | 8224 | 8518 | 8812 | 9107 | 9401 | 9596 | 2920 | 0285 | 0580 | 0674 | 1159 | 163 | 18 | 7392 |
| 93 | 19 | | 6695 | 6289 | 7283 | 7577 | 7871 | 8165 | 8459 | 8753 | 9048 | 9342 | 9636 | 9931 | 0225 | 8520 | 8814 | 1102 | 1404 | 168 | 19 | 7159 |
| 98 | 20 | 1 (2) | 6931 | 7225 | 7519 | 7813 | 8107 | 8401 | 8695 | 8989 | 9283 | 2577 | 9871 | 0166 | 0460 | 0764 | 1849 | 1343 | 1638 | 156 | 20 | 9 6225 |
| 103 | 21 | | 7158 | 7401 | 7755 | 8042 | 8343 | 8637 | 8930 | 2224 | 2510 | 9812 | 0107 | 0401 | 0095 | 0289 | 1284 | 1578 | 1872 | 152 | 21 | 6692 |
| 107 | 22 | | 7404 | 7628 | 7921 | 8285 | 8572 | 8872 | 9166 | 2460 | 9754 | 0040 | 0342 | 0636 | 0930 | 1224 | 1518 | 1813 | 2107 | 146 | 22 | 6458 |
| 112 | 23 | | 7640 | 7934 | 8227 | 8521 | 8015 | 9108 | 9402 | 9696 | 9989 | 0283 | 0577 | 0871 | 1165 | 1459 | 1753 | 2047 | 2341 | 144 | 23 | 6225 |
| 117 | 24 | | 7877 | 8170 | 8464 | 8757 | 9051 | 2344 | 9638 | 9931 | 0225 | 0519 | 0612 | 1106 | 1400 | 1004 | 1288 | 2282 | 2576 | 140 | 24 | 6991 |
| 129 | 26 | 1 (2) | 0114 | 8407 | 8700 | 8923 | 9287 | 2580 | 9873 | 0167 | 0461 | 0754 | 1848 | 1341 | 1535 | 1929 | 2223 | 2517 | 2811 | 136 | 96 | 9 5758 |
| 127 | 26 | | 8350 | 8643 | 8936 | 2222 | 2593 | 2816 | 0182 | 0403 | 0696 | 0990 | 1983 | 1577 | 1870 | 2104 | 2458 | 2751 | 3045 | 132 | 26 | 6524 |
| 132 | 27 | | 6587 | 8880 | 9173 | 2466 | 2752 | 0052 | 0345 | 0638 | 0232 | 1925 | 1519 | 1812 | 2106 | 2399 | 2693 | 9986 | 3280 | 128 | 27 | 5290 |
| 137 | 28 | | 8823 | 9116 | 9409 | 9702 | 9995 | 0288 | 0561 | 0874 | 1168 | 1461 | 1764 | 2047 | 2341 | 2834 | 2228 | 3221 | 3515 | 125 | 26 | 6057 |
| 142 | 29 | | 9060 | 9353 | 9646 | 9232 | 0231 | 0524 | 0817 | 1110 | 1483 | 1696 | 1990 | 2283 | 2576 | 2862 | 3103 | 3450 | 3750 | 121 | 29 | 4823 |
| 147 | 30 | 1 (2) | 9297 | 9520 | 2882 | 0175 | 0468 | 0761 | 1053 | 1346 | 1539 | 1932 | 2225 | 2518 | 9811 | 3105 | 3328 | 3691 | 3285 | 117 | 30 | 9 4502 |
| 151 | 31 | | 9534 | 9826 | 0119 | 0411 | 0704 | 8997 | 1290 | 1582 | 1875 | 2158 | 2461 | 2754 | 3047 | 3340 | 3633 | 3926 | 4219 | 113 | 31 | 4355 |
| 156 | 32 | | 9771 | 0063 | 0355 | 0648 | 0940 | 1233 | 1526 | 1818 | 2111 | 2404 | 2697 | 2289 | 3282 | 3576 | 3868 | 4161 | 4454 | 109 | 32 | 4121 |
| 101 | 33 | 2 | 0008 | 0300 | 0522 | 0885 | 1177 | 1469 | 1762 | 2054 | 2347 | 2640 | 9932 | 3225 | 3518 | 3811 | 4104 | 4326 | 4682 | 105 | 33 | 3887 |
| 166 | 34 | | 0245 | 0537 | 0829 | 1121 | 1413 | 1706 | 1298 | 2221 | 2583 | 2876 | 3168 | 3461 | 3753 | 4046 | 4332 | 4632 | 4224 | 101 | 34 | 3653 |
| 171 | 35 | 2 | 0402 | 0774 | 1066 | 1358 | 1650 | 1942 | 2234 | 2527 | 2819 | 3112 | 3404 | 3696 | 3989 | 4282 | 4574 | 4857 | 6160 | 97 | 35 | 9 3412 |
| 176 | 36 | | 0719 | 1011 | 1303 | 1595 | 1807 | 2179 | 2471 | 2763 | 3055 | 3348 | 3640 | 3932 | 4225 | 4517 | 4810 | 5102 | 5395 | 93 | 36 | 3185 |
| 181 | 37 | | 0956 | 1248 | 1548 | 1831 | 2123 | 2415 | 2787 | 2922 | 3291 | 3584 | 3876 | 4168 | 4460 | 4753 | 5045 | 5337 | 5030 | 69 | 37 | 2951 |
| 186 | 38 | | 1193 | 1485 | 1776 | 2068 | 2360 | 2552 | 2944 | 3236 | 3528 | 3820 | 4112 | 4404 | 4696 | 4988 | 5281 | 5573 | 6865 | 86 | 38 | 2716 |
| 191 | 39 | | 1430 | 1722 | 2013 | 2306 | 9597 | 2882 | 3180 | 3472 | 3764 | 4056 | 4348 | 4640 | 4932 | 5224 | 5516 | 5808 | 6101 | 82 | 39 | 2482 |
| 125 | 40 | 2 | 1668 | 1952 | 2251 | 2542 | 2834 | 3125 | 3417 | 3788 | 4000 | 4222 | 4584 | 4875 | 5168 | 5460 | 5759 | 6044 | 6336 | 78 | 40 | 2 2240 |
| 200 | 41 | | 1205 | 2126 | 2488 | 9779 | 3070 | 3362 | 3653 | 3945 | 4237 | 4528 | 4890 | 5112 | 5404 | 5695 | 5987 | 6279 | 6571 | 74 | 41 | 2013 |
| 205 | 42 | | 2142 | 2433 | 2725 | 3016 | 3307 | 3592 | 3820 | 4182 | 4473 | 4765 | 5055 | 5348 | 5640 | 5931 | 6223 | 6515 | 6807 | 70 | 42 | 1772 |
| 210 | 43 | | 2380 | 2671 | 2959 | 3253 | 3544 | 3836 | 4127 | 4418 | 4710 | 5001 | 5222 | 5584 | 5878 | 6167 | 6452 | 6751 | 7042 | 66 | 43 | 1544 |
| 215 | 44 | | 2617 | 2900 | 3129 | 3490 | 3781 | 4072 | 4364 | 4555 | 4946 | 5237 | 5529 | 5890 | 6119 | 6403 | 6625 | 6286 | 7278 | 62 | 44 | 1310 |
| 228 | 45 | 2 | 2855 | 3146 | 3436 | 3727 | 4018 | 4309 | 4600 | 4821 | 5102 | 5474 | 5765 | 6056 | 8348 | 6639 | 6931 | 7222 | 7514 | 58 | 45 | 9 1075 |
| 225 | 46 | | 3092 | 3383 | 3874 | 3965 | 4255 | 4546 | 4837 | 5128 | 5419 | 5710 | 6001 | 5293 | 6584 | 6875 | 7166 | 7458 | 7749 | 54 | 46 | 0840 |
| 230 | 47 | | 3330 | 3621 | 3911 | 4202 | 4423 | 4703 | 5074 | 5385 | 5656 | 5947 | 8238 | 6599 | 6820 | 7111 | 7402 | 7694 | 7985 | 61 | 47 | 0608 |
| 234 | 46 | | 3568 | 3858 | 4149 | 4439 | 4730 | 5090 | 5311 | 5602 | 5893 | 6183 | 6474 | 6765 | 7056 | 7347 | 7838 | 7229 | 8291 | 47 | 48 | 0371 |
| 239 | 42 | | 3805 | 4096 | 4386 | 4676 | 4967 | 5257 | 5548 | 5839 | 6129 | 6420 | 6711 | 7009 | 7293 | 7583 | 7874 | 8165 | 8458 | 43 | 49 | 0136 |
| 244 | 58 | 2 | 4043 | 4333 | 4624 | 4914 | 5204 | 5495 | 5785 | 6076 | 6366 | 6657 | 6947 | 7938 | 7529 | 7820 | 8110 | 8401 | 8692 | 39 | 50 | 0 9901 |
| 249 | 51 | | 4281 | 4571 | 4861 | 5151 | 5442 | 5732 | 0022 | 6313 | 6603 | 6824 | 7184 | 7475 | 7755 | 8056 | 8347 | 8637 | 8928 | 35 | 51 | 9666 |
| 264 | 62 | | 4519 | 4809 | 5099 | 5389 | 5679 | 5969 | 6252 | 6550 | 6840 | 7130 | 7421 | 7711 | 8002 | 8992 | 8583 | 8873 | 9164 | 31 | 52 | 9431 |
| 252 | 63 | | 4757 | 5047 | 5336 | 5626 | 5916 | 6206 | 6497 | 6787 | 7077 | 7367 | 7657 | 7948 | 8238 | 8529 | 8812 | 9189 | 2400 | 27 | 53 | 9196 |
| 264 | 54 | | 4995 | 5284 | 5574 | 5864 | 6154 | 6444 | 6734 | 7024 | 7314 | 7604 | 7894 | 8184 | 8475 | 8765 | 9055 | 9346 | 9636 | 23 | 64 | 8961 |
| 262 | 55 | 2 | 6233 | 5522 | 5812 | 6102 | 6391 | 6681 | 6971 | 7961 | 7551 | 7841 | 8131 | 0421 | 8711 | 9001 | 9292 | 9582 | 9872 | 19 | 55 | 0 0726 |
| 274 | 56 | 2 (3) | 5471 | 6760 | 6060 | 6339 | 0622 | 6919 | 7208 | 7428 | 7788 | 8078 | 8368 | 0658 | 8948 | 9238 | 9528 | 9818 | 0108 | 16 | 56 | 8491 |
| 279 | 67 | | 6709 | 6998 | 6288 | 6577 | 6867 | 7155 | 7445 | 7735 | 8025 | 8315 | 8605 | 8895 | 9185 | 9474 | 9765 | 0855 | 0345 | 12 | 67 | 8256 |
| 283 | 66 | | 6047 | 6236 | 6596 | 6815 | 7104 | 7394 | 7683 | 7973 | 8269 | 8559 | 8842 | 9131 | 9421 | 9711 | 0001 | 0221 | 0581 | 8 | 68 | 8091 |
| 298 | 69 | | 6185 | 6474 | 6764 | 7053 | 7342 | 7631 | 7921 | 8210 | 8500 | 8789 | 9079 | 9368 | 9658 | 9948 | 8238 | 0527 | 0817 | 4 | 52 | 7785 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg Auxiliar. | 54° | Argumento Auxiliar. 17' | 18' | 19' | 26' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 39' | 31' | 32' | 33' | Partes para segundos. | 54° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 (2) 7266 | 7653 | 7850 | 8148 | 8446 | 8742 | 9039 | 0336 | 9634 | 0931 | 0229 | 0526 | 0824 | 1121 | 1419 | 1717 | 2014 | 9 | 0' | 1 2215 |
| 6 | 1 | 7490 | 7787 | 8083 | 8381 | 8678 | 8975 | 0272 | 9569 | 9866 | 0163 | 0461 | 0758 | 1056 | 1353 | 1651 | 1048 | 2246 | 4 | 1 | 2450 |
| 10 | 2 | 7723 | 8020 | 8317 | 8614 | 8011 | 9207 | 0504 | 0802 | 0099 | 0396 | 0693 | 0990 | 1288 | 1585 | 1882 | 2180 | 2477 | 8 | 2 | 2686 |
| 15 | 3 | 7056 | 8253 | 8550 | 8847 | 9144 | 9440 | 9737 | 0834 | 0331 | 0628 | 0925 | 1222 | 1520 | 1817 | 2114 | 2412 | 2700 | 12 | 3 | 2921 |
| 20 | 4 | 6100 | 0486 | 8783 | 9080 | 9377 | 9973 | 9970 | 0267 | 0564 | 0861 | 1158 | 1455 | 1752 | 2040 | 2346 | 2643 | 2941 | 16 | 4 | 3156 |
| 25 | 5 | 1 (2) 9423 | 9720 | 9016 | 9313 | 9610 | 0996 | 0203 | 0499 | 0796 | 1093 | 1390 | 1687 | 1984 | 2281 | 2578 | 2875 | 3172 | 29 | 5 | 1 3392 |
| 29 | 9 | 6667 | 6953 | 9259 | 9545 | 0043 | 0139 | 0439 | 9732 | 1029 | 1326 | 1622 | 1919 | 2216 | 2513 | 2810 | 3107 | 3404 | 24 | 6 | 3628 |
| 34 | 7 | 0801 | 9197 | 9483 | 9779 | 0979 | 0372 | 0669 | 0965 | 1262 | 1558 | 1855 | 2151 | 2448 | 2745 | 3042 | 3330 | 3636 | 29 | 7 | 3863 |
| 30 | 9 | 9124 | 9421 | 9717 | 0013 | 0309 | 0605 | 0902 | 1198 | 1494 | 1791 | 2087 | 2384 | 2680 | 2977 | 3274 | 3571 | 3867 | 32 | 8 | 4009 |
| 44 | 9 | 9358 | 9654 | 9969 | 0249 | 9542 | 0838 | 1135 | 1431 | 1727 | 2023 | 2320 | 2616 | 2913 | 3299 | 3506 | 3803 | 4999 | 35 | 9 | 4335 |
| 49 | 19 | 1 (2) 9592 | 9888 | 0184 | 0480 | 9776 | 1072 | 1368 | 1664 | 1960 | 2256 | 2552 | 2849 | 3146 | 3442 | 3738 | 4035 | 4331 | 39 | 10 | 1 4571 |
| 54 | 11 | 9826 | 0121 | 9417 | 0713 | 1909 | 1305 | 1691 | 1897 | 2193 | 2489 | 2795 | 3081 | 3377 | 3674 | 3070 | 4267 | 4563 | 43 | 11 | 4806 |
| 59 | 12 | 2 6060 | 9355 | 0651 | 9947 | 1242 | 1538 | 1834 | 2130 | 2426 | 2722 | 3018 | 3314 | 3610 | 3906 | 4202 | 4499 | 4795 | 47 | 12 | 9042 |
| 94 | 13 | 0204 | 0580 | 0885 | 1180 | 1476 | 1771 | 2067 | 2363 | 2659 | 2055 | 3250 | 3546 | 3842 | 4138 | 4435 | 4731 | 5027 | 51 | 13 | 5278 |
| 69 | 14 | 6520 | 0823 | 1118 | 1414 | 1709 | 2005 | 2390 | 2596 | 2892 | 3187 | 3483 | 3779 | 4075 | 4371 | 4667 | 4963 | 5259 | 55 | 14 | 5514 |
| 74 | 19 | 2 6762 | 1057 | 1362 | 1647 | 1943 | 2239 | 2534 | 2829 | 3125 | 3420 | 3716 | 4012 | 4308 | 4603 | 4899 | 5195 | 5491 | 59 | 15 | 1 6750 |
| 78 | 16 | 9996 | 1291 | 1586 | 1881 | 2176 | 2472 | 2767 | 3062 | 3358 | 3653 | 3949 | 4245 | 4540 | 4836 | 5132 | 5427 | 5723 | 63 | 16 | 5986 |
| 93 | 17 | 1230 | 1525 | 1820 | 2115 | 2410 | 2795 | 3001 | 3296 | 3591 | 3886 | 4182 | 4477 | 4773 | 5068 | 5364 | 5660 | 5955 | 67 | 17 | 6223 |
| 88 | 16 | 1464 | 1759 | 2054 | 2349 | 2644 | 2939 | 3234 | 3529 | 3824 | 4120 | 4415 | 4710 | 5906 | 5301 | 5597 | 5892 | 6188 | 71 | 18 | 6459 |
| 93 | 19 | 1698 | 1993 | 2288 | 2693 | 2878 | 3172 | 3467 | 3762 | 4058 | 4353 | 4648 | 4943 | 5238 | 5534 | 5829 | 6125 | 6420 | 75 | 19 | 6695 |
| 98 | 29 | 2 1933 | 2227 | 2522 | 2817 | 3111 | 3406 | 3701 | 3996 | 4291 | 4586 | 4881 | 5176 | 5471 | 5766 | 6062 | 6357 | 6652 | 79 | 20 | 1 6931 |
| 103 | 21 | 2167 | 2461 | 2756 | 3061 | 3346 | 3640 | 3035 | 4229 | 4524 | 4819 | 5114 | 5400 | 6704 | 5999 | 6294 | 6500 | 6885 | 83 | 21 | 7168 |
| 198 | 22 | 2401 | 2696 | 2990 | 3295 | 3579 | 3874 | 4158 | 4493 | 4758 | 5052 | 5347 | 5642 | 5937 | 6232 | 6527 | 6822 | 7117 | 87 | 22 | 7404 |
| 113 | 23 | 2636 | 2939 | 3224 | 3519 | 3813 | 4107 | 4402 | 4697 | 4091 | 5286 | 5580 | 5875 | 6170 | 6465 | 6760 | 7055 | 7350 | 91 | 23 | 7641 |
| 118 | 24 | 2870 | 3164 | 3458 | 3753 | 4947 | 4341 | 4636 | 4039 | 5225 | 6510 | 6814 | 6108 | 6403 | 6698 | 6993 | 7287 | 7582 | 95 | 24 | 7877 |
| 123 | 25 | 2 3106 | 3399 | 3603 | 3907 | 4281 | 4576 | 4879 | 5164 | 5458 | 6753 | 6047 | 6342 | 6636 | 6931 | 7225 | 7520 | 7815 | 99 | 25 | 1 8114 |
| 127 | 26 | 3339 | 3633 | 3927 | 4221 | 4515 | 4809 | 5103 | 5398 | 5692 | 5986 | 6280 | 6575 | 6860 | 7164 | 7458 | 7753 | 8048 | 102 | 26 | 8350 |
| 132 | 27 | 3574 | 3869 | 4161 | 4455 | 4740 | 5043 | 5337 | 5631 | 5925 | 6220 | 6514 | 6808 | 7102 | 7397 | 7691 | 7086 | 8280 | 106 | 27 | 8587 |
| 137 | 29 | 3809 | 4102 | 4306 | 4690 | 4983 | 5277 | 5571 | 5865 | 6159 | 6453 | 6747 | 7041 | 7336 | 7630 | 7924 | 8219 | 8513 | 110 | 28 | 8824 |
| 142 | 29 | 4043 | 4337 | 4630 | 4924 | 5218 | 5511 | 5895 | 6009 | 6393 | 6687 | 6981 | 7275 | 7569 | 7863 | 8157 | 8452 | 8746 | 114 | 29 | 9060 |
| 147 | 39 | 2 4279 | 4571 | 4865 | 5158 | 5452 | 5745 | 6039 | 6333 | 6627 | 6921 | 7214 | 7508 | 7802 | 8006 | 8300 | 8685 | 8979 | 118 | 30 | 1 9297 |
| 152 | 81 | 4513 | 4906 | 5099 | 5303 | 5686 | 5080 | 6273 | 6567 | 6861 | 7154 | 7448 | 7742 | 8036 | 8330 | 8624 | 8918 | 9212 | 122 | 31 | 9534 |
| 157 | 32 | 4748 | 5041 | 5334 | 5627 | 5921 | 6214 | 6507 | 6801 | 7094 | 7388 | 7682 | 7975 | 8269 | 8563 | 8857 | 9151 | 9445 | 126 | 32 | 9771 |
| 162 | 33 | 4992 | 5276 | 5569 | 5862 | 6155 | 6448 | 6742 | 7035 | 7328 | 7622 | 7915 | 8209 | 8503 | 8796 | 9000 | 9384 | 9677 | 130 | 33 | 2 0008 |
| 167 | 34 | 5217 | 5519 | 5003 | 6996 | 6389 | 6683 | 6979 | 7269 | 7562 | 7856 | 8140 | 8443 | 8736 | 9030 | 9323 | 9617 | 9910 | 134 | 34 | 0245 |
| 172 | 35 | 2 (3) 5452 | 5745 | 9938 | 6331 | 6624 | 6917 | 7210 | 7503 | 7707 | 8090 | 8393 | 8676 | 8970 | 9263 | 9557 | 9850 | 0144 | 139 | 36 | 2 0482 |
| 176 | 39 | 9687 | 5989 | 9273 | 6566 | 6859 | 7152 | 7444 | 7738 | 8931 | 8324 | 8617 | 8910 | 0203 | 9497 | 9700 | 0083 | 0377 | 142 | 36 | 0719 |
| 181 | 37 | 9923 | 6215 | 9508 | 6891 | 7093 | 7386 | 7970 | 7972 | 9265 | 8558 | 8851 | 9144 | 9437 | 9730 | 0023 | 0317 | 0610 | 146 | 37 | 0056 |
| 186 | 38 | 9158 | 6459 | 6743 | 7035 | 7328 | 7621 | 7913 | 8206 | 8499 | 8792 | 9085 | 9378 | 9671 | 9964 | 0257 | 0550 | 0843 | 150 | 38 | 1193 |
| 101 | 39 | 6393 | 6685 | 9978 | 7270 | 7563 | 7055 | 8148 | 8440 | 8733 | 9026 | 9319 | 9611 | 9904 | 0197 | 0490 | 0783 | 1076 | 154 | 39 | 1430 |
| 196 | 40 | 2 (3) 6628 | 6920 | 7213 | 7505 | 7797 | 8090 | 8382 | 8675 | 8967 | 0269 | 9553 | 9845 | 0138 | 0431 | 0724 | 1017 | 1310 | 158 | 40 | 2 1668 |
| 201 | 41 | 6963 | 7156 | 7448 | 7749 | 9032 | 8325 | 8617 | 8900 | 0202 | 9494 | 9787 | 0079 | 0372 | 0665 | 0958 | 1250 | 1543 | 162 | 41 | 1905 |
| 206 | 42 | 7909 | 7391 | 7683 | 7975 | 0267 | 0569 | 8952 | 0144 | 9436 | 0729 | 0021 | 0313 | 0606 | 0809 | 1101 | 1494 | 1777 | 166 | 42 | 2142 |
| 211 | 43 | 7334 | 7626 | 7918 | 8210 | 8502 | 9704 | 9086 | 9378 | 9671 | 0063 | 0255 | 0547 | 0840 | 1132 | 1425 | 1717 | 2010 | 169 | 43 | 2380 |
| 216 | 44 | 7570 | 7861 | 8153 | 0445 | 0737 | 9929 | 9321 | 9613 | 9905 | 0197 | 9480 | 0792 | 1074 | 1366 | 1659 | 1951 | 2244 | 173 | 44 | 2617 |
| 221 | 45 | 2 (3) 7805 | 9997 | 8388 | 8680 | 8972 | 9264 | 9556 | 9848 | 0140 | 0432 | 0724 | 1016 | 1308 | 1600 | 1892 | 2185 | 2477 | 177 | 45 | 2 2855 |
| 225 | 45 | 8041 | 9332 | 8624 | 8015 | 0207 | 9409 | 0790 | 0082 | 0374 | 0666 | 0959 | 1250 | 1542 | 1834 | 2126 | 2419 | 2711 | 181 | 49 | 3092 |
| 230 | 47 | 0279 | 8568 | 8850 | 9151 | 9442 | 9734 | 0925 | 0317 | 0509 | 0901 | 1192 | 1484 | 1776 | 2058 | 2360 | 2652 | 2944 | 185 | 47 | 3330 |
| 235 | 48 | 9512 | 9803 | 9094 | 9386 | 9677 | 9969 | 0260 | 0552 | 9843 | 1135 | 1427 | 1719 | 2010 | 2302 | 2594 | 2886 | 3178 | 189 | 48 | 3568 |
| 240 | 49 | 0748 | 9039 | 9330 | 9621 | 9912 | 9204 | 0495 | 0787 | 1078 | 1370 | 1561 | 1953 | 2245 | 2536 | 2828 | 3120 | 3412 | 193 | 49 | 3806 |
| 245 | 50 | 2 (3) 9083 | 9274 | 9565 | 9857 | 0148 | 0439 | 9730 | 1022 | 1313 | 1604 | 1896 | 2187 | 2470 | 2771 | 3062 | 3354 | 3646 | 197 | 59 | 2 4043 |
| 250 | 51 | 9219 | 9510 | 9801 | 9092 | 0383 | 0674 | 0965 | 1256 | 1548 | 1839 | 2130 | 2422 | 2713 | 3005 | 3296 | 3588 | 3879 | 201 | 51 | 4281 |
| 255 | 52 | 9455 | 0746 | 0037 | 0327 | 0618 | 0909 | 1200 | 1491 | 1783 | 2074 | 2365 | 2656 | 2948 | 3239 | 3530 | 3822 | 4113 | 205 | 52 | 4519 |
| 260 | 53 | 9691 | 9982 | 0272 | 0563 | 0954 | 1145 | 1436 | 1727 | 2018 | 2390 | 2600 | 2891 | 3182 | 3473 | 3765 | 4056 | 4347 | 209 | 53 | 4757 |
| 265 | 54 | 9927 | 0217 | 0508 | 0799 | 1089 | 1380 | 1671 | 1962 | 2253 | 2543 | 2834 | 3125 | 3417 | 3708 | 3900 | 4200 | 4581 | 213 | 54 | 4995 |
| 270 | 55 | 3 9163 | 0453 | 0744 | 1034 | 1325 | 1915 | 1909 | 2197 | 2480 | 2778 | 3069 | 3360 | 3651 | 3942 | 4233 | 4524 | 4815 | 217 | 55 | 2 5233 |
| 274 | 56 | 0399 | 0699 | 0979 | 1270 | 1560 | 1851 | 2141 | 2432 | 2723 | 3013 | 3304 | 3595 | 3886 | 4177 | 4468 | 4750 | 5049 | 221 | 99 | 5471 |
| 279 | 97 | 9635 | 0925 | 1215 | 1596 | 1796 | 2086 | 2377 | 2667 | 2958 | 3248 | 3539 | 3830 | 4120 | 4411 | 4702 | 4903 | 5284 | 225 | 57 | 9790 |
| 284 | 58 | 0871 | 1191 | 1451 | 1741 | 2031 | 2322 | 2612 | 2902 | 3193 | 3483 | 3774 | 4064 | 4355 | 4646 | 4935 | 5227 | 5518 | 229 | 58 | 5947 |
| 289 | 59 | 1107 | 1397 | 1687 | 1977 | 2267 | 2557 | 2847 | 3138 | 3428 | 3718 | 4000 | 4299 | 4590 | 4880 | 5171 | 6461 | 6752 | 233 | 59 | 9165 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 55° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 55° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 (3) 6424 | 8713 | 7902 | 7291 | 7580 | 7869 | 8158 | 8448 | 8737 | 9026 | 9316 | 9605 | 9895 | 9184 | 0474 | 0783 | 1853 | 236 | 6' | 8 7558 |
| 5 | 1 | 6662 | 6951 | 7240 | 7829 | 7818 | 8107 | 8396 | 8685 | 8974 | 9264 | 9553 | 9842 | 0132 | 9421 | 0711 | 1000 | 1290 | 233 | 1 | 7314 |
| 10 | 2 | 6900 | 7189 | 7478 | 7767 | 8056 | 8344 | 8534 | 8923 | 9212 | 9501 | 9790 | 0079 | 8309 | 0658 | 0947 | 1237 | 1526 | 222 | 2 | 7079 |
| 14 | 3 | 7139 | 7427 | 7718 | 8005 | 8294 | 8582 | 8871 | 9150 | 2449 | 9738 | 0027 | 0316 | 0505 | 0895 | 1184 | 1473 | 1763 | 225 | 3 | 6844 |
| 19 | 4 | 7377 | 7666 | 7954 | 8243 | 8532 | 8820 | 9109 | 2398 | 9687 | 9976 | 0264 | 0553 | 9843 | 1132 | 1421 | 1710 | 1992 | 221 | 4 | 6608 |
| 24 | 6 | 2 (3) 7516 | 7904 | 8192 | 8481 | 8778 | 9058 | 9347 | 9635 | 2924 | 0213 | 0502 | 0791 | 1080 | 1369 | 1658 | 1947 | 2236 | 217 | 5 | 8 6372 |
| 29 | 6 | 7854 | 8142 | 8431 | 8719 | 9098 | 9296 | 9585 | 2873 | 0152 | 0450 | 0739 | 1028 | 1317 | 1606 | 1895 | 2184 | 2472 | 213 | 6 | 6137 |
| 33 | 7 | 6093 | 8381 | 8669 | 8957 | 9246 | 9534 | 9822 | 0111 | 0399 | 0688 | 0977 | 1265 | 1534 | 1843 | 2131 | 2420 | 2709 | 209 | 7 | 8901 |
| 38 | 8 | 8331 | 8619 | 8907 | 9196 | 2484 | 9772 | 0050 | 8349 | 0637 | 0926 | 1214 | 1502 | 1791 | 2080 | 2388 | 2857 | 2946 | 205 | 6 | 5668 |
| 43 | 9 | 8570 | 8858 | 9146 | 9434 | 9722 | 0019 | 9298 | 0587 | 0875 | 1163 | 1451 | 1740 | 2028 | 2317 | 2695 | 2824 | 3183 | 201 | 2 | 5429 |
| 48 | 10 | 2 (3) 8809 | 9097 | 9384 | 9672 | 9960 | 0248 | 0536 | 0824 | 1113 | 1401 | 1589 | 1277 | 2266 | 2554 | 2842 | 3131 | 3419 | 127 | 16 | 8 6194 |
| 62 | 11 | 9048 | 9335 | 9623 | 9911 | 9199 | 0486 | 0774 | 1062 | 1350 | 1639 | 1927 | 2215 | 2503 | 2791 | 3080 | 3368 | 3856 | 123 | 11 | 4250 |
| 57 | 12 | 9286 | 9574 | 9862 | 0149 | 9437 | 0725 | 1013 | 1300 | 1588 | 1876 | 2164 | 2452 | 2740 | 3029 | 3317 | 3605 | 3893 | 189 | 12 | 4722 |
| 62 | 13 | 9525 | 9813 | 0100 | 0388 | 0675 | 9953 | 1251 | 1638 | 1826 | 2114 | 2402 | 2690 | 2978 | 3260 | 3554 | 3842 | 4130 | 185 | 13 | 4486 |
| 87 | 14 | 2764 | 0051 | 0339 | 0626 | 0214 | 1201 | 1489 | 1777 | 2064 | 2352 | 2640 | 2927 | 3215 | 3503 | 3791 | 4079 | 4367 | 181 | 14 | 4250 |
| 72 | 15 | 3 0003 | 0290 | 0578 | 0865 | 1152 | 1440 | 1727 | 2015 | 2302 | 2590 | 2877 | 3165 | 3453 | 3741 | 4028 | 4316 | 4694 | 177 | 15 | 8 4014 |
| 76 | 16 | 9242 | 0529 | 0816 | 1104 | 1391 | 1678 | 1965 | 2253 | 2540 | 2828 | 3115 | 3403 | 3690 | 3978 | 4266 | 4554 | 4841 | 173 | 16 | 3777 |
| 81 | 17 | 0481 | 0768 | 1055 | 1342 | 1629 | 1917 | 2203 | 2491 | 2778 | 3066 | 3353 | 3641 | 3928 | 4216 | 4503 | 4721 | 5079 | 109 | 17 | 3541 |
| 86 | 18 | 0720 | 1097 | 1294 | 1581 | 1868 | 2155 | 2442 | 2729 | 3017 | 3304 | 3591 | 3878 | 4166 | 4453 | 4741 | 5928 | 5316 | 166 | 16 | 3385 |
| 91 | 19 | 0960 | 1246 | 1533 | 1820 | 2107 | 2394 | 2681 | 2968 | 3255 | 3542 | 3829 | 4116 | 4403 | 4691 | 4978 | 5266 | 6553 | 162 | 19 | 3062 |
| 95 | 20 | 3 1199 | 1485 | 1772 | 2059 | 2346 | 2632 | 2919 | 3208 | 3493 | 3780 | 4967 | 4354 | 4641 | 4928 | 5216 | 5503 | 5790 | 168 | 20 | 8 2832 |
| 100 | 21 | 1438 | 1725 | 2011 | 2298 | 2584 | 2871 | 3158 | 3444 | 3731 | 4018 | 4305 | 4592 | 4879 | 5166 | 5453 | 5749 | 6028 | 154 | 21 | 2690 |
| 105 | 22 | 1677 | 1964 | 2250 | 2537 | 2823 | 3119 | 3396 | 3683 | 3970 | 4256 | 4543 | 4830 | 5117 | 5404 | 5691 | 5978 | 5265 | 159 | 22 | 2359 |
| 110 | 23 | 1917 | 2203 | 2489 | 2776 | 3062 | 3348 | 3635 | 3922 | 4208 | 4495 | 4781 | 5068 | 5355 | 5642 | 5929 | 6216 | 6502 | 146 | 23 | 2123 |
| 114 | 24 | 2156 | 2442 | 2728 | 3915 | 3391 | 3587 | 3874 | 4169 | 4447 | 4733 | 5920 | 5306 | 5593 | 5880 | 6166 | 6453 | 6740 | 142 | 24 | 1880 |
| 119 | 25 | 3 2396 | 2682 | 2968 | 3254 | 3540 | 3826 | 4112 | 4399 | 4685 | 4971 | 5258 | 5544 | 5831 | 6117 | 6404 | 6691 | 6977 | 138 | 26 | 8 1658 |
| 124 | 26 | 2635 | 2921 | 3207 | 3493 | 3779 | 4065 | 4351 | 4637 | 4924 | 5210 | 5496 | 5783 | 6069 | 5355 | 6642 | 0928 | 7215 | 134 | 26 | 1413 |
| 129 | 27 | 2875 | 3169 | 3446 | 3732 | 4018 | 4304 | 4590 | 4876 | 5162 | 5448 | 5735 | 6021 | 6307 | 6593 | 6880 | 7166 | 7453 | 130 | 27 | 1176 |
| 134 | 28 | 3114 | 3409 | 3586 | 3971 | 4257 | 4543 | 4829 | 5115 | 5491 | 5687 | 5973 | 6259 | 6545 | 6831 | 7118 | 7404 | 7690 | 126 | 28 | 0940 |
| 138 | 29 | 3354 | 3649 | 3925 | 4211 | 4496 | 4782 | 5068 | 8354 | 5640 | 5925 | 6211 | 6497 | 6783 | 7070 | 7356 | 7642 | 7928 | 122 | 29 | 0703 |
| 143 | 39 | 3 3594 | 3879 | 4165 | 4450 | 4736 | 5921 | 5307 | 5593 | 5878 | 6164 | 6450 | 6736 | 7022 | 7308 | 7594 | 7889 | 8166 | 118 | 30 | 8 0466 |
| 148 | 31 | 3833 | 4119 | 4404 | 4689 | 4975 | 5260 | 5546 | 5832 | 6117 | 6103 | 6688 | 6974 | 7269 | 7546 | 7832 | 8118 | 8404 | 114 | 31 | 0229 |
| 153 | 32 | 4073 | 4358 | 4644 | 4929 | 5214 | 5599 | 5785 | 6971 | 6356 | 6641 | 6927 | 7213 | 7498 | 7784 | 8070 | 8356 | 8642 | 119 | 32 | 7 9992 |
| 157 | 33 | 4313 | 4598 | 4883 | 5158 | 5454 | 5739 | 6024 | 8310 | 6595 | 6880 | 7166 | 7451 | 7737 | 8922 | 8308 | 8594 | 8879 | 106 | 33 | 9755 |
| 162 | 34 | 4553 | 4838 | 5123 | 5408 | 5693 | 5978 | 6263 | 6549 | 6834 | 7119 | 7404 | 7699 | 7975 | 8261 | 8546 | 8832 | 9117 | 192 | 34 | 9518 |
| 167 | 35 | 3 4793 | 5078 | 5363 | 5647 | 5932 | 6217 | 6592 | 6788 | 7073 | 7358 | 7643 | 7928 | 8214 | 8499 | 8784 | 9970 | 9355 | 22 | 35 | 7 9281 |
| 172 | 35 | 5033 | 5318 | 5502 | 5887 | 6172 | 6457 | 6742 | 7027 | 7312 | 7597 | 7882 | 8167 | 8452 | 8737 | 9023 | 9308 | 9593 | 95 | 36 | 9044 |
| 176 | 37 | 6273 | 5558 | 5842 | 6127 | 6412 | 6696 | 6981 | 7266 | 7551 | 7836 | 8121 | 8496 | 8591 | 8976 | 9261 | 9546 | 9832 | 91 | 37 | 6607 |
| 181 | 38 | 3 (4) 5513 | 5798 | 6982 | 6367 | 6551 | 6936 | 7220 | 7595 | 7790 | 8078 | 8360 | 8644 | 8929 | 9214 | 9499 | 9785 | 0970 | 87 | 36 | 8570 |
| 186 | 39 | 6753 | 6038 | 6322 | 6006 | 6891 | 7175 | 7460 | 7744 | 8029 | 8314 | 8598 | 8883 | 2168 | 9453 | 2736 | 9923 | 0308 | 83 | 39 | 8332 |
| 191 | 49 | 3 (4) 5993 | 6278 | 6562 | 6846 | 7130 | 7415 | 7699 | 7984 | 8258 | 8553 | 8837 | 9122 | 9407 | 9692 | 9976 | 0261 | 0546 | 79 | 40 | 7 8098 |
| 195 | 41 | 6234 | 5518 | 6802 | 7085 | 7370 | 7654 | 7939 | 8223 | 8508 | 8792 | 9078 | 2361 | 9646 | 9930 | 0215 | 8500 | 0784 | 75 | 41 | 7858 |
| 200 | 42 | 6474 | 6758 | 7042 | 7326 | 7619 | 7894 | 8178 | 8463 | 8747 | 9931 | 9316 | 9600 | 9884 | 9169 | 0454 | 0738 | 1923 | 71 | 42 | 7620 |
| 295 | 43 | 6714 | 6998 | 7282 | 7566 | 7850 | 8134 | 8418 | 8792 | 8986 | 9270 | 9555 | 9839 | 0123 | 9498 | 0692 | 0977 | 1261 | 67 | 43 | 7383 |
| 219 | 44 | 6955 | 7238 | 7622 | 7805 | 8090 | 8374 | 8658 | 8942 | 9226 | 9519 | 9794 | 9078 | 0362 | 0646 | 0931 | 1215 | 1509 | 63 | 44 | 7145 |
| 215 | 45 | 3 (4) 7195 | 7479 | 7762 | 8046 | 8336 | 8613 | 8897 | 9181 | 9465 | 9749 | 0033 | 0317 | 0601 | 9885 | 1170 | 1454 | 1738 | 89 | 48 | 7 0998 |
| 219 | 46 | 7435 | 7719 | 8002 | 8286 | 8570 | 8853 | 9137 | 9421 | 9705 | 9988 | 0272 | 6556 | 0840 | 1124 | 1408 | 1692 | 1977 | 65 | 46 | 8670 |
| 224 | 47 | 7676 | 7959 | 8243 | 8526 | 8810 | 9093 | 9377 | 9660 | 9944 | 0228 | 0512 | 0795 | 1079 | 1363 | 1647 | 1931 | 2215 | 51 | 47 | 6432 |
| 229 | 46 | 7917 | 8200 | 8483 | 8766 | 9050 | 9333 | 9617 | 9900 | 9184 | 0467 | 0751 | 1935 | 1318 | 1502 | 1886 | 2170 | 2454 | 47 | 48 | 6195 |
| 234 | 49 | 8157 | 8440 | 8723 | 9997 | 9290 | 9573 | 9856 | 0140 | 0423 | 9707 | 0990 | 1274 | 1558 | 1841 | 2126 | 2409 | 2692 | 43 | 49 | 5957 |
| 236 | 59 | 3 (4) 6398 | 8681 | 8964 | 9247 | 9530 | 9813 | 0096 | 0380 | 0653 | 0946 | 1230 | 1513 | 1727 | 2080 | 2364 | 2547 | 2931 | 39 | 60 | 7 5719 |
| 243 | 81 | 8639 | 8921 | 9294 | 9487 | 9770 | 0053 | 0336 | 0620 | 9903 | 1186 | 1469 | 1753 | 2936 | 2319 | 2603 | 2886 | 3170 | 35 | 51 | 5481 |
| 246 | 82 | 8879 | 9162 | 9445 | 9728 | 0011 | 0293 | 0576 | 0859 | 1142 | 1425 | 1709 | 1992 | 2278 | 2559 | 2842 | 3125 | 3409 | 32 | 52 | 5243 |
| 283 | 53 | 2120 | 2403 | 9685 | 9968 | 0251 | 0534 | 0817 | 1099 | 1382 | 1665 | 1948 | 2231 | 2515 | 2798 | 3081 | 3364 | 3648 | 28 | 83 | 5005 |
| 287 | 54 | 9351 | 9643 | 9926 | 0209 | 0491 | 0774 | 1057 | 1339 | 1622 | 1205 | 2188 | 2471 | 2754 | 3037 | 3320 | 3603 | 3887 | 24 | 54 | 4767 |
| 262 | 55 | 3 (4) 9602 | 9884 | 0167 | 0449 | 0732 | 1914 | 1297 | 1579 | 1862 | 2145 | 2428 | 2711 | 2993 | 3276 | 3559 | 3842 | 4126 | 26 | 55 | 7 4522 |
| 267 | 66 | 9843 | 0125 | 0407 | 8890 | 0972 | 1265 | 1537 | 1820 | 2102 | 2385 | 2667 | 2250 | 3233 | 3516 | 3799 | 4081 | 4365 | 16 | 66 | 4291 |
| 272 | 67 | 4 8984 | 0368 | 9648 | 0930 | 1213 | 1495 | 1777 | 2060 | 2342 | 2625 | 2907 | 3190 | 3472 | 3755 | 4038 | 4321 | 4604 | 12 | 57 | 4053 |
| 277 | 56 | 8325 | 0607 | 0889 | 1171 | 1453 | 1735 | 2018 | 2300 | 2682 | 2865 | 3147 | 3430 | 3712 | 3995 | 4277 | 4560 | 4843 | 6 | 58 | 3815 |
| 281 | 89 | 8566 | 0848 | 1130 | 1412 | 1894 | 1976 | 2258 | 2540 | 2622 | 3105 | 3387 | 3069 | 3982 | 4234 | 4517 | 4799 | 5082 | 4 | 59 | 3576 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 55° | Argumento Auxiliar. | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 38' | 31' | 32' | 33' | Partes para segundos. | 55° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 3 | 1343 | 1633 | 1223 | 2213 | 2503 | 2793 | 3083 | 3373 | 3663 | 3951 | 4914 | 4534 | 1824 | 5115 | 5405 | 5696 | 5986 | 8 | 0' | 2 6424 |
| 5 | 1 | | 1580 | 1869 | 2159 | 9449 | 2739 | 3029 | 3319 | 3609 | 3899 | 4189 | 1479 | 4769 | 5059 | 5350 | 5640 | 5930 | 6221 | 4 | 1 | 6662 |
| 10 | 2 | | 1816 | 2105 | 2325 | 2685 | 2974 | 3261 | 3654 | 3844 | 4134 | 4424 | 4711 | 5084 | 5294 | 5584 | 6875 | 6165 | 6455 | 8 | 9 | 6900 |
| 14 | 3 | | 2052 | 2342 | 2631 | 2921 | 3210 | 3500 | 3790 | 4080 | 4369 | 4639 | 4949 | 5239 | 5529 | 5819 | 6109 | 6399 | 6689 | 12 | 3 | 7139 |
| 19 | 4 | | 2289 | 2578 | 2867 | 3157 | 3446 | 3736 | 4025 | 4315 | 4605 | 4895 | 5184 | 5474 | 5764 | 6051 | 6344 | 6634 | 6924 | 16 | 4 | 7377 |
| 24 | 5 | 3 | 2325 | 2814 | 3104 | 3393 | 3689 | 3972 | 4261 | 4561 | 4840 | 6130 | 5420 | 5709 | 5999 | 6289 | 6579 | 6869 | 7158 | 20 | 5 | 2 7616 |
| 29 | 6 | | 2762 | 3851 | 3340 | 3629 | 3918 | 4908 | 4497 | 4786 | 5076 | 5365 | 5655 | 5914 | 6234 | 6524 | 6814 | 7103 | 7393 | 24 | 6 | 7854 |
| 34 | 7 | | 2998 | 3987 | 3576 | 3865 | 4154 | 4444 | 4733 | 5092 | 5311 | 5601 | 5890 | 6180 | 6469 | 6759 | 7048 | 7338 | 7628 | 28 | 7 | 8093 |
| 38 | 8 | | 3235 | 3594 | 3813 | 4101 | 4398 | 4680 | 4969 | 5958 | 5547 | 5836 | 6126 | 6415 | 6704 | 6994 | 7983 | 7573 | 7862 | 32 | 8 | 8331 |
| 43 | 9 | | 3471 | 3760 | 4049 | 4338 | 4627 | 4916 | 5905 | 5494 | 5783 | 6072 | 6361 | 6650 | 6939 | 7229 | 7518 | 7808 | 8097 | 36 | 9 | 8370 |
| 48 | 10 | 3 | 3788 | 3997 | 4285 | 4574 | 4863 | 5152 | 8441 | 5729 | 6018 | 6307 | 6597 | 6886 | 7175 | 7464 | 7753 | 8043 | 8332 | 40 | 10 | 2 8809 |
| 63 | 11 | | 3946 | 4233 | 4592 | 4810 | 5029 | 5388 | 5677 | 5965 | 6234 | 6543 | 6832 | 7121 | 7410 | 7699 | 7988 | 8277 | 8567 | 41 | 11 | 9048 |
| 67 | 12 | | 4182 | 4470 | 4758 | 5047 | 5335 | 5624 | 5913 | 6201 | 6490 | 6779 | 7068 | 7356 | 7645 | 7934 | 8223 | 8512 | 8802 | 48 | 12 | 9286 |
| 69 | 13 | | 4418 | 4707 | 4995 | 5283 | 5572 | 5860 | 6149 | 6437 | 6726 | 7015 | 7303 | 7592 | 7881 | 8170 | 8458 | 8747 | 9036 | 52 | 13 | 9525 |
| 67 | 14 | | 4666 | 4243 | 5232 | 5520 | 5808 | 6096 | 6385 | 6673 | 6969 | 7250 | 7539 | 7828 | 8116 | 8405 | 8694 | 8982 | 9271 | 56 | 14 | 9764 |
| 72 | 15 | 3 | 4892 | 5188 | 5468 | 5756 | 6045 | 6333 | 6621 | 6909 | 7198 | 7486 | 7775 | 8063 | 8352 | 8640 | 8929 | 9218 | 9506 | 60 | 15 | 3 0003 |
| 77 | 16 | | 6129 | 5417 | 5705 | 5993 | 6281 | 6569 | 6857 | 7146 | 7434 | 7792 | 8018 | 8299 | 8587 | 8876 | 9164 | 9153 | 9741 | 64 | 16 | 0242 |
| 81 | 17 | | 5366 | 6654 | 5942 | 6230 | 6518 | 6806 | 7094 | 7382 | 7670 | 7958 | 8246 | 8535 | 8823 | 9111 | 9400 | 9688 | 9976 | 68 | 17 | 0481 |
| 86 | 18 | 3 (4) | 6603 | 5821 | 6179 | 6466 | 6754 | 7042 | 7330 | 7618 | 7906 | 8194 | 8482 | 8770 | 9058 | 9347 | 9635 | 9923 | 0212 | 72 | 18 | 0720 |
| 91 | 12 | | 6040 | 6128 | 6416 | 6703 | 6991 | 7279 | 7566 | 7864 | 8142 | 8430 | 8718 | 9006 | 9294 | 9582 | 9870 | 0159 | 0447 | 76 | 19 | 0960 |
| 96 | 20 | 3 (4) | 6878 | 6365 | 6653 | 6948 | 7228 | 7515 | 7803 | 8091 | 8378 | 8666 | 8954 | 9242 | 9530 | 9818 | 0106 | 0394 | 0682 | 80 | 20 | 3 1199 |
| 181 | 21 | | 6315 | 6602 | 6898 | 7177 | 7464 | 7769 | 8039 | 8397 | 8615 | 8902 | 9190 | 9478 | 2766 | 0053 | 0341 | 0629 | 0917 | 84 | 21 | 1438 |
| 105 | 22 | | 6552 | 6839 | 7127 | 7414 | 7701 | 7988 | 8276 | 8563 | 8851 | 9138 | 9496 | 9714 | 0001 | 0289 | 0577 | 0863 | 1153 | 88 | 22 | 1677 |
| 110 | 23 | | 6789 | 7077 | 7364 | 7651 | 7938 | 8295 | 8512 | 8800 | 9087 | 9375 | 9662 | 9950 | 0237 | 0525 | 0813 | 1100 | 1388 | 92 | 23 | 1917 |
| 115 | 24 | | 7027 | 7314 | 7601 | 7888 | 8175 | 8462 | 8749 | 9036 | 9324 | 9611 | 9898 | 0186 | 0473 | 0761 | 1048 | 1336 | 1623 | 96 | 24 | 9156 |
| 120 | 25 | 3 (4) | 7264 | 7561 | 7838 | 0196 | 8412 | 8699 | 8986 | 9273 | 9560 | 9847 | 0135 | 0422 | 0709 | 0996 | 1284 | 1571 | 1859 | 100 | 25 | 3 2396 |
| 124 | 26 | | 7502 | 7788 | 8075 | 8362 | 8649 | 8936 | 9223 | 9510 | 9797 | 0084 | 0371 | 0658 | 0915 | 1232 | 1520 | 1807 | 2094 | 104 | 96 | 2635 |
| 129 | 27 | | 7739 | 0826 | 8312 | 8599 | 8886 | 9173 | 9459 | 9746 | 0033 | 0320 | 0687 | 0894 | 1181 | 1468 | 1756 | 9043 | 2330 | 108 | 27 | 2876 |
| 134 | 20 | | 7977 | 8963 | 8560 | 8836 | 9123 | 9410 | 9696 | 9983 | 0270 | 0557 | 0843 | 1130 | 1417 | 1704 | 1991 | 2278 | 2566 | 112 | 28 | 3114 |
| 139 | 29 | | 8214 | 8501 | 8787 | 9073 | 9360 | 9647 | 9933 | 0920 | 0506 | 8793 | 1080 | 1367 | 1653 | 1940 | 2227 | 2514 | 2801 | 116 | 29 | 3354 |
| 144 | 30 | 3 (4) | 0452 | 8738 | 9024 | 9311 | 9597 | 9884 | 0170 | 0456 | 0743 | 1030 | 1316 | 1603 | 1890 | 2176 | 9463 | 2760 | 3037 | 120 | 30 | 3 3591 |
| 148 | 31 | | 0690 | 8976 | 9962 | 9548 | 9834 | 0121 | 0407 | 0693 | 0980 | 1266 | 1553 | 1039 | 2126 | 2413 | 2699 | 2986 | 3273 | 121 | 31 | 3834 |
| 153 | 32 | | 0927 | 9213 | 9492 | 9786 | 0072 | 0358 | 0644 | 0930 | 1916 | 1503 | 1789 | 2076 | 2369 | 2649 | 2935 | 3292 | 3509 | 128 | 32 | 4073 |
| 158 | 33 | | 9165 | 9451 | 2737 | 0023 | 0309 | 0595 | 0881 | 1167 | 1453 | 1740 | 2026 | 2312 | 2599 | 2805 | 3171 | 3458 | 3744 | 132 | 33 | 4313 |
| 163 | 34 | | 9403 | 9689 | 9975 | 8260 | 0546 | 0839 | 1118 | 1404 | 1690 | 1976 | 2262 | 2549 | 2836 | 3121 | 3407 | 3694 | 3980 | 136 | 34 | 4553 |
| 167 | 35 | 3 (4) | 9641 | 9927 | 0912 | 0498 | 0784 | 1069 | 1355 | 1641 | 1927 | 2213 | 9499 | 2785 | 3071 | 3357 | 3644 | 3930 | 4216 | 140 | 35 | 3 4793 |
| 172 | 36 | | 9879 | 8164 | 0450 | 0736 | 1021 | 1387 | 1592 | 1878 | 2164 | 2450 | 2736 | 3022 | 3308 | 3894 | 3880 | 4166 | 4452 | 144 | 36 | 5·33 |
| 177 | 37 | 4 | 0117 | 8402 | 0688 | 0973 | 1259 | 1544 | 1830 | 2115 | 2401 | 2687 | 2973 | 3958 | 3544 | 3830 | 4116 | 4402 | 4688 | 148 | 37 | 5273 |
| 189 | 38 | | 8355 | 0640 | 8925 | 1211 | 1496 | 1782 | 2067 | 2353 | 2638 | 2924 | 3209 | 3495 | 3781 | 4067 | 4353 | 4638 | 4921 | 152 | 38 | 5513 |
| 187 | 39 | | 0593 | 0878 | 1163 | 1448 | 1734 | 2019 | 2304 | 9598 | 2876 | 3161 | 3446 | 3732 | 4017 | 4303 | 4589 | 4875 | 5161 | 156 | 39 | 5753 |
| 121 | 48 | 4 | 0831 | 1116 | 1401 | 1686 | 1971 | 2287 | 2542 | 2827 | 3112 | 3398 | 3683 | 3969 | 4254 | 4540 | 4825 | 5111 | 5397 | 168 | 40 | 3 5993 |
| 196 | 41 | | 1069 | 1364 | 1639 | 1924 | 2902 | 2494 | 2779 | 3864 | 3350 | 3635 | 3920 | 4205 | 4491 | 4776 | 5062 | 5347 | 6633 | 161 | 41 | 6234 |
| 201 | 42 | | 1307 | 1592 | 1877 | 2162 | 2447 | 2732 | 3017 | 3302 | 3587 | 3872 | 4157 | 4442 | 4728 | 5013 | 5298 | 5504 | 5869 | 168 | 42 | 6474 |
| 286 | 43 | | 1516 | 1830 | 2115 | 2400 | 2684 | 2969 | 3254 | 3539 | 3824 | 4109 | 4394 | 4679 | 4964 | 5260 | 5335 | 5820 | 6106 | 172 | 43 | 6714 |
| 211 | 44 | | 1784 | 2060 | 2353 | 2638 | 2922 | 3207 | 3492 | 3777 | 4061 | 4346 | 4631 | 4916 | 5901 | 5486 | 5771 | 6057 | 6342 | 176 | 44 | 6955 |
| 215 | 48 | 4 | 2022 | 2307 | 2591 | 2876 | 3160 | 3445 | 3729 | 4814 | 4999 | 4584 | 4868 | 5183 | 5438 | 5723 | 6008 | 6293 | 6578 | 180 | 45 | 3 7195 |
| 220 | 46 | | 2261 | 2545 | 2829 | 3114 | 3398 | 3683 | 3967 | 4252 | 4536 | 4891 | 5106 | 5390 | 5676 | 5960 | 6248 | 6530 | 6815 | 184 | 40 | 7435 |
| 226 | 47 | | 2499 | 2783 | 3068 | 3362 | 3636 | 3920 | 4205 | 4489 | 4774 | 5058 | 5343 | 5627 | 5912 | 6197 | 6182 | 6766 | 7081 | 188 | 47 | 7676 |
| 230 | 48 | | 2738 | 3822 | 3306 | 3590 | 3074 | 4158 | 4443 | 4797 | 5011 | 5996 | 5888 | 6865 | 6149 | 6434 | 6718 | 7003 | 7288 | 122 | 48 | 7917 |
| 234 | 49 | | 2976 | 3960 | 3544 | 3898 | 4112 | 4396 | 4680 | 4965 | 6249 | 5533 | 5817 | 6102 | 6386 | 6671 | 6955 | 7240 | 7524 | 196 | 49 | 8157 |
| 239 | 50 | 4 | 3218 | 3499 | 3783 | 4067 | 4350 | 4634 | 4910 | 5202 | 5486 | 5771 | 6055 | 6339 | 6623 | 6908 | 7192 | 7477 | 7761 | 200 | 50 | 3 8398 |
| 244 | 61 | | 3453 | 3737 | 4021 | 4308 | 4509 | 4872 | 5156 | 5440 | 5724 | 6008 | 6292 | 6676 | 6861 | 7146 | 7429 | 7713 | 7998 | 204 | 51 | 8639 |
| 249 | 52 | | 3699 | 3976 | 4959 | 4543 | 4827 | 8110 | 5394 | 6678 | 5962 | 6246 | 6530 | 6814 | 7028 | 7382 | 7666 | 7950 | 8234 | 208 | 62 | 8879 |
| 254 | 53 | | 3931 | 4214 | 4498 | 4781 | 5066 | 5349 | 5632 | 5916 | 6200 | 6483 | 6767 | 7051 | 7335 | 7619 | 7903 | 8187 | 8471 | 212 | 53 | 9120 |
| 258 | 54 | | 4170 | 4453 | 4736 | 5028 | 5383 | 6587 | 5878 | 6154 | 6437 | 6721 | 7005 | 7289 | 7572 | 7856 | 8140 | 8424 | 0708 | 216 | 54 | 9361 |
| 263 | 58 | 4 | 4409 | 4692 | 4975 | 5258 | 5542 | 5828 | 6108 | 6392 | 6675 | 6952 | 7242 | 7526 | 7818 | 8093 | 8377 | 8661 | 8946 | 220 | 58 | 3 9602 |
| 268 | 86 | | 4647 | 4931 | 5214 | 5497 | 5780 | 6063 | 6346 | 6638 | 6913 | 7197 | 7480 | 7764 | 8847 | 8331 | 8614 | 8898 | 9182 | 224 | 56 | 9843 |
| 273 | 67 | | 4866 | 5169 | 5462 | 6738 | 6818 | 6381 | 6585 | 6868 | 7151 | 7434 | 7718 | 8001 | 8285 | 8568 | 8862 | 9135 | 9419 | 228 | 67 | 4 0084 |
| 277 | 68 | | 5125 | 5488 | 5691 | 5974 | 6257 | 6540 | 6823 | 7106 | 7389 | 7672 | 7956 | 8239 | 8522 | 8806 | 9889 | 9372 | 9656 | 231 | 58 | 0325 |
| 282 | 69 | | 5364 | 5647 | 6938 | 6213 | 6495 | 6778 | 7061 | 7344 | 7627 | 7918 | 8193 | 8477 | 8760 | 9843 | 9326 | 9610 | 9893 | 235 | 59 | 0566 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente . . . . y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 56° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 0897 | 1089 | 1371 | 1652 | 1934 | 2216 | 2428 | 2780 | 3962 | 3345 | 3697 | 3909 | 4191 | 4474 | 4756 | 5038 | 5321 |
| 5 | 1 | | 1048 | 1330 | 1612 | 1993 | 2175 | 2457 | 2739 | 3021 | 3303 | 3585 | 3867 | 4149 | 4431 | 4713 | 4296 | 5278 | 5560 |
| 9 | 2 | | 1289 | 1571 | 1853 | 2134 | 2416 | 2620 | 2979 | 3261 | 3543 | 3825 | 4107 | 4389 | 4671 | 4953 | 5235 | 5517 | 5799 |
| 14 | 3 | | 1531 | 1812 | 2094 | 2375 | 2657 | 2938 | 3920 | 3502 | 3783 | 4065 | 4347 | 4629 | 4011 | 5123 | 5475 | 5757 | 6639 |
| 19 | 4 | | 1772 | 2053 | 2335 | 2616 | 2897 | 3179 | 3450 | 3742 | 4024 | 4305 | 4587 | 4869 | 5151 | 5132 | 5714 | 5996 | 6278 |
| 23 | 5 | 4 | 2013 | 2995 | 2576 | 2857 | 3138 | 3429 | 3701 | 3083 | 4264 | 4516 | 4827 | 5109 | 5300 | 5672 | 5954 | 6236 | 6518 |
| 28 | 6 | | 2255 | 2536 | 2817 | 3098 | 3379 | 3660 | 3942 | 4223 | 4504 | 4786 | 5087 | 5349 | 5630 | 5912 | 6124 | 6475 | 6757 |
| 32 | 7 | | 2496 | 2777 | 3058 | 3339 | 3620 | 3201 | 4182 | 4464 | 4745 | 5096 | 5308 | 5589 | 5870 | 6152 | 6433 | 6715 | 6997 |
| 37 | 8 | | 2738 | 3019 | 3292 | 3580 | 3861 | 4142 | 4423 | 4704 | 4985 | 5267 | 5548 | 5820 | 6110 | 6322 | 6673 | 6955 | 7236 |
| 42 | 9 | | 2979 | 3960 | 3541 | 3822 | 4102 | 4383 | 4664 | 4945 | 5226 | 5507 | 5788 | 6062 | 6351 | 6632 | 6213 | 7194 | 7476 |
| 46 | 19 | 4 | 3221 | 3501 | 3782 | 4063 | 4343 | 4624 | 4905 | 5186 | 5467 | 5748 | 6029 | 6310 | 6591 | 6879 | 7153 | 7434 | 7715 |
| 51 | 11 | | 3463 | 3743 | 4023 | 4304 | 4585 | 4865 | 5146 | 5427 | 5797 | 5988 | 6269 | 6550 | 6831 | 7112 | 7393 | 7674 | 7955 |
| 56 | 12 | | 3704 | 3985 | 4265 | 4545 | 4826 | 5106 | 5387 | 5667 | 5948 | 6299 | 6500 | 6790 | 7071 | 7352 | 7633 | 7914 | 8195 |
| 60 | 13 | | 3946 | 4296 | 4507 | 4787 | 5067 | 5347 | 5698 | 5908 | 6189 | 6469 | 6750 | 7031 | 7311 | 7522 | 7873 | 8154 | 8435 |
| 65 | 14 | | 4188 | 4468 | 4748 | 5028 | 5308 | 5589 | 5869 | 6149 | 6439 | 6719 | 6991 | 7971 | 7552 | 7832 | 8113 | 8394 | 8674 |
| 70 | 15 | 4 | 4430 | 4710 | 4990 | 5270 | 5550 | 5830 | 6110 | 6390 | 6671 | 6051 | 7231 | 7512 | 7792 | 8073 | 8353 | 8634 | 8914 |
| 74 | 16 | | 4672 | 4951 | 5231 | 5511 | 5791 | 6071 | 6351 | 6631 | 6911 | 7192 | 7472 | 7752 | 8033 | 8313 | 8593 | 8874 | 9154 |
| 79 | 17 | | 4914 | 5193 | 5473 | 5753 | 6033 | 6312 | 6592 | 6872 | 7152 | 7432 | 7713 | 7993 | 8273 | 8553 | 8834 | 9114 | 9394 |
| 84 | 18 | | 5156 | 5435 | 5715 | 5294 | 6974 | 6534 | 6834 | 7113 | 7393 | 7673 | 7053 | 8233 | 8513 | 8724 | 0074 | 9354 | 9634 |
| 88 | 12 | | 5398 | 5677 | 5957 | 6236 | 6516 | 6795 | 7075 | 7355 | 7635 | 7914 | 8194 | 8474 | 8754 | 9034 | 9314 | 0524 | 0874 |
| 93 | 26 | 4 (5) | 5640 | 5912 | 6198 | 6478 | 6757 | 7037 | 7316 | 7596 | 7876 | 8155 | 8435 | 8715 | 8995 | 9275 | 2554 | 9834 | 0115 |
| 97 | 21 | | 5882 | 6161 | 6440 | 6720 | 6990 | 7278 | 7558 | 7837 | 8117 | 8396 | 8676 | 8956 | 0235 | 9515 | 9795 | 0075 | 0355 |
| 109 | 22 | | 6124 | 6403 | 6682 | 6961 | 7241 | 7520 | 7799 | 8079 | 8358 | 8637 | 8917 | 2196 | 9476 | 0756 | 0035 | 0315 | 0595 |
| 197 | 93 | | 6366 | 6645 | 6924 | 7203 | 7482 | 7761 | 8041 | 8320 | 8522 | 8878 | 0158 | 9437 | 9717 | 9996 | 0276 | 0555 | 9835 |
| 111 | 24 | | 6608 | 6887 | 7166 | 7445 | 7724 | 8003 | 8282 | 8561 | 8840 | 9190 | 9399 | 0678 | 9958 | 0237 | 0516 | 0796 | 1075 |
| 116 | 25 | 4 (5) | 6851 | 7129 | 7408 | 7687 | 7966 | 8245 | 8594 | 8803 | 9982 | 9361 | 9649 | 9919 | 0198 | 0478 | 0757 | 1036 | 1316 |
| 121 | 26 | | 7093 | 7372 | 7650 | 7029 | 8208 | 8486 | 8765 | 0944 | 9323 | 9602 | 9881 | 0160 | 0439 | 0718 | 0298 | 1277 | 1556 |
| 125 | 27 | | 7336 | 7614 | 7892 | 8171 | 8450 | 8728 | 9007 | 9286 | 9565 | 9843 | 0129 | 9461 | 0689 | 0959 | 1938 | 1517 | 1797 |
| 130 | 28 | | 7578 | 7856 | 8135 | 8413 | 8699 | 8970 | 9949 | 9527 | 9806 | 0085 | 9364 | 0642 | 0991 | 1909 | 1479 | 1758 | 2037 |
| 135 | 99 | | 7820 | 8099 | 8377 | 8655 | 8934 | 9912 | 9491 | 9769 | 0048 | 0326 | 6605 | 0884 | 1162 | 1441 | 1720 | 1999 | 2278 |
| 139 | 30 | 4 (5) | 8063 | 8341 | 8619 | 8897 | 9176 | 9454 | 9732 | 9911 | 0282 | 0568 | 9846 | 1125 | 1403 | 1682 | 1961 | 2239 | 2518 |
| 144 | 31 | | 8306 | 8584 | 8862 | 9140 | 2418 | 9696 | 9974 | 9252 | 9531 | 0809 | 1087 | 1366 | 1645 | 1923 | 2202 | 9480 | 9759 |
| 149 | 32 | | 8548 | 8826 | 9104 | 9389 | 9660 | 9938 | 0216 | 0494 | 9772 | 1051 | 1329 | 1607 | 1886 | 2164 | 9443 | 2721 | 3000 |
| 153 | 33 | | 8791 | 9069 | 9346 | 9624 | 0902 | 0180 | 0458 | 6736 | 1914 | 1292 | 1579 | 1849 | 2127 | 9405 | 2684 | 2962 | 3240 |
| 158 | 34 | | 9034 | 9311 | 2582 | 9867 | 0144 | 0422 | 0700 | 0978 | 1256 | 1534 | 1812 | 2090 | 2368 | 2646 | 9995 | 3203 | 3481 |
| 162 | 35 | 4 (5) | 9976 | 9554 | 9831 | 0109 | 0387 | 0664 | 0942 | 1220 | 1498 | 1776 | 2053 | 2331 | 2609 | 2887 | 3166 | 3444 | 3722 |
| 167 | 36 | | 9519 | 9797 | 0974 | 0351 | 0629 | 0907 | 1184 | 1462 | 1740 | 2017 | 2995 | 2573 | 2851 | 3129 | 3407 | 3685 | 3963 |
| 172 | 37 | | 9769 | 0039 | 0317 | 0594 | 0871 | 1149 | 1426 | 1704 | 1981 | 2259 | 2537 | 2814 | 3929 | 3370 | 3648 | 3926 | 4204 |
| 176 | 38 | 5 | 6005 | 0282 | 0559 | 0837 | 1114 | 1391 | 1669 | 1946 | 2223 | 2501 | 2778 | 3056 | 3334 | 3611 | 3889 | 4167 | 4445 |
| 181 | 39 | | 6248 | 0595 | 0802 | 1079 | 1356 | 1633 | 1911 | 2188 | 2465 | 2743 | 3020 | 3298 | 3575 | 3853 | 4130 | 4408 | 4686 |
| 185 | 40 | 5 | 0491 | 0768 | 1045 | 1322 | 1599 | 1876 | 9153 | 2130 | 2707 | 2985 | 3262 | 3539 | 3817 | 4094 | 4372 | 4649 | 4927 |
| 190 | 41 | | 6734 | 1011 | 1288 | 1564 | 1841 | 2118 | 2395 | 2672 | 2040 | 3927 | 3504 | 3781 | 4058 | 4336 | 4613 | 4890 | 5168 |
| 195 | 49 | | 0977 | 1254 | 1530 | 1807 | 2084 | 2361 | 2638 | 2915 | 3191 | 3469 | 3746 | 4023 | 4360 | 4577 | 4854 | 5139 | 5100 |
| 200 | 43 | | 1920 | 1497 | 1773 | 2050 | 2327 | 2603 | 2880 | 3157 | 3434 | 3711 | 3988 | 4265 | 4542 | 4819 | 5006 | 5373 | 5650 |
| 204 | 44 | | 1464 | 1740 | 2016 | 2293 | 2569 | 9846 | 3122 | 3399 | 3676 | 3953 | 4230 | 4596 | 4783 | 5060 | 5337 | 5614 | 5821 |
| 209 | 45 | 5 | 1707 | 1983 | 2259 | 9536 | 2819 | 3088 | 3365 | 3642 | 3918 | 4195 | 4472 | 4748 | 5095 | 5302 | 5579 | 5856 | 6133 |
| 213 | 46 | | 1950 | 9226 | 2502 | 2779 | 3055 | 3331 | 3608 | 3884 | 4160 | 4437 | 4714 | 4929 | 5967 | 5544 | 5820 | 6097 | 6374 |
| 218 | 47 | | 2193 | 2469 | 2745 | 3029 | 3998 | 3574 | 3850 | 4126 | 4403 | 4679 | 4956 | 5232 | 5509 | 5785 | 6062 | 6339 | 6615 |
| 223 | 48 | | 2437 | 2713 | 2989 | 3965 | 3541 | 3817 | 4093 | 4369 | 4645 | 4922 | 5198 | 5474 | 5751 | 6097 | 6304 | 6580 | 6857 |
| 227 | 49 | | 2680 | 2956 | 3232 | 3508 | 3784 | 4068 | 4336 | 4619 | 4888 | 5164 | 5449 | 5716 | 5993 | 6969 | 6545 | 6822 | 7098 |
| 232 | 60 | 5 | 2924 | 3199 | 3475 | 3751 | 4027 | 4302 | 4578 | 4854 | 5130 | 5106 | 5682 | 5958 | 6235 | 6511 | 6787 | 7063 | 7340 |
| 237 | 51 | | 3167 | 3443 | 3718 | 3094 | 4270 | 4545 | 4821 | 5027 | 5373 | 5649 | 5995 | 6201 | 6477 | 6753 | 7029 | 7305 | 7581 |
| 241 | 52 | | 3411 | 3686 | 3962 | 4237 | 4513 | 4788 | 5064 | 5340 | 5615 | 5891 | 6167 | 6443 | 6719 | 6995 | 7971 | 7547 | 7893 |
| 246 | 68 | | 3654 | 3930 | 4205 | 4480 | 4756 | 5031 | 5307 | 5589 | 5858 | 6134 | 6409 | 6685 | 6961 | 7237 | 7513 | 7788 | 8065 |
| 251 | 54 | | 3898 | 4173 | 4448 | 4724 | 4990 | 5974 | 5550 | 5825 | 6101 | 6376 | 6652 | 6927 | 7203 | 7479 | 7754 | 8030 | 8306 |
| 255 | 55 | 6 | 4142 | 4417 | 4692 | 4967 | 5242 | 5517 | 5723 | 6068 | 6343 | 8619 | 6894 | 7170 | 7445 | 7721 | 7997 | 8279 | 8548 |
| 260 | 56 | | 4385 | 4660 | 4935 | 5910 | 5485 | 5761 | 6036 | 6311 | 6586 | 6861 | 7137 | 7412 | 7688 | 7963 | 8939 | 8514 | 8790 |
| 265 | 67 | | 4629 | 4904 | 5172 | 5454 | 5722 | 6004 | 6270 | 6554 | 6899 | 7104 | 7379 | 7655 | 7930 | 8205 | 8481 | 8756 | 9032 |
| 269 | 58 | | 4873 | 5148 | 5492 | 5697 | 5972 | 6247 | 6592 | 6797 | 7072 | 7347 | 7622 | 7897 | 8172 | 8447 | 8723 | 8998 | 9973 |
| 274 | 59 | | 5117 | 5392 | 5666 | 5941 | 6215 | 6490 | 6765 | 7049 | 7315 | 7590 | 7865 | 8140 | 8415 | 8690 | 8965 | 0240 | 0515 |

Núm. II para la suma corregida de alturas.

| Partes para segundos. | 56° | Núm. |
|---|---|---|
| 239 | 0' | 7 3338 |
| 235 | 1 | 3100 |
| 231 | 2 | 2861 |
| 228 | 3 | 2693 |
| 224 | 4 | 2384 |
| 220 | 5 | 7 2145 |
| 216 | 5 | 1907 |
| 212 | 7 | 1669 |
| 208 | 9 | 1430 |
| 204 | 9 | 1191 |
| 269 | 10 | 7 0952 |
| 196 | 11 | 0714 |
| 102 | 12 | 0475 |
| 188 | 13 | 0236 |
| 184 | 14 | 6 9907 |
| 180 | 15 | 6 9758 |
| 176 | 16 | 9512 |
| 172 | 17 | 2280 |
| 168 | 18 | 9940 |
| 164 | 12 | 8801 |
| 160 | 20 | 6 8562 |
| 156 | 21 | 8323 |
| 152 | 22 | 8083 |
| 118 | 23 | 7814 |
| 144 | 24 | 7604 |
| 140 | 25 | 6 7365 |
| 136 | 26 | 7125 |
| 132 | 27 | 6886 |
| 128 | 28 | 6646 |
| 124 | 29 | 6406 |
| 190 | 30 | 6 6166 |
| 116 | 31 | 5927 |
| 112 | 32 | 5687 |
| 108 | 33 | 5447 |
| 104 | 34 | 5207 |
| 100 | 35 | 6 4967 |
| 96 | 36 | 4727 |
| 92 | 37 | 4487 |
| 88 | 38 | 4247 |
| 84 | 39 | 4007 |
| 89 | 40 | 6 3766 |
| 76 | 41 | 3526 |
| 72 | 42 | 3286 |
| 68 | 43 | 3045 |
| 64 | 44 | 2805 |
| 69 | 45 | 6 2564 |
| 56 | 46 | 9324 |
| 52 | 47 | 2083 |
| 48 | 48 | 1843 |
| 44 | 49 | 1609 |
| 40 | 50 | 6 1361 |
| 36 | 51 | 1121 |
| 39 | 52 | 0880 |
| 98 | 53 | 0639 |
| 24 | 54 | 0398 |
| 29 | 55 | 6 0157 |
| 16 | 56 | 5 0916 |
| 12 | 57 | 9675 |
| 8 | 58 | 9434 |
| 4 | 59 | 9193 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | **Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 56° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 56° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 (5) 5664 | 5806 | 6169 | 6451 | 6734 | 7017 | 7300 | 7582 | 7865 | 8148 | 8431 | 8714 | 8997 | 9280 | 9564 | 9847 | 0136 | 0 | 0' | 4 0007 |
| 5 | 1 | 5843 | 6125 | 6408 | 6690 | 6273 | 7255 | 7538 | 7821 | 8103 | 8386 | 8669 | 8952 | 9235 | 9518 | 9801 | 0084 | 0367 | 4 | 1 | 1048 |
| 9 | 2 | 6082 | 6364 | 6646 | 6929 | 7211 | 7494 | 7776 | 8052 | 8342 | 8624 | 8907 | 9190 | 9473 | 9756 | 0038 | 0321 | 0604 | 8 | 2 | 1290 |
| 14 | 3 | 6321 | 6603 | 6885 | 7168 | 7450 | 7732 | 0015 | 8297 | 8580 | 8862 | 9146 | 9428 | 9710 | 9993 | 0276 | 0559 | 0842 | 12 | 3 | 1531 |
| 19 | 4 | 6560 | 6842 | 7124 | 7407 | 7689 | 7971 | 8253 | 8536 | 8818 | 9101 | 9383 | 9666 | 9948 | 0231 | 0514 | 0796 | 1079 | 16 | 4 | 1772 |
| 23 | 6 | 4 (5) 6799 | 7001 | 7363 | 7645 | 7928 | 8210 | 0492 | 8774 | 9056 | 9339 | 9621 | 9901 | 0186 | 0469 | 0751 | 1034 | 1316 | 20 | 5 | 4 2613 |
| 28 | 6 | 7039 | 7321 | 7603 | 7884 | 8166 | 8448 | 8731 | 9013 | 9295 | 9577 | 9859 | 0112 | 0424 | 0706 | 0989 | 1271 | 1554 | 24 | 6 | 2265 |
| 33 | 7 | 7278 | 7560 | 7842 | 8124 | 8105 | 8687 | 8969 | 9251 | 9533 | 9815 | 0097 | 0380 | 0662 | 0944 | 1226 | 1509 | 1791 | 28 | 7 | 2496 |
| 37 | 8 | 7518 | 7799 | 8081 | 8363 | 8614 | 8926 | 9208 | 9490 | 9772 | 0054 | 0336 | 0618 | 0900 | 1182 | 1464 | 1716 | 2029 | 32 | 0 | 2738 |
| 42 | 9 | 7767 | 8039 | 8320 | 8602 | 8883 | 9165 | 9447 | 9728 | 0010 | 0222 | 0574 | 0856 | 1138 | 1420 | 1702 | 1984 | 2266 | 36 | 9 | 2979 |
| 47 | 10 | 4 (5) 7997 | 8278 | 8559 | 8841 | 9122 | 9404 | 9685 | 9967 | 0249 | 0530 | 0812 | 1094 | 1376 | 1658 | 1940 | 2222 | 2504 | 40 | 10 | 4 3221 |
| 61 | 11 | 8236 | 8518 | 8799 | 9080 | 9361 | 9643 | 9924 | 0206 | 0487 | 0769 | 1051 | 1332 | 1614 | 1896 | 2178 | 2460 | 2741 | 44 | 11 | 3463 |
| 56 | 12 | 8476 | 8757 | 9038 | 9319 | 9601 | 9882 | 0163 | 0446 | 0726 | 1007 | 1289 | 1571 | 1852 | 2134 | 2416 | 2697 | 2979 | 48 | 12 | 3704 |
| 61 | 13 | 8716 | 8997 | 9278 | 9569 | 9040 | 0121 | 0402 | 0683 | 0965 | 1246 | 1527 | 1809 | 2090 | 2372 | 2654 | 2935 | 3217 | 53 | 13 | 3916 |
| 65 | 14 | 8955 | 9236 | 9517 | 9798 | 0079 | 0360 | 0641 | 0922 | 1203 | 1405 | 1766 | 2047 | 2329 | 2610 | 2892 | 3173 | 3456 | 67 | 14 | 4188 |
| 70 | 16 | 4 (5) 9195 | 9476 | 9757 | 0037 | 0318 | 0599 | 6880 | 1161 | 1442 | 1723 | 2004 | 2286 | 2567 | 2848 | 3130 | 3411 | 3692 | 61 | 15 | 4 4430 |
| 74 | 16 | 9435 | 9715 | 9996 | 0277 | 0558 | 0838 | 1119 | 1400 | 1681 | 1962 | 2243 | 2524 | 2805 | 3086 | 3368 | 3649 | 3930 | 65 | 16 | 4672 |
| 79 | 17 | 2675 | 9956 | 0236 | 0516 | 0797 | 1070 | 1358 | 1639 | 1920 | 2201 | 2482 | 2763 | 3044 | 3325 | 3606 | 3887 | 4168 | 69 | 17 | 4914 |
| 84 | 18 | 9915 | 0195 | 0475 | 0756 | 1036 | 1317 | 1598 | 1878 | 2159 | 2440 | 2720 | 3001 | 3282 | 3563 | 3844 | 4126 | 4406 | 73 | 18 | 5156 |
| 88 | 19 | 5 0155 | 0435 | 0716 | 0925 | 1276 | 1556 | 1837 | 2117 | 2398 | 2678 | 2959 | 3240 | 3521 | 3801 | 4082 | 4363 | 4614 | 77 | 19 | 5398 |
| 93 | 20 | 5 0395 | 0675 | 0955 | 1235 | 1515 | 1796 | 2076 | 2356 | 2637 | 2917 | 3198 | 3478 | 3759 | 4040 | 4321 | 4601 | 4882 | 81 | 20 | 4 5640 |
| 98 | 21 | 0636 | 0915 | 1125 | 1476 | 1755 | 2035 | 2315 | 2596 | 2876 | 3156 | 3437 | 3717 | 3998 | 4270 | 4559 | 4840 | 5120 | 85 | 21 | 6882 |
| 102 | 22 | 0875 | 1155 | 1435 | 1714 | 1995 | 2275 | 2565 | 2835 | 3115 | 3395 | 3676 | 3956 | 1236 | 4517 | 4797 | 5078 | 5358 | 89 | 22 | 6124 |
| 107 | 23 | 1115 | 1395 | 1674 | 1954 | 2234 | 2514 | 2794 | 3074 | 3354 | 3634 | 3915 | 4195 | 1475 | 4755 | 5036 | 5316 | 5597 | 93 | 23 | 6366 |
| 112 | 24 | 1355 | 1635 | 1914 | 2194 | 2474 | 2754 | 3034 | 3313 | 3593 | 3873 | 4154 | 1434 | 4714 | 4994 | 5274 | 5554 | 6835 | 97 | 24 | 6608 |
| 116 | 25 | 5 1595 | 1875 | 2154 | 2434 | 2714 | 2993 | 3273 | 3553 | 3833 | 4113 | 4393 | 4672 | 4952 | 5233 | 5513 | 5793 | 6073 | 161 | 25 | 4 6861 |
| 121 | 26 | 1836 | 2115 | 2394 | 2674 | 2953 | 3233 | 3513 | 3792 | 4072 | 4352 | 4632 | 4911 | 5191 | 5471 | 6751 | 6031 | 6311 | 105 | 26 | 7093 |
| 126 | 27 | 2076 | 2355 | 2634 | 2914 | 3193 | 3473 | 3752 | 4632 | 4311 | 4591 | 4871 | 5150 | 5430 | 5710 | 5990 | 6270 | 6550 | 109 | 27 | 7336 |
| 130 | 28 | 2316 | 2695 | 2875 | 3154 | 3433 | 3712 | 3992 | 4271 | 4551 | 4830 | 5110 | 5389 | 5669 | 5949 | 6228 | 6508 | 6788 | 113 | 28 | 7578 |
| 135 | 29 | 2557 | 2836 | 3115 | 3394 | 3673 | 3952 | 4231 | 4511 | 4790 | 5070 | 5349 | 5628 | 5908 | 6188 | 6467 | 6747 | 7027 | 117 | 29 | 7820 |
| 140 | 30 | 5 2727 | 3076 | 3355 | 3634 | 3913 | 4192 | 4471 | 4750 | 5030 | 5309 | 5588 | 5868 | 6147 | 6426 | 6706 | 6985 | 7265 | 121 | 30 | 4 0063 |
| 144 | 31 | 3038 | 3316 | 3525 | 3074 | 4153 | 4432 | 4711 | 4990 | 5269 | 5548 | 5828 | 6107 | 6386 | 6665 | 6945 | 7224 | 7504 | 125 | 31 | 0306 |
| 149 | 32 | 3278 | 3557 | 3836 | 4114 | 1393 | 4672 | 4951 | 5230 | 5509 | 5788 | 6067 | 6346 | 6625 | 6904 | 7184 | 7463 | 7742 | 129 | 32 | 8548 |
| 154 | 33 | 3519 | 3727 | 4076 | 4365 | 4633 | 4912 | 5121 | 6469 | 5748 | 6027 | 6306 | 6585 | 6864 | 7143 | 7422 | 7702 | 7981 | 133 | 33 | 8791 |
| 158 | 34 | 3759 | 4038 | 4316 | 4595 | 4873 | 5152 | 5431 | 5709 | 5988 | 6267 | 6546 | 6824 | 7103 | 7382 | 7661 | 7940 | 8219 | 137 | 34 | 9034 |
| 163 | 35 | 5 4000 | 1278 | 4557 | 4035 | 5114 | 5392 | 5671 | 5949 | 6228 | 6566 | 6785 | 7064 | 7343 | 7621 | 7900 | 8179 | 8458 | 141 | 35 | 4 9276 |
| 167 | 36 | 4241 | 4519 | 4797 | 5076 | 5354 | 5632 | 5911 | 6189 | 6468 | 6746 | 7025 | 7303 | 7582 | 7861 | 8139 | 8118 | 8697 | 145 | 36 | 9519 |
| 172 | 37 | 4402 | 4760 | 6038 | 5316 | 5594 | 5872 | 6151 | 6429 | 6707 | 6986 | 7264 | 7543 | 7821 | 8100 | 0378 | 8657 | 8236 | 150 | 37 | 9762 |
| 177 | 38 | 4722 | 5000 | 5278 | 5556 | 5834 | 6113 | 6391 | 6669 | 6947 | 7225 | 7604 | 7782 | 8060 | 8339 | 8618 | 8896 | 2175 | 154 | 38 | 5 0005 |
| 101 | 39 | 4963 | 5241 | 5519 | 6797 | 6075 | 6353 | 6631 | 6909 | 7107 | 7465 | 7743 | 8022 | 8300 | 8578 | 8857 | 9136 | 9414 | 150 | 39 | 0248 |
| 186 | 40 | 5 5204 | 5402 | 5760 | 6037 | 6315 | 6593 | 6871 | 7149 | 7427 | 7705 | 7983 | 8261 | 8539 | 8818 | 9096 | 9374 | 2653 | 162 | 40 | 6 0491 |
| 191 | 41 | 6445 | 5723 | 6000 | 6278 | 6556 | 6834 | 7111 | 7389 | 7667 | 7945 | 8223 | 8501 | 8779 | 9057 | 9335 | 9613 | 2892 | 166 | 41 | 0734 |
| 195 | 42 | 5 (6) 5686 | 5964 | 6241 | 6519 | 6726 | 7074 | 7362 | 7629 | 7967 | 8185 | 8463 | 8740 | 9018 | 9296 | 9574 | 9853 | 0131 | 170 | 42 | 0977 |
| 200 | 43 | 5927 | 6205 | 6482 | 6759 | 7037 | 7314 | 7592 | 7869 | 8147 | 8425 | 8702 | 8980 | 9250 | 9536 | 9814 | 0092 | 0370 | 174 | 43 | 1220 |
| 205 | 44 | 6169 | 6446 | 6723 | 7000 | 7277 | 7556 | 7832 | 0110 | 8307 | 8665 | 8942 | 9220 | 9498 | 9776 | 0063 | 0331 | 0609 | 178 | 44 | 1464 |
| 209 | 45 | 5 (6) 6410 | 6687 | 6964 | 7241 | 7518 | 7795 | 8073 | 8350 | 8627 | 8905 | 9182 | 9460 | 9737 | 0015 | 0293 | 0570 | 0848 | 182 | 45 | 6 1707 |
| 214 | 46 | 6651 | 6928 | 7205 | 7482 | 7759 | 8036 | 8313 | 8590 | 8868 | 9145 | 9422 | 9700 | 9977 | 0255 | 0532 | 0810 | 1087 | 186 | 46 | 1950 |
| 219 | 47 | 6892 | 7169 | 7446 | 7723 | 8000 | 8277 | 8554 | 0831 | 9108 | 9385 | 9662 | 9940 | 0217 | 0494 | 0772 | 1049 | 1327 | 190 | 47 | 2193 |
| 223 | 40 | 7133 | 7410 | 7687 | 7964 | 0240 | 8517 | 8721 | 9071 | 9348 | 9625 | 9902 | 0179 | 0457 | 0734 | 1011 | 1289 | 1566 | 194 | 48 | 2437 |
| 220 | 49 | 7375 | 7651 | 7928 | 8205 | 8481 | 8768 | 2035 | 9312 | 9589 | 9865 | 0142 | 0412 | 0697 | 0974 | 1251 | 1528 | 1805 | 198 | 49 | 2680 |
| 233 | 50 | 5 (6) 7616 | 7893 | 8169 | 8446 | 8722 | 8999 | 9275 | 9552 | 9825 | 0106 | 0383 | 0660 | 0936 | 1213 | 1490 | 1768 | 2045 | 202 | 60 | 6 2924 |
| 237 | 51 | 7857 | 8134 | 8410 | 8687 | 8963 | 2240 | 9516 | 2793 | 0069 | 0346 | 0623 | 0900 | 1176 | 1453 | 1730 | 2007 | 2284 | 206 | 51 | 3167 |
| 242 | 52 | 8099 | 8376 | 8651 | 8928 | 9201 | 9480 | 2757 | 0033 | 0310 | 0586 | 0063 | 1140 | 1416 | 1693 | 1970 | 2247 | 2524 | 210 | 62 | 3411 |
| 247 | 53 | 8341 | 8617 | 8893 | 9169 | 9445 | 9721 | 9990 | 0274 | 0650 | 0827 | 1103 | 1380 | 1656 | 1933 | 2210 | 2486 | 2763 | 214 | 53 | 3654 |
| 251 | 54 | 8582 | 8858 | 9134 | 9410 | 9686 | 2962 | 0238 | 0515 | 0791 | 1067 | 1344 | 1620 | 1896 | 2173 | 2450 | 2726 | 3003 | 210 | 64 | 3898 |
| 256 | 55 | 5 (6) 8824 | 9100 | 9375 | 9651 | 9927 | 0203 | 0479 | 0755 | 1032 | 1308 | 1584 | 1060 | 2137 | 2413 | 2689 | 2266 | 3249 | 222 | 55 | 6 4142 |
| 260 | 56 | 9065 | 9341 | 9617 | 9893 | 0168 | 0444 | 0720 | 0996 | 1272 | 1548 | 1024 | 2101 | 2377 | 2653 | 2929 | 3206 | 3482 | 226 | 56 | 4385 |
| 265 | 57 | 2307 | 9583 | 9858 | 0134 | 0410 | 0685 | 0961 | 1237 | 1513 | 1789 | 2065 | 2341 | 2617 | 2893 | 3169 | 3446 | 3722 | 230 | 67 | 4629 |
| 270 | 58 | 9549 | 9824 | 0100 | 0375 | 0651 | 0927 | 1262 | 1478 | 1754 | 2030 | 2305 | 2581 | 2857 | 3133 | 3409 | 3685 | 3962 | 234 | 68 | 4873 |
| 274 | 59 | 9721 | 0066 | 0341 | 0617 | 0892 | 1168 | 1443 | 1719 | 1925 | 2270 | 2546 | 2822 | 3090 | 3374 | 3649 | 3926 | 4201 | 238 | 59 | 5117 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 57° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos | 57° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 5 | 5361 | 5635 | 5910 | 6184 | 6459 | 6733 | 7008 | 7283 | 7558 | 7832 | 8107 | 8282 | 8657 | 8932 | 9207 | 2482 | 9757 | 242 | 0' | 5 6282 |
| 5 | 1 | | 5605 | 5879 | 6154 | 6428 | 6702 | 6977 | 7251 | 7526 | 7801 | 8075 | 8350 | 8625 | 8900 | 9174 | 9449 | 9724 | 9999 | 238 | 1 | 8716 |
| 9 | 2 | 5 (6) | 5849 | 6123 | 6397 | 6672 | 6946 | 7220 | 7495 | 7769 | 8044 | 8318 | 8593 | 8867 | 9142 | 9417 | 9692 | 9960 | 0241 | 234 | 2 | 8462 |
| 14 | 3 | | 6093 | 6367 | 6641 | 6915 | 7189 | 7464 | 7738 | 8012 | 8287 | 8561 | 8836 | 9110 | 9385 | 9659 | 9934 | 0209 | 0483 | 230 | 3 | 8226 |
| 18 | 4 | | 6337 | 6611 | 6885 | 7159 | 7433 | 7707 | 7981 | 8256 | 8530 | 8804 | 9079 | 9353 | 9627 | 9902 | 0176 | 0451 | 0726 | 226 | 4 | 7287 |
| 23 | 5 | 5 (6) | 6581 | 6855 | 7129 | 7403 | 7677 | 7951 | 8225 | 8499 | 8773 | 9047 | 9322 | 9596 | 9870 | 0145 | 0412 | 0693 | 0968 | 222 | 5 | 5 7745 |
| 27 | 6 | | 6825 | 7099 | 7373 | 7647 | 7921 | 8194 | 8468 | 8742 | 9016 | 9290 | 9565 | 9839 | 0113 | 0387 | 0661 | 0936 | 1210 | 218 | 6 | 7504 |
| 32 | 7 | | 7070 | 7343 | 7617 | 7891 | 8164 | 8438 | 8712 | 8986 | 9260 | 9534 | 9808 | 0082 | 0356 | 0630 | 0904 | 1178 | 1452 | 214 | 7 | 7262 |
| 36 | 8 | | 7314 | 7588 | 7861 | 8135 | 8108 | 8682 | 8955 | 9229 | 9503 | 9777 | 0051 | 0325 | 0598 | 0872 | 1146 | 1421 | 1695 | 210 | 8 | 7021 |
| 41 | 9 | | 7558 | 7832 | 8105 | 8379 | 8652 | 8925 | 9199 | 9473 | 9746 | 0090 | 0294 | 0568 | 0841 | 1115 | 1389 | 1663 | 193. | 206 | 9 | 6772 |
| 45 | 10 | 5 (5) | 7803 | 8076 | 8349 | 8623 | 8896 | 9169 | 9443 | 9716 | 9990 | 0263 | 0537 | 0811 | 1084 | 1356 | 1632 | 1906 | 2179 | 202 | 10 | 5 6537 |
| 50 | 11 | | 8047 | 8320 | 8593 | 8867 | 9140 | 9413 | 9686 | 9960 | 0233 | 0507 | 0780 | 1054 | 1327 | 1601 | 1874 | 2148 | 2492 | 198 | 11 | 6296 |
| 54 | 12 | | 8292 | 8565 | 8838 | 9111 | 9384 | 9657 | 9930 | 0203 | 0477 | 0750 | 1023 | 1297 | 1570 | 1844 | 2117 | 2391 | 2664 | 194 | 12 | 6054 |
| 59 | 13 | | 8536 | 8809 | 9082 | 9355 | 9628 | 9901 | 0174 | 0447 | 0720 | 0993 | 1267 | 1540 | 1813 | 2087 | 2359 | 2634 | 2907 | 120 | 13 | 5812 |
| 63 | 14 | | 8781 | 9054 | 9326 | 9599 | 9879 | 0145 | 0418 | 0691 | 0964 | 1237 | 1510 | 1783 | 2056 | 2330 | 2603 | 9876 | 3150 | 180 | 14 | 5570 |
| 68 | 15 | 5 (0) | 9025 | 9298 | 9571 | 9843 | 0116 | 0389 | 0669 | 0935 | 1907 | 1480 | 1753 | 2026 | 2300 | 2573 | 2846 | 3119 | 3392 | 182 | 15 | 5 5328 |
| 72 | 16 | | 9270 | 9543 | 9815 | 0088 | 0360 | 0633 | 0906 | 1178 | 1451 | 1721 | 1997 | 2270 | 2543 | 2816 | 3089 | 3369 | 3635 | 178 | 16 | 5086 |
| 77 | 17 | | 9515 | 9787 | 0060 | 0332 | 0604 | 0877 | 1150 | 1422 | 1695 | 1968 | 2240 | 2513 | 2786 | 3059 | 3332 | 3605 | 3878 | 174 | 17 | 4844 |
| 81 | 18 | | 9760 | 0032 | 0304 | 0576 | 0849 | 1121 | 1394 | 1666 | 1939 | 2211 | 2487 | 2757 | 3029 | 3302 | 3575 | 3848 | 4191 | 170 | 18 | 4602 |
| 86 | 19 | 6 | 0004 | 0277 | 0549 | 0821 | 1093 | 1365 | 1638 | 1910 | 2182 | 2455 | 2727 | 3000 | 3273 | 3515 | 3618 | 4091 | 4363 | 166 | 19 | 4350 |
| 90 | 20 | 6 | 0249 | 0521 | 0793 | 1065 | 1337 | 1610 | 1882 | 2154 | 2426 | 2699 | 2971 | 3243 | 3516 | 3788 | 4061 | 4334 | 4606 | 162 | 20 | 5 4118 |
| 95 | 21 | | 0494 | 0766 | 1038 | 1310 | 1582 | 1854 | 2126 | 2398 | 2670 | 2942 | 3215 | 3487 | 3759 | 4032 | 4304 | 4577 | 4849 | 158 | 21 | 3876 |
| 99 | 22 | | 0739 | 1011 | 1283 | 1554 | 1826 | 2098 | 2370 | 2642 | 2914 | 3186 | 3458 | 3731 | 4003 | 4275 | 4517 | 4820 | 5092 | 154 | 22 | 3634 |
| 104 | 23 | | 0984 | 1256 | 1527 | 1799 | 2071 | 2343 | 9614 | 2886 | 3158 | 3430 | 3702 | 3974 | 4246 | 4518 | 4791 | 5063 | 5335 | 150 | 23 | 3399 |
| 108 | 24 | | 1229 | 1501 | 1772 | 9044 | 2315 | 2587 | 2859 | 3130 | 3402 | 3674 | 3946 | 4218 | 4490 | 4762 | 5034 | 5306 | 5578 | 145 | 24 | 3149 |
| 113 | 25 | 6 | 1474 | 1746 | 2017 | 2288 | 2560 | 2831 | 3103 | 3375 | 3646 | 3918 | 4190 | 4462 | 4733 | 5005 | 5277 | 5549 | 5821 | 141 | 25 | 5 2907 |
| 117 | 26 | | 1719 | 1921 | 2262 | 2533 | 2805 | 3076 | 3347 | 3619 | 3890 | 4162 | 4434 | 4705 | 1977 | 5249 | 5521 | 5793 | 6061 | 137 | 26 | 2684 |
| 122 | 27 | | 1965 | 2236 | 2507 | 2778 | 3049 | 3321 | 3592 | 3863 | 4134 | 4106 | 4678 | 4949 | 5221 | 5492 | 5764 | 6036 | 6308 | 133 | 27 | 2422 |
| 127 | 28 | | 9210 | 2481 | 2752 | 3093 | 3994 | 3565 | 3830 | 4108 | 4379 | 4650 | 4922 | 5193 | 5465 | 5736 | 6008 | 6279 | 6551 | 199 | 28 | 2180 |
| 131 | 29 | | 2455 | 2796 | 2997 | 3268 | 3532 | 3810 | 4081 | 4352 | 4623 | 4894 | 5166 | 5437 | 5708 | 5980 | 6251 | 6523 | 6794 | 125 | 29 | 1937 |
| 136 | 30 | 6 | 2700 | 2971 | 3242 | 3513 | 3784 | 4054 | 4325 | 4596 | 4867 | 5139 | 5410 | 5681 | 5952 | 8223 | 6495 | 0766 | 7037 | 121 | 30 | 5 1624 |
| 140 | 31 | | 9946 | 3216 | 3487 | 3730 | 4028 | 4292 | 4570 | 4841 | 5112 | 5383 | 5654 | 5925 | 6196 | 6467 | 6738 | 7010 | 7281 | 117 | 31 | 1452 |
| 145 | 32 | | 3191 | 3462 | 3732 | 4003 | 4973 | 4544 | 4815 | 5085 | 5356 | 5627 | 5898 | 6169 | 6440 | 6711 | 6982 | 7253 | 7524 | 113 | 32 | 1209 |
| 149 | 33 | | 3437 | 3707 | 3977 | 4248 | 4518 | 4782 | 5059 | 5330 | 5601 | 5871 | 6142 | 6413 | 6684 | 6955 | 7225 | 7497 | 7768 | 109 | 33 | 0966 |
| 154 | 34 | | 3682 | 3952 | 4223 | 4493 | 4763 | 5034 | 5304 | 5575 | 5845 | 6116 | 6386 | 6657 | 6928 | 7199 | 7469 | 7740 | 8011 | 105 | 34 | 0724 |
| 158 | 35 | 6 | 3928 | 4198 | 4468 | 4738 | 5008 | 5279 | 5549 | 5819 | 6090 | 6360 | 6631 | 6901 | 7172 | 7443 | 7713 | 7984 | 8255 | 101 | 35 | 5 0481 |
| 163 | 36 | | 4173 | 4443 | 4713 | 4983 | 5253 | 5524 | 5794 | 6064 | 6334 | 6605 | 6875 | 7146 | 7416 | 7687 | 7957 | 8228 | 8498 | 97 | 36 | 0238 |
| 167 | 37 | | 4419 | 4689 | 4959 | 5229 | 5499 | 5769 | 6039 | 6309 | 6579 | 6849 | 7119 | 7390 | 7660 | 7931 | 8201 | 8472 | 8742 | 93 | 37 | 4 9995 |
| 172 | 38 | | 4664 | 4934 | 5204 | 5474 | 5744 | 6014 | 6284 | 6554 | 6824 | 7094 | 7364 | 7634 | 7904 | 8175 | 8445 | 8715 | 8986 | 89 | 38 | 9752 |
| 176 | 39 | | 4910 | 5180 | 5449 | 5719 | 5989 | 6259 | 6529 | 6798 | 7068 | 7338 | 7608 | 7878 | 8149 | 8419 | 8689 | 8959 | 9230 | 85 | 39 | 9509 |
| 181 | 40 | 6 | 5156 | 5495 | 5695 | 5965 | 6234 | 6504 | 6774 | 7043 | 7313 | 7583 | 7853 | 8123 | 8393 | 8663 | 8933 | 9903 | 9473 | 81 | 40 | 4 9266 |
| 185 | 41 | | 6402 | 5671 | 5941 | 6210 | 6479 | 6749 | 7019 | 7288 | 7558 | 7828 | 8097 | 8367 | 8637 | 8907 | 2177 | 9447 | 9717 | 77 | 41 | 9023 |
| 190 | 42 | | 5648 | 5917 | 6186 | 6455 | 6725 | 6994 | 7264 | 7533 | 7803 | 8072 | 8342 | 8612 | 8889 | 9151 | 9421 | 9691 | 9961 | 73 | 42 | 8780 |
| 194 | 43 | 6 (7) | 5894 | 6163 | 6432 | 6701 | 6970 | 7240 | 7509 | 7778 | 8018 | 8317 | 8587 | 8856 | 9126 | 9396 | 9665 | 9935 | 0205 | 69 | 43 | 8538 |
| 199 | 44 | | 6139 | 6408 | 6077 | 6947 | 7216 | 7485 | 7754 | 8023 | 8293 | 8562 | 8831 | 9101 | 9370 | 9640 | 9910 | 0179 | 0449 | 65 | 44 | 6293 |
| 203 | 45 | 6 (7) | 6385 | 6654 | 6923 | 7192 | 7461 | 7730 | 7999 | 8269 | 8538 | 8807 | 9076 | 9346 | 9615 | 9881 | 0154 | 0423 | 0693 | 61 | 45 | 4 6850 |
| 208 | 46 | | 6631 | 6900 | 7169 | 7438 | 7707 | 7976 | 8245 | 8514 | 8783 | 9052 | 9321 | 9590 | 9859 | 0129 | 0398 | 0667 | 0937 | 57 | 46 | 7607 |
| 212 | 47 | | 6878 | 7146 | 7415 | 7684 | 7952 | 8221 | 8490 | 8759 | 9028 | 9297 | 9566 | 9835 | 0104 | 0373 | 0642 | 0912 | 1181 | 53 | 47 | 7563 |
| 217 | 48 | | 7124 | 7392 | 7661 | 7929 | 8198 | 8467 | 8735 | 9004 | 9273 | 9542 | 9811 | 0080 | 0349 | 0618 | 0887 | 1150 | 1425 | 48 | 48 | 7320 |
| 221 | 49 | | 7370 | 7638 | 7907 | 8175 | 8444 | 8712 | 8981 | 2249 | 9518 | 9787 | 0056 | 0325 | 0593 | 0862 | 1131 | 1400 | 1669 | 44 | 49 | 7076 |
| 226 | 50 | 6 (7) | 7616 | 7884 | 8153 | 8421 | 8689 | 8958 | 9226 | 9495 | 9763 | 0032 | 0301 | 0569 | 0838 | 1107 | 1376 | 1645 | 1914 | 40 | 50 | 4 6833 |
| 230 | 51 | | 7862 | 8130 | 8399 | 8667 | 8935 | 9203 | 9472 | 9740 | 0009 | 0277 | 0546 | 0814 | 1083 | 1352 | 1620 | 1889 | 2158 | 36 | 51 | 6689 |
| 235 | 52 | | 8109 | 8377 | 8645 | 8913 | 9181 | 2449 | 9717 | 9986 | 0954 | 0522 | 0791 | 1059 | 1328 | 1596 | 1865 | 2133 | 2402 | 32 | 52 | 6348 |
| 239 | 53 | | 8355 | 8623 | 8891 | 9159 | 9127 | 9695 | 9963 | 0931 | 0499 | 0768 | 1036 | 1304 | 1573 | 1841 | 9109 | 2378 | 2646 | 28 | 53 | 6162 |
| 244 | 54 | | 8601 | 8869 | 9137 | 9405 | 9073 | 9941 | 0902 | 0477 | 0745 | 1013 | 1281 | 1549 | 1817 | 2086 | 9354 | 9692 | 2891 | 24 | 54 | 5858 |
| 248 | 55 | 6 (7) | 8848 | 9115 | 9383 | 9651 | 9919 | 0186 | 0454 | 0722 | 0990 | 1258 | 1526 | 1794 | 2062 | 2331 | 2599 | 9867 | 3135 | 20 | 55 | 4 5616 |
| 253 | 56 | | 9094 | 9362 | 9629 | 9897 | 0165 | 0432 | 0700 | 0968 | 1236 | 1504 | 1771 | 2039 | 2307 | 2575 | 2814 | 3112 | 3380 | 16 | 56 | 5371 |
| 258 | 57 | | 9341 | 9608 | 9876 | 0143 | 0411 | 0678 | 0946 | 1213 | 1481 | 1749 | 2017 | 2285 | 2553 | 2820 | 3088 | 3356 | 3694 | 12 | 57 | 5127 |
| 262 | 58 | | 2587 | 9855 | 0122 | 0389 | 0657 | 0924 | 1192 | 1459 | 1727 | 1994 | 2262 | 2530 | 2798 | 3065 | 3333 | 3601 | 3869 | 8 | 58 | 4883 |
| 267 | 59 | | 9634 | 0101 | 0308 | 0635 | 0903 | 1170 | 1438 | 1705 | 1979 | 2940 | 2507 | 2775 | 3043 | 3310 | 3570 | 3846 | 4114 | 4 | 59 | 4639 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 57° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 26′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 57° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 8 | 0032 | 0308 | 0583 | 0858 | 1134 | 1409 | 1684 | 1960 | 2235 | 2511 | 2787 | 3062 | 3338 | 3814 | 3890 | 4165 | 4441 | 0 | 0′ | 6 5361 |
| 6 | 1 | | 0274 | 5549 | 0025 | 1100 | 1375 | 1660 | 1226 | 2201 | 2476 | 2752 | 3027 | 3303 | 3578 | 3854 | 4130 | 4405 | 4681 | 4 | 1 | 5606 |
| 9 | 2 | | 0518 | 0791 | 1066 | 1341 | 1616 | 1892 | 2167 | 2442 | 2717 | 2993 | 3208 | 3543 | 3819 | 4024 | 4370 | 4646 | 4221 | 8 | 2 | 5849 |
| 14 | 3 | | 8760 | 1033 | 1308 | 1583 | 1858 | 2133 | 2400 | 2683 | 2958 | 3234 | 3509 | 3784 | 4059 | 4335 | 4610 | 4086 | 5161 | 12 | 3 | 6023 |
| 15 | 4 | | 1000 | 1276 | 1550 | 1826 | 2029 | 2374 | 2642 | 2924 | 3192 | 3474 | 3750 | 4025 | 4300 | 4575 | 4850 | 5126 | 5401 | 16 | 4 | 6337 |
| 23 | 6 | 8 | 1242 | 1517 | 1792 | 2566 | 2341 | 2616 | 2891 | 3165 | 3445 | 3715 | 3290 | 4265 | 4541 | 4816 | 5021 | 5366 | 5641 | 20 | 5 | 5 6581 |
| 27 | 6 | | 1484 | 1752 | 2533 | 2308 | 2583 | 2857 | 3132 | 3457 | 3682 | 3956 | 4231 | 4506 | 4781 | 5056 | 5331 | 5606 | 5881 | 25 | 6 | 6826 |
| 32 | 7 | | 1727 | 2001 | 2275 | 2560 | 2824 | 3092 | 3373 | 3645 | 3923 | 4127 | 4472 | 4747 | 5022 | 5297 | 5572 | 5847 | 6122 | 29 | 7 | 7070 |
| 36 | 8 | | 1969 | 2243 | 2517 | 2792 | 3066 | 3340 | 3616 | 3889 | 4164 | 4439 | 4713 | 4988 | 6263 | 5537 | 5812 | 6087 | 6362 | 33 | 8 | 7314 |
| 41 | 8 | | 2211 | 2465 | 2769 | 3034 | 3358 | 3602 | 3856 | 4131 | 4405 | 4680 | 4254 | 5222 | 5503 | 5778 | 6053 | 6327 | 6602 | 37 | 9 | 7558 |
| 45 | 10 | 6 | 2453 | 2727 | 3001 | 3275 | 3550 | 3824 | 4098 | 4372 | 4540 | 4921 | 5195 | 5470 | 5744 | 6019 | 6293 | 6568 | 6843 | 41 | 10 | 5 7803 |
| 60 | 11 | | 2826 | 2970 | 3244 | 3517 | 3791 | 4065 | 4340 | 4614 | 4888 | 5162 | 5436 | 5711 | 5285 | 6259 | 6531 | 6808 | 7083 | 45 | 11 | 8047 |
| 64 | 12 | | 2935 | 3212 | 3486 | 3760 | 4033 | 4307 | 4581 | 4855 | 5129 | 5403 | 5677 | 5952 | 6226 | 6500 | 6775 | 7649 | 7323 | 49 | 12 | 0292 |
| 52 | 13 | | 3181 | 3454 | 3728 | 4002 | 4275 | 4549 | 4823 | 5027 | 5371 | 5645 | 5219 | 6193 | 6467 | 6741 | 7015 | 7289 | 7564 | 53 | 13 | 0536 |
| 64 | 14 | | 3423 | 3627 | 3270 | 4244 | 4617 | 4791 | 6065 | 5338 | 5612 | 5886 | 6160 | 6434 | 6708 | 6282 | 7256 | 7530 | 7804 | 57 | 14 | 8781 |
| 66 | 16 | 6 | 3666 | 3232 | 4212 | 4486 | 4752 | 5033 | 5306 | 5580 | 5854 | 6127 | 6401 | 6675 | 6942 | 7223 | 7497 | 7771 | 8045 | 61 | 15 | 5 2026 |
| 73 | 18 | | 3908 | 4152 | 4455 | 4728 | 5001 | 5275 | 5548 | 5822 | 6095 | 6369 | 6643 | 6916 | 7190 | 7464 | 7738 | 8011 | 8285 | 65 | 16 | 2270 |
| 77 | 17 | | 4161 | 4424 | 4627 | 4970 | 5243 | 5517 | 5790 | 6064 | 6337 | 6610 | 6884 | 7157 | 7431 | 7705 | 7978 | 8252 | 8526 | 70 | 17 | 9515 |
| 82 | 18 | | 4393 | 4667 | 4939 | 5213 | 5486 | 6759 | 6032 | 6305 | 6579 | 6852 | 7125 | 7399 | 7672 | 7946 | 8219 | 8493 | 8767 | 74 | 18 | 9760 |
| 86 | 19 | | 4636 | 4909 | 5182 | 5466 | 5728 | 0001 | 6274 | 6547 | 6820 | 7024 | 7367 | 7640 | 7913 | 8187 | 8460 | 8734 | 2007 | 78 | 19 | 6 0004 |
| 21 | 20 | 8 | 4879 | 5152 | 5424 | 5627 | 5270 | 6243 | 6516 | 6789 | 7062 | 7335 | 7608 | 7882 | 8155 | 8428 | 8701 | 8275 | 9248 | 52 | 20 | 8 0242 |
| 95 | 21 | | 8122 | 5394 | 5607 | 6910 | 6212 | 6405 | 6768 | 7031 | 7304 | 7577 | 7850 | 8123 | 8396 | 8669 | 8942 | 9216 | 9489 | 86 | 21 | 0424 |
| 100 | 22 | | 6365 | 6637 | 5910 | 6182 | 6465 | 6728 | 7500 | 7273 | 7546 | 7819 | 8091 | 5364 | 8637 | 8911 | 9184 | 2457 | 9730 | 90 | 22 | 0739 |
| 104 | 23 | | 8607 | 6880 | 0152 | 6426 | 6697 | 6970 | 7242 | 7515 | 7708 | 0060 | 8333 | 8606 | 8872 | 9152 | 9425 | 9698 | 9271 | 94 | 23 | 0984 |
| 109 | 24 | 6 (7) | 6850 | 0123 | 8396 | 0667 | 6940 | 7212 | 7485 | 7757 | 8030 | 8302 | 8575 | 8848 | 9120 | 9393 | 9666 | 2939 | 0212 | 28 | 24 | 1222 |
| 113 | 25 | 8 (7) | 8093 | 6366 | 5630 | 6910 | 7102 | 7464 | 7727 | 7992 | 8272 | 8644 | 8817 | 9089 | 2362 | 9631 | 9907 | 0180 | 0453 | 102 | 25 | 6 1474 |
| 110 | 28 | | 6338 | 6800 | 0885 | 7152 | 7426 | 7697 | 7269 | 8241 | 8514 | 8786 | 9058 | 9331 | 9603 | 2876 | 0118 | 0421 | 0694 | 106 | 26 | 1719 |
| 122 | 27 | | 6585 | 6851 | 7123 | 7395 | 7667 | 7239 | 8211 | 8484 | 8756 | 9028 | 9300 | 9573 | 9845 | 0117 | 0390 | 0662 | 0935 | 110 | 27 | 1965 |
| 127 | 28 | | 6823 | 7094 | 7366 | 7638 | 7210 | 8182 | 8154 | 8726 | 8998 | 9270 | 9542 | 9814 | 0087 | 0359 | 0631 | 0901 | 1176 | 115 | 28 | 2210 |
| 132 | 22 | | 7068 | 7337 | 7602 | 7881 | 8153 | 8424 | 8626 | 8268 | 9240 | 9512 | 9704 | 0056 | 0328 | 0600 | 0873 | 1145 | 1417 | 112 | 29 | 2456 |
| 136 | 36 | 8 (7) | 7302 | 7585 | 7852 | 8124 | 8395 | 8667 | 0939 | 9210 | 9482 | 9754 | 0028 | 0298 | 0570 | 0842 | 1114 | 1386 | 1658 | 123 | 30 | 6 2700 |
| 141 | 31 | | 7652 | 7824 | 8095 | 8366 | 8635 | 8910 | 9181 | 9453 | 9724 | 9926 | 0268 | 0510 | 0512 | 1084 | 1356 | 1628 | 1900 | 127 | 31 | 2946 |
| 145 | 32 | | 7795 | 6067 | 0338 | 8609 | 8801 | 9152 | 9424 | 9695 | 9967 | 0238 | 0510 | 0782 | 1054 | 1325 | 1597 | 1869 | 2141 | 131 | 32 | 3191 |
| 150 | 33 | | 8032 | 8310 | 8581 | 8852 | 2124 | 9395 | 9666 | 9938 | 0209 | 0481 | 0752 | 1024 | 1225 | 1567 | 1839 | 2111 | 2382 | 135 | 33 | 3437 |
| 164 | 34 | | 8282 | 8563 | 8824 | 9095 | 9367 | 9638 | 9202 | 0180 | 0462 | 0723 | 0294 | 1266 | 1537 | 1809 | 2080 | 2352 | 2624 | 139 | 34 | 3682 |
| 159 | 36 | 8 (7) | 8526 | 8797 | 9067 | 9338 | 9609 | 9881 | 0152 | 0423 | 0694 | 0965 | 1237 | 1608 | 1772 | 2051 | 2322 | 2524 | 2865 | 143 | 35 | 6 3928 |
| 163 | 36 | | 6762 | 9040 | 2311 | 9682 | 9852 | 0123 | 0394 | 0665 | 0236 | 1208 | 1479 | 1750 | 2021 | 2222 | 2564 | 2835 | 3107 | 147 | 36 | 4173 |
| 168 | 37 | | 8013 | 2283 | 2554 | 2825 | 0095 | 0366 | 0637 | 0208 | 1179 | 1460 | 1721 | 1292 | 2263 | 2534 | 2806 | 3077 | 3348 | 151 | 37 | 4419 |
| 172 | 38 | | 8258 | 9527 | 2727 | 5068 | 0339 | 0609 | 0880 | 1151 | 1422 | 1622 | 1963 | 2234 | 2505 | 2776 | 3047 | 3319 | 3590 | 155 | 38 | 4665 |
| 177 | 32 | | 2505 | 2770 | 0041 | 0311 | 0582 | 0852 | 1123 | 1323 | 1664 | 1935 | 2206 | 2476 | 2747 | 3018 | 3289 | 3560 | 3831 | 160 | 39 | 4910 |
| 181 | 40 | 8 (7) | 2744 | 0014 | 0284 | 0554 | 0825 | 1096 | 1366 | 1636 | 1907 | 2177 | 2448 | 2712 | 2920 | 3260 | 3531 | 3802 | 4073 | 164 | 46 | 6 6166 |
| 186 | 41 | | 2907 | 0257 | 5528 | 5798 | 1068 | 1338 | 1609 | 1879 | 2150 | 2420 | 2691 | 2961 | 3232 | 3502 | 3773 | 4044 | 4315 | 168 | 41 | 5402 |
| 190 | 42 | 7 | 6231 | 0501 | 0771 | 1041 | 1311 | 1581 | 1852 | 2122 | 2392 | 2663 | 2933 | 3204 | 3474 | 3745 | 4016 | 4286 | 4557 | 172 | 42 | 5648 |
| 195 | 43 | | 6475 | 0745 | 1015 | 1285 | 1555 | 1825 | 2095 | 2365 | 2635 | 2905 | 3176 | 3446 | 3716 | 3987 | 4257 | 4528 | 4798 | 176 | 43 | 5824 |
| 200 | 44 | | 8719 | 0280 | 1258 | 1528 | 1728 | 2068 | 2338 | 2608 | 2878 | 3148 | 3418 | 3688 | 3959 | 4229 | 4429 | 4770 | 5040 | 100 | 44 | 6139 |
| 204 | 46 | 7 | 0962 | 1232 | 1502 | 1772 | 2041 | 2311 | 2581 | 2851 | 3121 | 3321 | 3661 | 3931 | 4201 | 4471 | 4741 | 6012 | 5282 | 184 | 45 | 8 6385 |
| 209 | 48 | | 1206 | 1476 | 1745 | 2015 | 2285 | 2554 | 2824 | 3594 | 3364 | 3634 | 3204 | 4173 | 4444 | 4714 | 4984 | 5254 | 5524 | 188 | 46 | 6632 |
| 213 | 47 | | 1450 | 1720 | 1989 | 2259 | 2520 | 2728 | 3067 | 3337 | 3607 | 3876 | 4146 | 4416 | 4686 | 4956 | 5226 | 5426 | 5766 | 192 | 47 | 6878 |
| 218 | 48 | | 1694 | 1964 | 2233 | 2502 | 2772 | 3011 | 3311 | 3580 | 3850 | 4119 | 4389 | 4659 | 4929 | 5198 | 5460 | 5735 | 0008 | 126 | 48 | 7124 |
| 222 | 49 | | 1238 | 2208 | 2477 | 2746 | 3015 | 3285 | 3554 | 3823 | 4093 | 4362 | 4632 | 4951 | 5171 | 5441 | 5710 | 5980 | 0250 | 200 | 49 | 7370 |
| 227 | 56 | 7 | 2183 | 2452 | 2721 | 2990 | 3252 | 3528 | 3797 | 4067 | 4336 | 4605 | 4875 | 5144 | 5414 | 5683 | 5953 | 6222 | 0492 | 205 | 50 | 8 7616 |
| 231 | 51 | | 2427 | 2626 | 2265 | 3233 | 3503 | 3772 | 4541 | 4310 | 4579 | 4848 | 5118 | 5387 | 6656 | 5226 | 6125 | 0465 | 6734 | 202 | 61 | 7862 |
| 236 | 52 | | 2671 | 2940 | 3208 | 3477 | 3746 | 4015 | 4284 | 4553 | 4822 | 5091 | 5361 | 5630 | 5899 | 0160 | 6438 | 6707 | 6977 | 213 | 62 | 8159 |
| 240 | 53 | | 2915 | 3104 | 3452 | 3721 | 3920 | 4252 | 4528 | 4797 | 5065 | 5334 | 5604 | 5873 | 6142 | 6411 | 0680 | 6949 | 7219 | 217 | 53 | 8355 |
| 246 | 54 | | 3159 | 3420 | 3696 | 3965 | 4234 | 4502 | 4771 | 5040 | 5309 | 5578 | 6847 | 6116 | 6385 | 6654 | 0923 | 7192 | 7461 | 221 | 64 | 6651 |
| 249 | 56 | 7 | 3404 | 3672 | 3941 | 4209 | 4478 | 4746 | 5016 | 5283 | 5552 | 5821 | 6020 | 6362 | 6627 | 6896 | 7165 | 7434 | 7703 | 225 | 86 | 6 6848 |
| 254 | 56 | | 3648 | 3916 | 4135 | 4453 | 4721 | 4920 | 5258 | 5527 | 5725 | 6064 | 6333 | 6602 | 6875 | 7139 | 7400 | 7677 | 7940 | 229 | 86 | 9094 |
| 258 | 57 | | 3892 | 4161 | 4429 | 4697 | 4266 | 5234 | 6502 | 5770 | 6032 | 6307 | 6576 | 6845 | 7113 | 7382 | 7651 | 7912 | 8188 | 233 | 67 | 2341 |
| 263 | 55 | | 4137 | 4405 | 4673 | 4941 | 5209 | 5478 | 5746 | 6014 | 6282 | 0551 | 6812 | 7080 | 7356 | 7625 | 7893 | 8162 | 8431 | 237 | 68 | 9587 |
| 268 | 52 | | 4381 | 4649 | 4917 | 5185 | 5453 | 5721 | 5990 | 6258 | 6526 | 6794 | 7062 | 7331 | 7599 | 7868 | 8136 | 8406 | 8673 | 241 | 59 | 9834 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 58° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 58° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 7 | 6001 | 6346 | 0615 | 0682 | 1149 | 1416 | 1683 | 1951 | 2218 | 2165 | 2753 | 3020 | 3288 | 3555 | 3823 | 4091 | 4356 | 245 | 0' | 4 4395 |
| 4 | 1 | | 0327 | 0594 | 0861 | 1128 | 1395 | 1662 | 1229 | 2197 | 2464 | 2731 | 2998 | 3266 | 3533 | 3800 | 1068 | 4335 | 4603 | 241 | 1 | 4151 |
| 9 | 2 | | 0574 | 0841 | 1108 | 1375 | 1641 | 1908 | 2175 | 2442 | 2710 | 2977 | 3244 | 3511 | 3778 | 4046 | 4313 | 4580 | 4848 | 237 | 2 | 3267 |
| 13 | 3 | | 0821 | 1088 | 1354 | 1621 | 1888 | 2155 | 2421 | 2688 | 2255 | 3222 | 3189 | 3756 | 4024 | 1291 | 4558 | 4825 | 5093 | 233 | 3 | 3663 |
| 18 | 4 | | 1060 | 1334 | 1601 | 1868 | 2134 | 2401 | 2668 | 2234 | 3201 | 3468 | 3735 | 4002 | 1262 | 4536 | 1803 | 5070 | 5337 | 229 | 4 | 3419 |
| 22 | 5 | 7 | 1315 | 1581 | 1848 | 2114 | 2381 | 2647 | 2214 | 3180 | 3147 | 3714 | 3981 | 4247 | 1514 | 4781 | 5048 | 5315 | 5582 | 225 | 5 | 4 3174 |
| 26 | 6 | | 1562 | 1828 | 2094 | 2361 | 2627 | 2893 | 3160 | 3426 | 1693 | 3960 | 4226 | 4493 | 1760 | 5027 | 5293 | 5560 | 5827 | 221 | 6 | 2930 |
| 31 | 7 | | 1809 | 2075 | 2341 | 2607 | 2873 | 3140 | 3406 | 3673 | 3932 | 4205 | 4472 | 4739 | 5005 | 5272 | 5539 | 5805 | 6072 | 217 | 7 | 2686 |
| 35 | 8 | | 2056 | 2322 | 2588 | 2854 | 3120 | 3386 | 3652 | 3919 | 4185 | 1451 | 4718 | 4201 | 5251 | 5517 | 5704 | 6051 | 6317 | 213 | 8 | 2442 |
| 40 | 9 | | 2303 | 2569 | 2835 | 3101 | 3367 | 3633 | 3899 | 4165 | 4431 | 4697 | 4264 | 5230 | 5496 | 5763 | 6029 | 6296 | 6562 | 209 | 9 | 2197 |
| 44 | 10 | 7 | 2550 | 2816 | 3081 | 3347 | 3613 | 3879 | 4145 | 4411 | 4677 | 4213 | 5210 | 5476 | 5742 | 6608 | 6275 | 6541 | 6807 | 205 | 10 | 4 1953 |
| 48 | 11 | | 2797 | 3063 | 3328 | 3594 | 3860 | 4126 | 4392 | 4657 | 4923 | 5189 | 5455 | 5722 | 5288 | 6254 | 6520 | 6786 | 7053 | 200 | 11 | 1708 |
| 53 | 12 | | 3044 | 3312 | 3575 | 3841 | 4107 | 4372 | 4638 | 4904 | 5170 | 5435 | 5701 | 5967 | 6233 | 6499 | 6765 | 7032 | 7220 | 196 | 12 | 1464 |
| 57 | 13 | | 3291 | 3557 | 3822 | 4088 | 4353 | 4619 | 4884 | 5150 | 5416 | 5682 | 5947 | 6213 | 6472 | 6745 | 7011 | 7277 | 7543 | 192 | 13 | 1212 |
| 62 | 14 | | 3532 | 3804 | 4062 | 4335 | 4600 | 4865 | 5131 | 5397 | 5662 | 5228 | 6123 | 6159 | 6725 | 6921 | 7257 | 7522 | 7788 | 168 | 14 | 0974 |
| 66 | 15 | 7 | 3786 | 4051 | 4316 | 4582 | 4847 | 5112 | 5378 | 5643 | 5908 | 6174 | 6440 | 6705 | 6971 | 7236 | 7502 | 7768 | 8034 | 184 | 15 | 4 0730 |
| 70 | 16 | | 4033 | 4298 | 4563 | 4829 | 5021 | 5359 | 5624 | 5882 | 6155 | 6420 | 6686 | 6951 | 7217 | 7482 | 7748 | 8013 | 8279 | 180 | 16 | 0483 |
| 75 | 17 | | 4281 | 4546 | 4811 | 5076 | 5341 | 5606 | 5871 | 6136 | 6401 | 6667 | 6932 | 7197 | 7463 | 7728 | 7223 | 8259 | 8525 | 176 | 17 | 0240 |
| 72 | 18 | | 4528 | 4793 | 5058 | 5323 | 5588 | 5853 | 6118 | 6383 | 6648 | 6913 | 7178 | 7443 | 7709 | 7274 | 8239 | 8505 | 8770 | 172 | 18 | 3 9996 |
| 83 | 19 | | 4776 | 5040 | 5305 | 5570 | 5035 | 6099 | 6364 | 6622 | 6894 | 7159 | 7424 | 7689 | 7955 | 8220 | 8485 | 8750 | 9015 | 168 | 19 | 9751 |
| 68 | 20 | 7 | 5023 | 5288 | 5552 | 5817 | 6082 | 6346 | 6611 | 6876 | 7141 | 7406 | 7671 | 7936 | 8201 | 8466 | 8731 | 8996 | 9261 | 161 | 20 | 3 9506 |
| 92 | 21 | | 5271 | 5535 | 5800 | 6064 | 6322 | 6593 | 6858 | 7123 | 7387 | 7652 | 7917 | 8182 | 8147 | 8712 | 8977 | 9242 | 9507 | 160 | 21 | 9261 |
| 97 | 22 | | 5519 | 5783 | 6047 | 6312 | 6576 | 6840 | 7105 | 7369 | 7634 | 7899 | 8163 | 8428 | 8623 | 8258 | 9223 | 9487 | 9752 | 155 | 22 | 9016 |
| 161 | 23 | | 5766 | 6030 | 6295 | 6552 | 6823 | 7087 | 7352 | 7616 | 7881 | 8145 | 8410 | 8674 | 8932 | 9201 | 9468 | 9733 | 9998 | 151 | 23 | 8771 |
| 105 | 24 | 7 (8) | 6014 | 6278 | 6542 | 6806 | 7070 | 7335 | 7599 | 7863 | 8128 | 8392 | 8656 | 8921 | 9165 | 2450 | 9714 | 9979 | 0244 | 147 | 24 | 8526 |
| 110 | 25 | 7 (8) | 6262 | 6526 | 6790 | 7054 | 7318 | 7582 | 7846 | 8110 | 4374 | 8632 | 8903 | 9167 | 2131 | 9696 | 9960 | 0225 | 0489 | 143 | 25 | 3 8281 |
| 114 | 26 | | 6510 | 6773 | 7037 | 7361 | 7565 | 7829 | 8093 | 8357 | 4621 | 8885 | 9149 | 9414 | 9678 | 9942 | 0206 | 0471 | 0735 | 139 | 26 | 8635 |
| 112 | 27 | | 6758 | 7021 | 7285 | 7542 | 7812 | 8076 | 8340 | 8604 | 8868 | 9132 | 9396 | 9660 | 9921 | 0168 | 0453 | 0717 | 0981 | 135 | 27 | 7720 |
| 123 | 26 | | 7005 | 7262 | 7533 | 7796 | 8060 | 8323 | 8587 | 8851 | 9115 | 9372 | 9643 | 9907 | 0171 | 0435 | 0699 | 0963 | 1227 | 131 | 28 | 7545 |
| 127 | 29 | | 7253 | 7517 | 7780 | 8044 | 8367 | 3571 | 8831 | 9098 | 9362 | 9626 | 9889 | 0153 | 0417 | 0681 | 0945 | 1209 | 1473 | 127 | 29 | 7300 |
| 132 | 30 | 7 (8) | 7501 | 7765 | 8628 | 8291 | 8555 | 8818 | 9082 | 9315 | 9609 | 9872 | 0136 | 0400 | 0661 | 0927 | 1121 | 1455 | 1719 | 123 | 30 | 3 7054 |
| 136 | 31 | | 7749 | 8013 | 8276 | 8539 | 8802 | 9066 | 9329 | 9592 | 2856 | 0112 | 0383 | 0646 | 0210 | 1174 | 1438 | 1701 | 1965 | 119 | 31 | 6809 |
| 141 | 32 | | 7998 | 8261 | 8524 | 8787 | 9650 | 9313 | 9576 | 9840 | 0103 | 0366 | 0630 | 0893 | 1157 | 1420 | 1684 | 1947 | 2211 | 115 | 32 | 6563 |
| 145 | 33 | | 0246 | 8509 | 8771 | 2035 | 9297 | 9561 | 2824 | 0087 | 0350 | 0613 | 0877 | 1140 | 1403 | 1667 | 1930 | 2124 | 2457 | 110 | 33 | 6318 |
| 149 | 34 | | 8494 | 8757 | 9019 | 9282 | 9545 | 9808 | 0071 | 0334 | 0597 | 0860 | 1124 | 1387 | 1650 | 1913 | 2177 | 2440 | 2703 | 166 | 34 | 6072 |
| 154 | 35 | 7 (8) | 6742 | 9005 | 2267 | 9530 | 2793 | 0056 | 0319 | 6582 | 0844 | 1107 | 1371 | 1634 | 1897 | 2160 | 2423 | 2686 | 2950 | 102 | 35 | 3 5827 |
| 158 | 36 | | 8990 | 9253 | 9515 | 9778 | 0041 | 0303 | 0566 | 0829 | 1092 | 1355 | 1618 | 1880 | 2144 | 2407 | 2670 | 2233 | 3126 | 28 | 36 | 5581 |
| 163 | 37 | | 9239 | 9501 | 2764 | 0026 | 0288 | 0551 | 0811 | 1076 | 1339 | 1602 | 1865 | 2127 | 2390 | 2653 | 2216 | 3179 | 3142 | 94 | 37 | 5335 |
| 167 | 38 | | 2487 | 9749 | 0012 | 0274 | 0536 | 0799 | 1061 | 1324 | 1586 | 1849 | 2112 | 2374 | 2637 | 2900 | 3163 | 3426 | 3689 | 90 | 38 | 6090 |
| 171 | 32 | | 9735 | 9997 | 0260 | 0522 | 0764 | 1047 | 1369 | 1571 | 1634 | 2096 | 2359 | 2621 | 2884 | 3147 | 3469 | 3672 | 3935 | 86 | 39 | 4844 |
| 176 | 40 | 7 (8) | 9284 | 0246 | 0508 | 0770 | 1032 | 1294 | 1557 | 1819 | 2081 | 2314 | 2606 | 2868 | 3131 | 3394 | 3656 | 3919 | 4181 | 82 | 46 | 3 4598 |
| 160 | 41 | 8 | 0232 | 0494 | 0756 | 1018 | 1260 | 1542 | 1804 | 2067 | 2329 | 2591 | 2853 | 3116 | 3378 | 3640 | 3903 | 4165 | 4428 | 78 | 41 | 4352 |
| 164 | 42 | | 6481 | 0743 | 1004 | 1266 | 1528 | 1790 | 2052 | 2314 | 2576 | 2838 | 3101 | 3363 | 3625 | 3887 | 4150 | 4412 | 4674 | 74 | 42 | 4106 |
| 169 | 43 | | 0729 | 0991 | 1253 | 1515 | 1776 | 2038 | 2300 | 2562 | 2824 | 3086 | 3348 | 3610 | 3872 | 4134 | 4396 | 4659 | 4921 | 76 | 43 | 3861 |
| 193 | 44 | | 0278 | 1240 | 1501 | 1763 | 2624 | 2286 | 2548 | 2810 | 3071 | 3333 | 3595 | 3857 | 4112 | 4381 | 4643 | 4905 | 5168 | 65 | 41 | 3615 |
| 198 | 45 | 8 | 1227 | 1488 | 1750 | 2011 | 2273 | 2534 | 2796 | 3057 | 3319 | 3581 | 3843 | 4104 | 4366 | 4628 | 4890 | 5152 | 5114 | 61 | 45 | 3 3368 |
| 262 | 46 | | 1475 | 1737 | 1998 | 2259 | 2521 | 2782 | 3044 | 3305 | 3567 | 3828 | 4090 | 4352 | 4614 | 4875 | 5137 | 5399 | 5661 | 67 | 46 | 3122 |
| 206 | 47 | | 1724 | 1985 | 2247 | 2508 | 2769 | 3030 | 3222 | 3553 | 3815 | 4076 | 4338 | 4599 | 4861 | 5122 | 5364 | 5616 | 5908 | 53 | 47 | 2676 |
| 211 | 48 | | 1973 | 2234 | 2495 | 2756 | 3017 | 3279 | 3540 | 3801 | 4062 | 4324 | 4585 | 4847 | 5108 | 3370 | 5631 | 5893 | 6155 | 49 | 48 | 2630 |
| 215 | 49 | | 2222 | 2483 | 2744 | 3005 | 3266 | 3527 | 3788 | 4049 | 4310 | 4571 | 4833 | 5094 | 5355 | 5617 | 5878 | 6140 | 6401 | 45 | 49 | 2384 |
| 220 | 60 | 8 | 2471 | 2731 | 2922 | 3253 | 3514 | 3775 | 4036 | 4297 | 4558 | 4819 | 5080 | 5312 | 5603 | 5864 | 6125 | 6387 | 6648 | 41 | 50 | 3 2138 |
| 224 | 51 | | 2726 | 2960 | 3241 | 3502 | 3762 | 4023 | 4284 | 4545 | 4806 | 5067 | 5328 | 5589 | 5850 | 6111 | 6373 | 6634 | 6825 | 37 | 51 | 1891 |
| 226 | 52 | | 2962 | 3229 | 3490 | 3750 | 4011 | 4272 | 4532 | 4723 | 5054 | 5315 | 5576 | 5837 | 6098 | 6359 | 6620 | 6881 | 7142 | 33 | 52 | 1645 |
| 233 | 53 | | 3218 | 3478 | 3738 | 3999 | 4259 | 4620 | 4781 | 5041 | 5302 | 5563 | 5024 | 6084 | 6345 | 6606 | 6867 | 7128 | 7389 | 29 | 53 | 1392 |
| 237 | 64 | | 3467 | 3727 | 3987 | 4240 | 4508 | 4768 | 5029 | 5289 | 5556 | 5811 | 6071 | 6332 | 6593 | 6853 | 7114 | 7375 | 7636 | 25 | 54 | 1152 |
| 242 | 55 | 6 | 3716 | 3976 | 4236 | 4496 | 4757 | 5017 | 5277 | 5538 | 5798 | 6052 | 6319 | 6580 | 6840 | 7101 | 7362 | 7622 | 7883 | 20 | 55 | 3 0906 |
| 246 | 56 | | 3965 | 1225 | 4485 | 4745 | 5005 | 5265 | 5526 | 5786 | 6046 | 6367 | 6567 | 6827 | 7088 | 7349 | 7609 | 7870 | 6130 | 16 | 66 | 0659 |
| 250 | 57 | | 4214 | 4474 | 4734 | 4994 | 5254 | 5514 | 5774 | 6034 | 6294 | 6555 | 6815 | 7075 | 7336 | 7596 | 7857 | 8117 | 8378 | 12 | 67 | 6413 |
| 255 | 66 | | 4163 | 4723 | 4983 | 5243 | 5503 | 5763 | 6023 | 6283 | 6513 | 6803 | 7063 | 7323 | 7583 | 7844 | 6104 | 8364 | 8625 | 8 | 50 | 0166 |
| 259 | 52 | | 4713 | 4272 | 5232 | 5492 | 5751 | 6011 | 6271 | 6531 | 6791 | 7051 | 7311 | 7571 | 7831 | 6091 | 8352 | 0612 | 8872 | 4 | 59 | 2 9919 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 58° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 58° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 3′ | 7 | 4626 | 4894 | 5162 | 5429 | 5397 | 5965 | 6233 | 6501 | 6769 | 7338 | 7306 | 7674 | 7842 | 8111 | 8379 | 8617 | 8916 | 0 | 0′ | 7 0081 |
| 4 | 1 | | 4871 | 5138 | 5406 | 5674 | 5941 | 6209 | 6477 | 6745 | 7813 | 7281 | 7549 | 7817 | 8085 | 6353 | 8622 | 8890 | 9158 | 4 | 1 | 0327 |
| 9 | 2 | | 3115 | 5383 | 5350 | 5918 | 6186 | 6133 | 6721 | 6989 | 7257 | 7525 | 7792 | 8060 | 8328 | 8597 | 8865 | 9133 | 9101 | 8 | 2 | 0574 |
| 13 | 3 | | 3360 | 5627 | 5895 | 6162 | 6430 | 6697 | 6965 | 7933 | 7500 | 7768 | 8036 | 8304 | 8572 | 8840 | 9108 | 9375 | 9644 | 12 | 3 | 0821 |
| 18 | 4 | | 3605 | 5872 | 6139 | 6487 | 6674 | 6941 | 7909 | 7476 | 7744 | 8012 | 8279 | 8347 | 8815 | 9083 | 9351 | 9618 | 9886 | 16 | 4 | 1068 |
| 22 | 3 | 7 (8) | 3849 | 6117 | 6384 | 6651 | 6918 | 7186 | 7453 | 7720 | 7988 | 8255 | 8523 | 8790 | 9068 | 9326 | 9591 | 9861 | 0129 | 91 | 5 | 7 1315 |
| 26 | 6 | | 6094 | 6361 | 6628 | 6895 | 7133 | 7430 | 7697 | 7964 | 8239 | 8499 | 8766 | 9034 | 9301 | 9569 | 9837 | 0184 | 0372 | 25 | 6 | 1562 |
| 31 | 7 | | 6339 | 6606 | 6873 | 7140 | 7487 | 7674 | 7941 | 8208 | 8476 | 8743 | 9010 | 9277 | 9545 | 9812 | 0080 | 0347 | 0615 | 29 | 7 | 1809 |
| 35 | 8 | | 6584 | 6851 | 7118 | 7384 | 7551 | 7918 | 8185 | 8452 | 8719 | 8987 | 9254 | 9521 | 9788 | 0056 | 0323 | 0590 | 0858 | 33 | 8 | 2056 |
| 40 | 9 | | 6829 | 7096 | 7369 | 7629 | 7896 | 8163 | 8430 | 8696 | 8963 | 9230 | 9497 | 9764 | 0032 | 0299 | 0566 | 0833 | 1101 | 37 | 9 | 2303 |
| 44 | 10 | 7 (3) | 7074 | 7340 | 7637 | 7874 | 8140 | 8407 | 8674 | 8941 | 9207 | 9474 | 9741 | 0008 | 0275 | 0512 | 0809 | 1076 | 1341 | 41 | 10 | 7 2550 |
| 49 | 11 | | 7319 | 7585 | 7862 | 8118 | 8385 | 8651 | 8918 | 9185 | 9451 | 9718 | 9985 | 0252 | 0519 | 0786 | 1053 | 1320 | 1587 | 45 | 11 | 2797 |
| 53 | 12 | | 7564 | 7830 | 8097 | 8363 | 8629 | 8896 | 9162 | 9429 | 9695 | 9962 | 0229 | 0495 | 0762 | 1029 | 1296 | 1563 | 1830 | 49 | 12 | 3044 |
| 37 | 13 | | 7809 | 8875 | 8342 | 8608 | 8874 | 9140 | 9407 | 9673 | 9940 | 0206 | 0473 | 0739 | 1006 | 1273 | 1539 | 1806 | 2073 | 54 | 13 | 3291 |
| 62 | 14 | | 6054 | 8320 | 8586 | 8853 | 9119 | 9385 | 9351 | 9917 | 0184 | 0450 | 0717 | 0983 | 1250 | 1516 | 1783 | 2049 | 2316 | 58 | 14 | 3539 |
| 66 | 15 | 7 (6) | 6300 | 8535 | 8831 | 9097 | 9363 | 9629 | 9896 | 0162 | 0428 | 0694 | 0961 | 1227 | 1493 | 1760 | 2096 | 2293 | 2559 | 62 | 15 | 7 3786 |
| 71 | 16 | | 8545 | 8811 | 9876 | 9342 | 9608 | 9871 | 0140 | 0406 | 0672 | 0938 | 1205 | 1471 | 1737 | 2003 | 2270 | 2536 | 2803 | 66 | 16 | 4033 |
| 75 | 17 | | 3790 | 9056 | 9321 | 9587 | 9853 | 0119 | 0385 | 0651 | 0917 | 1183 | 1449 | 1715 | 1981 | 2247 | 2513 | 2780 | 3046 | 70 | 17 | 4281 |
| 79 | 13 | | 2835 | 9301 | 9567 | 9832 | 0098 | 0364 | 0629 | 0895 | 1161 | 1427 | 1693 | 1959 | 2225 | 2491 | 2757 | 3023 | 3289 | 74 | 18 | 4528 |
| 84 | 19 | | 9281 | 9546 | 9812 | 0077 | 0343 | 0608 | 0874 | 1140 | 1405 | 1671 | 1937 | 2203 | 2469 | 2735 | 3000 | 3266 | 3533 | 78 | 19 | 4776 |
| 88 | 23 | 7 (8) | 9526 | 9792 | 0057 | 0322 | 0588 | 0853 | 1119 | 1381 | 1650 | 1915 | 2181 | 2447 | 2713 | 2978 | 3244 | 3510 | 3776 | 82 | 90 | 7 5023 |
| 93 | 21 | | 9772 | 0037 | 0332 | 0567 | 0833 | 1098 | 1363 | 1629 | 1894 | 2160 | 2425 | 2691 | 2957 | 3222 | 3488 | 3754 | 4019 | 87 | 21 | 5271 |
| 97 | 22 | 6 | 3017 | 0282 | 0547 | 0812 | 1078 | 1343 | 1608 | 1873 | 2139 | 2404 | 2670 | 2935 | 3201 | 3166 | 3732 | 3997 | 4263 | 91 | 22 | 5519 |
| 101 | 23 | | 0963 | 0528 | 0793 | 1058 | 1323 | 1588 | 1853 | 2118 | 2383 | 2649 | 2914 | 3179 | 3415 | 3710 | 3975 | 4241 | 4506 | 95 | 23 | 5766 |
| 106 | 24 | | 0508 | 0773 | 1838 | 1383 | 1568 | 1833 | 2098 | 2363 | 2628 | 2893 | 3158 | 3423 | 3689 | 3951 | 1219 | 4485 | 4750 | 99 | 24 | 6014 |
| 113 | 23 | 8 | 0754 | 1019 | 1283 | 1548 | 1813 | 2078 | 2343 | 2608 | 2873 | 3138 | 3403 | 3668 | 3933 | 4198 | 1463 | 4728 | 4994 | 103 | 25 | 7 6262 |
| 115 | 23 | | 1000 | 1264 | 1529 | 1794 | 2058 | 2323 | 2588 | 2859 | 3117 | 3382 | 3647 | 3912 | 4177 | 4442 | 4707 | 4972 | 5937 | 107 | 26 | 6510 |
| 119 | 27 | | 1946 | 1510 | 1774 | 2039 | 2303 | 2568 | 2833 | 3097 | 3362 | 3627 | 3892 | 4156 | 4421 | 4686 | 4951 | 5216 | 5481 | 111 | 97 | 6758 |
| 123 | 28 | | 1491 | 1756 | 2020 | 2284 | 2549 | 2813 | 3878 | 3342 | 3607 | 3871 | 4136 | 4401 | 4666 | 4930 | 5195 | 5460 | 5725 | 115 | 28 | 7005 |
| 128 | 29 | | 1737 | 2001 | 2266 | 2530 | 2794 | 3058 | 3323 | 3587 | 3852 | 4116 | 4381 | 4615 | 4910 | 5175 | 5439 | 5704 | 5969 | 120 | 29 | 7253 |
| 132 | 30 | 8 | 1983 | 2247 | 2511 | 2775 | 3039 | 3304 | 3568 | 3832 | 4096 | 4361 | 1625 | 1890 | 5151 | 5419 | 5683 | 5948 | 6213 | 124 | 30 | 7 7501 |
| 137 | 31 | | 2229 | 2493 | 2737 | 3021 | 3285 | 3519 | 3813 | 4077 | 4341 | 4606 | 4870 | 5134 | 5399 | 5663 | 5998 | 6192 | 6457 | 128 | 31 | 7749 |
| 141 | 32 | | 2475 | 2739 | 3302 | 3266 | 3530 | 3794 | 4058 | 1322 | 4586 | 4850 | 5115 | 5379 | 5643 | 5907 | 6172 | 6436 | 6701 | 132 | 39 | 7998 |
| 116 | 33 | | 2721 | 2985 | 3248 | 3512 | 3776 | 4048 | 4303 | 4567 | 4831 | 5095 | 5359 | 5623 | 5888 | 6152 | 6416 | 6680 | 6945 | 136 | 33 | 8246 |
| 153 | 34 | | 2967 | 3231 | 3494 | 3758 | 4021 | 4235 | 4549 | 4813 | 5076 | 5340 | 5604 | 5868 | 6132 | 6396 | 6660 | 6924 | 7189 | 140 | 31 | 8494 |
| 154 | 35 | 8 | 3213 | 3476 | 3740 | 4003 | 4967 | 4530 | 4794 | 5058 | 5321 | 5585 | 5849 | 6113 | 6377 | 6641 | 6905 | 7169 | 7433 | 144 | 35 | 7 8742 |
| 159 | 36 | | 3459 | 3729 | 3986 | 4249 | 4513 | 4776 | 5839 | 5303 | 5537 | 5830 | 6094 | 6358 | 6621 | 6885 | 7149 | 7413 | 7677 | 148 | 36 | 8990 |
| 163 | 37 | | 3735 | 3269 | 4232 | 4425 | 4758 | 5029 | 5285 | 5548 | 5812 | 6075 | 6339 | 6602 | 6866 | 7130 | 7393 | 7657 | 7921 | 153 | 37 | 9239 |
| 168 | 38 | | 3952 | 4215 | 4478 | 4741 | 5004 | 5267 | 5530 | 5794 | 6057 | 6320 | 6584 | 6847 | 7111 | 7374 | 7638 | 7901 | 8165 | 157 | 38 | 9487 |
| 172 | 39 | | 4198 | 4461 | 4724 | 4937 | 5250 | 5513 | 5776 | 6039 | 6309 | 6565 | 6829 | 7092 | 7355 | 7619 | 7882 | 8146 | 8409 | 161 | 39 | 5735 |
| 176 | 40 | 8 | 4444 | 4707 | 4970 | 5233 | 5496 | 5758 | 6021 | 6285 | 6548 | 6811 | 7074 | 7337 | 7600 | 7864 | 8127 | 8390 | 8654 | 165 | 48 | 7 9984 |
| 181 | 41 | | 4691 | 4953 | 5216 | 5179 | 5741 | 6004 | 6267 | 6530 | 6793 | 7056 | 7319 | 7582 | 7845 | 8108 | 8372 | 8635 | 8898 | 169 | 41 | 8 0232 |
| 185 | 42 | | 4937 | 5129 | 5462 | 5725 | 5987 | 6250 | 6513 | 6775 | 7038 | 7301 | 7564 | 7827 | 8090 | 8353 | 8616 | 8879 | 9142 | 173 | 49 | 0481 |
| 190 | 43 | | 3183 | 5446 | 5708 | 5971 | 6233 | 6496 | 6758 | 7021 | 7284 | 7546 | 7809 | 8072 | 8335 | 8598 | 8861 | 9124 | 9387 | 177 | 43 | 0729 |
| 194 | 44 | | 3130 | 5392 | 5954 | 6217 | 6179 | 6742 | 7804 | 7267 | 7529 | 7792 | 8051 | 8317 | 8580 | 8843 | 9105 | 9368 | 9631 | 181 | 44 | 0978 |
| 198 | 45 | 8 | 3676 | 5939 | 6201 | 6463 | 6725 | 6987 | 7250 | 7512 | 7775 | 8037 | 8300 | 8562 | 8825 | 9088 | 9350 | 9613 | 9876 | 186 | 45 | 8 1227 |
| 203 | 46 | 8 (9) | 5923 | 6185 | 6447 | 6789 | 6971 | 7233 | 7496 | 7758 | 8020 | 8283 | 8545 | 8807 | 9070 | 9333 | 9595 | 9858 | 0120 | 190 | 46 | 1475 |
| 207 | 47 | | 6170 | 6431 | 6693 | 6955 | 7217 | 7472 | 7742 | 8004 | 8266 | 8528 | 8790 | 9053 | 9315 | 9578 | 9840 | 0102 | 0365 | 194 | 47 | 1724 |
| 219 | 48 | | 6416 | 6678 | 6940 | 7202 | 7464 | 7725 | 7987 | 8250 | 8512 | 8774 | 9336 | 9298 | 9560 | 9823 | 0085 | 0347 | 0310 | 198 | 48 | 1973 |
| 216 | 49 | | 6663 | 6925 | 7186 | 7448 | 7710 | 7972 | 8233 | 8495 | 8757 | 9019 | 9281 | 9543 | 9805 | 0068 | 0333 | 8592 | 0854 | 202 | 49 | 2222 |
| 228 | 33 | 8 (0) | 6910 | 7171 | 7433 | 7694 | 7956 | 8218 | 8179 | 8741 | 9003 | 9265 | 9527 | 9789 | 0051 | 0313 | 0575 | 8837 | 1099 | 206 | 50 | 8 2471 |
| 295 | 31 | | 7156 | 7418 | 7379 | 7941 | 8202 | 8464 | 8725 | 8987 | 9249 | 9511 | 9772 | 0034 | 0296 | 0558 | 0820 | 1082 | 1344 | 210 | 31 | 2720 |
| 229 | 52 | | 7403 | 7665 | 7926 | 8187 | 8449 | 8710 | 8971 | 9933 | 9495 | 9756 | 0018 | 0280 | 0541 | 0803 | 1065 | 1327 | 1589 | 214 | 32 | 2969 |
| 234 | 53 | | 7650 | 7911 | 8173 | 8434 | 8695 | 8956 | 9218 | 9479 | 9741 | 0002 | 0263 | 0525 | 0787 | 1048 | 1310 | 1572 | 1833 | 919 | 53 | 3218 |
| 238 | 34 | | 7897 | 8158 | 8419 | 8680 | 8941 | 9203 | 9464 | 9725 | 9286 | 0248 | 0509 | 0771 | 1032 | 1294 | 1555 | 1817 | 2878 | 223 | 31 | 3467 |
| 242 | 33 | 8 (9) | 3144 | 8405 | 8666 | 8927 | 9188 | 9449 | 9710 | 9971 | 0232 | 0494 | 0755 | 1016 | 1278 | 1539 | 1800 | 2062 | 2323 | 227 | 55 | 6 3716 |
| 247 | 36 | | 8391 | 8652 | 8913 | 9173 | 9434 | 9695 | 9956 | 0217 | 0478 | 0739 | 1001 | 1262 | 1523 | 1784 | 2046 | 2307 | 2568 | 231 | 56 | 3965 |
| 251 | 37 | | 8638 | 8899 | 9159 | 9420 | 9681 | 9942 | 0233 | 0463 | 0794 | 0985 | 1246 | 1507 | 1769 | 2030 | 2291 | 2552 | 9813 | 235 | 57 | 4214 |
| 256 | 58 | | 8885 | 9146 | 9406 | 9667 | 9927 | 0188 | 0449 | 0710 | 0970 | 1231 | 1492 | 1753 | 2014 | 2275 | 2536 | 2797 | 3058 | 239 | 58 | 4463 |
| 260 | 59 | | 9132 | 9393 | 9653 | 9914 | 0174 | 0435 | 0695 | 0956 | 1217 | 1477 | 1738 | 1999 | 2260 | 2521 | 2782 | 3843 | 3384 | 243 | 32 | 4713 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancis aparente. . . . . y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 59° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 59° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Argumento Auxiliar. | | | | | | | | | | | | | | |
| 0 | 0' | 8 | 4962 | 5221 | 5481 | 6741 | 6000 | 6260 | 6520 | 6779 | 7039 | 7229 | 7659 | 7819 | 8079 | 0339 | 8599 | 8869 | 2112 | 247 | 6' | 2 2673 |
| 4 | 1 | | 6211 | 5471 | 5730 | 5990 | 6249 | 6509 | 6758 | 7028 | 7288 | 7547 | 7807 | 8067 | 8327 | 8587 | 8847 | 2107 | 2367 | 243 | 1 | 9426 |
| 9 | 2 | | 5461 | 5720 | 5279 | 6239 | 5498 | 6757 | 7017 | 7275 | 7536 | 7796 | 8055 | 8315 | 8575 | 8834 | 9094 | 9354 | 9514 | 239 | 2 | 2179 |
| 13 | 3 | | 5710 | 5269 | 6228 | 5488 | 6747 | 7006 | 7255 | 7525 | 7784 | 8044 | 8303 | 8553 | 8823 | 9082 | 9342 | 2602 | 9862 | 235 | 3 | 8932 |
| 17 | 4 | 8 (9) | 6960 | 6219 | 6478 | 6737 | 6996 | 7255 | 7514 | 7774 | 8033 | 8292 | 8552 | 8811 | 9071 | 9330 | 9590 | 9849 | 0102 | 231 | 4 | 8685 |
| 21 | 5 | 8 (9) | 6209 | 6458 | 6727 | 6986 | 7245 | 7504 | 7763 | 8022 | 8281 | 8541 | 8800 | 9059 | 9319 | 9578 | 9837 | 0097 | 0357 | 227 | 5 | 2 8438 |
| 26 | 6 | | 6459 | 6717 | 6976 | 7235 | 7494 | 7753 | 8012 | 8271 | 8530 | 8789 | 9048 | 9307 | 9557 | 9826 | 0085 | 0345 | 0504 | 223 | 6 | 8121 |
| 30 | 7 | | 6708 | 6967 | 7225 | 7484 | 7743 | 8002 | 8261 | 8520 | 8779 | 9038 | 9297 | 9556 | 9015 | 0074 | 0333 | 0592 | 0852 | 219 | 7 | 7944 |
| 34 | 8 | | 6958 | 7216 | 7475 | 7734 | 7992 | 8251 | 8510 | 8758 | 9027 | 9286 | 9545 | 9804 | 0063 | 0322 | 0581 | 0840 | 1099 | 214 | 6 | 7697 |
| 38 | 9 | | 7208 | 7455 | 7724 | 7983 | 8242 | 8500 | 8759 | 9017 | 9276 | 9535 | 9793 | 0052 | 0311 | 0570 | 0829 | 1088 | 1347 | 210 | 2 | 7450 |
| 43 | 10 | 8 (9) | 7457 | 7716 | 7974 | 8232 | 8491 | 8749 | 9008 | 9266 | 9525 | 9783 | 0042 | 0301 | 0559 | 0818 | 1077 | 1336 | 1595 | 206 | 10 | 2 7203 |
| 47 | 11 | | 7707 | 7965 | 8224 | 8482 | 8740 | 8998 | 9257 | 9515 | 9774 | 0032 | 0291 | 0549 | 0808 | 1065 | 1325 | 1584 | 1842 | 202 | 11 | 5956 |
| 51 | 12 | | 7957 | 8215 | 8473 | 8731 | 8989 | 9248 | 9506 | 9764 | 0022 | 0281 | 0539 | 0798 | 1056 | 1315 | 1573 | 1832 | 2090 | 198 | 12 | 6709 |
| 56 | 13 | | 8207 | 8465 | 8723 | 8981 | 9239 | 9497 | 9755 | 0013 | 0271 | 0529 | 0788 | 1045 | 1304 | 1553 | 1821 | 2080 | 2338 | 194 | 13 | 5461 |
| 60 | 14 | | 8457 | 8715 | 8972 | 9230 | 9488 | 9746 | 0004 | 0262 | 0520 | 0778 | 1036 | 1295 | 1553 | 1811 | 2069 | 2328 | 2585 | 190 | 14 | 6214 |
| 64 | 15 | 8 (9) | 8707 | 8964 | 2222 | 9480 | 9738 | 9925 | 0253 | 0511 | 0759 | 1027 | 1285 | 1543 | 1801 | 2059 | 2318 | 2576 | 2834 | 106 | 15 | 2 5967 |
| 68 | 16 | | 8957 | 9214 | 9472 | 2730 | 9987 | 0245 | 0503 | 0750 | 1018 | 1275 | 1534 | 1792 | 2050 | 2308 | 2566 | 2021 | 3082 | 101 | 15 | 5712 |
| 73 | 17 | | 2207 | 9464 | 9722 | 9979 | 0237 | 0494 | 0762 | 1010 | 1267 | 1525 | 1783 | 2040 | 2298 | 2556 | 2814 | 3072 | 3330 | 177 | 17 | 5471 |
| 77 | 10 | | 2457 | 2714 | 2972 | 0229 | 0485 | 0744 | 1001 | 1259 | 1516 | 1774 | 2031 | 2289 | 2547 | 2805 | 3062 | 3320 | 3578 | 173 | 18 | 5224 |
| 81 | 19 | | 9707 | 9964 | 0222 | 0479 | 0735 | 0993 | 1251 | 1508 | 1765 | 2023 | 2280 | 2538 | 2796 | 3053 | 3311 | 3569 | 3826 | 169 | 19 | 4977 |
| 65 | 20 | 8 (9) | 9957 | 0214 | 0471 | 0729 | 0986 | 1243 | 1500 | 1757 | 2015 | 2272 | 2529 | 2787 | 3044 | 3302 | 3559 | 3817 | 4075 | 165 | 20 | 2 4722 |
| 90 | 21 | 2 | 0208 | 0464 | 0721 | 0978 | 1235 | 1492 | 1749 | 2007 | 2264 | 2521 | 2778 | 3036 | 3293 | 3550 | 3808 | 4065 | 4323 | 161 | 21 | 4481 |
| 24 | 22 | | 0458 | 0715 | 0971 | 1228 | 1485 | 1742 | 1999 | 2255 | 2513 | 2770 | 3027 | 3284 | 3542 | 3799 | 4056 | 4314 | 4571 | 157 | 22 | 4234 |
| 98 | 23 | | 0708 | 0965 | 1221 | 1478 | 1735 | 1992 | 2249 | 2505 | 2752 | 3019 | 3275 | 3533 | 3790 | 4048 | 4305 | 4562 | 4019 | 153 | 23 | 3986 |
| 102 | 21 | | 0959 | 1215 | 1472 | 1728 | 1985 | 2241 | 2498 | 2755 | 3012 | 3269 | 3525 | 3782 | 4039 | 4296 | 4553 | 4810 | 5068 | 148 | 24 | 3738 |
| 107 | 25 | 9 | 1209 | 1465 | 1722 | 1978 | 2235 | 2491 | 2748 | 3004 | 3261 | 3518 | 3775 | 4031 | 4288 | 4545 | 4802 | 5059 | 5316 | 144 | 25 | 2 3490 |
| 111 | 26 | | 1459 | 1716 | 1972 | 2220 | 2485 | 2741 | 2997 | 3254 | 3510 | 3767 | 4024 | 4280 | 4537 | 4794 | 5051 | 5308 | 5554 | 140 | 26 | 3242 |
| 115 | 27 | | 1710 | 1966 | 2222 | 2478 | 2735 | 2991 | 3247 | 3504 | 3760 | 4016 | 4273 | 4529 | 4786 | 5043 | 5299 | 5555 | 5813 | 136 | 27 | 2995 |
| 120 | 20 | | 1950 | 2216 | 2472 | 2728 | 2985 | 3241 | 3497 | 3753 | 4010 | 4266 | 4522 | 4779 | 5035 | 5292 | 5548 | 5805 | 6061 | 132 | 20 | 2747 |
| 124 | 29 | | 2211 | 2467 | 2723 | 2279 | 3235 | 3491 | 3747 | 4003 | 4259 | 4515 | 4772 | 5028 | 5284 | 5541 | 5797 | 5053 | 6310 | 128 | 29 | 2499 |
| 128 | 30 | 9 | 2462 | 2717 | 2273 | 3229 | 3485 | 3741 | 3997 | 4253 | 4509 | 4765 | 5021 | 5277 | 5533 | 5790 | 5046 | 6302 | 5558 | 124 | 30 | 2 2251 |
| 132 | 31 | | 2712 | 2968 | 3224 | 3479 | 3735 | 3991 | 4247 | 4502 | 4758 | 5014 | 5270 | 5526 | 5782 | 6039 | 6295 | 6551 | 6007 | 120 | 31 | 2003 |
| 137 | 32 | | 2953 | 3218 | 3474 | 3730 | 3985 | 4241 | 4497 | 4752 | 5008 | 5264 | 5520 | 5776 | 6032 | 6288 | 5544 | 6800 | 7056 | 115 | 32 | 1754 |
| 141 | 33 | | 3214 | 3469 | 3724 | 3980 | 4235 | 4491 | 4747 | 5002 | 5258 | 5513 | 5769 | 5025 | 5281 | 5537 | 6793 | 7049 | 7305 | 111 | 33 | 1506 |
| 145 | 34 | | 3464 | 3720 | 3975 | 4230 | 4486 | 4741 | 4997 | 5252 | 5508 | 5763 | 6019 | 6274 | 5530 | 5786 | 7042 | 7297 | 7553 | 107 | 34 | 1258 |
| 149 | 35 | 9 | 3715 | 3970 | 4226 | 4481 | 4736 | 4291 | 5247 | 5502 | 5757 | 6013 | 5258 | 6524 | 6779 | 7035 | 7291 | 7546 | 7802 | 103 | 35 | 2 1010 |
| 154 | 36 | | 3966 | 4221 | 4476 | 4731 | 4986 | 5242 | 5497 | 5752 | 6007 | 6263 | 6518 | 6773 | 7029 | 7284 | 7540 | 7795 | 8051 | 29 | 36 | 0761 |
| 158 | 37 | | 4217 | 4472 | 4727 | 4982 | 5237 | 5492 | 5747 | 6002 | 6257 | 6512 | 6768 | 7023 | 7278 | 7533 | 7789 | 8044 | 8300 | 95 | 37 | 0513 |
| 162 | 38 | | 4458 | 4723 | 4970 | 5232 | 5487 | 5742 | 5997 | 5252 | 5507 | 6762 | 7017 | 7272 | 7528 | 7783 | 8038 | 8293 | 8549 | 91 | 30 | 0265 |
| 166 | 39 | | 4719 | 4974 | 6220 | 5483 | 5730 | 5992 | 6247 | 6502 | 6757 | 7012 | 7267 | 7522 | 7777 | 8032 | 8287 | 0542 | 8798 | 67 | 39 | 0016 |
| 171 | 40 | 9 | 4970 | 5225 | 5479 | 5734 | 5988 | 6243 | 6498 | 6752 | 7007 | 7262 | 7517 | 7772 | 8027 | 8282 | 8537 | 8792 | 9047 | 62 | 40 | 1 9768 |
| 175 | 41 | | 5221 | 5475 | 6730 | 5984 | 6239 | 6493 | 5748 | 7003 | 7257 | 7512 | 7767 | 8021 | 8276 | 8531 | 8786 | 9041 | 9296 | 78 | 41 | 9519 |
| 179 | 42 | | 6472 | 5727 | 6981 | 6235 | 6489 | 6744 | 6998 | 7253 | 7507 | 7762 | 8015 | 8271 | 8526 | 8781 | 9035 | 9290 | 9545 | 74 | 42 | 9271 |
| 104 | 43 | | 5723 | 5978 | 6232 | 6486 | 6740 | 6994 | 7249 | 7503 | 7757 | 8012 | 8266 | 8521 | 8775 | 9030 | 9285 | 9539 | 9794 | 70 | 43 | 9022 |
| 180 | 44 | 9 (0) | 5975 | 6229 | 6483 | 6737 | 6991 | 7245 | 7499 | 7763 | 8008 | 8262 | 8516 | 8771 | 9025 | 9280 | 9534 | 9789 | 0043 | 66 | 44 | 8773 |
| 192 | 45 | 2 (0) | 6226 | 5480 | 6734 | 6980 | 7242 | 7196 | 7750 | 8004 | 8258 | 8512 | 8766 | 9021 | 9275 | 9529 | 9784 | 0038 | 0293 | 62 | 45 | 1 0525 |
| 196 | 46 | | 6477 | 6731 | 6985 | 7239 | 7492 | 7746 | 8000 | 8254 | 8508 | 8762 | 9016 | 9270 | 9525 | 9779 | 0033 | 0287 | 0542 | 58 | 46 | 8275 |
| 201 | 47 | | 6729 | 6982 | 7236 | 7490 | 7743 | 7997 | 8251 | 8505 | 8759 | 9012 | 9266 | 9520 | 9774 | 0029 | 0283 | 0537 | 0791 | 64 | 47 | 8027 |
| 205 | 48 | | 6980 | 7234 | 7487 | 7741 | 7994 | 8248 | 8501 | 8755 | 9009 | 9263 | 9517 | 9770 | 0024 | 0278 | 0532 | 0786 | 1040 | 49 | 48 | 7770 |
| 209 | 42 | | 7231 | 7485 | 7738 | 7992 | 8245 | 8498 | 8752 | 9006 | 9259 | 9513 | 9757 | 0020 | 0274 | 0528 | 0782 | 1036 | 1290 | 45 | 49 | 7622 |
| 213 | 50 | 9 (0) | 7483 | 7736 | 7989 | 8243 | 8496 | 8749 | 9003 | 9255 | 9510 | 9763 | 0017 | 0271 | 0524 | 0778 | 1032 | 1285 | 1539 | 41 | 60 | 1 7280 |
| 218 | 51 | | 7734 | 7987 | 8241 | 8494 | 8747 | 9000 | 9254 | 9507 | 9760 | 0014 | 0267 | 0521 | 0774 | 1028 | 1281 | 1535 | 1789 | 37 | 61 | 7031 |
| 222 | 62 | | 7986 | 8239 | 8492 | 8745 | 8998 | 9251 | 9504 | 9758 | 0011 | 0264 | 0517 | 0771 | 1024 | 1278 | 1531 | 1785 | 2038 | 33 | 62 | 6782 |
| 226 | 53 | | 0238 | 8490 | 8743 | 8996 | 9249 | 9502 | 9755 | 0008 | 0261 | 0514 | 0768 | 1021 | 1274 | 1528 | 1781 | 2034 | 2288 | 22 | 53 | 6533 |
| 230 | 54 | | 6489 | 8742 | 8995 | 9247 | 9500 | 9753 | 0006 | 0259 | 0512 | 0765 | 1018 | 1271 | 1624 | 1778 | 2031 | 2284 | 2537 | 25 | 54 | 6284 |
| 235 | 55 | 9 (0) | 8741 | 8993 | 9246 | 9499 | 9751 | 0004 | 0257 | 0510 | 0763 | 1016 | 1269 | 1521 | 1774 | 2028 | 2281 | 2534 | 2787 | 21 | 55 | 1 6035 |
| 239 | 56 | | 8993 | 9245 | 9498 | 9750 | 0003 | 0255 | 0508 | 0761 | 1013 | 1266 | 1519 | 1772 | 2025 | 2278 | 2531 | 2784 | 3037 | 16 | 56 | 5786 |
| 243 | 57 | | 2244 | 9497 | 2749 | 0001 | 0254 | 0505 | 0769 | 1011 | 1264 | 1517 | 1770 | 2022 | 2275 | 2528 | 2781 | 3034 | 3287 | 12 | 57 | 5537 |
| 240 | 58 | | 9496 | 2748 | 0001 | 0253 | 0505 | 0758 | 1010 | 1262 | 1515 | 1767 | 2020 | 2273 | 2525 | 2778 | 3031 | 3283 | 3535 | 8 | 50 | 6287 |
| 252 | 52 | | 9748 | 0000 | 0252 | 0504 | 0757 | 1009 | 1261 | 1513 | 1766 | 2010 | 2271 | 2523 | 2776 | 3028 | 3281 | 3533 | 3786 | 4 | 69 | 5036 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 59° | | 17′ | 18′ | 19′ | 26′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 39′ | 31′ | 39′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 0 | 0′ | 8 (9) | 9360 | 9640 | 9908 | 0160 | 9421 | 0681 | 9942 | 1202 | 1463 | 1723 | 1984 | 2245 | 2595 | 9766 | 3827 | 3288 | 3549 |
| 4 | 1 | | 9627 | 9887 | 9147 | 0407 | 0668 | 0928 | 1188 | 1449 | 1709 | 1969 | 2230 | 2491 | 2751 | 3012 | 3272 | 3533 | 3794 |
| 9 | 2 | | 9874 | 0134 | 9394 | 0654 | 0214 | 1175 | 1435 | 1695 | 1955 | 2216 | 9476 | 2736 | 2997 | 3257 | 3518 | 3779 | 4039 |
| 13 | 3 | 9 | 6121 | 9381 | 0641 | 0901 | 1161 | 1421 | 1681 | 1941 | 2201 | 2462 | 2722 | 2982 | 3243 | 3503 | 3763 | 4024 | 4285 |
| 17 | 4 | | 6369 | 0628 | 9888 | 1148 | 1408 | 1668 | 1928 | 2188 | 2448 | 2708 | 2968 | 3228 | 3489 | 3749 | 4009 | 4269 | 4530 |
| 21 | 5 | 9 | 6616 | 0876 | 1135 | 1395 | 1655 | 1915 | 2174 | 2434 | 2694 | 2954 | 3214 | 3474 | 3731 | 3995 | 4235 | 4515 | 4775 |
| 26 | 6 | | 0864 | 1123 | 1383 | 1642 | 1902 | 2161 | 2421 | 2681 | 2941 | 3901 | 3460 | 3720 | 3980 | 4210 | 4500 | 4760 | 5021 |
| 30 | 7 | | 1111 | 1370 | 1630 | 1889 | 2149 | 2408 | 2668 | 9928 | 3187 | 3447 | 3707 | 3966 | 4926 | 4486 | 4746 | 5006 | 5266 |
| 34 | 8 | | 1359 | 1618 | 1877 | 2136 | 2396 | 9655 | 2915 | 3174 | 3434 | 3693 | 3953 | 4913 | 4472 | 4732 | 4992 | 5252 | 5512 |
| 39 | 9 | | 1606 | 1865 | 2124 | 2384 | 9643 | 9902 | 3161 | 3421 | 3680 | 3940 | 4199 | 4459 | 4718 | 4978 | 5238 | 5497 | 5757 |
| 43 | 10 | 9 | 1854 | 9113 | 2372 | 2631 | 2890 | 3149 | 3408 | 3668 | 3927 | 4186 | 4416 | 4705 | 4964 | 5224 | 5184 | 5743 | 6003 |
| 47 | 11 | | 2191 | 9360 | 2619 | 2878 | 3137 | 3396 | 3655 | 3914 | 4174 | 4433 | 4692 | 4951 | 5211 | 5470 | 5729 | 5989 | 6248 |
| 51 | 12 | | 2349 | 2608 | 2867 | 3125 | 3384 | 3643 | 3902 | 4161 | 4420 | 4679 | 4938 | 5198 | 5457 | 5716 | 5975 | 6235 | 6494 |
| 56 | 13 | | 2597 | 2855 | 3114 | 3373 | 3631 | 3890 | 4149 | 4498 | 4667 | 4926 | 5185 | 5444 | 5703 | 5962 | 6221 | 6480 | 6740 |
| 60 | 14 | | 2845 | 3193 | 3362 | 3620 | 3879 | 4137 | 4396 | 4655 | 4914 | 5172 | 5431 | 5690 | 5949 | 6298 | 6467 | 6726 | 6985 |
| 64 | 15 | 9 | 3092 | 3351 | 3609 | 3868 | 4126 | 4385 | 4645 | 4902 | 5160 | 5419 | 5678 | 5937 | 6196 | 6454 | 6713 | 6972 | 7231 |
| 69 | 16 | | 3340 | 3598 | 3857 | 4115 | 4373 | 4632 | 4890 | 5149 | 5407 | 5666 | 5925 | 6183 | 6442 | 6701 | 6959 | 7218 | 7477 |
| 73 | 17 | | 3588 | 3846 | 4104 | 4363 | 4621 | 4879 | 5137 | 5396 | 5654 | 5913 | 6171 | 6430 | 6688 | 6947 | 7206 | 7464 | 7723 |
| 77 | 18 | | 3036 | 4094 | 4352 | 4610 | 4868 | 5126 | 5385 | 5613 | 5901 | 6159 | 6418 | 6676 | 6935 | 7193 | 7452 | 7710 | 7969 |
| 61 | 19 | | 4084 | 4342 | 4600 | 4858 | 5115 | 5374 | 5632 | 5890 | 6148 | 6406 | 6655 | 6923 | 7181 | 7440 | 7698 | 7956 | 8215 |
| 86 | 20 | 9 | 4332 | 4590 | 4848 | 5105 | 5363 | 5621 | 5879 | 6137 | 6395 | 6653 | 6911 | 7170 | 7428 | 7686 | 7944 | 8203 | 8461 |
| 90 | 21 | | 4580 | 4838 | 5095 | 5353 | 5611 | 5869 | 6126 | 6384 | 6642 | 6900 | 7158 | 7416 | 7674 | 7932 | 8191 | 8449 | 8707 |
| 24 | 92 | | 4828 | 5086 | 5343 | 5601 | 5859 | 6116 | 6374 | 6632 | 6889 | 7147 | 7405 | 7663 | 7921 | 8179 | 8437 | 8695 | 8953 |
| 99 | 23 | | 5076 | 5334 | 5591 | 5849 | 6106 | 6364 | 6621 | 6879 | 7137 | 7394 | 7652 | 7910 | 8168 | 8425 | 8683 | 8941 | 9199 |
| 103 | 24 | | 5325 | 5582 | 5839 | 6097 | 6354 | 6611 | 6869 | 7126 | 7384 | 7641 | 7899 | 8157 | 8414 | 8672 | 8930 | 9188 | 9445 |
| 107 | 25 | 9 | 5573 | 5839 | 6087 | 6344 | 6602 | 6859 | 7116 | 7374 | 7631 | 7888 | 8146 | 8403 | 8661 | 8919 | 9176 | 9434 | 9692 |
| 111 | 26 | | 5821 | 6078 | 6335 | 6592 | 6849 | 7107 | 7364 | 7621 | 7878 | 8136 | 8393 | 8650 | 8908 | 9165 | 9423 | 9680 | 9938 |
| 116 | 27 | 9 (0) | 6078 | 6326 | 6583 | 6849 | 7097 | 7354 | 7611 | 7868 | 8126 | 8383 | 8640 | 8897 | 9155 | 9412 | 9669 | 9927 | 0184 |
| 120 | 28 | | 6318 | 6575 | 6831 | 7088 | 7345 | 7602 | 7859 | 8116 | 8373 | 8630 | 8887 | 9144 | 9401 | 9659 | 9916 | 0173 | 0431 |
| 194 | 29 | | 6566 | 6823 | 7080 | 7336 | 7593 | 7850 | 8107 | 8363 | 8620 | 8877 | 9134 | 9391 | 9648 | 9905 | 0163 | 0420 | 0677 |
| 129 | 30 | 9 (9) | 6815 | 7971 | 7328 | 7584 | 7841 | 8098 | 8354 | 8611 | 8868 | 9125 | 9382 | 9638 | 9895 | 0152 | 0409 | 0666 | 0923 |
| 133 | 31 | | 7063 | 7398 | 7576 | 7833 | 8089 | 8346 | 8602 | 8859 | 9115 | 9372 | 9629 | 9886 | 0142 | 0399 | 0656 | 0913 | 1170 |
| 137 | 32 | | 7312 | 7568 | 7824 | 8081 | 8337 | 8594 | 8850 | 9106 | 9363 | 9619 | 9876 | 0133 | 0389 | 0646 | 0903 | 1160 | 1416 |
| 141 | 33 | | 7561 | 7817 | 8073 | 8329 | 8585 | 8842 | 9098 | 9354 | 9610 | 9867 | 0123 | 0380 | 0636 | 0893 | 1150 | 1406 | 1663 |
| 146 | 34 | | 7809 | 8965 | 8391 | 8577 | 8833 | 9090 | 9346 | 9602 | 9858 | 0114 | 0371 | 0627 | 0884 | 1140 | 1397 | 1655 | 1910 |
| 150 | 35 | 9 (0) | 8958 | 8314 | 8570 | 8826 | 9081 | 9338 | 9594 | 9850 | 0106 | 0362 | 0618 | 9874 | 1131 | 1387 | 1643 | 1900 | 2156 |
| 154 | 36 | | 8307 | 8562 | 8818 | 9074 | 9330 | 9586 | 9849 | 0097 | 0353 | 0609 | 0866 | 1122 | 1378 | 1634 | 1890 | 2147 | 2403 |
| 159 | 37 | | 8555 | 8811 | 9067 | 9322 | 9578 | 9834 | 0090 | 0345 | 0601 | 0857 | 1113 | 1369 | 1625 | 1881 | 2137 | 2393 | 2650 |
| 163 | 38 | | 8804 | 9060 | 9315 | 9571 | 9896 | 0682 | 0338 | 0593 | 0849 | 1105 | 1361 | 1616 | 1872 | 2128 | 2384 | 2640 | 2896 |
| 157 | 39 | | 9053 | 9308 | 9564 | 9819 | 0075 | 0330 | 0586 | 0841 | 1097 | 1353 | 1608 | 1864 | 2120 | 2375 | 2631 | 2887 | 3143 |
| 171 | 40 | 9 (8) | 9302 | 9557 | 9812 | 0068 | 0323 | 9578 | 0834 | 1089 | 1345 | 1600 | 1856 | 2111 | 2367 | 2623 | 2878 | 3134 | 3390 |
| 176 | 41 | | 9551 | 9806 | 9061 | 0316 | 0571 | 0827 | 1082 | 1337 | 1593 | 1848 | 2103 | 2359 | 2614 | 2870 | 3126 | 3381 | 1637 |
| 180 | 42 | | 9800 | 0055 | 0310 | 0565 | 9820 | 1075 | 1330 | 1585 | 1841 | 2096 | 2351 | 2606 | 2862 | 3117 | 3373 | 3628 | 3884 |
| 184 | 43 | 6 | 8049 | 0304 | 0558 | 0813 | 1068 | 1323 | 1578 | 1833 | 2089 | 2344 | 2599 | 2854 | 3109 | 3365 | 3620 | 3876 | 4131 |
| 169 | 44 | | 8298 | 0553 | 0807 | 1062 | 1317 | 1579 | 1827 | 2082 | 2337 | 2592 | 2847 | 3102 | 3357 | 3612 | 3867 | 4123 | 4378 |
| 193 | 45 | 0 | 0547 | 0802 | 1056 | 1311 | 1565 | 1820 | 2075 | 2330 | 2585 | 2840 | 3094 | 3349 | 3605 | 3860 | 4115 | 4370 | 4525 |
| 197 | 45 | | 0796 | 1051 | 1305 | 1560 | 1814 | 2069 | 2323 | 2578 | 2833 | 3088 | 3342 | 3597 | 3852 | 4107 | 4362 | 4617 | 4872 |
| 201 | 47 | | 1045 | 1309 | 1554 | 1898 | 2063 | 2317 | 2572 | 2826 | 3081 | 3336 | 3590 | 3845 | 4100 | 4355 | 4609 | 4864 | 5119 |
| 206 | 48 | | 1295 | 1549 | 1803 | 2057 | 2312 | 2565 | 9820 | 3075 | 3329 | 3584 | 3838 | 4093 | 4348 | 4602 | 4857 | 5112 | 5367 |
| 210 | 49 | | 1544 | 1798 | 2052 | 2306 | 2560 | 2815 | 3069 | 3323 | 3577 | 3832 | 4086 | 4341 | 4525 | 4850 | 5104 | 5359 | 5614 |
| 214 | 50 | 9 | 1793 | 2047 | 2301 | 2555 | 2809 | 3063 | 3317 | 3572 | 3826 | 4080 | 4334 | 4589 | 4843 | 5097 | 5352 | 5606 | 5861 |
| 212 | 51 | | 2043 | 2296 | 2550 | 2804 | 3058 | 3312 | 3566 | 3820 | 4074 | 4328 | 4582 | 4837 | 5091 | 5345 | 5600 | 5854 | 6108 |
| 223 | 52 | | 2292 | 9546 | 2799 | 3053 | 3307 | 3561 | 3815 | 4068 | 4323 | 4576 | 4830 | 5085 | 5339 | 5593 | 5847 | 5101 | 6356 |
| 227 | 53 | | 2541 | 9795 | 3048 | 3302 | 3556 | 3810 | 4063 | 4317 | 4571 | 4825 | 5078 | 5333 | 5587 | 5841 | 5095 | 5349 | 6603 |
| 231 | 54 | | 2791 | 3044 | 3298 | 3551 | 3805 | 4058 | 4312 | 4566 | 4819 | 5073 | 5327 | 5581 | 5835 | 6089 | 6342 | 6597 | 6851 |
| 236 | 55 | 0 | 3049 | 3994 | 3547 | 3800 | 4954 | 4307 | 4561 | 4814 | 5068 | 5329 | 5575 | 5829 | 6083 | 6336 | 6590 | 6844 | 7098 |
| 240 | 55 | | 3290 | 3543 | 3796 | 4050 | 4383 | 4556 | 4810 | 5063 | 5316 | 5570 | 5823 | 6077 | 6331 | 6584 | 6838 | 7092 | 7346 |
| 244 | 57 | | 3540 | 3723 | 4046 | 4999 | 4559 | 4805 | 5058 | 5312 | 5565 | 5618 | 6072 | 6325 | 5572 | 6832 | 7086 | 7339 | 7593 |
| 248 | 58 | | 3789 | 4042 | 4295 | 4548 | 4801 | 5054 | 5307 | 5560 | 5814 | 6067 | 5320 | 6574 | 6827 | 7080 | 7334 | 7587 | 7841 |
| 253 | 59 | | 4039 | 4292 | 4544 | 4797 | 5058 | 5303 | 5556 | 5809 | 6062 | 6315 | 6559 | 6822 | 7075 | 7328 | 7582 | 7835 | 8088 |

Num. IV para hallar la distancia corregida.

| Partes para segundos. | 59° | | Núm. |
|---|---|---|---|
| 0 | 0′ | 8 | 4962 |
| 4 | 1 | | 5211 |
| 8 | 2 | | 5461 |
| 13 | 3 | | 5710 |
| 17 | 4 | | 5960 |
| 21 | 5 | 8 | 6209 |
| 25 | 6 | | 6459 |
| 29 | 7 | | 6708 |
| 33 | 8 | | 6958 |
| 38 | 9 | | 7208 |
| 42 | 10 | 8 | 7457 |
| 46 | 11 | | 7707 |
| 50 | 12 | | 7957 |
| 54 | 13 | | 8207 |
| 58 | 14 | | 8157 |
| 63 | 15 | 8 | 8707 |
| 67 | 16 | | 8957 |
| 71 | 17 | | 9207 |
| 75 | 18 | | 9457 |
| 79 | 19 | | 9707 |
| 83 | 20 | 8 | 9957 |
| 88 | 21 | 9 | 0208 |
| 92 | 22 | | 0158 |
| 96 | 93 | | 0708 |
| 100 | 24 | | 0959 |
| 104 | 25 | 9 | 1209 |
| 109 | 26 | | 1459 |
| 113 | 27 | | 1710 |
| 117 | 28 | | 1960 |
| 121 | 29 | | 2211 |
| 125 | 30 | 9 | 2462 |
| 129 | 31 | | 2712 |
| 131 | 39 | | 2963 |
| 138 | 33 | | 3214 |
| 142 | 34 | | 3465 |
| 146 | 35 | 9 | 3715 |
| 150 | 36 | | 3966 |
| 154 | 37 | | 4217 |
| 159 | 38 | | 4468 |
| 163 | 39 | | 4719 |
| 167 | 40 | 9 | 4970 |
| 171 | 41 | | 5221 |
| 175 | 42 | | 5472 |
| 180 | 43 | | 5724 |
| 184 | 44 | | 5975 |
| 188 | 45 | 2 | 6226 |
| 192 | 46 | | 5477 |
| 196 | 47 | | 6729 |
| 200 | 48 | | 6980 |
| 205 | 49 | | 7231 |
| 209 | 50 | 9 | 7483 |
| 213 | 51 | | 7734 |
| 217 | 52 | | 7986 |
| 221 | 53 | | 8238 |
| 225 | 54 | | 8489 |
| 230 | 55 | 9 | 8741 |
| 234 | 56 | | 8923 |
| 238 | 57 | | 9244 |
| 242 | 58 | | 9496 |
| 245 | 52 | | 2748 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . .} y el Argumento Auxiliar.**

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 60° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 60° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 | 0000 | 0252 | 0504 | 0756 | 1008 | 1260 | 1512 | 1764 | 2017 | 2289 | 2521 | 2774 | 3026 | 3278 | 3531 | 3783 | 4036 | 250 | 0' | 1 4789 |
| 4 | 1 | | 0252 | 0504 | 0756 | 1007 | 1259 | 1511 | 1763 | 2015 | 2268 | 2520 | 2772 | 3024 | 3278 | 3529 | 3781 | 4033 | 4286 | 246 | 1 | 4539 |
| 8 | 2 | | 0504 | 0756 | 1007 | 1259 | 1511 | 1763 | 2015 | 2267 | 2519 | 2771 | 3023 | 3275 | 3527 | 3779 | 4031 | 4284 | 4536 | 242 | 2 | 4290 |
| 12 | 3 | | 0756 | 1007 | 1259 | 1511 | 1762 | 2014 | 2286 | 2518 | 2770 | 3021 | 3273 | 3525 | 3777 | 4029 | 4282 | 4534 | 4786 | 238 | 3 | 4040 |
| 17 | 4 | | 1008 | 1259 | 1511 | 1769 | 2014 | 2285 | 2517 | 2769 | 3021 | 3272 | 3524 | 3778 | 4028 | 4280 | 4532 | 4784 | 5036 | 234 | 4 | 3791 |
| 21 | 5 | 0 | 1280 | 1511 | 1783 | 2014 | 2265 | 2517 | 2788 | 3020 | 3272 | 3523 | 3775 | 4027 | 4279 | 4530 | 4782 | 5034 | 5288 | 230 | 5 | 1 3541 |
| 25 | 6 | | 1512 | 1763 | 2015 | 2266 | 2517 | 2760 | 3020 | 3271 | 3523 | 3774 | 4028 | 4278 | 4529 | 4781 | 5032 | 5284 | 5538 | 225 | 6 | 3292 |
| 29 | 7 | | 1784 | 2015 | 2267 | 2518 | 2789 | 3020 | 3271 | 3523 | 3774 | 4025 | 4277 | 4528 | 4780 | 5031 | 5283 | 5535 | 5786 | 221 | 7 | 3042 |
| 33 | 8 | | 2017 | 2288 | 2519 | 2769 | 3021 | 3272 | 3523 | 3774 | 4025 | 4278 | 4528 | 4779 | 5030 | 5282 | 5533 | 5785 | 6036 | 217 | 8 | 2793 |
| 37 | 9 | | 2269 | 2520 | 2771 | 3021 | 3272 | 3523 | 3774 | 4025 | 4278 | 4528 | 4779 | 5030 | 5281 | 5533 | 5784 | 6035 | 6287 | 213 | 9 | 2543 |
| 41 | 10 | 0 | 2521 | 2772 | 3023 | 3273 | 3524 | 3775 | 4028 | 4277 | 4528 | 4779 | 5030 | 5281 | 5532 | 5783 | 6034 | 6286 | 6537 | 209 | 10 | 1 2293 |
| 48 | 11 | | 2774 | 3024 | 3275 | 3525 | 3778 | 4027 | 4278 | 4528 | 4779 | 5030 | 5281 | 5532 | 5703 | 5034 | 6285 | 6536 | 6787 | 205 | 11 | 2043 |
| 50 | 19 | | 3026 | 3276 | 3527 | 3777 | 4028 | 4279 | 4529 | 4780 | 5030 | 5281 | 5532 | 5783 | 6031 | 6285 | 5536 | 6787 | 7038 | 200 | 12 | 1793 |
| 54 | 13 | | 3278 | 3529 | 3779 | 4029 | 4280 | 4530 | 4781 | 5031 | 5282 | 5533 | 5783 | 6034 | 8285 | 8535 | 6786 | 7037 | 7288 | 196 | 13 | 1543 |
| 58 | 14 | | 3531 | 3781 | 4031 | 4282 | 4532 | 4782 | 5032 | 5283 | 5533 | 5784 | 6034 | 6285 | 6538 | 6786 | 7037 | 7288 | 7539 | 192 | 14 | 1293 |
| 62 | 15 | 0 | 3783 | 4033 | 4284 | 4534 | 4781 | 5034 | 5284 | 5535 | 5785 | 6035 | 0286 | 6536 | 8787 | 7037 | 7288 | 7538 | 7789 | 188 | 15 | 1 1043 |
| 86 | 16 | | 4036 | 4286 | 4536 | 4786 | 5036 | 5288 | 5536 | 5786 | 6038 | 0287 | 6537 | 0707 | 7038 | 7288 | 7539 | 7789 | 8040 | 184 | 16 | 0793 |
| 70 | 17 | | 4289 | 4538 | 4788 | 5038 | 0280 | 5530 | 5788 | 6038 | 8288 | 6530 | 6788 | 7038 | 7289 | 7539 | 7789 | 8039 | 8290 | 180 | 17 | 0513 |
| 75 | 18 | | 4541 | 4791 | 5011 | 5290 | 5510 | 5790 | 6010 | 8290 | 8540 | 6790 | 7040 | 7290 | 7510 | 7790 | 8010 | 8290 | 8511 | 175 | 18 | 0293 |
| 79 | 19 | | 4794 | 5043 | 0293 | 5543 | 5792 | 6042 | 6292 | 8542 | 6791 | 7041 | 7291 | 7541 | 7791 | 8041 | 8291 | 8541 | 0791 | 171 | 19 | 0043 |
| 83 | 20 | 0 | 5047 | 5296 | 5516 | 5795 | 6045 | 5294 | 8544 | 6793 | 7013 | 7293 | 7543 | 7792 | 8012 | 8292 | 8542 | 0792 | 9042 | 167 | 20 | 0 9792 |
| 87 | 21 | | 5300 | 5549 | 5798 | 6047 | 6297 | 6546 | 6796 | 7045 | 7295 | 7544 | 7794 | 8044 | 8293 | 8513 | 8793 | 9043 | 9293 | 163 | 21 | 9542 |
| 91 | 22 | | 5552 | 5801 | 6051 | 8300 | 6549 | 6798 | 7048 | 7297 | 7547 | 7796 | 8046 | 8295 | 8545 | 8794 | 9044 | 9294 | 9544 | 159 | 22 | 9292 |
| 95 | 23 | | 5805 | 6054 | 6303 | 6552 | 6801 | 7051 | 7300 | 7549 | 7790 | 8048 | 8297 | 8547 | 8796 | 9016 | 9295 | 9345 | 9794 | 154 | 23 | 9041 |
| 99 | 24 | 0 (1) | 6058 | 8307 | 8558 | 5805 | 7054 | 7303 | 7552 | 7801 | 8050 | 8300 | 8549 | 8798 | 9047 | 9297 | 9516 | 9798 | 0045 | 150 | 24 | 8791 |
| 104 | 25 | 0 (1) | 8311 | 6560 | 6809 | 7057 | 7306 | 7555 | 7804 | 8053 | 0302 | 8551 | 8800 | 9050 | 9299 | 9548 | 9797 | 0047 | 0298 | 146 | 25 | 0 8541 |
| 108 | 28 | | 8564 | 6813 | 7061 | 7310 | 7559 | 7808 | 8056 | 8305 | 8554 | 8803 | 9052 | 9301 | 9550 | 9800 | 0019 | 0298 | 0547 | 142 | 26 | 8290 |
| 112 | 27 | | 8817 | 7086 | 7314 | 7563 | 7811 | 8060 | 8309 | 8557 | 8806 | 9055 | 9304 | 9553 | 9802 | 0851 | 0300 | 0549 | 0798 | 138 | 27 | 8040 |
| 116 | 28 | | 7070 | 7319 | 7587 | 7815 | 8064 | 8312 | 8561 | 8810 | 9058 | 9307 | 9558 | 9805 | 0053 | 0302 | 0551 | 0800 | 1019 | 134 | 28 | 7789 |
| 120 | 29 | | 7323 | 7572 | 7820 | 8068 | 8318 | 8565 | 8813 | 9062 | 9310 | 9559 | 9808 | 0056 | 0305 | 0554 | 0802 | 1051 | 1300 | 129 | 29 | 7538 |
| 124 | 30 | 0 (1) | 7576 | 7825 | 8073 | 8321 | 8569 | 8817 | 9068 | 9314 | 9563 | 9811 | 0059 | 0308 | 0557 | 0805 | 1054 | 1303 | 1551 | 125 | 30 | 0 7288 |
| 128 | 31 | | 7830 | 8078 | 8326 | 8574 | 8822 | 9070 | 9318 | 9566 | 9815 | 0063 | 0311 | 0560 | 0808 | 1057 | 1305 | 1554 | 1802 | 121 | 31 | 7037 |
| 133 | 32 | | 8083 | 8331 | 8579 | 8827 | 9075 | 9323 | 9571 | 9819 | 0067 | 0315 | 0563 | 0812 | 1080 | 1308 | 1557 | 1805 | 2054 | 117 | 32 | 6786 |
| 137 | 33 | | 8336 | 8584 | 8832 | 9079 | 9327 | 9575 | 9823 | 0071 | 0319 | 0567 | 0815 | 1064 | 1312 | 1560 | 1808 | 2057 | 2305 | 113 | 33 | 8535 |
| 141 | 34 | | 8589 | 8837 | 9085 | 9332 | 9580 | 9828 | 0076 | 0324 | 0571 | 0819 | 1067 | 1315 | 1564 | 1812 | 2060 | 2308 | 2556 | 109 | 34 | 6285 |
| 145 | 35 | 0 (1) | 8843 | 9090 | 9338 | 9585 | 9833 | 0081 | 0328 | 0578 | 0894 | 1072 | 1319 | 1587 | 1815 | 2063 | 2311 | 2559 | 2808 | 104 | 35 | 0 8034 |
| 149 | 36 | | 9096 | 9344 | 9591 | 9838 | 0086 | 0333 | 0581 | 0899 | 1076 | 1324 | 1572 | 1819 | 2067 | 2315 | 2563 | 2011 | 3059 | 100 | 36 | 5783 |
| 153 | 37 | | 9350 | 9597 | 9844 | 0091 | 0339 | 0586 | 0831 | 1081 | 1329 | 1576 | 1824 | 2071 | 2319 | 2567 | 2815 | 3082 | 3310 | 98 | 37 | 5532 |
| 157 | 38 | | 9603 | 9850 | 0097 | 0345 | 0592 | 0839 | 1086 | 1334 | 1581 | 1829 | 2078 | 2323 | 2571 | 2819 | 3066 | 3314 | 3582 | 92 | 38 | 5281 |
| 182 | 39 | | 9857 | 0104 | 0351 | 0598 | 0845 | 1092 | 1339 | 1586 | 1834 | 2081 | 2328 | 2576 | 2823 | 3071 | 3318 | 3566 | 3813 | 88 | 39 | 5030 |
| 166 | 40 | 1 | 0110 | 0357 | 0604 | 0851 | 1098 | 1345 | 1592 | 1839 | 2086 | 2333 | 2581 | 2828 | 3075 | 3322 | 3570 | 3817 | 4065 | 83 | 40 | 0 4779 |
| 170 | 41 | | 0364 | 0611 | 0857 | 1104 | 1351 | 1598 | 1845 | 2092 | 2339 | 2586 | 2033 | 3080 | 3327 | 3574 | 3822 | 4069 | 4316 | 79 | 41 | 4528 |
| 174 | 42 | | 0617 | 0864 | 1111 | 1357 | 1604 | 1851 | 2098 | 2344 | 2591 | 2838 | 3085 | 3332 | 3579 | 3826 | 1074 | 4321 | 4568 | 75 | 42 | 4276 |
| 178 | 43 | | 0871 | 1118 | 1364 | 1811 | 1857 | 2104 | 2351 | 2597 | 2844 | 3091 | 3338 | 3585 | 3831 | 4078 | 4325 | 4572 | 4819 | 71 | 43 | 4025 |
| 182 | 44 | | 1125 | 1371 | 1618 | 1884 | 2111 | 2357 | 2604 | 2850 | 3097 | 3343 | 3590 | 3837 | 4081 | 4330 | 4577 | 4824 | 5071 | 67 | 44 | 3774 |
| 186 | 45 | 1 | 1379 | 1825 | 1871 | 2117 | 2384 | 2810 | 2857 | 3103 | 3349 | 3596 | 3843 | 4089 | 1336 | 4583 | 4829 | 5078 | 5323 | 63 | 45 | 0 3523 |
| 190 | 46 | | 1633 | 1879 | 2125 | 2371 | 2617 | 2863 | 3110 | 3356 | 3802 | 3849 | 4095 | 4342 | 4588 | 4835 | 5081 | 5328 | 5575 | 58 | 46 | 3271 |
| 195 | 47 | | 1886 | 2132 | 2378 | 2621 | 2870 | 3116 | 3363 | 3609 | 3855 | 4101 | 4348 | 4594 | 4840 | 5087 | 5333 | 5580 | 5827 | 54 | 47 | 3020 |
| 199 | 48 | | 2140 | 2386 | 2632 | 2878 | 3124 | 3370 | 3816 | 3862 | 4108 | 1354 | 1600 | 4847 | 5093 | 5339 | 5588 | 5832 | 8078 | 50 | 48 | 2769 |
| 203 | 49 | | 2394 | 2640 | 2808 | 3131 | 3377 | 3823 | 3889 | 4115 | 4361 | 1607 | 1853 | 5099 | 5315 | 5591 | 5838 | 8084 | 6330 | 46 | 49 | 2517 |
| 207 | 50 | 1 | 2648 | 2894 | 3139 | 3385 | 3631 | 3876 | 4122 | 1368 | 4614 | 4860 | 5108 | 5352 | 5598 | 5844 | 6090 | 6336 | 8582 | 42 | 50 | 0 2286 |
| 211 | 61 | | 2902 | 3148 | 3393 | 3639 | 3881 | 1130 | 4376 | 4621 | 4867 | 5113 | 5358 | 5604 | 5850 | 6096 | 6342 | 6588 | 6834 | 38 | 51 | 2014 |
| 215 | 52 | | 3156 | 3402 | 3647 | 3892 | 4138 | 1383 | 4629 | 4874 | 5120 | 5366 | 5611 | 5857 | 6103 | 6348 | 6594 | 6840 | 7086 | 33 | 52 | 1782 |
| 220 | 63 | | 3410 | 3656 | 3901 | 4146 | 4391 | 4637 | 4882 | 5128 | 5373 | 5619 | 5864 | 6110 | 8355 | 6601 | 6847 | 7092 | 7338 | 29 | 53 | 1511 |
| 224 | 54 | | 3865 | 3910 | 4155 | 4400 | 1645 | 4890 | 5138 | 5381 | 5628 | 5872 | 6117 | 6382 | 6608 | 6853 | 7099 | 7345 | 7590 | 25 | 54 | 1259 |
| 228 | 55 | 1 | 3919 | 4164 | 4409 | 1654 | 1899 | 5144 | 5389 | 5834 | 5879 | 6125 | 8370 | 8615 | 6881 | 7106 | 7351 | 7597 | 7842 | 21 | 55 | 0 1007 |
| 232 | 58 | | 4173 | 4418 | 4883 | 4907 | 5152 | 5397 | 5642 | 5887 | 8133 | 8378 | 5623 | 6888 | 7113 | 7359 | 7804 | 7849 | 8095 | 17 | 58 | 0756 |
| 236 | 57 | | 4427 | 4872 | 4917 | 5181 | 5408 | 5851 | 5898 | 8141 | 8388 | 8631 | 6876 | 7121 | 7366 | 7611 | 7058 | 8102 | 8347 | 13 | 57 | 0504 |
| 240 | 58 | | 4882 | 4928 | 5171 | 5415 | 5860 | 5905 | 8149 | 8394 | 8639 | 8884 | 7129 | 7374 | 7619 | 7864 | 8109 | 8354 | 8599 | 8 | 58 | 0252 |
| 244 | 59 | | 4936 | 5180 | 5425 | 5669 | 5914 | 6158 | 6403 | 8648 | 6892 | 7137 | 7382 | 7627 | 7872 | 8118 | 8381 | 8806 | 8851 | 4 | 59 | 0000 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar. | 60° | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 | 4209 | 4541 | 4794 | 5047 | 5300 | 5552 | 5805 | 6058 | 6311 | 6564 | 6817 | 7070 | 7323 | 7576 | 7830 | 8003 | 8336 |
| 4 | 1 | | 4538 | 4791 | 5043 | 5296 | 5549 | 5801 | 6054 | 6307 | 6560 | 6813 | 7066 | 7318 | 7572 | 7825 | 8078 | 8331 | 8584 |
| 8 | 2 | | 4788 | 5041 | 5293 | 5516 | 5798 | 6051 | 6303 | 6556 | 6809 | 7061 | 7314 | 7567 | 7820 | 8073 | 8326 | 8579 | 8832 |
| 13 | 3 | | 5038 | 5290 | 5543 | 5795 | 6047 | 6300 | 6552 | 6805 | 7057 | 7310 | 7563 | 7815 | 8068 | 8321 | 8574 | 8827 | 9079 |
| 17 | 4 | | 5288 | 5540 | 5792 | 6045 | 6297 | 6549 | 6802 | 7054 | 7306 | 7559 | 7811 | 0064 | 0316 | 0569 | 8822 | 9075 | 9327 |
| 21 | 5 | 0 | 5538 | 5790 | 6042 | 6294 | 6546 | 6798 | 7051 | 7303 | 7555 | 7808 | 8060 | 8312 | 8565 | 8817 | 9070 | 2323 | 9575 |
| 25 | 6 | | 5788 | 6040 | 6292 | 6544 | 6796 | 7048 | 7300 | 7552 | 7804 | 8056 | 8309 | 8561 | 8813 | 9066 | 2318 | 9571 | 9823 |
| 29 | 7 | 6 (1) | 6038 | 6290 | 6512 | 6793 | 7045 | 7297 | 7542 | 7801 | 8053 | 8305 | 8557 | 8810 | 9062 | 2314 | 9566 | 2819 | 0071 |
| 33 | 8 | | 6288 | 6540 | 6791 | 7043 | 7295 | 7547 | 7798 | 8050 | 8302 | 8554 | 8806 | 9058 | 9310 | 9563 | 9815 | 0067 | 0319 |
| 37 | 9 | | 6538 | 6790 | 7041 | 7293 | 7544 | 7796 | 8048 | 8300 | 8551 | 8803 | 9055 | 9307 | 2559 | 9811 | 0063 | 0315 | 0567 |
| 42 | 10 | 0 (1) | 6788 | 7040 | 7291 | 7543 | 7794 | 8046 | 8297 | 8549 | 8800 | 9052 | 9304 | 9556 | 9008 | 0059 | 0311 | 0563 | 0815 |
| 46 | 11 | | 7038 | 7290 | 7541 | 7792 | 0044 | 8295 | 8547 | 8798 | 9050 | 9301 | 9553 | 9805 | 0056 | 0308 | 0560 | 0812 | 1064 |
| 50 | 12 | | 7289 | 7540 | 7791 | 0042 | 8293 | 8545 | 8796 | 2047 | 9299 | 2550 | 9802 | 0053 | 0305 | C557 | 0808 | 1060 | 1312 |
| 54 | 13 | | 7539 | 7790 | 8041 | 8292 | 8543 | 8794 | 9046 | 2297 | 9548 | 9800 | 0051 | 0302 | 0554 | 0805 | 1057 | 1308 | 1550 |
| 58 | 14 | | 7789 | 0040 | 8291 | 8542 | 8723 | 9044 | 9295 | 2546 | 9797 | 0049 | 0300 | 0551 | 0802 | 1054 | 1305 | 1557 | 1808 |
| 62 | 15 | 0 (1) | 8040 | 8290 | 8541 | 8792 | 9043 | 2294 | 9545 | 9796 | 0047 | 0298 | 0549 | 0000 | 1051 | 1303 | 1554 | 1805 | 2057 |
| 66 | 16 | | 8290 | 8511 | 8721 | 9042 | 9293 | 9544 | 2794 | 0045 | 0296 | 0547 | 0798 | 1049 | 1300 | 1551 | 1802 | 2054 | 2305 |
| 71 | 17 | | 8541 | 8791 | 9042 | 2292 | 2543 | 9793 | 0014 | 0225 | 0546 | 0796 | 1047 | 1298 | 1542 | 1800 | 2051 | 2302 | 2553 |
| 75 | 18 | | 8791 | 9041 | 2292 | 9542 | 9793 | 0043 | 0294 | 0544 | 0795 | 1046 | 1296 | 1547 | 1798 | 2049 | 2300 | 2551 | 2802 |
| 79 | 19 | | 9042 | 2292 | 9542 | 9792 | 0043 | 0293 | 0544 | 0794 | 1045 | 1295 | 1546 | 1796 | 2047 | 2298 | 2549 | 2792 | 3050 |
| 83 | 20 | 0 (1) | 9292 | 9542 | 9792 | 0043 | 0293 | 0543 | 0793 | 1044 | 1224 | 1545 | 1795 | 2046 | 2226 | 2547 | 2797 | 3048 | 3292 |
| 67 | 21 | | 9543 | 2793 | 0043 | 0293 | 0543 | 0793 | 1043 | 1293 | 1544 | 1794 | 2041 | 2295 | 2545 | 2796 | 3046 | 3297 | 3547 |
| 91 | 22 | | 9723 | 0043 | 0293 | 0543 | 0793 | 1043 | 1293 | 1543 | 1793 | 2044 | 2294 | 2544 | 2724 | 3045 | 3295 | 3515 | 3796 |
| 96 | 23 | 1 | 0044 | 0294 | 0544 | 0793 | 1043 | 1293 | 1543 | 1793 | 2043 | 2293 | 2543 | 2793 | 3043 | 3291 | 3544 | 3794 | 4045 |
| 100 | 24 | | 0295 | 0544 | 0794 | 1044 | 1293 | 1543 | 1793 | 2043 | 2293 | 2543 | 2723 | 3043 | 3223 | 3543 | 3793 | 4043 | 4293 |
| 104 | 25 | 1 | 0546 | 0725 | 1045 | 1294 | 1544 | 1793 | 2043 | 2293 | 2542 | 2792 | 3042 | 3292 | 3542 | 3792 | 4042 | 4222 | 4542 |
| 108 | 26 | | 0796 | 1046 | 1295 | 1545 | 1794 | 2044 | 2223 | 2543 | 2792 | 3042 | 3292 | 3541 | 3791 | 4041 | 4291 | 4541 | 4721 |
| 112 | 27 | | 1047 | 1226 | 1545 | 1795 | 2044 | 2294 | 2543 | 2793 | 3042 | 3292 | 3541 | 3791 | 4041 | 4290 | 4540 | 4720 | 5040 |
| 116 | 20 | | 1298 | 1547 | 1796 | 2046 | 2295 | 2544 | 2793 | 3043 | 3292 | 3541 | 3791 | 4040 | 4290 | 4539 | 4789 | 5039 | 5288 |
| 120 | 29 | | 1549 | 1798 | 2047 | 2296 | 2545 | 2794 | 3043 | 3293 | 3542 | 3791 | 4041 | 4290 | 4539 | 4789 | 5038 | 5288 | 5537 |
| 125 | 30 | 1 | 1800 | 2049 | 2228 | 2547 | 2796 | 3045 | 3294 | 3543 | 3722 | 4041 | 4220 | 4539 | 4789 | 5038 | 5287 | 5537 | 5786 |
| 129 | 31 | | 2051 | 2300 | 2549 | 2797 | 3046 | 3225 | 3544 | 3793 | 4042 | 4291 | 4540 | 4782 | 5038 | 5287 | 5537 | 5786 | 6035 |
| 133 | 39 | | 2302 | 2551 | 2799 | 3048 | 3297 | 3545 | 3794 | 4043 | 4292 | 4541 | 4790 | 5039 | 5208 | 5537 | 5786 | 6035 | 6284 |
| 137 | 33 | | 2553 | 2802 | 3050 | 3299 | 3517 | 3796 | 1045 | 4293 | 4542 | 4791 | 5040 | 5288 | 5537 | 5786 | 6035 | 5284 | 5533 |
| 141 | 34 | | 2804 | 3053 | 3301 | 3550 | 3798 | 4046 | 4295 | 4543 | 4792 | 5041 | 5289 | 5538 | 5787 | 6036 | 6285 | 6533 | 6782 |
| 145 | 35 | 1 | 3056 | 3304 | 3552 | 3800 | 4042 | 4297 | 4545 | 4794 | 5042 | 5291 | 5539 | 5780 | 6037 | 6285 | 6534 | 6783 | 7032 |
| 149 | 26 | | 3307 | 3555 | 3803 | 1051 | 4299 | 4548 | 4796 | 5044 | 5292 | 5541 | 5782 | 6038 | 6286 | 6535 | 6783 | 7032 | 7281 |
| 154 | 37 | | 3558 | 3806 | 4054 | 4302 | 4550 | 4798 | 5046 | 5295 | 5543 | 5791 | 6039 | 6288 | 6536 | 6784 | 7033 | 7281 | 7530 |
| 158 | 38 | | 3809 | 4057 | 4305 | 4553 | 4801 | 5049 | 5297 | 5545 | 5793 | 6041 | 6289 | 6537 | 6786 | 7034 | 7282 | 7531 | 7779 |
| 162 | 39 | | 4061 | 4309 | 1556 | 4804 | 5052 | 5300 | 5547 | 5725 | 6043 | 6291 | 6532 | 6787 | 7036 | 7284 | 7532 | 7780 | 8028 |
| 166 | 40 | 1 | 4312 | 4560 | 4007 | 5055 | 5303 | 5550 | 5798 | 6046 | 6294 | 6542 | 6720 | 7037 | 7285 | 7533 | 7782 | 8030 | 8278 |
| 170 | 41 | | 4564 | 4811 | 5052 | 5306 | 5554 | 5801 | 6049 | 6226 | 6544 | 6792 | 7040 | 7288 | 7535 | 7783 | 6031 | 6279 | 8527 |
| 174 | 42 | | 4815 | 5062 | 5310 | 5557 | 5805 | 6052 | 6299 | 6547 | 6795 | 7042 | 7296 | 7538 | 7785 | 6033 | 8281 | 8529 | 8777 |
| 179 | 43 | | 6067 | 5314 | 5561 | 5808 | 6055 | 6303 | 6550 | 6798 | 7045 | 7223 | 7540 | 7788 | 8035 | 6283 | 8531 | 0775 | 9026 |
| 163 | 44 | | 6310 | 5565 | 5812 | 6059 | 6307 | 6554 | 6801 | 7048 | 7296 | 7543 | 7790 | 6030 | 0205 | 8533 | 6780 | 2028 | 9276 |
| 167 | 45 | 1 | 6570 | 5817 | 6064 | 6311 | 6550 | 6805 | 7052 | 7299 | 7546 | 7793 | 0041 | 8280 | 8535 | 8753 | 2030 | 9278 | 9525 |
| 191 | 46 | | 6821 | 6068 | 6315 | 6562 | 6609 | 7056 | 7303 | 7550 | 7797 | 8044 | 8221 | 8538 | 5785 | 9033 | 9280 | 9527 | 9775 |
| 195 | 47 | 1 (2) | 6073 | 6320 | 6566 | 6013 | 7060 | 7307 | 7554 | 7801 | 8047 | 8294 | 8541 | 5789 | 9036 | 9253 | 2530 | 9777 | 0024 |
| 199 | 40 | | 6325 | 6571 | 6818 | 7065 | 7311 | 7558 | 7805 | 6051 | 8296 | 6545 | 8792 | 9032 | 9286 | 9533 | 9700 | 6027 | 0274 |
| 203 | 49 | | 6577 | 6823 | 7069 | 7316 | 7562 | 7809 | 0656 | 6302 | 6549 | 6796 | 9042 | 9289 | 9536 | 9783 | 0030 | 0277 | 0524 |
| 208 | 50 | 1 (2) | 6828 | 7075 | 7321 | 7567 | 7814 | 6066 | 8307 | 6553 | 5800 | 9046 | 9293 | 9540 | 9786 | 0033 | 0280 | 6527 | 0773 |
| 212 | 51 | | 7080 | 7325 | 7573 | 7819 | 6065 | 8311 | 8558 | 8804 | 9050 | 9227 | 9543 | 9790 | 0037 | 0283 | 0530 | 0777 | 1023 |
| 216 | 52 | | 7332 | 7576 | 7824 | 6070 | 6316 | 8563 | 8809 | 9055 | 9301 | 2548 | 9724 | 0040 | 0287 | 0533 | 0780 | 1027 | 1273 |
| 220 | 53 | | 7584 | 7836 | 6076 | 8322 | 6568 | 8814 | 9066 | 9306 | 9552 | 9726 | 0045 | 0291 | 0537 | 0764 | 1030 | 1277 | 1523 |
| 224 | 54 | | 7836 | 8002 | 8328 | 8573 | 6819 | 9066 | 9311 | 9557 | 9803 | 6042 | 0295 | 0542 | 0708 | 1034 | 1280 | 1527 | 1773 |
| 228 | 56 | 1 (2) | 8086 | 8334 | 8579 | 8825 | 9071 | 9317 | 2562 | 9808 | 6054 | 6306 | 0546 | 6792 | 1038 | 1284 | 1530 | 1777 | 2023 |
| 232 | 56 | | 8340 | 8586 | 8831 | 9077 | 2322 | 2568 | 9814 | 6059 | 6305 | 0551 | 0797 | 1043 | 1289 | 1535 | 1781 | 2027 | 2273 |
| 237 | 57 | | 8592 | 5836 | 9083 | 9325 | 9574 | 2619 | 0065 | 0311 | 0556 | 0802 | 1048 | 1293 | 1539 | 1785 | 2031 | 2277 | 2523 |
| 241 | 58 | | 6844 | 9090 | 9335 | 9560 | 9825 | 0071 | 6316 | 0562 | 0507 | 1053 | 1299 | 1544 | 1790 | 2036 | 2281 | 2527 | 2773 |
| 245 | 59 | | 2096 | 2342 | 9587 | 9832 | 0677 | 0322 | 6566 | 0813 | 1058 | 1364 | 1549 | 1795 | 2040 | 2266 | 2532 | 2777 | 3023 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 60° | | Núm. |
|---|---|---|---|
| 0 | 0' | 6 | 0000 |
| 4 | 1 | | 0252 |
| 6 | 2 | | 0504 |
| 13 | 3 | | 0756 |
| 17 | 4 | | 1008 |
| 21 | 5 | 6 | 1260 |
| 25 | 6 | | 1512 |
| 30 | 7 | | 1764 |
| 34 | 8 | | 2017 |
| 38 | 9 | | 2269 |
| 42 | 10 | 0 | 2521 |
| 46 | 11 | | 2774 |
| 51 | 12 | | 3026 |
| 55 | 13 | | 3278 |
| 52 | 14 | | 3531 |
| 63 | 15 | 0 | 3703 |
| 68 | 16 | | 4036 |
| 72 | 17 | | 4289 |
| 76 | 18 | | 4541 |
| 80 | 19 | | 4794 |
| 84 | 20 | 6 | 5047 |
| 89 | 21 | | 5300 |
| 93 | 22 | | 5552 |
| 97 | 23 | | 5805 |
| 101 | 24 | | 6058 |
| 106 | 25 | 0 | 6311 |
| 110 | 26 | | 6564 |
| 114 | 27 | | 6817 |
| 116 | 28 | | 7070 |
| 123 | 29 | | 7323 |
| 127 | 30 | 0 | 7576 |
| 131 | 31 | | 7830 |
| 135 | 32 | | 8003 |
| 139 | 33 | | 8336 |
| 144 | 34 | | 0589 |
| 148 | 35 | 0 | 8843 |
| 152 | 36 | | 9096 |
| 156 | 37 | | 9350 |
| 161 | 38 | | 9603 |
| 165 | 39 | | 9857 |
| 169 | 46 | 1 | 0110 |
| 173 | 41 | | 0364 |
| 177 | 42 | | 0618 |
| 182 | 43 | | 0871 |
| 186 | 44 | | 1125 |
| 190 | 45 | 1 | 1379 |
| 194 | 46 | | 1633 |
| 199 | 47 | | 1886 |
| 203 | 48 | | 2140 |
| 207 | 49 | | 2394 |
| 211 | 50 | 1 | 2648 |
| 216 | 51 | | 2902 |
| 226 | 52 | | 3156 |
| 224 | 63 | | 3410 |
| 226 | 64 | | 3665 |
| 232 | 55 | 1 | 3919 |
| 237 | 66 | | 4173 |
| 241 | 67 | | 4427 |
| 245 | 58 | | 4682 |
| 249 | 59 | | 4936 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 61° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 2' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 61° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 | 6120 | 5435 | 5679 | 5923 | 6168 | 6412 | 6657 | 6901 | 7146 | 7390 | 7635 | 7880 | 8124 | 8369 | 0614 | 8852 | 2104 | 253 | 0' | 2 2748 |
| 4 | 1 | | 5445 | 5589 | 5233 | 6177 | 6422 | 6666 | 6910 | 7155 | 7399 | 7644 | 7888 | 8133 | 8377 | 8622 | 8867 | 9111 | 9356 | 249 | 1 | 9426 |
| 8 | 2 | | 6599 | 5943 | 6187 | 6431 | 6675 | 6928 | 7164 | 7408 | 7653 | 7897 | 8141 | 8386 | 8630 | 8875 | 9119 | 9361 | 9605 | 245 | 2 | 9244 |
| 12 | 3 | | 5954 | 5128 | 6442 | 6686 | 6930 | 7174 | 7418 | 7662 | 7906 | 8150 | 8395 | 8639 | 8883 | 2128 | 9372 | 9617 | 9861 | 241 | 3 | 0992 |
| 16 | 4 | 1 (2) | 5208 | 6452 | 6696 | 5948 | 7184 | 7428 | 7672 | 7916 | 8160 | 8104 | 8648 | 8892 | 9136 | 9380 | 2625 | 9869 | 0114 | 237 | 4 | 8740 |
| 20 | 6 | 1 (2) | 6463 | 6707 | 6950 | 7194 | 7438 | 7682 | 7925 | 8169 | 8413 | 8657 | 8901 | 9145 | 2389 | 9633 | 9878 | 0122 | 0366 | 232 | 5 | 9 8408 |
| 24 | 6 | | 6718 | 6261 | 7205 | 7448 | 7692 | 7236 | 8179 | 8423 | 8667 | 8911 | 9155 | 2398 | 9642 | 2886 | 0130 | 0375 | 0615 | 228 | 6 | 8236 |
| 28 | 7 | | 6972 | 7216 | 7452 | 7783 | 7946 | 8190 | 8433 | 8677 | 8921 | 2164 | 9408 | 9652 | 9896 | 0139 | 0383 | 0627 | 0871 | 224 | 7 | 7283 |
| 32 | 8 | | 7227 | 7470 | 7714 | 7957 | 8200 | 8141 | 8687 | 8931 | 2174 | 9418 | 9661 | 2905 | 0149 | 0393 | 0636 | 0880 | 1124 | 220 | 8 | 7731 |
| 36 | 9 | | 7482 | 7725 | 7258 | 8211 | 8451 | 8698 | 8941 | 9185 | 9428 | 2671 | 9915 | 0158 | 0402 | 0646 | 0882 | 1133 | 1377 | 215 | 9 | 7479 |
| 40 | 10 | 1 (2) | 7737 | 7980 | 8223 | 8466 | 8709 | 8952 | 2195 | 9438 | 9682 | 9925 | 8168 | 0412 | 0655 | 8899 | 1142 | 1386 | 1629 | 211 | 10 | 9 7226 |
| 44 | 11 | | 7921 | 8234 | 8477 | 8720 | 8263 | 9206 | 9449 | 9622 | 9945 | 8179 | 8422 | 0665 | 0909 | 1152 | 1395 | 1632 | 1882 | 207 | 11 | 6974 |
| 48 | 12 | | 8216 | 8489 | 8732 | 8975 | 2217 | 9450 | 9703 | 9946 | 0189 | 0432 | 0576 | 0919 | 1162 | 1405 | 1648 | 1822 | 2135 | 203 | 12 | 6722 |
| 52 | 13 | | 8501 | 8744 | 8287 | 9229 | 9472 | 9715 | 9957 | 8288 | 0413 | 0686 | 8930 | 1172 | 1415 | 1658 | 1902 | 2145 | 2388 | 199 | 13 | 6469 |
| 66 | 14 | | 8756 | 8299 | 9241 | 9484 | 9726 | 2269 | 0212 | 0434 | 8697 | 0940 | 1183 | 1426 | 1662 | 1912 | 2155 | 2398 | 2641 | 194 | 14 | 6217 |
| 60 | 16 | 1 (2) | 9011 | 9254 | 9496 | 9738 | 9981 | 0223 | 0466 | 8705 | 0951 | 1194 | 1137 | 1679 | 1922 | 2165 | 2408 | 2651 | 2894 | 190 | 15 | 9 5964 |
| 64 | 16 | | 9266 | 9508 | 9751 | 9993 | 0235 | 0478 | 8720 | 0963 | 1205 | 1448 | 1690 | 1933 | 2175 | 2418 | 2661 | 2904 | 3147 | 186 | 16 | 5711 |
| 68 | 17 | | 9521 | 2763 | 0806 | 0218 | 0190 | 0732 | 0975 | 1217 | 1459 | 1782 | 1944 | 2187 | 2429 | 2672 | 2914 | 3157 | 3400 | 182 | 17 | 5459 |
| 72 | 18 | | 9776 | 0018 | 0260 | 0503 | 0745 | 0987 | 1222 | 1471 | 1713 | 1956 | 2198 | 2441 | 2683 | 2925 | 3168 | 3410 | 3653 | 177 | 18 | 5206 |
| 76 | 19 | 2 | 0032 | 8273 | 0513 | 0757 | 0999 | 1241 | 1483 | 1725 | 1968 | 2910 | 2452 | 2695 | 2936 | 3179 | 3121 | 3664 | 3906 | 173 | 19 | 4953 |
| 80 | 20 | 2 | 0287 | 0529 | 0770 | 1012 | 1254 | 1496 | 1738 | 1980 | 2222 | 2464 | 2706 | 2948 | 3190 | 3432 | 3675 | 3917 | 4159 | 169 | 20 | 9 4700 |
| 84 | 21 | | 0512 | 8784 | 1025 | 1267 | 1509 | 1750 | 1999 | 2234 | 2476 | 2718 | 2968 | 3202 | 3444 | 3686 | 3928 | 4170 | 4412 | 165 | 21 | 4448 |
| 68 | 22 | | 0797 | 1039 | 1280 | 1522 | 1763 | 2005 | 2247 | 2488 | 2730 | 2972 | 3214 | 3456 | 3698 | 3932 | 4181 | 4423 | 4666 | 161 | 22 | 4195 |
| 92 | 93 | | 1053 | 1294 | 1535 | 1777 | 2018 | 2260 | 2501 | 2743 | 2285 | 3226 | 3468 | 3718 | 3951 | 4194 | 4435 | 4677 | 4919 | 156 | 23 | 3942 |
| 96 | 24 | | 1308 | 1549 | 1790 | 9032 | 2273 | 2514 | 2756 | 2997 | 3239 | 3480 | 3722 | 3961 | 4285 | 4147 | 4689 | 4930 | 5172 | 152 | 24 | 3689 |
| 100 | 95 | 2 | 1561 | 1805 | 2046 | 2287 | 2528 | 2769 | 3011 | 3252 | 3493 | 3735 | 3976 | 4218 | 4459 | 4781 | 4942 | 5184 | 5425 | 148 | 25 | 9 3436 |
| 104 | 26 | | 1819 | 2060 | 2301 | 2512 | 2783 | 3024 | 3266 | 3586 | 3748 | 3989 | 4930 | 4472 | 4713 | 4254 | 5196 | 5437 | 5675 | 144 | 26 | 3103 |
| 108 | 27 | | 2074 | 2315 | 2556 | 2797 | 3038 | 3279 | 3520 | 3761 | 4082 | 4943 | 4184 | 4726 | 4967 | 5908 | 5450 | 5691 | 5932 | 139 | 27 | 2930 |
| 112 | 28 | | 2330 | 2571 | 2811 | 3052 | 3293 | 3634 | 3775 | 4016 | 4957 | 4498 | 4739 | 4980 | 5221 | 5462 | 5703 | 5245 | 6186 | 135 | 28 | 2677 |
| 116 | 22 | | 2586 | 2826 | 3067 | 3307 | 3548 | 3789 | 4029 | 4270 | 4511 | 4752 | 4993 | 5234 | 5475 | 5716 | 5957 | 6198 | 6439 | 131 | 29 | 2424 |
| 190 | 30 | 2 | 2841 | 3082 | 3322 | 3563 | 3803 | 4044 | 4281 | 4525 | 4766 | 5007 | 5247 | 5488 | 5729 | 5970 | 6211 | 6452 | 6693 | 127 | 30 | 9 2170 |
| 124 | 31 | | 3097 | 3337 | 3577 | 3818 | 4058 | 4299 | 4539 | 4780 | 5020 | 5261 | 5502 | 5742 | 5983 | 6224 | 6465 | 6706 | 6947 | 123 | 31 | 1917 |
| 128 | 32 | | 3353 | 3593 | 3833 | 4073 | 4313 | 4554 | 4794 | 5035 | 5276 | 5515 | 5756 | 5297 | 6237 | 6478 | 6719 | 6959 | 7201 | 118 | 32 | 1664 |
| 132 | 33 | | 3608 | 3848 | 4088 | 1329 | 4569 | 4809 | 5049 | 5289 | 5530 | 5770 | 6010 | 6251 | 6491 | 6732 | 6973 | 7213 | 7454 | 114 | 33 | 1411 |
| 136 | 34 | | 3864 | 4104 | 4344 | 4684 | 1824 | 5064 | 5304 | 5541 | 5785 | 6025 | 6265 | 6505 | 6746 | 6986 | 7227 | 7467 | 7708 | 110 | 34 | 1157 |
| 140 | 35 | 2 | 4120 | 1360 | 4592 | 4832 | 5079 | 5319 | 5559 | 5799 | 6039 | 6279 | 6520 | 6760 | 7000 | 7240 | 7481 | 7721 | 7961 | 106 | 35 | 9 0904 |
| 144 | 36 | | 4376 | 4615 | 4856 | 5095 | 5336 | 5574 | 5814 | 6054 | 6294 | 6534 | 6774 | 7014 | 7251 | 7494 | 7735 | 7975 | 8215 | 101 | 36 | 0650 |
| 148 | 37 | | 4632 | 4871 | 5111 | 5350 | 5590 | 5830 | 6069 | 6302 | 6519 | 6789 | 7029 | 7269 | 7509 | 7749 | 7989 | 8229 | 8165 | 97 | 37 | 0397 |
| 152 | 30 | | 4888 | 5127 | 5366 | 5606 | 5046 | 6085 | 6325 | 6561 | 6204 | 7014 | 7283 | 7523 | 7763 | 8003 | 8243 | 8483 | 8723 | 93 | 38 | 0143 |
| 156 | 32 | | 5144 | 5383 | 5622 | 5862 | 6101 | 6340 | 6580 | 6819 | 7059 | 7298 | 7538 | 7778 | 8017 | 8257 | 8497 | 8737 | 8977 | 89 | 32 | 8 9890 |
| 168 | 40 | 2 | 6400 | 5639 | 5878 | 6117 | 6356 | 6596 | 6835 | 7074 | 7314 | 7553 | 7793 | 8032 | 8272 | 8512 | 8751 | 8991 | 9231 | 84 | 40 | 8 9636 |
| 164 | 41 | | 5656 | 5895 | 6134 | 6373 | 6612 | 6851 | 7090 | 7330 | 7569 | 7808 | 8048 | 8287 | 8526 | 8766 | 9005 | 9245 | 9185 | 80 | 41 | 9382 |
| 160 | 42 | | 5912 | 6151 | 6382 | 6698 | 6867 | 7106 | 7346 | 7585 | 7824 | 8063 | 8302 | 8542 | 8781 | 9020 | 9960 | 9499 | 2739 | 76 | 42 | 9129 |
| 172 | 43 | | 6168 | 6407 | 6615 | 6884 | 7123 | 7362 | 7601 | 7810 | 8079 | 8318 | 8557 | 8796 | 9036 | 2275 | 9514 | 9753 | 9993 | 72 | 43 | 8875 |
| 176 | 44 | 2 (3) | 6424 | 6663 | 6901 | 7140 | 7379 | 7618 | 7856 | 8095 | 8334 | 8573 | 8812 | 9051 | 9290 | 9529 | 9768 | 0008 | 8247 | 68 | 44 | 8621 |
| 180 | 45 | 2 (3) | 6680 | 6219 | 7157 | 7396 | 7635 | 7873 | 8112 | 8351 | 8589 | 8828 | 9067 | 9306 | 9545 | 9784 | 0023 | 0262 | 0501 | 63 | 45 | 8 8367 |
| 184 | 46 | | 6937 | 7175 | 7413 | 7652 | 7890 | 8129 | 8367 | 8606 | 8845 | 9083 | 9322 | 9561 | 9800 | 0038 | 0277 | 0516 | 0755 | 59 | 46 | 8114 |
| 188 | 47 | | 7193 | 7431 | 7669 | 7208 | 8146 | 8384 | 8623 | 8861 | 9100 | 9338 | 9577 | 9816 | 0054 | 0293 | 0532 | 0771 | 1009 | 55 | 47 | 7860 |
| 192 | 48 | | 7449 | 7687 | 7925 | 8164 | 8402 | 8640 | 8878 | 9117 | 9355 | 9594 | 9832 | 0071 | 0309 | 0548 | 0786 | 1025 | 1264 | 51 | 48 | 7606 |
| 196 | 49 | | 7706 | 7944 | 8182 | 8420 | 8658 | 8896 | 9134 | 9372 | 9611 | 9849 | 0087 | 0326 | 0564 | 0802 | 1041 | 1279 | 1618 | 46 | 49 | 7352 |
| 200 | 50 | 2 (3) | 7962 | 8200 | 8138 | 8676 | 8914 | 9152 | 9390 | 2628 | 9866 | 0104 | 0342 | 8581 | 0819 | 1057 | 1296 | 1534 | 17,2 | 42 | 50 | 8 7098 |
| 204 | 51 | | 8218 | 8456 | 8624 | 8932 | 2170 | 9407 | 9645 | 9883 | 0121 | 0359 | 0597 | 0836 | 1074 | 1312 | 1550 | 1788 | 2027 | 38 | 51 | 6844 |
| 208 | 62 | | 8475 | 8713 | 8950 | 9188 | 9426 | 2663 | 9901 | 8139 | 0377 | 0615 | 0853 | 1091 | 1329 | 1567 | 1805 | 2043 | 2281 | 34 | 52 | 6590 |
| 212 | 53 | | 8732 | 8969 | 9206 | 2411 | 2682 | 9919 | 0157 | 0395 | 0632 | 0878 | 1108 | 1316 | 1584 | 1822 | 2060 | 2298 | 2536 | 30 | 53 | 6335 |
| 216 | 54 | | 8988 | 9226 | 9463 | 9700 | 9938 | 0175 | 0413 | 0650 | 0888 | 1125 | 1363 | 1601 | 1839 | 2077 | 2314 | 2552 | 2790 | 25 | 54 | 6081 |
| 220 | 55 | 2 (3) | 9945 | 9482 | 9719 | 9956 | 0194 | 0431 | 0668 | 0906 | 1143 | 1381 | 1618 | 1856 | 2094 | 2331 | 2562 | 2807 | 3045 | 21 | 55 | 8 5827 |
| 224 | 56 | | 9501 | 9739 | 9976 | 0213 | 0450 | 0687 | 0924 | 1162 | 1399 | 1636 | 1874 | 2111 | 2342 | 2586 | 2824 | 3062 | 3295 | 17 | 56 | 5573 |
| 228 | 67 | | 9758 | 9295 | 0232 | 0469 | 0706 | 0943 | 1180 | 1418 | 1655 | 1892 | 2129 | 2367 | 2604 | 2841 | 3079 | 3316 | 3654 | 13 | 67 | 5318 |
| 232 | 58 | 3 | 0015 | 0252 | 0188 | 0725 | 0962 | 1129 | 1436 | 1673 | 1910 | 2148 | 2385 | 2622 | 2859 | 3096 | 3334 | 3571 | 3805 | 8 | 58 | 5064 |
| 236 | 52 | | 0279 | 0508 | 0745 | 0982 | 1919 | 1455 | 1692 | 1229 | 2166 | 9403 | 2640 | 2877 | 3114 | 3352 | 3582 | 3825 | 4063 | 4 | 59 | 4010 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 61° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 61° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 1 (2) 9349 | 2594 | 9839 | 0084 | 0329 | 0574 | 0619 | 1064 | 1310 | 1555 | 1800 | 2010 | 2221 | 2537 | 2782 | 3028 | 3273 | 6 | 0' | 1 5190 |
| 4 | 1 | 9601 | 2846 | 0021 | 0336 | 0581 | 0326 | 1071 | 1316 | 1501 | 1866 | 2051 | 2297 | 2542 | 2787 | 3033 | 3278 | 3523 | 4 | 1 | 0446 |
| 8 | 2 | 9853 | 0098 | 0343 | 0508 | 0832 | 1077 | 1322 | 1507 | 1812 | 2057 | 2302 | 2547 | 2793 | 3038 | 3283 | 3528 | 3774 | 6 | 2 | 6699 |
| 12 | 3 | 2 6100 | 0350 | 0525 | 0840 | 1084 | 1329 | 1574 | 1819 | 2063 | 2308 | 2553 | 2798 | 3043 | 3268 | 3534 | 3779 | 4024 | 13 | 3 | 6954 |
| 10 | 4 | 6358 | 0002 | 0847 | 1692 | 1336 | 1681 | 1825 | 2070 | 2315 | 2560 | 2404 | 3049 | 3224 | 3539 | 3784 | 1029 | 4274 | 17 | 4 | 6208 |
| 20 | 5 | 2 0610 | 0855 | 1092 | 1344 | 1588 | 1632 | 2077 | 2322 | 2566 | 2811 | 3056 | 3300 | 3545 | 3790 | 4035 | 4280 | 4525 | 21 | 5 | 1 6463 |
| 24 | 6 | 0863 | 1107 | 1351 | 1590 | 1840 | 2084 | 2322 | 2573 | 2818 | 3062 | 3307 | 3551 | 3796 | 4041 | 4285 | 4530 | 4775 | 26 | 6 | 6718 |
| 28 | 7 | 1115 | 1352 | 1664 | 1818 | 2092 | 2336 | 9560 | 2825 | 3069 | 3313 | 3558 | 3802 | 1047 | 4291 | 4536 | 4781 | 5025 | 30 | 7 | 6979 |
| 32 | 8 | 1366 | 1612 | 1860 | 9100 | 2344 | 2568 | 2832 | 3876 | 3321 | 3565 | 3809 | 4054 | 4298 | 4512 | 4787 | 5031 | 5276 | 34 | 8 | 7227 |
| 36 | 9 | 1620 | 1804 | 2108 | 2352 | 2596 | 2840 | 3084 | 3328 | 3672 | 3816 | 4060 | 4305 | 4549 | 4793 | 5038 | 5282 | 5526 | 38 | 9 | 7482 |
| 40 | 10 | 2 1873 | 2117 | 2300 | 2604 | 2848 | 3092 | 3330 | 3580 | 3824 | 1068 | 4312 | 4556 | 4868 | 5041 | 5288 | 5533 | 5777 | 43 | 10 | 1 7737 |
| 44 | 11 | 2120 | 2309 | 2013 | 2057 | 3100 | 3344 | 3588 | 3832 | 4075 | 1319 | 1563 | 4807 | 5051 | 5295 | 5539 | 5783 | 6028 | 47 | 11 | 7991 |
| 46 | 12 | 2378 | 2022 | 2805 | 3109 | 3352 | 3596 | 3840 | 4063 | 4397 | 1571 | 4815 | 5056 | 5362 | 5546 | 5790 | 6034 | 6278 | 51 | 12 | 8246 |
| 52 | 13 | 2631 | 2875 | 3110 | 3301 | 3605 | 3848 | 4092 | 4335 | 4679 | 1822 | 5066 | 5310 | 5554 | 5797 | 6041 | 6285 | 6525 | 55 | 13 | 8501 |
| 66 | 14 | 2884 | 3197 | 3370 | 3614 | 3857 | 4100 | 4344 | 4587 | 4831 | 5074 | 5318 | 5561 | 5805 | 6018 | 6292 | 6636 | 6780 | 60 | 14 | 6756 |
| 60 | 15 | 2 3137 | 3380 | 3623 | 3666 | 4109 | 4352 | 4596 | 4839 | 5082 | 5326 | 5569 | 5813 | 6656 | 6308 | 6543 | 6787 | 7030 | 64 | 15 | 1 9811 |
| 64 | 16 | 3390 | 3633 | 3876 | 4119 | 4302 | 4605 | 4848 | 5091 | 5334 | 5577 | 5821 | 6064 | 6367 | 6551 | 6794 | 7038 | 7281 | 68 | 16 | 9266 |
| 68 | 17 | 3643 | 3865 | 4128 | 4371 | 4614 | 4857 | 5100 | 5343 | 6586 | 5822 | 6879 | 6315 | 6559 | 6802 | 7045 | 7289 | 7632 | 72 | 17 | 9521 |
| 72 | 18 | 3896 | 4138 | 4381 | 4694 | 4866 | 5109 | 5352 | 6595 | 5838 | 6081 | 6324 | 6567 | 6818 | 7053 | 7296 | 7640 | 7783 | 77 | 18 | 9777 |
| 76 | 19 | 4148 | 4391 | 4034 | 4876 | 5119 | 5362 | 5604 | 6817 | 6090 | 6333 | 6576 | 6818 | 7062 | 7305 | 7648 | 7791 | 8034 | 61 | 19 | 2 0632 |
| 60 | 20 | 2 4401 | 4644 | 4086 | 5129 | 5371 | 5614 | 6857 | 6099 | 6342 | 6585 | 6827 | 7070 | 7313 | 7556 | 7799 | 8042 | 8285 | 65 | 20 | 2 0287 |
| 65 | 21 | 4655 | 1827 | 5132 | 5381 | 6624 | 5866 | 6109 | 6351 | 6594 | 6636 | 7079 | 7322 | 7565 | 7807 | 8050 | 8293 | 8536 | 69 | 21 | 0549 |
| 89 | 22 | 4908 | 5150 | 5392 | 6634 | 5876 | 6119 | 0361 | 6684 | 6846 | 7086 | 7331 | 7574 | 7616 | 8059 | 8301 | 8544 | 8787 | 94 | 22 | 6797 |
| 23 | 23 | 6161 | 5403 | 5645 | 5887 | 6129 | 6371 | 6614 | 6856 | 7098 | 7310 | 7583 | 7825 | 8068 | 8310 | 8553 | 8725 | 9038 | 98 | 23 | 1053 |
| 27 | 24 | 6414 | 5656 | 5898 | 6146 | 6382 | 6624 | 6866 | 7108 | 7350 | 7592 | 7835 | 8077 | 6319 | 8562 | 8804 | 9047 | 9289 | 102 | 24 | 1308 |
| 101 | 25 | 2 6667 | 5909 | 6151 | 6393 | 6635 | 6876 | 7118 | 7360 | 7602 | 7645 | 8687 | 8329 | 8571 | 8813 | 9056 | 9298 | 9540 | 166 | 25 | 2 1564 |
| 165 | 26 | 6220 | 6162 | 6404 | 6616 | 6887 | 7129 | 7371 | 7613 | 7855 | 8097 | 8339 | 8581 | 8823 | 9065 | 9307 | 9549 | 9791 | 111 | 26 | 1819 |
| 109 | 27 | 2 (3) 6174 | 0416 | 6657 | 6898 | 7140 | 7382 | 7623 | 7865 | 8167 | 8349 | 8591 | 8833 | 9074 | 9316 | 9558 | 9801 | 0043 | 115 | 27 | 2075 |
| 113 | 28 | 6127 | 0609 | 6210 | 7151 | 7393 | 7634 | 7876 | 8118 | 8355 | 8601 | 8843 | 9064 | 9326 | 9568 | 9610 | 0052 | 0991 | 119 | 28 | 2330 |
| 117 | 29 | 6681 | 0222 | 7163 | 7404 | 7046 | 7887 | 8129 | 8370 | 8612 | 8853 | 9095 | 9336 | 9578 | 9820 | 0062 | 0303 | 0545 | 123 | 29 | 2586 |
| 121 | 30 | 2 6934 | 7175 | 7416 | 7657 | 7899 | 8140 | 8381 | 8623 | 8864 | 9105 | 9347 | 2588 | 9830 | 0072 | 0313 | 0555 | 0797 | 128 | 36 | 2 2811 |
| 125 | 31 | 7167 | 7428 | 7669 | 7911 | 6152 | 8393 | 8634 | 8875 | 9116 | 2358 | 9599 | 9840 | 0082 | 0323 | 0565 | 0866 | 1048 | 132 | 31 | 3097 |
| 129 | 32 | 7441 | 7662 | 7223 | 8164 | 8405 | 8616 | 8887 | 2128 | 9369 | 9610 | 9851 | 0093 | 0334 | 0575 | 0816 | 1058 | 1299 | 130 | 32 | 3353 |
| 133 | 33 | 7695 | 7935 | 8176 | 8417 | 8658 | 8899 | 9139 | 9380 | 2621 | 9862 | 0164 | 0315 | 0586 | 0827 | 1068 | 1309 | 1551 | 141 | 33 | 3608 |
| 137 | 34 | 7248 | 8162 | 8422 | 8670 | 8911 | 9151 | 9392 | 9633 | 9874 | 0115 | 0356 | 0597 | 0838 | 1079 | 1320 | 1561 | 1802 | 145 | 34 | 3864 |
| 141 | 35 | 2 (3) 8202 | 8442 | 8683 | 8923 | 2164 | 9404 | 9645 | 9886 | 0127 | 0367 | 0608 | 0842 | 1090 | 1331 | 1572 | 1813 | 2664 | 149 | 35 | 2 4120 |
| 145 | 36 | 8455 | 3696 | 0930 | 9177 | 9417 | 9657 | 9898 | 0132 | 0375 | 0620 | 0860 | 1101 | 1342 | 1583 | 1821 | 2063 | 9305 | 153 | 30 | 4376 |
| 149 | 37 | 8709 | 4249 | 2190 | 9436 | 9670 | 2911 | 0151 | 0391 | 0632 | 0872 | 1113 | 1353 | 1594 | 1635 | 2076 | 2316 | 2557 | 158 | 37 | 4032 |
| 153 | 38 | 8263 | 9203 | 9413 | 9683 | 9923 | 0164 | 0404 | 0644 | 6885 | 1126 | 1365 | 1606 | 1816 | 2087 | 2328 | 2568 | 2809 | 162 | 38 | 4888 |
| 157 | 39 | 2217 | 9457 | 9697 | 9937 | 0177 | 0417 | 0657 | 0897 | 1137 | 1376 | 1618 | 1856 | 2099 | 2339 | 2580 | 2820 | 3061 | 166 | 39 | 5144 |
| 161 | 40 | 2 (3) 2470 | 9716 | 9950 | 0190 | 0430 | 0676 | 0910 | 1150 | 1390 | 1630 | 1870 | 2111 | 2351 | 2591 | 2832 | 3072 | 3312 | 170 | 40 | 2 5400 |
| 165 | 41 | 9724 | 9904 | 0204 | 0443 | 0683 | 6923 | 1103 | 1403 | 1643 | 1683 | 2123 | 2363 | 2603 | 2843 | 3084 | 3324 | 3564 | 175 | 41 | 5660 |
| 169 | 42 | 9978 | 0916 | 0468 | 0097 | 0937 | 1176 | 1416 | 1656 | 1896 | 2136 | 2376 | 2616 | 2856 | 3696 | 3336 | 3576 | 3816 | 179 | 42 | 5912 |
| 173 | 43 | 3 0232 | 0472 | 0711 | 0950 | 1198 | 1430 | 1662 | 1909 | 2149 | 2388 | 2628 | 2866 | 3108 | 3348 | 3588 | 3628 | 4068 | 183 | 43 | 6168 |
| 177 | 44 | 0486 | 0725 | 0965 | 1204 | 1443 | 1683 | 1923 | 2162 | 2402 | 2641 | 2881 | 3121 | 3368 | 3600 | 3840 | 4086 | 4320 | 187 | 44 | 6424 |
| 161 | 45 | 3 8740 | 0972 | 1219 | 1450 | 1697 | 1936 | 2176 | 2415 | 2655 | 2894 | 3134 | 3373 | 3613 | 3852 | 4092 | 4332 | 4672 | 192 | 45 | 2 6680 |
| 166 | 46 | 6994 | 1233 | 1472 | 1711 | 1951 | 2190 | 2429 | 2668 | 2908 | 3147 | 3386 | 3026 | 3865 | 4105 | 4344 | 4584 | 4824 | 190 | 46 | 6237 |
| 189 | 47 | 1248 | 1487 | 1726 | 1965 | 2284 | 2443 | 2682 | 2921 | 3101 | 3400 | 3632 | 3878 | 4118 | 4357 | 4597 | 4836 | 5076 | 200 | 47 | 7123 |
| 193 | 46 | 1602 | 1741 | 1286 | 2212 | 2458 | 2627 | 2936 | 3175 | 3414 | 3653 | 3892 | 4131 | 4370 | 4610 | 4849 | 5088 | 5328 | 204 | 48 | 7449 |
| 197 | 42 | 1757 | 1995 | 2234 | 2473 | 2711 | 2950 | 3189 | 3428 | 3667 | 3206 | 1146 | 4364 | 4623 | 4862 | 5181 | 5341 | 5580 | 909 | 49 | 7706 |
| 281 | 50 | 3 2011 | 2249 | 2488 | 2727 | 2965 | 3264 | 3443 | 3681 | 3220 | 4152 | 4398 | 4637 | 4676 | 5115 | 5354 | 5593 | 5632 | 213 | 60 | 2 7962 |
| 205 | 61 | 2266 | 9603 | 2742 | 2988 | 3212 | 3457 | 3626 | 3935 | 4173 | 4412 | 4651 | 4890 | 5128 | 5367 | 5606 | 5845 | 6084 | 217 | 51 | 0218 |
| 289 | 52 | 2519 | 2756 | 2996 | 3234 | 3473 | 3711 | 3250 | 4188 | 4497 | 1665 | 4904 | 5142 | 5381 | 6620 | 5859 | 6698 | 6336 | 221 | 62 | 6475 |
| 213 | 53 | 2774 | 3012 | 3250 | 3488 | 3727 | 3965 | 4203 | 4442 | 4680 | 1918 | 5157 | 6395 | 5634 | 5873 | 6111 | 6350 | 6589 | 226 | 63 | 6732 |
| 217 | 54 | 3028 | 3260 | 3504 | 3742 | 3980 | 4219 | 4467 | 4695 | 4933 | 5172 | 5410 | 6648 | 5887 | 6125 | 6364 | 6602 | 6841 | 230 | 54 | 8988 |
| 221 | 55 | 3 3283 | 3526 | 3758 | 3996 | 4234 | 4472 | 4718 | 4948 | 5187 | 5425 | 5603 | 5901 | 6140 | 6378 | 6616 | 6855 | 7023 | 234 | 66 | 2 9245 |
| 225 | 56 | 3537 | 3775 | 4012 | 4260 | 4468 | 4726 | 4964 | 5902 | 5440 | 5678 | 5916 | 6154 | 6323 | 6631 | 6869 | 7107 | 7346 | 238 | 66 | 9501 |
| 229 | 57 | 3791 | 4029 | 4267 | 4504 | 4742 | 4988 | 5218 | 5456 | 5694 | 5931 | 6169 | 6407 | 6646 | 6884 | 7122 | 7366 | 7698 | 243 | 57 | 9758 |
| 233 | 58 | 4046 | 4283 | 4521 | 4759 | 4996 | 5234 | 5472 | 5702 | 5947 | 6185 | 6423 | 6601 | 6899 | 7136 | 7374 | 7612 | 7851 | 247 | 58 | 3 0015 |
| 237 | 52 | 4301 | 4538 | 4775 | 5013 | 5958 | 5488 | 5725 | 5963 | 6201 | 6438 | 6676 | 6914 | 7152 | 7389 | 7627 | 7865 | 8103 | 251 | 69 | 0272 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 62° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 19' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 62° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 3 | 0528 | 0765 | 1961 | 1238 | 1475 | 1712 | 1248 | 2185 | 2422 | 2659 | 2896 | 3133 | 3370 | 3607 | 3844 | 4681 | 4318 | 255 | 6' | 8 4555 |
| 4 | 1 | | 0785 | 1022 | 1258 | 1495 | 1731 | 1968 | 2204 | 2441 | 2678 | 2915 | 3151 | 3388 | 3625 | 3862 | 4099 | 4336 | 4573 | 251 | 1 | 4361 |
| 8 | 2 | | 1942 | 1278 | 1515 | 1751 | 1988 | 2224 | 2460 | 2627 | 2934 | 3170 | 3407 | 3614 | 3880 | 4117 | 4354 | 4591 | 4828 | 247 | 2 | 4646 |
| 12 | 3 | | 1299 | 1535 | 1771 | 2008 | 2244 | 2480 | 2717 | 2953 | 3190 | 3126 | 3663 | 3899 | 4136 | 4372 | 1609 | 4846 | 5682 | 243 | 3 | 3792 |
| 16 | 4 | | 1556 | 1792 | 2028 | 2264 | 2500 | 2737 | 2973 | 3209 | 3445 | 3682 | 3918 | 4155 | 4391 | 4628 | 4864 | 5101 | 5337 | 238 | 4 | 3537 |
| 19 | 5 | 3 | 1813 | 2042 | 2285 | 2521 | 2757 | 2993 | 3229 | 3465 | 3701 | 3938 | 4174 | 4416 | 4647 | 4883 | 5119 | 5356 | 5592 | 231 | 6 | 8 3282 |
| 23 | 6 | | 2076 | 2366 | 2542 | 2778 | 3013 | 3249 | 3485 | 3721 | 3957 | 4194 | 4430 | 4666 | 4902 | 5138 | 5375 | 5611 | 5817 | 230 | 6 | 3928 |
| 27 | 7 | | 2327 | 2563 | 2799 | 3034 | 3270 | 3506 | 3742 | 3978 | 4214 | 4450 | 4686 | 4921 | 5158 | 5394 | 5636 | 5866 | 6162 | 226 | 7 | 2773 |
| 31 | 6 | | 2584 | 2820 | 3055 | 3291 | 3527 | 3762 | 3998 | 4234 | 4470 | 4706 | 1941 | 5177 | 5413 | 5649 | 5885 | 6121 | 5357 | 221 | 9 | 2518 |
| 35 | 9 | | 2812 | 3977 | 3312 | 3546 | 3783 | 4019 | 4251 | 4490 | 4726 | 4962 | 5197 | 5433 | 5669 | 5905 | 6141 | 6377 | 6613 | 217 | 9 | 2263 |
| 39 | 10 | 3 | 3099 | 3334 | 3569 | 3805 | 4046 | 4275 | 4511 | 4746 | 4982 | 5218 | 5453 | 5689 | 5924 | 6150 | 6396 | 6632 | 6868 | 213 | 16 | 6 2009 |
| 43 | 11 | | 3356 | 3591 | 3826 | 4662 | 4297 | 4532 | 4767 | 5003 | 5238 | 5474 | 5709 | 5945 | 5180 | 6415 | 6651 | 5887 | 7123 | 209 | 11 | 1754 |
| 47 | 12 | | 3613 | 3848 | 4083 | 4318 | 4554 | 4789 | 5924 | 5259 | 5494 | 5730 | 5965 | 6201 | 6445 | 6671 | 6907 | 7142 | 7378 | 204 | 12 | 1499 |
| 51 | 13 | | 3871 | 4166 | 4340 | 4575 | 4810 | 5045 | 5280 | 5516 | 5751 | 5986 | 6221 | 6456 | 5692 | 6927 | 7162 | 7328 | 7633 | 200 | 13 | 1244 |
| 54 | 14 | | 4128 | 4363 | 4598 | 4832 | 5067 | 5302 | 5537 | 5772 | 6007 | 6242 | 6477 | 6712 | 6947 | 7183 | 7418 | 7653 | 7889 | 196 | 14 | 9989 |
| 58 | 15 | 3 | 4385 | 4629 | 4855 | 5089 | 5324 | 5559 | 5794 | 6029 | 6263 | 6498 | 6733 | 6968 | 7203 | 7438 | 7674 | 7909 | 8144 | 192 | 15 | 8 6734 |
| 62 | 16 | | 4643 | 4877 | 5112 | 5346 | 5581 | 5816 | 6050 | 6285 | 6520 | 6755 | 6989 | 7224 | 7459 | 7694 | 7929 | 8164 | 8399 | 187 | 16 | 6479 |
| 66 | 17 | | 4900 | 5135 | 5369 | 5604 | 5838 | 6073 | 6307 | 6542 | 6776 | 7611 | 7246 | 7480 | 7715 | 7950 | 8185 | 8426 | 8655 | 183 | 17 | 6223 |
| 70 | 19 | | 5158 | 5392 | 5626 | 5861 | 6095 | 6329 | 6514 | 6798 | 7034 | 7267 | 7502 | 7737 | 7971 | 8206 | 8441 | 8675 | 8910 | 179 | 18 | 7 9968 |
| 74 | 19 | | 5415 | 5656 | 5884 | 6118 | 5352 | 6586 | 6821 | 7055 | 7289 | 7524 | 7758 | 7993 | 8227 | 8462 | 8690 | 8931 | 9166 | 175 | 19 | 9713 |
| 76 | 20 | 3 | 5673 | 5907 | 6141 | 6375 | 6609 | 6843 | 7977 | 7312 | 7546 | 7780 | 8014 | 8249 | 8483 | 8718 | 8952 | 9187 | 9421 | 179 | 29 | 7 9458 |
| 82 | 21 | | 5931 | 6165 | 6398 | 6632 | 6866 | 7106 | 7334 | 7568 | 7803 | 8037 | 8271 | 8505 | 8739 | 8274 | 2208 | 9442 | 2677 | 166 | 21 | 2293 |
| 85 | 22 | | 6188 | 6422 | 6656 | 6890 | 7123 | 7357 | 7591 | 7825 | 8659 | 8293 | 8527 | 8761 | 8995 | 9230 | 9464 | 9698 | 9932 | 162 | 22 | 8947 |
| 89 | 23 | 3 (4) | 6446 | 6680 | 6913 | 7147 | 7381 | 7614 | 7848 | 8682 | 8316 | 8550 | 8784 | 9618 | 9252 | 9486 | 9726 | 9954 | 6188 | 158 | 23 | 8692 |
| 93 | 24 | | 6704 | 6937 | 7171 | 7404 | 7638 | 7872 | 8105 | 8339 | 8573 | 8806 | 9040 | 9274 | 9508 | 9742 | 2976 | 6216 | 0444 | 153 | 24 | 8436 |
| 97 | 25 | 3 (4) | 6962 | 7195 | 7428 | 7662 | 7895 | 8129 | 8362 | 8596 | 8829 | 9063 | 9297 | 9536 | 9764 | 9998 | 0232 | 0466 | 0699 | 149 | 25 | 7 8181 |
| 161 | 26 | | 7220 | 7453 | 7686 | 7919 | 8153 | 8386 | 8619 | 8853 | 9086 | 9320 | 9553 | 9787 | 0020 | 0254 | 0488 | 0721 | 6955 | 145 | 26 | 7925 |
| 165 | 27 | | 7477 | 7711 | 7944 | 6177 | 8410 | 8643 | 8876 | 9110 | 9343 | 9576 | 9810 | 6943 | 6277 | 0516 | 0744 | 0977 | 1211 | 141 | 27 | 7670 |
| 162 | 28 | | 7735 | 7968 | 8261 | 8434 | 8667 | 8900 | 9134 | 9367 | 9600 | 9833 | 0966 | 0300 | 0533 | 0766 | 1000 | 1233 | 1467 | 136 | 26 | 7414 |
| 113 | 29 | | 7293 | 8226 | 8459 | 9692 | 8925 | 9158 | 9391 | 9621 | 9857 | 0090 | 0323 | 0556 | 6789 | 1623 | 1256 | 1489 | 1723 | 132 | 29 | 7152 |
| 117 | 36 | 3 (4) | 6251 | 8484 | 8717 | 8949 | 9182 | 9415 | 9618 | 9881 | 0114 | 0347 | 0580 | 0813 | 1046 | 1279 | 1512 | 1745 | 1979 | 128 | 36 | 7 6963 |
| 120 | 31 | | 9569 | 8742 | 8974 | 2207 | 9440 | 9672 | 9905 | 0138 | 0371 | 0604 | 0836 | 1069 | 1362 | 1535 | 1768 | 2001 | 2235 | 123 | 31 | 6647 |
| 124 | 32 | | 8767 | 9000 | 9232 | 9165 | 2697 | 9930 | 0162 | 0395 | 0628 | 0860 | 1093 | 1326 | 1559 | 1792 | 2025 | 2258 | 2491 | 119 | 32 | 6392 |
| 128 | 33 | | 9026 | 9258 | 9490 | 2723 | 9955 | 0187 | 0420 | 0652 | 0885 | 1117 | 1350 | 1583 | 1815 | 2048 | 2281 | 2514 | 2747 | 115 | 33 | 6136 |
| 132 | 34 | | 9281 | 9516 | 9748 | 2980 | 6213 | 0145 | 0677 | 0910 | 1142 | 1374 | 1607 | 1839 | 2072 | 2305 | 2537 | 2770 | 3003 | 111 | 34 | 5880 |
| 136 | 35 | 3 (4) | 9542 | 9774 | 0006 | 0236 | 0470 | 0702 | 0935 | 1167 | 1399 | 1631 | 1864 | 2096 | 2329 | 2561 | 2794 | 3026 | 3259 | 106 | 35 | 7 5624 |
| 140 | 36 | | 9800 | 0632 | 6264 | 6496 | 0728 | 6960 | 1192 | 1424 | 1656 | 1889 | 2121 | 2353 | 2585 | 2618 | 3056 | 3282 | 3515 | 102 | 36 | 5366 |
| 144 | 37 | 4 | 0058 | 0290 | 0522 | 0754 | 6986 | 1218 | 1450 | 1682 | 1914 | 2146 | 2378 | 2610 | 2842 | 3074 | 3306 | 3539 | 3771 | 98 | 37 | 5112 |
| 148 | 38 | | 0317 | 0548 | 0786 | 1012 | 1243 | 1475 | 1707 | 1939 | 2171 | 2403 | 2635 | 2867 | 3699 | 3331 | 3663 | 3795 | 1627 | 94 | 38 | 4856 |
| 152 | 39 | | 0575 | 0807 | 1638 | 1276 | 1561 | 1733 | 1965 | 2196 | 2428 | 2666 | 2892 | 3124 | 3356 | 3588 | 3626 | 4652 | 4281 | 89 | 39 | 4666 |
| 155 | 40 | 4 | 0834 | 1065 | 1296 | 1528 | 1759 | 1991 | 2222 | 2454 | 2665 | 2917 | 3149 | 3381 | 3612 | 3844 | 4676 | 4308 | 4540 | 65 | 46 | 7 4344 |
| 159 | 41 | | 1992 | 1323 | 1654 | 1786 | 2017 | 2248 | 2480 | 2711 | 2943 | 3174 | 3406 | 3638 | 3869 | 4101 | 4333 | 4564 | 4796 | 81 | 41 | 4668 |
| 163 | 42 | | 1350 | 1582 | 1813 | 2944 | 2275 | 2566 | 2738 | 2969 | 3200 | 3432 | 3663 | 3695 | 4126 | 4358 | 4589 | 4821 | 5653 | 77 | 42 | 3832 |
| 167 | 43 | | 1609 | 1840 | 2071 | 2302 | 2533 | 2764 | 2995 | 3226 | 3458 | 3689 | 3920 | 4152 | 4383 | 4615 | 4846 | 5076 | 5309 | 72 | 43 | 3576 |
| 171 | 44 | | 1867 | 2098 | 2329 | 2560 | 2791 | 3022 | 3253 | 3484 | 3715 | 3946 | 4178 | 4409 | 4640 | 4871 | 5103 | 5334 | 5566 | 68 | 44 | 3320 |
| 175 | 45 | 4 | 2126 | 2357 | 2586 | 2818 | 4949 | 3280 | 3511 | 3742 | 3973 | 4204 | 4435 | 4666 | 4897 | 5128 | 5360 | 3691 | 5822 | 64 | 45 | 7 3663 |
| 179 | 46 | | 2385 | 2615 | 2846 | 3677 | 3307 | 3538 | 3769 | 4006 | 4230 | 4461 | 4692 | 4923 | 5154 | 5385 | 5616 | 5847 | 6079 | 66 | 46 | 2807 |
| 183 | 47 | | 2643 | 2874 | 3104 | 3335 | 3565 | 3796 | 4927 | 4257 | 4488 | 4719 | 4949 | 5180 | 5411 | 5642 | 5873 | 6104 | 6335 | 55 | 47 | 2551 |
| 186 | 48 | | 2902 | 3132 | 3363 | 3593 | 3824 | 4954 | 4285 | 4515 | 4746 | 4976 | 5207 | 5438 | 5668 | 5899 | 6130 | 6361 | 6592 | 51 | 49 | 2294 |
| 190 | 49 | | 3161 | 3391 | 3621 | 3851 | 4082 | 4312 | 4543 | 4773 | 5663 | 6234 | 5464 | 5695 | 5926 | 6156 | 7387 | 6618 | 6848 | 47 | 49 | 2936 |
| 194 | 59 | 4 | 3426 | 3650 | 3880 | 4116 | 4340 | 4570 | 4801 | 5631 | 5261 | 5492 | 5721 | 5952 | 6163 | 6413 | 6644 | 6876 | 7105 | 43 | 50 | 7 1782 |
| 198 | 51 | | 3678 | 3969 | 4138 | 4368 | 4598 | 4828 | 5059 | 5289 | 5519 | 5749 | 5979 | 6219 | 6410 | 6670 | 6901 | 7131 | 7362 | 38 | 51 | 1525 |
| 262 | 52 | | 3937 | 4167 | 4397 | 4627 | 4857 | 5087 | 5317 | 5547 | 5777 | 6607 | 6237 | 6467 | 6697 | 6928 | 7156 | 7386 | 7619 | 34 | 52 | 1268 |
| 296 | 63 | | 4196 | 4426 | 4656 | 4885 | 5116 | 6345 | 5575 | 5805 | 6935 | 5265 | 6495 | 6725 | 6955 | 7186 | 7415 | 7645 | 7875 | 30 | 53 | 1012 |
| 210 | 54 | | 4455 | 4685 | 4914 | 5144 | 5373 | 5603 | 5833 | 6063 | 6292 | 6522 | 6752 | 6982 | 7212 | 7442 | 7572 | 7902 | 6132 | 26 | 64 | 0755 |
| 214 | 65 | 4 | 4714 | 4943 | 5173 | 5462 | 5632 | 5861 | 6691 | 6321 | 6550 | 6780 | 7010 | 7240 | 7469 | 7692 | 7929 | 8139 | 8389 | 21 | 55 | 7 6499 |
| 216 | 56 | | 4973 | 5202 | 5432 | 5661 | 5890 | 6120 | 6349 | 6579 | 6808 | 7038 | 7268 | 7497 | 7727 | 7957 | 8186 | 8416 | 8646 | 17 | 56 | 6242 |
| 221 | 67 | | 5232 | 5461 | 5696 | 5920 | 6149 | 6378 | 6608 | 6837 | 7066 | 7296 | 7526 | 7765 | 7984 | 8214 | 8444 | 8673 | 8963 | 13 | 67 | 6 9985 |
| 225 | 58 | | 5491 | 5720 | 5949 | 6176 | 6467 | 6637 | 6866 | 7095 | 7324 | 7554 | 7783 | 8612 | 8242 | 8471 | 8701 | 8930 | 9166 | 8 | 58 | 9729 |
| 229 | 59 | | 5750 | 5979 | 6266 | 6437 | 6666 | 6695 | 7124 | 7353 | 7582 | 7812 | 8041 | 8270 | 8499 | 8729 | 8958 | 9188 | 9417 | 4 | 59 | 2472 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 62° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 62° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 3 4555 | 4792 | 5030 | 6267 | 5564 | 5742 | 5979 | 6217 | 6454 | 6692 | 6999 | 7167 | 7404 | 7642 | 7880 | 8118 | 8356 | 0 | 0′ | 3 0528 |
| 4 | 1 | 4016 | 5047 | 5204 | 5521 | 5758 | 5996 | 6233 | 6470 | 6708 | 6945 | 7183 | 7420 | 7658 | 7895 | 8133 | 8370 | 8608 | 4 | 1 | 0785 |
| 8 | 2 | 5065 | 6302 | 5539 | 5776 | 6013 | 6250 | 6487 | 6724 | 6961 | 7199 | 7436 | 7673 | 7911 | 8148 | 8386 | 8693 | 8861 | 9 | 2 | 1042 |
| 12 | 3 | 5319 | 5566 | 6793 | 6030 | 6267 | 6504 | 6741 | 6978 | 7215 | 7452 | 7689 | 7927 | 8164 | 8401 | 8639 | 8876 | 9113 | 13 | 3 | 1299 |
| 16 | 4 | 5674 | 5811 | 6048 | 6204 | 6521 | 6758 | 6995 | 7232 | 7469 | 7706 | 7943 | 8180 | 8417 | 8654 | 8892 | 9129 | 9366 | 17 | 4 | 1556 |
| 19 | 5 | 3 5829 | 6065 | 6302 | 6539 | 6775 | 7012 | 7249 | 7486 | 7723 | 7959 | 8196 | 8433 | 8670 | 8907 | 9145 | 9382 | 9619 | 21 | 8 | 3 1813 |
| 23 | 6 | 6084 | 6320 | 6557 | 6793 | 7030 | 7266 | 7503 | 7740 | 7976 | 8213 | 8450 | 8687 | 8924 | 9161 | 9398 | 9635 | 9872 | 26 | 6 | 2070 |
| 27 | 7 | 3 (4) 6339 | 6576 | 6811 | 7048 | 7284 | 7521 | 7757 | 7994 | 8230 | 8467 | 8704 | 8940 | 9177 | 9414 | 9651 | 9888 | 0124 | 30 | 7 | 2327 |
| 31 | 8 | 6594 | 8830 | 7066 | 7302 | 7539 | 7775 | 8011 | 8248 | 8484 | 8721 | 8937 | 9194 | 9430 | 9667 | 9904 | 0141 | 0377 | 34 | 8 | 9584 |
| 35 | 9 | 6849 | 7085 | 7391 | 7657 | 7793 | 8029 | 8265 | 8502 | 8738 | 8974 | 9211 | 9447 | 9684 | 9920 | 0157 | 0394 | 0630 | 39 | 9 | 9842 |
| 39 | 16 | 3 (4) 7104 | 7340 | 7575 | 7811 | 8017 | 8284 | 8520 | 8756 | 8992 | 9228 | 9465 | 9701 | 9937 | 0171 | 0410 | 0617 | 0883 | 43 | 10 | 3 3099 |
| 43 | 11 | 7359 | 7594 | 7830 | 8066 | 8302 | 8538 | 8774 | 9010 | 9246 | 9482 | 9718 | 9955 | 0191 | 0197 | 0663 | 0900 | 1136 | 47 | 11 | 3356 |
| 47 | 12 | 7614 | 7849 | 0085 | 8321 | 8557 | 8792 | 9028 | 9264 | 9500 | 9736 | 9972 | 0208 | 0444 | 0680 | 0917 | 1153 | 1389 | 59 | 12 | 3613 |
| 51 | 13 | 7869 | 3104 | 0340 | 8576 | 8811 | 9047 | 9283 | 9518 | 9754 | 9990 | 0226 | 0462 | 0698 | 0934 | 1170 | 1406 | 1642 | 56 | 13 | 3871 |
| 55 | 14 | 8124 | 8359 | 8595 | 8836 | 9066 | 9301 | 9537 | 9773 | 0008 | 0244 | 0480 | 0716 | 0951 | 1187 | 1423 | 1659 | 1895 | 60 | 14 | 4128 |
| 58 | 15 | 3 (4) 6379 | 8614 | 0850 | 9085 | 9321 | 9556 | 9791 | 0027 | 0963 | 0498 | 0734 | 0969 | 1205 | 1441 | 1677 | 1912 | 2148 | 64 | 15 | 3 4385 |
| 62 | 16 | 8634 | 8870 | 9105 | 9346 | 9575 | 9811 | 0046 | 0281 | 0517 | 0752 | 0988 | 1923 | 1459 | 1694 | 1930 | 2166 | 2401 | 69 | 16 | 4643 |
| 66 | 17 | 8890 | 9125 | 9360 | 9595 | 9830 | 0065 | 0300 | 0536 | 0771 | 1006 | 1242 | 1477 | 1712 | 1948 | 2183 | 2419 | 2655 | 73 | 17 | 4900 |
| 70 | 18 | 9145 | 9380 | 9615 | 9850 | 0086 | 0320 | 0555 | 0790 | 1625 | 1260 | 1496 | 1731 | 1966 | 2202 | 2437 | 2672 | 2908 | 77 | 18 | 5158 |
| 74 | 19 | 9460 | 9635 | 9870 | 0105 | 0340 | 0575 | 0009 | 1045 | 1280 | 1515 | 1750 | 1985 | 2220 | 2455 | 2690 | 9926 | 3161 | 89 | 19 | 5416 |
| 78 | 20 | 3 (4) 9656 | 9890 | 0126 | 0360 | 0595 | 0829 | 1064 | 1299 | 1534 | 1769 | 2004 | 2239 | 2474 | 2709 | 2914 | 3179 | 3414 | 86 | 20 | 3 5673 |
| 82 | 21 | 9911 | 0146 | 0380 | 0615 | 0849 | 1084 | 1319 | 1554 | 1788 | 2023 | 2258 | 2493 | 2728 | 2963 | 3198 | 3133 | 3668 | 90 | 21 | 5931 |
| 86 | 22 | 4 0167 | 0401 | 0635 | 0870 | 1104 | 1339 | 1574 | 1808 | 9043 | 2277 | 2512 | 2747 | 2982 | 3217 | 3451 | 3686 | 3921 | 95 | 29 | 6188 |
| 90 | 23 | 6492 | 0636 | 0891 | 1195 | 1359 | 1594 | 1828 | 2063 | 2297 | 2532 | 9766 | 3001 | 3236 | 3470 | 3705 | 3940 | 4175 | 99 | 23 | 6446 |
| 93 | 24 | 6670 | 0912 | 1146 | 1306 | 1614 | 1849 | 2083 | 9317 | 2552 | 2786 | 3021 | 3955 | 3490 | 3724 | 3959 | 4193 | 4128 | 103 | 24 | 6704 |
| 97 | 25 | 4 6933 | 1167 | 1401 | 1635 | 1870 | 9104 | 2338 | 2572 | 2806 | 3041 | 3275 | 3509 | 3744 | 3978 | 4213 | 4447 | 1682 | 107 | 25 | 3 6962 |
| 101 | 96 | 1189 | 1423 | 1657 | 1891 | 2125 | 2359 | 2593 | 2827 | 3061 | 3295 | 3529 | 3763 | 3998 | 4232 | 4466 | 4701 | 4935 | 112 | 26 | 7220 |
| 105 | 27 | 1445 | 1678 | 1912 | 2146 | 2380 | 2614 | 2848 | 3001 | 3315 | 3550 | 3784 | 4618 | 4262 | 4486 | 4720 | 4955 | 5189 | 116 | 27 | 7477 |
| 109 | 28 | 1700 | 1934 | 9168 | 2401 | 2635 | 2869 | 3102 | 3336 | 3570 | 3804 | 4030 | 4279 | 4306 | 4740 | 4974 | 5208 | 5442 | 120 | 28 | 7735 |
| 113 | 29 | 1956 | 2190 | 2423 | 2657 | 2890 | 3124 | 3357 | 3591 | 3825 | 4059 | 4292 | 4526 | 4760 | 4994 | 5298 | 5462 | 5696 | 125 | 29 | 7993 |
| 117 | 30 | 4 2212 | 2445 | 9679 | 2919 | 3145 | 3379 | 3612 | 3846 | 4080 | 4313 | 4547 | 4781 | 5014 | 5248 | 5482 | 5716 | 5950 | 129 | 30 | 3 0251 |
| 121 | 31 | 2460 | 2701 | 2934 | 3167 | 3401 | 3634 | 3867 | 4101 | 4334 | 4568 | 4801 | 5035 | 5269 | 5502 | 5736 | 5970 | 6203 | 133 | 31 | 8509 |
| 195 | 39 | 2724 | 9957 | 3190 | 3423 | 3656 | 3889 | 4123 | 4356 | 4589 | 4823 | 5056 | 5289 | 5523 | 5756 | 5990 | 6924 | 6457 | 138 | 32 | 8768 |
| 128 | 33 | 2979 | 3912 | 3445 | 3678 | 3911 | 4145 | 4378 | 4611 | 4844 | 5077 | 5311 | 5544 | 5777 | 6011 | 6244 | 6478 | 6711 | 142 | 33 | 9026 |
| 132 | 34 | 3935 | 3468 | 3761 | 3934 | 4167 | 4460 | 4633 | 4866 | 5099 | 5332 | 5565 | 5798 | 6032 | 6265 | 6498 | 6732 | 6965 | 146 | 34 | 9204 |
| 136 | 35 | 4 3491 | 3724 | 3957 | 4190 | 4422 | 4655 | 4888 | 5121 | 5354 | 5587 | 5820 | 6053 | 6286 | 6519 | 6752 | 6986 | 7219 | 150 | 35 | 3 9542 |
| 140 | 36 | 3747 | 3980 | 4213 | 4445 | 4678 | 4911 | 5143 | 5376 | 5609 | 5842 | 6075 | 6308 | 6541 | 6774 | 7007 | 7240 | 7473 | 155 | 36 | 9800 |
| 144 | 37 | 4063 | 4236 | 4468 | 4761 | 4933 | 5166 | 5399 | 5631 | 5864 | 6097 | 6329 | 6562 | 6795 | 7028 | 7261 | 7494 | 7727 | 159 | 37 | 4 0058 |
| 148 | 38 | 4260 | 4492 | 4724 | 4957 | 5189 | 5421 | 5654 | 5886 | 6119 | 6352 | 6581 | 6817 | 7050 | 7282 | 7515 | 7748 | 7981 | 163 | 38 | 0317 |
| 152 | 39 | 4516 | 4748 | 4980 | 5212 | 5445 | 5677 | 5909 | 6142 | 6374 | 6607 | 6839 | 7072 | 7304 | 7537 | 7769 | 8002 | 8935 | 168 | 39 | 0575 |
| 156 | 40 | 4 4772 | 5004 | 5236 | 5468 | 5700 | 5932 | 6165 | 6397 | 6629 | 6062 | 7094 | 7326 | 7559 | 7791 | 8024 | 8256 | 8189 | 172 | 40 | 4 0834 |
| 160 | 41 | 5028 | 5260 | 5492 | 5724 | 5956 | 6188 | 6420 | 6652 | 6884 | 7117 | 7349 | 7581 | 7813 | 8046 | 8278 | 8511 | 8743 | 176 | 41 | 1092 |
| 163 | 42 | 8284 | 5516 | 6748 | 6980 | 8212 | 6444 | 6676 | 6908 | 7140 | 7372 | 7601 | 7836 | 8060 | 8300 | 8533 | 8765 | 8997 | 181 | 42 | 1350 |
| 167 | 43 | 8541 | 5772 | 6004 | 8236 | 6467 | 6699 | 6931 | 7163 | 7395 | 7627 | 7859 | 8091 | 8323 | 8555 | 8787 | 9019 | 9251 | 185 | 43 | 1609 |
| 171 | 44 | 8797 | 6029 | 6260 | 6492 | 6723 | 6955 | 7187 | 7418 | 7650 | 7882 | 8114 | 8346 | 0578 | 0809 | 9041 | 9274 | 9506 | 189 | 44 | 1867 |
| 175 | 45 | 4 6053 | 6285 | 8516 | 8740 | 6979 | 7211 | 7442 | 7674 | 7905 | 8137 | 0369 | 8601 | 8832 | 9064 | 9296 | 9528 | 9760 | 193 | 45 | 4 2126 |
| 179 | 46 | 4 (5) 6310 | 6541 | 6772 | 7064 | 7235 | 7466 | 7698 | 7929 | 8161 | 8392 | 8624 | 8856 | 9087 | 9319 | 9551 | 9782 | 0014 | 198 | 46 | 2385 |
| 183 | 47 | 6566 | 6797 | 7029 | 7260 | 7491 | 7722 | 7953 | 8185 | 8416 | 0648 | 0879 | 9111 | 9342 | 9574 | 9805 | 0037 | 0269 | 202 | 47 | 2643 |
| 187 | 48 | 6823 | 7654 | 7985 | 7516 | 7747 | 7978 | 8269 | 8440 | 8672 | 8903 | 9134 | 9368 | 9597 | 9828 | 0060 | 0291 | 0523 | 206 | 48 | 2902 |
| 191 | 49 | 7079 | 7310 | 7541 | 7772 | 8063 | 8234 | 8465 | 8696 | 8927 | 9158 | 9389 | 9621 | 9852 | 0003 | 0315 | 0546 | 0777 | 211 | 49 | 3161 |
| 195 | 50 | 4 (5) 7336 | 7566 | 7797 | 0028 | 0259 | 8496 | 8721 | 8952 | 9183 | 9414 | 9645 | 9876 | 0107 | 0338 | 0569 | 0801 | 1032 | 215 | 50 | 4 3490 |
| 199 | 51 | 7592 | 7823 | 8654 | 8284 | 0515 | 8746 | 8976 | 9207 | 9438 | 9669 | 9900 | 0131 | 0382 | 0593 | 0824 | 1055 | 1286 | 919 | 51 | 3678 |
| 202 | 52 | 7649 | 8679 | 8310 | 6540 | 0771 | 9062 | 9232 | 9463 | 9694 | 9924 | 0155 | 6386 | 0617 | 0848 | 1079 | 1310 | 1541 | 224 | 52 | 3937 |
| 206 | 53 | 8106 | 8336 | 8566 | 8797 | 9027 | 9268 | 9488 | 9719 | 9949 | 0180 | 0411 | 0641 | 0872 | 1103 | 1331 | 1565 | 1795 | 228 | 53 | 4196 |
| 210 | 54 | 8362 | 8593 | 8823 | 9053 | 9983 | 9514 | 9744 | 9975 | 0206 | 0436 | 0666 | 0897 | 1127 | 1358 | 1589 | 1819 | 2050 | 232 | 54 | 4455 |
| 214 | 55 | 4 (5) 6619 | 8049 | 9079 | 9309 | 9540 | 9770 | 0000 | 0230 | 0461 | 0691 | 0922 | 1152 | 1382 | 1613 | 1843 | 2674 | 2305 | 236 | 55 | 4 4714 |
| 218 | 86 | 8876 | 9106 | 9336 | 9566 | 9796 | 0026 | 0256 | 0486 | 0716 | 0947 | 1177 | 1407 | 1638 | 1868 | 2098 | 2329 | 2559 | 241 | 86 | 4973 |
| 222 | 57 | 9133 | 9363 | 9592 | 9822 | 0082 | 0902 | 0512 | 0742 | 0972 | 1202 | 1432 | 1663 | 1893 | 2123 | 2353 | 2584 | 2814 | 245 | 87 | 5232 |
| 226 | 58 | 9390 | 9619 | 9849 | 0079 | 6309 | 0530 | 0768 | 0998 | 1228 | 1458 | 1688 | 1918 | 2148 | 2370 | 2688 | 2839 | 3069 | 249 | 58 | 8491 |
| 230 | 59 | 9647 | 9876 | 0106 | 0335 | 0365 | 0795 | 1024 | 1254 | 1484 | 1714 | 1944 | 2174 | 2404 | 2634 | 2864 | 3094 | 3324 | 254 | 59 | 6750 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 63° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 63° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 6009 | 6238 | 6467 | 6696 | 6925 | 7151 | 7383 | 7612 | 7841 | 8070 | 8299 | 0528 | 8757 | 8906 | 9215 | 9445 | 9671 | 258 | 0' | 6 9215 |
| 4 | 1 | 6269 | 6497 | 6726 | 6955 | 7183 | 7412 | 7641 | 7870 | 8029 | 8328 | 8557 | 8786 | 9015 | 9244 | 9473 | 9702 | 9931 | 254 | 1 | 8958 |
| 8 | 2 | 4 (5) 6528 | 6756 | 6985 | 7214 | 7449 | 7671 | 7892 | 8128 | 8357 | 8586 | 8815 | 9043 | 9272 | 9501 | 9730 | 9259 | 0188 | 249 | 2 | 8781 |
| 11 | 3 | 6787 | 7016 | 7244 | 7472 | 7701 | 7929 | 8158 | 8386 | 8615 | 8014 | 9073 | 9301 | 9530 | 2759 | 9988 | 0217 | 0446 | 245 | 3 | 8444 |
| 15 | 4 | 7046 | 7275 | 7503 | 7731 | 7960 | 8188 | 8416 | 8645 | 8873 | 9102 | 2331 | 9559 | 9788 | 0017 | 0245 | 0474 | 0703 | 241 | 4 | 8187 |
| 19 | 5 | 4 (5) 7306 | 7534 | 7762 | 7990 | 8218 | 8447 | 8675 | 8903 | 2132 | 2360 | 2582 | 9817 | 0046 | 0274 | 0503 | 0731 | 0960 | 236 | 5 | 6 7930 |
| 23 | 6 | 7565 | 7793 | 8021 | 8945 | 8177 | 8705 | 8934 | 9162 | 9390 | 9618 | 9847 | 0075 | 0303 | 0532 | 0760 | 0989 | 1217 | 232 | 6 | 7673 |
| 26 | 7 | 7825 | 8052 | 8280 | 8508 | 8736 | 8264 | 9192 | 9420 | 9648 | 9877 | 0105 | 0333 | 0561 | 0790 | 1018 | 1246 | 1475 | 228 | 7 | 7416 |
| 30 | 8 | 8081 | 8312 | 8540 | 8767 | 8995 | 9223 | 9451 | 9679 | 9907 | 0135 | 0363 | 0591 | 0819 | 1047 | 1276 | 1504 | 1732 | 224 | 8 | 7150 |
| 34 | 9 | 8344 | 8571 | 8799 | 9026 | 9254 | 9489 | 9710 | 9938 | 0165 | 0393 | 0621 | 0849 | 1077 | 1305 | 1533 | 1761 | 1990 | 219 | 9 | 6901 |
| 38 | 10 | 4 (5) 8683 | 8831 | 9058 | 9286 | 9513 | 9741 | 9968 | 0196 | 0424 | 0652 | 0879 | 1107 | 1335 | 1563 | 1791 | 2019 | 2247 | 215 | 10 | 6 6644 |
| 41 | 11 | 8863 | 9098 | 2317 | 9545 | 9772 | 0000 | 0227 | 0455 | 0682 | 0910 | 1138 | 1365 | 1593 | 1821 | 2049 | 2276 | 9504 | 211 | 11 | 6386 |
| 45 | 12 | 9122 | 9350 | 9577 | 9804 | 0031 | 0259 | 0486 | 0714 | 0941 | 1168 | 1396 | 1521 | 1051 | 2079 | 2306 | 2534 | 2762 | 206 | 12 | 6129 |
| 49 | 13 | 9382 | 9609 | 9836 | 0063 | 0291 | 0518 | 0745 | 0972 | 1200 | 1427 | 1654 | 1882 | 2109 | 2337 | 2564 | 2792 | 3020 | 202 | 13 | 5872 |
| 53 | 14 | 9612 | 9862 | 0096 | 0323 | 0550 | 0777 | 1004 | 1231 | 1458 | 1685 | 1913 | 2140 | 2367 | 2595 | 2822 | 3050 | 3277 | 198 | 14 | 5615 |
| 56 | 15 | 4 (5) 9901 | 0128 | 0355 | 0582 | 0809 | 1036 | 1263 | 1490 | 1717 | 1944 | 2171 | 2398 | 2626 | 2853 | 3080 | 3307 | 3535 | 193 | 15 | 6 5357 |
| 60 | 16 | 5 0161 | 0388 | 0615 | 0841 | 1068 | 1295 | 1522 | 1749 | 1976 | 2203 | 2430 | 2657 | 2884 | 3111 | 3338 | 3565 | 3792 | 189 | 16 | 5100 |
| 64 | 17 | 0421 | 0618 | 8874 | 1101 | 1327 | 1554 | 1781 | 2008 | 2234 | 2461 | 2688 | 2915 | 3142 | 3369 | 3596 | 3823 | 4850 | 185 | 17 | 4849 |
| 68 | 18 | 0681 | 0907 | 1134 | 1360 | 1587 | 1813 | 2040 | 2267 | 2493 | 2720 | 2947 | 3173 | 3400 | 3627 | 3854 | 4081 | 4308 | 181 | 18 | 4584 |
| 71 | 19 | 0941 | 1167 | 1393 | 1620 | 1846 | 2073 | 2299 | 2526 | 2752 | 2979 | 3205 | 3432 | 3659 | 3885 | 4112 | 4339 | 4566 | 176 | 19 | 4327 |
| 75 | 20 | 5 1201 | 1427 | 1653 | 1879 | 2106 | 2332 | 2558 | 2785 | 3011 | 3237 | 3461 | 3690 | 3917 | 4144 | 4370 | 1597 | 4823 | 172 | 20 | 6 4059 |
| 79 | 21 | 1461 | 1687 | 1913 | 2139 | 2365 | 2591 | 2817 | 3044 | 3270 | 3496 | 3722 | 3949 | 4175 | 4402 | 4628 | 4855 | 5081 | 168 | 21 | 3812 |
| 83 | 22 | 1721 | 1917 | 2172 | 2399 | 9624 | 2851 | 3877 | 3303 | 3529 | 3755 | 3981 | 4207 | 4433 | 4660 | 4886 | 5113 | 5339 | 163 | 22 | 3554 |
| 86 | 23 | 1981 | 2207 | 2432 | 2658 | 2881 | 3110 | 3336 | 3562 | 3788 | 4014 | 4240 | 4466 | 4692 | 4918 | 5145 | 5371 | 5597 | 159 | 23 | 3296 |
| 90 | 24 | 2241 | 2467 | 2592 | 2918 | 3144 | 3369 | 3595 | 3821 | 4047 | 4273 | 4499 | 4725 | 4951 | 5177 | 5403 | 5629 | 5855 | 155 | 24 | 3038 |
| 94 | 25 | 5 2501 | 2727 | 2952 | 3178 | 3403 | 3629 | 3854 | 4080 | 4306 | 4532 | 4757 | 4983 | 5209 | 5135 | 5661 | 5887 | 6113 | 150 | 25 | 6 9780 |
| 98 | 26 | 2761 | 2987 | 3212 | 3437 | 3663 | 3888 | 1114 | 4339 | 4565 | 4791 | 5016 | 5242 | 5468 | 5694 | 5919 | 6115 | 6371 | 146 | 26 | 2523 |
| 101 | 27 | 3021 | 3247 | 3472 | 3697 | 3922 | 4148 | 4373 | 4599 | 4824 | 5050 | 5275 | 5501 | 5726 | 5952 | 6178 | 6404 | 6629 | 142 | 27 | 2265 |
| 105 | 28 | 3282 | 3507 | 3732 | 3257 | 4182 | 4407 | 4633 | 4858 | 5083 | 5309 | 5534 | 5760 | 5985 | 6211 | 6436 | 6662 | 6887 | 138 | 28 | 2007 |
| 109 | 29 | 3542 | 3767 | 3992 | 4217 | 4442 | 1667 | 4892 | 5117 | 5343 | 5568 | 5793 | 6018 | 6244 | 6469 | 6695 | 6920 | 7146 | 133 | 29 | 1749 |
| 113 | 30 | 5 3802 | 4027 | 4252 | 4477 | 4702 | 4927 | 5152 | 5377 | 5602 | 5827 | 6052 | 6277 | 6503 | 6728 | 6953 | 7178 | 7404 | 129 | 30 | 6 1491 |
| 116 | 31 | 4062 | 4287 | 4512 | 4737 | 4961 | 5106 | 5411 | 5636 | 5861 | 6086 | 6311 | 6536 | 6761 | 6986 | 7212 | 7437 | 7662 | 125 | 31 | 1232 |
| 120 | 32 | 4323 | 4547 | 4772 | 4997 | 5221 | 5446 | 5671 | 5896 | 6120 | 6345 | 6570 | 6795 | 7020 | 7245 | 7470 | 7695 | 7920 | 120 | 32 | 0974 |
| 124 | 33 | 4583 | 1808 | 5032 | 5257 | 5481 | 5706 | 5930 | 6155 | 6380 | 6605 | 6829 | 7054 | 7279 | 7504 | 7729 | 7954 | 8179 | 116 | 33 | 0716 |
| 128 | 34 | 4814 | 5068 | 5292 | 5517 | 5741 | 5966 | 6190 | 6415 | 6639 | 6861 | 7008 | 7313 | 7538 | 7763 | 7987 | 8212 | 8437 | 112 | 34 | 0458 |
| 131 | 35 | 5 5104 | 5328 | 5553 | 5777 | 6001 | 6225 | 6150 | 6674 | 6899 | 7123 | 7318 | 7572 | 7797 | 8821 | 8246 | 8471 | 8696 | 107 | 35 | 6 0200 |
| 135 | 36 | 5365 | 5589 | 5813 | 6037 | 6261 | 6185 | 6710 | 6934 | 7158 | 7382 | 7607 | 7831 | 8056 | 8280 | 8505 | 8729 | 8954 | 103 | 36 | 5 9942 |
| 139 | 37 | 5625 | 5849 | 6073 | 6297 | 6521 | 6745 | 6969 | 7193 | 7418 | 7642 | 7866 | 0098 | 8315 | 8539 | 8764 | 8988 | 9212 | 99 | 37 | 9683 |
| 143 | 38 | 5886 | 6110 | 6334 | 6557 | 6781 | 7005 | 7229 | 7454 | 7677 | 7901 | 8125 | 8350 | 8574 | 8798 | 9022 | 9247 | 9471 | 95 | 38 | 9425 |
| 146 | 39 | 6147 | 6370 | 6591 | 6818 | 7011 | 7265 | 7489 | 7713 | 7937 | 8161 | 8385 | 8609 | 8833 | 9057 | 9281 | 9505 | 9729 | 90 | 39 | 9166 |
| 150 | 40 | 5 6407 | 6631 | 6854 | 7078 | 7302 | 7525 | 7749 | 7973 | 8196 | 8420 | 8614 | 8868 | 9092 | 2316 | 9540 | 9764 | 9988 | 86 | 40 | 5 8908 |
| 154 | 41 | 5 (6) 6660 | 6891 | 7115 | 7338 | 7562 | 7785 | 8009 | 8232 | 8456 | 8680 | 8904 | 9127 | 9351 | 9575 | 9799 | 0023 | 0247 | 82 | 41 | 8650 |
| 158 | 42 | 6929 | 7152 | 7375 | 7599 | 7822 | 8045 | 8269 | 8192 | 8716 | 8939 | 9163 | 9387 | 9610 | 9834 | 0058 | 0281 | 0505 | 77 | 42 | 8391 |
| 161 | 43 | 7190 | 7413 | 7636 | 7859 | 8082 | 8306 | 8529 | 8752 | 8976 | 9199 | 9422 | 9646 | 9869 | 0093 | 0317 | 0540 | 0764 | 73 | 43 | 8133 |
| 165 | 44 | 7450 | 7673 | 7896 | 8120 | 8313 | 8566 | 8789 | 9012 | 9235 | 9459 | 9682 | 9905 | 0129 | 0352 | 0575 | 0799 | 1023 | 69 | 44 | 7074 |
| 169 | 45 | 5 (6) 7711 | 7931 | 8157 | 8380 | 8603 | 8826 | 9019 | 9272 | 9495 | 9710 | 9941 | 0165 | 0388 | 0611 | 0835 | 1058 | 1281 | 64 | 45 | 5 7615 |
| 173 | 46 | 7972 | 8125 | 8418 | 8640 | 8863 | 2086 | 9309 | 9532 | 9755 | 9978 | 0201 | 0424 | 0647 | 0871 | 1094 | 1317 | 1540 | 60 | 46 | 7357 |
| 176 | 47 | 0233 | 8456 | 8678 | 8901 | 9124 | 9346 | 9569 | 9799 | 0015 | 0238 | 0461 | 0684 | 0907 | 1130 | 1353 | 1576 | 1799 | 56 | 47 | 7898 |
| 180 | 48 | 8494 | 8717 | 8939 | 9169 | 9384 | 9607 | 9899 | 0052 | 0275 | 0498 | 0720 | 0943 | 1166 | 1389 | 1619 | 1835 | 2058 | 52 | 48 | 6839 |
| 184 | 49 | 0755 | 8977 | 9200 | 9422 | 9645 | 9867 | 0090 | 0312 | 0535 | 0757 | 0980 | 1203 | 1496 | 1618 | 1871 | 2094 | 2317 | 47 | 49 | 6580 |
| 188 | 50 | 5 (6) 9016 | 2238 | 9461 | 9683 | 9905 | 0128 | 0350 | 0572 | 0795 | 1017 | 1240 | 1462 | 1585 | 1908 | 2130 | 2353 | 2576 | 43 | 50 | 5 6322 |
| 191 | 51 | 9277 | 9499 | 9721 | 9914 | 0166 | 0388 | 0610 | 0833 | 1055 | 1277 | 1500 | 1722 | 1945 | 2167 | 2390 | 2612 | 2835 | 39 | 51 | 6063 |
| 195 | 52 | 9538 | 9760 | 9982 | 0204 | 0426 | 0618 | 0871 | 1093 | 1315 | 1537 | 1759 | 1982 | 2204 | 2426 | 2649 | 2871 | 3094 | 34 | 52 | 5804 |
| 199 | 53 | 9800 | 0021 | 0243 | 0465 | 0687 | 0909 | 1131 | 1353 | 1575 | 1797 | 2019 | 2242 | 2464 | 2686 | 2288 | 3131 | 3353 | 30 | 53 | 5545 |
| 203 | 54 | 6 0061 | 0282 | 0504 | 0727 | 0948 | 1170 | 1391 | 1613 | 1835 | 2057 | 2279 | 2501 | 2723 | 2945 | 3160 | 3390 | 3612 | 26 | 54 | 5286 |
| 206 | 55 | 6 0322 | 0544 | 0765 | 0907 | 1208 | 1430 | 1652 | 1874 | 2095 | 2317 | 2539 | 2761 | 2983 | 3205 | 3427 | 3649 | 3871 | 21 | 55 | 5 5027 |
| 210 | 56 | 0583 | 0805 | 1026 | 1218 | 1469 | 1691 | 1912 | 2134 | 2356 | 2577 | 2799 | 3021 | 3243 | 3465 | 3686 | 3908 | 4130 | 17 | 56 | 4768 |
| 214 | 57 | 0845 | 1066 | 1987 | 1509 | 1730 | 1951 | 2173 | 9394 | 2616 | 2837 | 3059 | 3281 | 3502 | 3724 | 3946 | 4168 | 4398 | 13 | 57 | 4509 |
| 218 | 58 | 1106 | 1327 | 1548 | 1770 | 1991 | 2212 | 2433 | 2655 | 2876 | 3098 | 3319 | 3541 | 3762 | 3984 | 4205 | 4427 | 4649 | 9 | 58 | 4250 |
| 221 | 59 | 1367 | 1588 | 1809 | 2031 | 2252 | 2473 | 2694 | 2915 | 3136 | 3358 | 3579 | 3801 | 4029 | 4243 | 4165 | 4687 | 4908 | 4 | 59 | 3990 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg Auxiliar. | 63° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 63° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 (5) 9903 | 0133 | 0362 | 0592 | 9821 | 1051 | 1281 | 1611 | 1749 | 1269 | 2199 | 2429 | 2659 | 2889 | 3119 | 3349 | 3572 | 0 | 0' | 4 6919 |
| 4 | 1 | 5 0160 | 0390 | 0619 | 0848 | 1078 | 1307 | 1537 | 1766 | 1996 | 2225 | 2455 | 2685 | 2914 | 3141 | 3374 | 3604 | 3833 | 4 | 1 | 6269 |
| 8 | 2 | 0417 | 0617 | 0876 | 1105 | 1334 | 1564 | 1793 | 2022 | 2252 | 2481 | 2711 | 2910 | 3170 | 3399 | 3622 | 3859 | 4088 | 9 | 2 | 6528 |
| 11 | 3 | 0675 | 0904 | 1133 | 1362 | 1591 | 1820 | 2049 | 2278 | 2508 | 2737 | 2966 | 3196 | 3425 | 3655 | 3881 | 4114 | 1313 | 13 | 3 | 6787 |
| 15 | 4 | 0232 | 1161 | 1389 | 1618 | 1847 | 2976 | 2306 | 2535 | 2764 | 2923 | 3222 | 3451 | 3681 | 3910 | 4139 | 4369 | 4598 | 17 | 4 | 7047 |
| 19 | 5 | 5 1189 | 1418 | 1646 | 1875 | 2194 | 2333 | 2552 | 2791 | 3020 | 3249 | 3478 | 3707 | 3236 | 4165 | 4325 | 4624 | 1853 | 22 | 5 | 4 7306 |
| 23 | 6 | 1446 | 1676 | 1993 | 2132 | 2361 | 2589 | 2818 | 3047 | 3276 | 3505 | 3734 | 3963 | 4192 | 4421 | 4650 | 4879 | 5108 | 26 | 6 | 7565 |
| 26 | 7 | 1703 | 1932 | 2160 | 2389 | 2617 | 2846 | 3075 | 3303 | 3532 | 3761 | 3990 | 4219 | 4447 | 4676 | 4905 | 5134 | 5363 | 30 | 7 | 7825 |
| 30 | 8 | 1960 | 2189 | 2417 | 2646 | 2874 | 3103 | 3331 | 3560 | 3788 | 4017 | 4246 | 4174 | 4703 | 1932 | 5161 | 5320 | 5619 | 35 | 8 | 8084 |
| 34 | 9 | 2218 | 2446 | 2674 | 2902 | 3131 | 3359 | 3588 | 3816 | 1045 | 4273 | 4502 | 4730 | 4959 | 5188 | 5416 | 5645 | 5874 | 39 | 9 | 8344 |
| 38 | 10 | 5 2475 | 2703 | 2931 | 3159 | 3388 | 3616 | 3844 | 4072 | 4301 | 4529 | 4758 | 4986 | 5215 | 5443 | 5672 | 5900 | 6129 | 43 | 10 | 4 8603 |
| 41 | 11 | 2732 | 2960 | 3188 | 3416 | 3644 | 3873 | 4101 | 4329 | 4557 | 4785 | 5014 | 5242 | 5170 | 5699 | 5927 | 6156 | 6381 | 48 | 11 | 8863 |
| 45 | 12 | 2920 | 3218 | 3445 | 3673 | 3901 | 4129 | 4357 | 4585 | 4813 | 5042 | 5270 | 5498 | 5726 | 5251 | 6183 | 6111 | 6640 | 52 | 12 | 9122 |
| 49 | 13 | 3247 | 3475 | 3703 | 3930 | 4168 | 4386 | 4614 | 4842 | 5070 | 5228 | 5526 | 5754 | 5282 | 6210 | 6438 | 6667 | 6895 | 56 | 13 | 9382 |
| 53 | 14 | 3505 | 3732 | 3960 | 4187 | 4415 | 4613 | 4871 | 5098 | 5326 | 5554 | 5782 | 6010 | 6238 | 6466 | 6694 | 6922 | 7150 | 61 | 14 | 9642 |
| 57 | 15 | 5 3762 | 3990 | 4217 | 4445 | 4672 | 4900 | 5127 | 5355 | 5583 | 5819 | 6038 | 6266 | 6424 | 6722 | 6950 | 7178 | 7106 | 65 | 15 | 4 9902 |
| 60 | 16 | 4029 | 4247 | 4474 | 4702 | 4929 | 5157 | 5384 | 5612 | 5839 | 6067 | 6224 | 6522 | 6750 | 6978 | 7205 | 7433 | 7661 | 69 | 16 | 5 0161 |
| 64 | 17 | 4277 | 4604 | 4732 | 4959 | 5186 | 5414 | 5641 | 5868 | 6096 | 6323 | 6551 | 6778 | 7906 | 7234 | 7461 | 7689 | 7917 | 74 | 17 | 0421 |
| 68 | 18 | 4535 | 4762 | 4989 | 5216 | 5443 | 5671 | 5898 | 6125 | 6352 | 6580 | 6807 | 7035 | 7262 | 7489 | 7717 | 7913 | 8172 | 78 | 18 | 0681 |
| 72 | 19 | 4793 | 6919 | 5246 | 5473 | 5700 | 5928 | 6155 | 6382 | 6609 | 6836 | 7063 | 7291 | 7518 | 7745 | 7273 | 8200 | 8428 | 82 | 19 | 0941 |
| 75 | 20 | 5 6050 | 5277 | 5594 | 5731 | 5258 | 6185 | 6412 | 6638 | 6866 | 7093 | 7320 | 7547 | 7774 | 8001 | 8229 | 8456 | 8683 | 87 | 20 | 5 1291 |
| 79 | 21 | 6398 | 5535 | 5761 | 5988 | 6215 | 6442 | 6668 | 6825 | 7122 | 7349 | 7376 | 7803 | 8030 | 8257 | 8183 | 8712 | 8939 | 91 | 21 | 1461 |
| 83 | 22 | 5566 | 6792 | 6019 | 6245 | 6472 | 6699 | 6925 | 7152 | 7379 | 7606 | 7833 | 8060 | 8287 | 8513 | 8740 | 8968 | 9125 | 95 | 22 | 1721 |
| 87 | 23 | 6824 | 6950 | 6276 | 6693 | 6729 | 6256 | 7183 | 7409 | 7636 | 7862 | 8082 | 8316 | 8513 | 8770 | 8926 | 9223 | 9450 | 100 | 23 | 1981 |
| 90 | 24 | 6081 | 6308 | 6534 | 6760 | 6987 | 7213 | 7440 | 7666 | 7893 | 8119 | 8346 | 8572 | 8792 | 9026 | 9252 | 9479 | 9706 | 104 | 24 | 2241 |
| 94 | 25 | 5 6339 | 6565 | 6792 | 7018 | 7241 | 7470 | 7627 | 7923 | 8149 | 8376 | 8602 | 8822 | 2055 | 2282 | 2508 | 9733 | 9962 | 108 | 25 | 5 2501 |
| 98 | 26 | 5 (6) 6527 | 6823 | 7949 | 7275 | 7591 | 7728 | 7954 | 8180 | 8406 | 8633 | 8859 | 2085 | 9312 | 9538 | 9765 | 9991 | 0218 | 113 | 26 | 2761 |
| 102 | 27 | 6855 | 7081 | 7307 | 7533 | 7759 | 7985 | 8211 | 8437 | 8663 | 8882 | 9116 | 9342 | 9568 | 9794 | 0021 | 0247 | 0473 | 117 | 27 | 3021 |
| 106 | 28 | 7113 | 7339 | 7565 | 7791 | 8916 | 8242 | 8468 | 8694 | 8920 | 9146 | 2372 | 2598 | 9824 | 0051 | 0277 | 0503 | 0729 | 122 | 28 | 3282 |
| 109 | 29 | 7371 | 7597 | 7822 | 8048 | 8274 | 8590 | 8725 | 8951 | 9177 | 9403 | 9622 | 2855 | 0081 | 0307 | 0533 | 0759 | 0985 | 126 | 29 | 3512 |
| 113 | 30 | 5 (6) 7629 | 7855 | 8080 | 8306 | 8531 | 8757 | 8983 | 9208 | 9134 | 9669 | 9886 | 0112 | 0337 | 0563 | 0789 | 1015 | 1241 | 130 | 30 | 5 3802 |
| 117 | 31 | 7887 | 8113 | 8338 | 8564 | 8789 | 9911 | 9240 | 9466 | 9691 | 9917 | 0142 | 0368 | 0594 | 0820 | 1046 | 1271 | 1497 | 135 | 31 | 4063 |
| 121 | 32 | 8146 | 8371 | 8526 | 8821 | 9947 | 9272 | 9497 | 9723 | 9948 | 0174 | 0399 | 0625 | 0850 | 1076 | 1302 | 1528 | 1753 | 139 | 32 | 4323 |
| 124 | 33 | 8491 | 8629 | 8851 | 9079 | 9394 | 9529 | 9755 | 9980 | 0205 | 0431 | 0656 | 0882 | 1107 | 1333 | 1558 | 1784 | 2009 | 143 | 33 | 4583 |
| 128 | 34 | 8662 | 8887 | 9112 | 9337 | 9562 | 9787 | 0012 | 0237 | 0463 | 9688 | 0913 | 1138 | 1364 | 1589 | 1815 | 2040 | 2265 | 148 | 34 | 4844 |
| 132 | 35 | 5 (6) 8920 | 9146 | 9370 | 2395 | 9820 | 0045 | 0270 | 0495 | 0720 | 0945 | 1170 | 1395 | 1629 | 1846 | 2071 | 2226 | 2522 | 152 | 35 | 5 5104 |
| 136 | 36 | 2179 | 9403 | 9628 | 9853 | 0077 | 0302 | 0527 | 0752 | 0977 | 1202 | 1427 | 1652 | 1877 | 2102 | 2327 | 2553 | 2778 | 156 | 36 | 5365 |
| 139 | 37 | 9437 | 9661 | 9886 | 0111 | 0335 | 0560 | 0785 | 1099 | 1234 | 1459 | 1684 | 1909 | 2134 | 2359 | 2584 | 2809 | 3934 | 161 | 37 | 5625 |
| 143 | 38 | 2695 | 9920 | 0144 | 0369 | 0393 | 0818 | 1042 | 1267 | 1492 | 1716 | 1941 | 2166 | 2391 | 2616 | 2840 | 3065 | 3290 | 165 | 38 | 5886 |
| 147 | 39 | 9954 | 0178 | 0402 | 0627 | 0851 | 1975 | 1300 | 1524 | 1749 | 1974 | 2198 | 2423 | 2617 | 2872 | 3097 | 3322 | 3547 | 169 | 39 | 6147 |
| 151 | 40 | 6 0212 | 0436 | 0660 | 0885 | 1102 | 1333 | 1558 | 1782 | 2006 | 2231 | 2455 | 2680 | 2904 | 3129 | 3354 | 3578 | 3803 | 174 | 40 | 5 6407 |
| 155 | 41 | 0471 | 0695 | 0919 | 1143 | 1367 | 1521 | 1815 | 2010 | 2264 | 2488 | 2712 | 2937 | 3161 | 3386 | 3610 | 3835 | 4059 | 178 | 41 | 6668 |
| 158 | 42 | 0729 | 0953 | 1177 | 1401 | 1623 | 1849 | 2073 | 2297 | 2521 | 2746 | 2970 | 3194 | 3118 | 3643 | 3867 | 1091 | 4316 | 182 | 42 | 6929 |
| 162 | 43 | 0988 | 1211 | 1435 | 1659 | 1883 | 2107 | 2331 | 2553 | 2779 | 3003 | 3227 | 3451 | 3675 | 3899 | 1124 | 4348 | 1572 | 187 | 43 | 7190 |
| 166 | 44 | 1246 | 1470 | 1694 | 1917 | 2141 | 2365 | 2589 | 2812 | 3036 | 3260 | 3481 | 3708 | 3932 | 4166 | 4380 | 4604 | 4829 | 191 | 44 | 7450 |
| 170 | 45 | 6 1505 | 1728 | 1952 | 2176 | 2399 | 2623 | 2846 | 3070 | 3224 | 3518 | 3742 | 3966 | 4189 | 4413 | 4637 | 4861 | 5085 | 195 | 45 | 5 7711 |
| 173 | 46 | 1761 | 1987 | 2210 | 2431 | 2657 | 2881 | 3101 | 3328 | 3552 | 3775 | 3999 | 4223 | 4446 | 4670 | 4894 | 5118 | 5342 | 200 | 46 | 7272 |
| 177 | 47 | 2022 | 2216 | 2469 | 2692 | 2915 | 3139 | 3362 | 3586 | 3809 | 4033 | 4259 | 4480 | 4703 | 4227 | 5151 | 5375 | 5598 | 204 | 47 | 8233 |
| 181 | 48 | 2281 | 2504 | 2727 | 2950 | 3174 | 3397 | 3620 | 3844 | 4067 | 4220 | 4514 | 4737 | 4261 | 5184 | 5108 | 5631 | 5855 | 208 | 48 | 8191 |
| 185 | 49 | 2540 | 2763 | 2986 | 3209 | 3432 | 3655 | 3878 | 4101 | 4325 | 4548 | 4771 | 4994 | 5218 | 5441 | 5665 | 5888 | 6112 | 213 | 49 | 8755 |
| 188 | 50 | 6 2722 | 3021 | 3244 | 3467 | 3690 | 3913 | 4136 | 4352 | 4582 | 4805 | 5029 | 5252 | 5475 | 5698 | 5922 | 6145 | 6368 | 217 | 50 | 5 9016 |
| 192 | 51 | 3057 | 3280 | 3503 | 3726 | 3949 | 4171 | 4394 | 4617 | 4840 | 5063 | 5286 | 5502 | 5732 | 5935 | 6179 | 6402 | 6625 | 221 | 51 | 9277 |
| 196 | 52 | 3316 | 3539 | 3762 | 3984 | 4207 | 4430 | 1652 | 4875 | 5098 | 5321 | 5544 | 5767 | 5990 | 6213 | 6436 | 6659 | 6882 | 226 | 52 | 9538 |
| 200 | 53 | 3575 | 3798 | 4020 | 4243 | 4465 | 4688 | 4919 | 5133 | 5356 | 5579 | 5801 | 6024 | 6247 | 6470 | 6693 | 6916 | 7139 | 230 | 53 | 9809 |
| 203 | 54 | 3834 | 4057 | 4279 | 4501 | 4724 | 4946 | 5169 | 6391 | 5614 | 5836 | 6052 | 6282 | 6304 | 6727 | 6950 | 7173 | 7396 | 234 | 54 | 6 0061 |
| 207 | 55 | 6 4093 | 4316 | 4538 | 4760 | 4982 | 5205 | 5427 | 5619 | 5872 | 6024 | 6317 | 6532 | 6762 | 6284 | 7297 | 7430 | 7652 | 239 | 55 | 6 0322 |
| 211 | 56 | 4352 | 4574 | 4726 | 5019 | 5241 | 5463 | 5685 | 5907 | 6130 | 6352 | 6574 | 6797 | 7012 | 7242 | 7164 | 7687 | 7909 | 243 | 56 | 0583 |
| 215 | 57 | 4611 | 4833 | 6055 | 5277 | 5499 | 5721 | 5943 | 6166 | 6388 | 6610 | 6832 | 7054 | 7277 | 7499 | 7721 | 7944 | 8166 | 247 | 57 | 0845 |
| 219 | 58 | 4871 | 5092 | 5314 | 5536 | 5758 | 5989 | 6202 | 6424 | 6646 | 6868 | 7090 | 7312 | 7534 | 7767 | 7979 | 8291 | 8123 | 252 | 58 | 1106 |
| 222 | 59 | 6130 | 5351 | 5573 | 5725 | 6017 | 6238 | 6460 | 6682 | 6904 | 7126 | 7348 | 7570 | 7792 | 8014 | 8236 | 8158 | 8680 | 256 | 59 | 1367 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 64° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 64° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 1629 | 1850 | 2071 | 2222 | 2513 | 2734 | 2955 | 3176 | 3327 | 3618 | 3839 | 4061 | 4282 | 4503 | 4725 | 4216 | 5167 | 260 | 0' | 6 3731 |
| 4 | 1 | 1890 | 2111 | 2332 | 2553 | 2774 | 2994 | 3215 | 3436 | 3657 | 3878 | 4099 | 4321 | 4542 | 4763 | 4984 | 5205 | 5427 | 256 | 1 | 3472 |
| 7 | 2 | 2152 | 2372 | 2593 | 2814 | 3035 | 3255 | 3476 | 3697 | 3918 | 4139 | 1360 | 4581 | 4802 | 5023 | 5244 | 5465 | 5686 | 252 | 2 | 3213 |
| 11 | 3 | 2413 | 2634 | 2854 | 3076 | 3296 | 3516 | 3737 | 3958 | 4170 | 4399 | 4620 | 4841 | 5062 | 5283 | 5504 | 5724 | 5946 | 247 | 3 | 2953 |
| 15 | 4 | 2675 | 2895 | 3116 | 3336 | 3557 | 3777 | 3298 | 4218 | 4432 | 4659 | 4880 | 5101 | 5322 | 5542 | 5703 | 5984 | 6205 | 243 | 4 | 2694 |
| 18 | 0 | 6 2937 | 3157 | 3377 | 3597 | 3818 | 4038 | 4258 | 4472 | 4699 | 4920 | 5140 | 5361 | 5582 | 5802 | 6023 | 6244 | 6465 | 239 | 0 | 5 2435 |
| 22 | 6 | 3198 | 3418 | 3638 | 3852 | 4072 | 4299 | 4519 | 4740 | 4960 | 0180 | 5401 | 5521 | 5842 | 6062 | 6283 | 6503 | 6724 | 234 | 6 | 2170 |
| 25 | 7 | 3460 | 3680 | 3900 | 4120 | 1340 | 1560 | 4780 | 5000 | 5221 | 5441 | 5061 | 5881 | 6102 | 0322 | 6543 | 6763 | 6984 | 230 | 7 | 1916 |
| 29 | 8 | 3722 | 3941 | 4161 | 4381 | 4501 | 4821 | 5041 | 5261 | 5481 | 5701 | 5921 | 6142 | 6362 | 6582 | 6803 | 7023 | 7243 | 226 | 0 | 1656 |
| 33 | 9 | 3983 | 4203 | 4423 | 4643 | 4862 | 5082 | 5302 | 5522 | 5742 | 0962 | 6182 | 6402 | 6622 | 6842 | 7062 | 7283 | 7503 | 221 | 9 | 1397 |
| 36 | 10 | 6 4245 | 4465 | 4684 | 4904 | 5124 | 5343 | 5563 | 5733 | 6003 | 6223 | 6412 | 6662 | 6882 | 7102 | 7322 | 7542 | 7703 | 217 | 10 | 5 1137 |
| 40 | 11 | 4507 | 4726 | 4946 | 5165 | 5385 | 5604 | 5824 | 6044 | 6263 | 6483 | 0703 | 6923 | 7143 | 7362 | 7582 | 7802 | 8022 | 213 | 11 | 0870 |
| 43 | 12 | 4769 | 4988 | 5208 | 5427 | 5646 | 5866 | 6085 | 6305 | 6524 | 6744 | 6964 | 7183 | 7403 | 7623 | 7842 | 8062 | 8282 | 208 | 12 | 0616 |
| 47 | 13 | 5031 | 5250 | 5469 | 5688 | 5908 | 5127 | 6340 | 5566 | 6785 | 7005 | 7224 | 7444 | 7663 | 7883 | 8102 | 8322 | 8542 | 204 | 13 | 0358 |
| 51 | 14 | 5293 | 5512 | 5731 | 5950 | 6169 | 6388 | 6608 | 6827 | 7046 | 7265 | 7485 | 7704 | 7924 | 8143 | 8303 | 8582 | 8802 | 200 | 14 | 6090 |
| 54 | 15 | 6 5555 | 5774 | 5993 | 6211 | 6431 | 6650 | 6869 | 7088 | 7307 | 7526 | 7745 | 7965 | 8184 | 8403 | 8623 | 8842 | 9062 | 195 | 15 | 4 2839 |
| 58 | 16 | 6817 | 6035 | 0254 | 6473 | 6692 | 0911 | 7130 | 7349 | 7560 | 7787 | 8006 | 8225 | 8444 | 8664 | 8883 | 9102 | 9321 | 191 | 16 | 9579 |
| 62 | 17 | 6079 | 6297 | 6516 | 6735 | 6954 | 7172 | 7391 | 7610 | 7822 | 8048 | 8267 | 8486 | 0705 | 8924 | 9143 | 9362 | 9581 | 107 | 17 | 9319 |
| 65 | 18 | 5341 | 6559 | 6778 | 6996 | 7215 | 7434 | 7652 | 7871 | 8090 | 8309 | 8528 | 8747 | 8965 | 9184 | 9403 | 9622 | 9841 | 182 | 10 | 9059 |
| 69 | 19 | 6 (7) 6603 | 6821 | 7040 | 7258 | 7477 | 7695 | 7914 | 8132 | 8351 | 8570 | 8789 | 9007 | 9226 | 9445 | 9664 | 9883 | 0101 | 178 | 19 | 6792 |
| 72 | 20 | 6 (7) 6865 | 7083 | 7302 | 7520 | 7738 | 7957 | 8175 | 8391 | 8612 | 8831 | 9049 | 9268 | 9487 | 2705 | 9924 | 0143 | 0361 | 174 | 26 | 4 8532 |
| 76 | 21 | 7127 | 7346 | 7564 | 7782 | 8000 | 8218 | 8437 | 8555 | 8873 | 9092 | 9310 | 9529 | 9747 | 9966 | 0184 | 0403 | 0622 | 169 | 21 | 8272 |
| 80 | 22 | 7390 | 7608 | 7025 | 8044 | 8262 | 8480 | 8698 | 8915 | 9134 | 9353 | 9571 | 9789 | 0008 | 0226 | 0446 | 0663 | 0882 | 165 | 22 | 8012 |
| 83 | 23 | 7652 | 7870 | 8088 | 8306 | 8523 | 8742 | 8960 | 9178 | 9396 | 9614 | 9832 | 0050 | 0269 | 0487 | 0705 | 0923 | 1142 | 161 | 23 | 7759 |
| 87 | 24 | 7914 | 8132 | 8350 | 8567 | 8785 | 9003 | 9221 | 9439 | 9657 | 9875 | 0093 | 0311 | 0529 | 0747 | 0966 | 1184 | 1402 | 156 | 24 | 7492 |
| 91 | 25 | 6 (7) 8177 | 8391 | 8612 | 8829 | 9047 | 9265 | 9183 | 9700 | 9218 | 0135 | 0354 | 0572 | 0790 | 1008 | 1226 | 1444 | 1662 | 152 | 25 | 4 7232 |
| 94 | 26 | 8439 | 8656 | 8874 | 9091 | 9309 | 9527 | 9744 | 9962 | 0180 | 0397 | 0615 | 0833 | 1051 | 1269 | 1487 | 1705 | 1923 | 148 | 26 | 6979 |
| 98 | 27 | 8701 | 8919 | 9136 | 9353 | 9571 | 9788 | 0006 | 0223 | 0441 | 0659 | 0876 | 1094 | 1312 | 1529 | 1747 | 1965 | 2183 | 143 | 27 | 6718 |
| 101 | 20 | 0964 | 9181 | 9398 | 9615 | 9833 | 0050 | 0268 | 0485 | 0702 | 0920 | 1137 | 1355 | 1572 | 1790 | 2008 | 2226 | 2443 | 139 | 28 | 6458 |
| 105 | 29 | 2226 | 9443 | 9660 | 9878 | 0095 | 0312 | 0529 | 0746 | 0964 | 1181 | 1399 | 1510 | 1833 | 2051 | 2268 | 2486 | 2704 | 135 | 29 | 6198 |
| 109 | 30 | 6 (7) 9489 | 2706 | 9923 | 0140 | 0357 | 0574 | 0791 | 1008 | 1225 | 1443 | 1660 | 1877 | 2094 | 2312 | 2529 | 2747 | 2964 | 130 | 30 | 4 5937 |
| 112 | 31 | 9751 | 9968 | 0185 | 0402 | 0612 | 0836 | 1053 | 1270 | 1487 | 1704 | 1921 | 2138 | 2355 | 2573 | 2790 | 3007 | 3224 | 126 | 31 | 0677 |
| 116 | 32 | 7 0014 | 0231 | 0447 | 0654 | 0881 | 1098 | 1314 | 1531 | 1748 | 1965 | 2182 | 2399 | 2616 | 2833 | 3051 | 3268 | 3485 | 122 | 32 | 5417 |
| 120 | 33 | 0277 | 0493 | 0710 | 0926 | 1143 | 1360 | 1576 | 1793 | 2010 | 2227 | 2444 | 2660 | 2877 | 3094 | 3311 | 3520 | 3745 | 117 | 33 | 0156 |
| 123 | 34 | 0539 | 0756 | 0972 | 1189 | 1405 | 1622 | 1838 | 2055 | 2271 | 2488 | 2705 | 2222 | 3138 | 3355 | 3572 | 3789 | 4005 | 113 | 34 | 4896 |
| 127 | 35 | 7 0802 | 1018 | 1235 | 1451 | 1667 | 1884 | 2100 | 2317 | 2533 | 2750 | 2966 | 3183 | 3400 | 3616 | 3833 | 4050 | 4267 | 109 | 35 | 4 4635 |
| 130 | 36 | 1065 | 1281 | 1497 | 1713 | 1930 | 2146 | 2362 | 2579 | 2795 | 3011 | 3228 | 3444 | 3561 | 3877 | 4094 | 4311 | 4527 | 104 | 36 | 4370 |
| 134 | 37 | 1328 | 1544 | 1739 | 1976 | 2192 | 2408 | 2624 | 2840 | 3057 | 3273 | 3489 | 3706 | 3922 | 4138 | 4355 | 4571 | 4788 | 100 | 37 | 4114 |
| 138 | 38 | 1590 | 1806 | 2022 | 2238 | 2454 | 2670 | 2886 | 3102 | 3318 | 3535 | 3751 | 3967 | 4183 | 4399 | 4616 | 4832 | 5049 | 95 | 38 | 3853 |
| 141 | 39 | 1853 | 2069 | 2285 | 2501 | 2710 | 2932 | 3148 | 3364 | 3580 | 3796 | 4012 | 4228 | 4444 | 4661 | 4877 | 5093 | 5309 | 21 | 39 | 3593 |
| 145 | 40 | 7 2116 | 2332 | 2547 | 2763 | 2979 | 3195 | 3410 | 3626 | 3842 | 4058 | 4274 | 4490 | 4706 | 4922 | 5138 | 5354 | 5570 | 87 | 40 | 4 3332 |
| 149 | 41 | 2379 | 2595 | 2810 | 3026 | 3241 | 3457 | 3672 | 3888 | 4104 | 4320 | 4535 | 4751 | 4967 | 5183 | 5399 | 5615 | 5831 | 62 | 41 | 3071 |
| 152 | 42 | 2642 | 2857 | 3073 | 3288 | 3504 | 3719 | 3935 | 4150 | 4366 | 4581 | 4797 | 5013 | 5229 | 5444 | 5560 | 5876 | 6092 | 78 | 42 | 2810 |
| 156 | 43 | 2905 | 3120 | 3336 | 3551 | 3766 | 3981 | 4197 | 4412 | 4628 | 4843 | 5059 | 5274 | 5490 | 5706 | 5921 | 6137 | 6353 | 74 | 43 | 2550 |
| 159 | 44 | 3168 | 3383 | 3598 | 3813 | 4029 | 4244 | 4459 | 4674 | 4890 | 5105 | 5320 | 5536 | 5751 | 5967 | 6182 | 6398 | 6614 | 69 | 44 | 2289 |
| 163 | 45 | 7 3431 | 3646 | 3861 | 4076 | 4291 | 4506 | 4721 | 4936 | 5152 | 5367 | 5582 | 5797 | 6013 | 6228 | 6444 | 6659 | 6875 | 65 | 45 | 4 2028 |
| 167 | 46 | 3694 | 3909 | 4124 | 4339 | 4554 | 4769 | 4984 | 5199 | 5414 | 5629 | 5844 | 6059 | 5274 | 6490 | 6705 | 6920 | 7136 | 61 | 48 | 1767 |
| 170 | 47 | 3957 | 4172 | 4387 | 4602 | 4816 | 5031 | 5246 | 5461 | 5570 | 5891 | 5106 | 6321 | 6536 | 6751 | 6966 | 7181 | 7397 | 06 | 47 | 1506 |
| 174 | 40 | 4221 | 4435 | 4650 | 4864 | 5079 | 5294 | 5508 | 5723 | 5938 | 6153 | 6368 | 6583 | 5797 | 7012 | 7227 | 7443 | 7658 | 02 | 48 | 1245 |
| 178 | 49 | 4484 | 4698 | 4913 | 5127 | 5342 | 5556 | 5771 | 5985 | 6200 | 6415 | 6630 | 6844 | 7059 | 7274 | 7489 | 7704 | 7919 | 48 | 42 | 0984 |
| 181 | 50 | 7 4747 | 4961 | 5176 | 5390 | 5604 | 5819 | 6033 | 6248 | 6462 | 5677 | 6892 | 7106 | 7321 | 7536 | 7750 | 7965 | 8180 | 43 | 50 | 4 0723 |
| 185 | 51 | 5010 | 5225 | 5439 | 5653 | 5867 | 6081 | 6296 | 6510 | 6725 | 6939 | 7154 | 7368 | 7583 | 7797 | 8012 | 8226 | 8441 | 39 | 51 | 0462 |
| 188 | 52 | 0274 | 5488 | 5762 | 5916 | 6130 | 5344 | 6558 | 6773 | 6987 | 7201 | 7416 | 7630 | 7844 | 8059 | 8273 | 8488 | 8702 | 35 | 02 | 0206 |
| 192 | 03 | 5537 | 5751 | 5965 | 6179 | 6393 | 5607 | 5821 | 7035 | 7249 | 7463 | 7678 | 7892 | 8106 | 8320 | 8535 | 8749 | 8963 | 30 | 03 | 3 9932 |
| 196 | 54 | 6801 | 6014 | 6228 | 6442 | 6656 | 6870 | 7083 | 7297 | 7511 | 7726 | 7940 | 8154 | 8368 | 8582 | 8796 | 9010 | 9220 | 26 | 54 | 9676 |
| 129 | 55 | 7 0064 | 6278 | 6491 | 6705 | 6919 | 7132 | 7346 | 7560 | 7774 | 7988 | 8202 | 8416 | 8630 | 8844 | 9058 | 9272 | 9480 | 22 | 55 | 3 9417 |
| 203 | 56 | 6327 | 6541 | 6754 | 6968 | 7182 | 7395 | 7609 | 7823 | 8036 | 8250 | 8464 | 8678 | 8892 | 2105 | 2312 | 9533 | 9747 | 17 | 56 | 9155 |
| 207 | 57 | 7 (6) 8591 | 6804 | 7018 | 7231 | 7445 | 7658 | 7872 | 8085 | 8299 | 8512 | 8726 | 8940 | 9153 | 9367 | 9581 | 9795 | 0002 | 13 | 07 | 0894 |
| 210 | 58 | 6855 | 7068 | 7281 | 7494 | 7708 | 7921 | 8134 | 8348 | 8561 | 8775 | 8988 | 9202 | 9415 | 9629 | 2843 | 0056 | 0270 | 9 | 58 | 8633 |
| 214 | 59 | 7118 | 7331 | 7544 | 7757 | 7971 | 8184 | 8397 | 8610 | 8824 | 9037 | 9250 | 9464 | 9677 | 9891 | 0104 | 0310 | 0532 | 4 | 09 | 8371 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 64° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 64° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0' | 6 5389 | 5610 | 5832 | 6054 | 6275 | 6497 | 6719 | 6940 | 7162 | 7384 | 7606 | 7828 | 8049 | 8271 | 8493 | 8715 | 8937 | 0 | 0' | 6 1629 |
| 4 | 1 | 5618 | 5869 | 6091 | 6312 | 6534 | 6755 | 6977 | 7199 | 7420 | 7642 | 7064 | 8085 | 8307 | 8529 | 0751 | 8973 | 9195 | 4 | 1 | 1890 |
| 7 | 2 | 5907 | 6129 | 6350 | 6571 | 6793 | 7014 | 7235 | 7457 | 7678 | 7900 | 8121 | 8343 | 8565 | 8786 | 9008 | 9230 | 9452 | 9 | 2 | 2152 |
| 11 | 3 | 6167 | 6388 | 6609 | 6830 | 7051 | 7273 | 7494 | 7715 | 7937 | 8158 | 8379 | 8601 | 8822 | 9044 | 9266 | 9487 | 9709 | 13 | 3 | 2413 |
| 15 | 4 | 6426 | 6647 | 6868 | 7089 | 7310 | 7531 | 7752 | 7974 | 8195 | 8416 | 8637 | 8859 | 9080 | 9392 | 9523 | 9745 | 9966 | 17 | 4 | 2675 |
| 16 | 5 | 6 (7) 6685 | 6906 | 7127 | 7348 | 7569 | 7790 | 8011 | 8232 | 8453 | 8674 | 8896 | 9117 | 9338 | 9559 | 9781 | 0002 | 0223 | 22 | 5 | 6 2937 |
| 22 | 6 | 6945 | 7165 | 7386 | 7607 | 7828 | 8049 | 8270 | 8491 | 8712 | 8933 | 9154 | 9375 | 9596 | 9817 | 0038 | 0259 | 0481 | 26 | 6 | 3198 |
| 25 | 7 | 7204 | 7425 | 7645 | 7866 | 8087 | 8308 | 8528 | 8749 | 8970 | 9191 | 9412 | 9633 | 9854 | 0075 | 0296 | 0517 | 0738 | 31 | 7 | 3460 |
| 29 | 8 | 7464 | 7684 | 7905 | 8125 | 8346 | 8566 | 8787 | 9008 | 9228 | 9449 | 9670 | 9891 | 0112 | 0332 | 0553 | 0774 | 0995 | 35 | 8 | 3722 |
| 33 | 9 | 7723 | 7943 | 8164 | 8384 | 8605 | 8825 | 9046 | 9266 | 9487 | 9707 | 9928 | 0149 | 0370 | 0590 | 0811 | 1032 | 1253 | 39 | 9 | 3983 |
| 36 | 10 | 6 (7) 7983 | 8203 | 8423 | 8643 | 8864 | 9084 | 9304 | 9525 | 9745 | 9966 | 0186 | 0407 | 0628 | 0848 | 1069 | 1289 | 1510 | 44 | 10 | 6 4245 |
| 40 | 11 | 8242 | 8462 | 8682 | 8903 | 9123 | 9343 | 9563 | 9784 | 0004 | 0224 | 0445 | 0665 | 0886 | 1106 | 1326 | 1547 | 1768 | 48 | 11 | 4507 |
| 44 | 12 | 8502 | 8722 | 8942 | 9162 | 9382 | 9602 | 9822 | 0042 | 0262 | 0483 | 0703 | 0923 | 1144 | 1364 | 1584 | 1805 | 2025 | 52 | 12 | 4769 |
| 47 | 13 | 8762 | 8981 | 9201 | 9421 | 9641 | 9861 | 0081 | 0301 | 0521 | 0741 | 0961 | 1181 | 1402 | 1622 | 1842 | 2062 | 2283 | 57 | 13 | 5031 |
| 51 | 14 | 9021 | 9241 | 9461 | 9680 | 9909 | 0120 | 0340 | 0560 | 0780 | 1080 | 1220 | 1449 | 1660 | 1880 | 2100 | 2320 | 2540 | 61 | 14 | 5293 |
| 55 | 15 | 6 (7) 9281 | 9501 | 9720 | 9940 | 0159 | 0379 | 0599 | 0819 | 1038 | 1258 | 1478 | 1698 | 1918 | 2138 | 2358 | 2578 | 2798 | 66 | 15 | 6 5555 |
| 58 | 16 | 9541 | 9760 | 9980 | 0199 | 0419 | 0638 | 0858 | 1077 | 1297 | 1517 | 1737 | 1956 | 2176 | 2396 | 2616 | 2836 | 3056 | 70 | 16 | 5817 |
| 62 | 17 | 9801 | 0020 | 0239 | 0459 | 0676 | 0897 | 1117 | 1336 | 1556 | 1775 | 1995 | 2215 | 2434 | 2654 | 2874 | 3093 | 3313 | 74 | 17 | 6079 |
| 65 | 18 | 7 0061 | 0280 | 0499 | 0718 | 0937 | 1157 | 1376 | 1595 | 1815 | 2034 | 2253 | 2473 | 2693 | 2912 | 3132 | 3351 | 3571 | 79 | 18 | 6341 |
| 69 | 19 | 0320 | 0539 | 0758 | 0978 | 1197 | 1416 | 1635 | 1854 | 2073 | 2293 | 2512 | 2731 | 2951 | 3179 | 3390 | 3609 | 3829 | 83 | 19 | 6603 |
| 73 | 20 | 7 0580 | 0799 | 1018 | 1237 | 1456 | 1675 | 1894 | 2113 | 2332 | 2551 | 2771 | 2990 | 3209 | 3428 | 3648 | 3867 | 4087 | 67 | 20 | 6 6865 |
| 76 | 21 | 0849 | 1059 | 1278 | 1497 | 1715 | 1934 | 2153 | 2372 | 2591 | 2810 | 3029 | 3248 | 3467 | 3687 | 3906 | 4125 | 4344 | 92 | 21 | 7127 |
| 80 | 22 | 1100 | 1319 | 1537 | 1756 | 1975 | 2194 | 2412 | 2631 | 2850 | 3069 | 3288 | 3507 | 3726 | 3945 | 4164 | 4383 | 4602 | 96 | 22 | 7390 |
| 84 | 23 | 1360 | 1579 | 1797 | 2916 | 2234 | 2453 | 2672 | 2890 | 3109 | 3328 | 3547 | 3765 | 3984 | 4203 | 4422 | 4641 | 4860 | 101 | 23 | 7652 |
| 87 | 24 | 1620 | 1839 | 2057 | 2275 | 2494 | 2712 | 2931 | 3149 | 3368 | 3587 | 3805 | 4024 | 4243 | 4462 | 4689 | 4899 | 5118 | 165 | 24 | 7914 |
| 91 | 25 | 7 1880 | 2099 | 2317 | 2535 | 2753 | 2972 | 3190 | 3409 | 3627 | 3846 | 4064 | 4283 | 4501 | 4720 | 4939 | 5157 | 5376 | 109 | 25 | 6 8177 |
| 95 | 26 | 2141 | 2359 | 2577 | 2795 | 3013 | 3231 | 3450 | 3668 | 3886 | 4105 | 4323 | 4541 | 4760 | 4978 | 5197 | 5415 | 5634 | 114 | 26 | 8439 |
| 98 | 27 | 2401 | 2619 | 2837 | 3055 | 3273 | 3491 | 3709 | 3927 | 4145 | 4364 | 4582 | 4800 | 5018 | 5237 | 5455 | 5674 | 5892 | 118 | 27 | 8701 |
| 102 | 28 | 2661 | 2879 | 3997 | 3315 | 3532 | 3750 | 3968 | 4186 | 4404 | 4623 | 4841 | 5059 | 5277 | 5495 | 5714 | 5932 | 6150 | 122 | 28 | 8964 |
| 105 | 29 | 2921 | 3139 | 3357 | 3574 | 3792 | 4010 | 4228 | 4446 | 4664 | 4882 | 5100 | 5318 | 5536 | 5754 | 5972 | 6190 | 6408 | 127 | 29 | 9226 |
| 169 | 30 | 7 3182 | 3399 | 3617 | 3834 | 4052 | 4270 | 4487 | 4705 | 4923 | 5141 | 5359 | 5576 | 5794 | 6012 | 6230 | 6448 | 6667 | 131 | 36 | 6 9489 |
| 113 | 31 | 3442 | 3659 | 3877 | 4094 | 4312 | 4529 | 4747 | 4964 | 5182 | 5400 | 5618 | 5835 | 6053 | 6271 | 6489 | 6707 | 6925 | 136 | 31 | 9751 |
| 116 | 32 | 3702 | 3919 | 4137 | 4354 | 4572 | 4789 | 5006 | 5224 | 5441 | 5659 | 5877 | 6094 | 0312 | 6530 | 6747 | 6965 | 7183 | 149 | 32 | 7 0014 |
| 120 | 33 | 3963 | 4180 | 4397 | 4614 | 4831 | 5049 | 5266 | 5483 | 5701 | 5918 | 6136 | 6353 | 6571 | 6788 | 7006 | 7223 | 7441 | 144 | 33 | 0277 |
| 124 | 34 | 4223 | 4440 | 4657 | 4874 | 5091 | 5308 | 5526 | 5743 | 5960 | 6177 | 6395 | 6612 | 6830 | 7047 | 7264 | 7482 | 7699 | 149 | 34 | 0539 |
| 127 | 35 | 7 4483 | 4700 | 4917 | 5134 | 5351 | 5568 | 5785 | 6002 | 6219 | 6437 | 6654 | 6871 | 7088 | 7306 | 7523 | 7740 | 7958 | 153 | 35 | 7 0802 |
| 131 | 36 | 4744 | 4961 | 5177 | 5394 | 5611 | 5828 | 6045 | 6262 | 6479 | 6696 | 6913 | 7130 | 7347 | 7564 | 7782 | 7999 | 8216 | 157 | 36 | 1965 |
| 134 | 37 | 5005 | 5221 | 5438 | 5654 | 5871 | 6089 | 6305 | 6522 | 6738 | 6955 | 7172 | 7389 | 7696 | 7823 | 8040 | 8257 | 8475 | 162 | 37 | 1328 |
| 138 | 38 | 5265 | 5482 | 5698 | 5915 | 6131 | 6348 | 6564 | 6781 | 6998 | 7215 | 7431 | 7648 | 7865 | 8082 | 8299 | 8516 | 8733 | 166 | 38 | 1590 |
| 142 | 39 | 5526 | 5742 | 5958 | 6175 | 6391 | 6608 | 6824 | 7041 | 7257 | 7474 | 7691 | 7907 | 8124 | 8341 | 8558 | 8775 | 8991 | 171 | 39 | 1853 |
| 145 | 40 | 7 5786 | 6003 | 6219 | 6435 | 6651 | 6868 | 7084 | 7301 | 7517 | 7734 | 7959 | 8167 | 8383 | 8600 | 8817 | 9033 | 9250 | 175 | 40 | 7 2116 |
| 149 | 41 | 6047 | 6263 | 6479 | 6695 | 6912 | 7128 | 7344 | 7560 | 7777 | 7993 | 8209 | 8426 | 8642 | 8859 | 9075 | 9292 | 9509 | 179 | 41 | 2379 |
| 153 | 42 | 6308 | 6524 | 6740 | 6956 | 7172 | 7388 | 7604 | 7820 | 8036 | 8232 | 0469 | 8685 | 8901 | 9118 | 9334 | 9551 | 9767 | 184 | 42 | 2642 |
| 156 | 43 | 7 (8) 6568 | 6784 | 7000 | 7216 | 7432 | 7548 | 7864 | 0080 | 8296 | 8512 | 8728 | 8944 | 9161 | 9377 | 9593 | 9809 | 0026 | 188 | 43 | 2905 |
| 166 | 44 | 6829 | 7045 | 7261 | 7476 | 7692 | 7908 | 8124 | 8340 | 8556 | 8772 | 8988 | 9204 | 9420 | 9636 | 9852 | 0068 | 0284 | 192 | 44 | 3168 |
| 164 | 45 | 7 (8) 7090 | 7306 | 7521 | 7737 | 7952 | 8168 | 8384 | 8600 | 8815 | 9031 | 9247 | 9463 | 9679 | 9895 | 0111 | 0327 | 0543 | 197 | 45 | 7 3431 |
| 167 | 46 | 7351 | 7566 | 7782 | 7997 | 8213 | 8428 | 8644 | 8860 | 9075 | 9291 | 9507 | 9722 | 9938 | 0154 | 0370 | 0586 | 0892 | 201 | 46 | 3694 |
| 171 | 47 | 7612 | 7827 | 8042 | 8258 | 8473 | 8689 | 8904 | 9120 | 9335 | 9551 | 9766 | 9982 | 0198 | 0413 | 0629 | 0845 | 1061 | 206 | 47 | 3958 |
| 174 | 48 | 7873 | 8088 | 8303 | 8518 | 8734 | 8949 | 9164 | 9380 | 9595 | 9810 | 0026 | 0241 | 0457 | 0672 | 0888 | 1104 | 1319 | 210 | 48 | 4221 |
| 178 | 49 | 8134 | 8349 | 8564 | 8779 | 8994 | 9209 | 9424 | 9640 | 9855 | 0070 | 0285 | 0501 | 0716 | 0932 | 1147 | 1363 | 1578 | 214 | 49 | 4404 |
| 182 | 50 | 7 (8) 8395 | 8610 | 8824 | 9039 | 9254 | 9169 | 9685 | 9900 | 0115 | 0330 | 0545 | 0760 | 0976 | 1191 | 1406 | 1622 | 1837 | 219 | 50 | 7 4747 |
| 165 | 51 | 8656 | 8870 | 9085 | 9300 | 9515 | 9730 | 9945 | 0160 | 0375 | 0590 | 0805 | 1020 | 1235 | 1450 | 1666 | 1881 | 2096 | 223 | 51 | 5010 |
| 189 | 52 | 8917 | 9131 | 9346 | 9561 | 9775 | 9990 | 0205 | 0420 | 0635 | 0850 | 1065 | 1279 | 1495 | 1710 | 1925 | 2140 | 2355 | 227 | 52 | 5274 |
| 193 | 53 | 9178 | 9392 | 9607 | 9821 | 0036 | 0251 | 0465 | 0680 | 0895 | 1110 | 1324 | 1539 | 1754 | 1969 | 2184 | 2399 | 2614 | 232 | 53 | 5537 |
| 196 | 54 | 9439 | 9653 | 9868 | 0082 | 0297 | 0511 | 0720 | 0940 | 1155 | 1370 | 1584 | 1799 | 2014 | 2228 | 2443 | 2658 | 2873 | 236 | 54 | 5801 |
| 200 | 55 | 7 (8) 9700 | 9914 | 0129 | 0343 | 0557 | 0772 | 0986 | 1200 | 1415 | 1630 | 1844 | 2059 | 2273 | 2488 | 2702 | 2917 | 3132 | 241 | 55 | 7 6064 |
| 204 | 56 | 9961 | 0175 | 0390 | 0604 | 0818 | 1932 | 1246 | 1461 | 1675 | 1890 | 2104 | 2318 | 2533 | 2747 | 2962 | 3176 | 3391 | 245 | 56 | 6327 |
| 207 | 57 | 8 0223 | 0437 | 0651 | 0865 | 1079 | 1293 | 1507 | 1721 | 1935 | 2150 | 2364 | 2578 | 2792 | 3907 | 3221 | 3436 | 3650 | 249 | 57 | 6591 |
| 211 | 58 | 0484 | 0698 | 0912 | 1125 | 1339 | 1553 | 1767 | 1981 | 2195 | 2410 | 2624 | 2838 | 3052 | 3266 | 3481 | 3695 | 3909 | 254 | 58 | 6855 |
| 214 | 59 | 0745 | 0959 | 1173 | 1386 | 1600 | 1814 | 2028 | 2242 | 2456 | 2670 | 2884 | 3098 | 3312 | 3526 | 3740 | 3954 | 4168 | 258 | 59 | 7118 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

Num. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar | 65° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 65° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 (8) 7382 | 7695 | 7808 | 8021 | 8234 | 8446 | 8660 | 8873 | 2086 | 2299 | 9513 | 9725 | 2932 | 0153 | 0366 | 0586 | 6723 | 262 | 0' | 3 8110 |
| 4 | 1 | 7645 | 7858 | 8071 | 8984 | 8427 | 8710 | 8923 | 9136 | 2319 | 9562 | 9775 | 9988 | 0201 | 0415 | 0628 | 0841 | 1055 | 258 | 1 | 7840 |
| 7 | 2 | 7909 | 8122 | 8334 | 8547 | 8760 | 8973 | 9186 | 9399 | 9611 | 9824 | 0037 | 0250 | 0464 | 0677 | 0890 | 1103 | 1316 | 254 | 2 | 7587 |
| 11 | 3 | 8173 | 8385 | 8598 | 8811 | 9023 | 9236 | 9449 | 9661 | 9874 | 0087 | 0300 | 0513 | 0726 | 0932 | 1152 | 1365 | 1578 | 249 | 3 | 7325 |
| 14 | 4 | 8437 | 8649 | 8861 | 9074 | 9286 | 9499 | 9712 | 9924 | 0137 | 0350 | 0562 | 0775 | 0988 | 1201 | 1414 | 1626 | 1839 | 245 | 4 | 7063 |
| 17 | 5 | 7 (8) 8700 | 8913 | 2195 | 9337 | 2550 | 2762 | 9975 | 0187 | 0400 | 0612 | 0825 | 1037 | 1250 | 1463 | 1676 | 1888 | 2101 | 241 | 5 | 3 6802 |
| 21 | 6 | 8964 | 9175 | 9388 | 9601 | 2813 | 0025 | 0238 | 0450 | 0662 | 0875 | 1087 | 1300 | 1512 | 1725 | 1938 | 2150 | 2363 | 236 | 6 | 6540 |
| 24 | 7 | 9228 | 9440 | 9652 | 9864 | 0076 | 0288 | 0501 | 0713 | 0925 | 1137 | 1350 | 1562 | 1775 | 1987 | 2200 | 2412 | 2624 | 232 | 7 | 6278 |
| 28 | 8 | 9492 | 9704 | 9916 | 0128 | 0340 | 0552 | 0764 | 0976 | 1188 | 1400 | 1612 | 1825 | 2037 | 2249 | 9462 | 2674 | 2886 | 227 | 8 | 6017 |
| 31 | 9 | 9756 | 9968 | 0179 | 0391 | 0603 | 0815 | 1027 | 1239 | 1451 | 1663 | 1875 | 2087 | 9299 | 2511 | 2724 | 2936 | 3148 | 923 | 9 | 5755 |
| 35 | 10 | 8 0020 | 0231 | 0443 | 0655 | 0866 | 1078 | 1290 | 1502 | 1714 | 1926 | 2138 | 2350 | 2562 | 2774 | 2986 | 3198 | 3410 | 212 | 10 | 3 5493 |
| 38 | 11 | 0284 | 0495 | 0707 | 0918 | 1130 | 1342 | 1553 | 1765 | 1977 | 2188 | 2400 | 9612 | 2824 | 3036 | 3248 | 3460 | 3672 | 214 | 11 | 5231 |
| 42 | 12 | 0548 | 0759 | 0971 | 1182 | 1393 | 1605 | 1816 | 2028 | 2240 | 2451 | 2663 | 2875 | 3086 | 3298 | 3510 | 3722 | 3934 | 210 | 12 | 4262 |
| 45 | 13 | 0812 | 1023 | 1234 | 1446 | 1657 | 1868 | 2080 | 2291 | 2503 | 2714 | 2926 | 3137 | 3349 | 3561 | 3772 | 3984 | 4196 | 206 | 13 | 4707 |
| 49 | 14 | 1075 | 1987 | 1498 | 1709 | 1921 | 2132 | 2343 | 2554 | 2766 | 2277 | 3189 | 3400 | 3611 | 3823 | 4034 | 4246 | 4458 | 201 | 14 | 4445 |
| 52 | 15 | 8 1340 | 1551 | 1762 | 1273 | 2184 | 2395 | 2606 | 2818 | 3029 | 3940 | 3451 | 3663 | 3874 | 4085 | 4297 | 4508 | 4720 | 197 | 15 | 3 4183 |
| 56 | 16 | 1604 | 1815 | 2026 | 2237 | 9448 | 2659 | 2870 | 3081 | 3292 | 3503 | 3714 | 3925 | 4137 | 4348 | 4559 | 4770 | 4982 | 192 | 16 | 3921 |
| 59 | 17 | 1869 | 2079 | 2290 | 2501 | 2712 | 2922 | 3133 | 3344 | 3555 | 3766 | 3977 | 4188 | 4399 | 4610 | 4821 | 5033 | 5244 | 188 | 17 | 3652 |
| 63 | 18 | 9133 | 2344 | 2554 | 2765 | 2975 | 3186 | 3397 | 3608 | 3818 | 4029 | 4240 | 4451 | 4662 | 4873 | 5084 | 5295 | 5506 | 184 | 18 | 3397 |
| 66 | 19 | 9397 | 2608 | 2818 | 3029 | 3239 | 3450 | 3660 | 3871 | 4082 | 4992 | 4503 | 4714 | 4924 | 5135 | 5346 | 5557 | 5768 | 172 | 19 | 3135 |
| 76 | 20 | 8 2661 | 2872 | 3082 | 3299 | 3503 | 3713 | 3924 | 4134 | 1345 | 4555 | 4766 | 4977 | 5187 | 5398 | 5609 | 5812 | 6030 | 175 | 20 | 3 9872 |
| 73 | 21 | 2926 | 3136 | 3346 | 3556 | 3767 | 3977 | 4187 | 4398 | 4608 | 4812 | 5029 | 5239 | 5430 | 3661 | 5871 | 6082 | 6293 | 171 | 21 | 2610 |
| 77 | 29 | 3190 | 3400 | 3610 | 3820 | 1031 | 4241 | 4451 | 4661 | 4871 | 5082 | 5292 | 5502 | 5713 | 5923 | 6134 | 6344 | 6555 | 156 | 22 | 2348 |
| 80 | 23 | 3455 | 3665 | 3875 | 4084 | 4294 | 4504 | 4715 | 4925 | 5135 | 5315 | 5555 | 5765 | 5276 | 6186 | 6396 | 6607 | 6817 | 162 | 23 | 2086 |
| 84 | 24 | 3719 | 3999 | 4139 | 4349 | 4558 | 4768 | 4978 | 5188 | 5398 | 5608 | 5818 | 6028 | 6239 | 6449 | 6659 | 6869 | 7079 | 157 | 24 | 1823 |
| 87 | 25 | 8 3984 | 4193 | 4403 | 4613 | 1829 | 5032 | 5242 | 5452 | 5662 | 5871 | 6081 | 6291 | 6501 | 6711 | 6922 | 7132 | 7342 | 153 | 25 | 3 1561 |
| 91 | 26 | 4248 | 4458 | 4667 | 4877 | 5086 | 5296 | 5506 | 5715 | 5925 | 6135 | 6345 | 6555 | 6764 | 6971 | 7184 | 7394 | 7604 | 142 | 26 | 1299 |
| 94 | 27 | 4513 | 4792 | 4932 | 5141 | 5350 | 5560 | 5769 | 5979 | 6189 | 6398 | 6608 | 6818 | 7027 | 7237 | 7447 | 7657 | 7867 | 144 | 27 | 1036 |
| 98 | 28 | 4777 | 4987 | 5196 | 5405 | 3614 | 5824 | 6033 | 6243 | 6452 | 6562 | 6871 | 7081 | 7990 | 7500 | 7710 | 7912 | 8129 | 140 | 28 | 0774 |
| 161 | 29 | 5649 | 5251 | 5460 | 5669 | 5879 | 6088 | 6297 | 6506 | 6716 | 6995 | 7134 | 7314 | 7553 | 7763 | 7972 | 8182 | 8392 | 136 | 29 | 0511 |
| 105 | 30 | 8 6307 | 5516 | 5725 | 5234 | 6143 | 6352 | 6561 | 6770 | 6979 | 7189 | 7398 | 7607 | 7816 | 8026 | 8235 | 8445 | 8654 | 131 | 30 | 3 0249 |
| 108 | 31 | 5571 | 5780 | 5989 | 6198 | 6407 | 6616 | 6825 | 7034 | 7243 | 7452 | 7661 | 7870 | 8080 | 8289 | 8498 | 8707 | 8917 | 127 | 31 | 2 2986 |
| 112 | 32 | 5836 | 6045 | 6254 | 6462 | 6671 | 5880 | 7089 | 7298 | 7507 | 7716 | 7925 | 8134 | 8343 | 8552 | 8761 | 8970 | 9179 | 192 | 32 | 9723 |
| 115 | 33 | 6101 | 6309 | 6518 | 6727 | 6945 | 7144 | 7353 | 7569 | 7770 | 7979 | 8188 | 8397 | 8606 | 8815 | 9024 | 9233 | 9442 | 118 | 33 | 2161 |
| 119 | 34 | 6366 | 6574 | 6783 | 6991 | 7200 | 7408 | 7617 | 7823 | 8034 | 8243 | 8452 | 8660 | 8869 | 2078 | 9287 | 2496 | 2103 | 114 | 34 | 9198 |
| 192 | 35 | 8 6631 | 6839 | 7047 | 7256 | 7464 | 7672 | 7881 | 8089 | 8298 | 8507 | 8715 | 8924 | 9132 | 9341 | 2550 | 2752 | 9967 | 109 | 35 | 2 8935 |
| 126 | 36 | 8 (9) 6896 | 7104 | 7312 | 7520 | 7728 | 7947 | 8145 | 8353 | 8562 | 8770 | 8979 | 9187 | 9396 | 9604 | 9813 | 0021 | 0230 | 105 | 36 | 8672 |
| 129 | 37 | 7160 | 7368 | 7577 | 7785 | 7993 | 8201 | 8409 | 8617 | 8826 | 9034 | 9242 | 9451 | 9659 | 9867 | 0076 | 0281 | 6493 | 101 | 37 | 8410 |
| 133 | 38 | 7425 | 7633 | 7841 | 8019 | 8257 | 8465 | 8673 | 8881 | 9089 | 9298 | 9506 | 9714 | 9922 | 0131 | 6339 | 6547 | 0756 | 26 | 38 | 8147 |
| 136 | 39 | 7690 | 7898 | 8106 | 8314 | 8529 | 8730 | 8937 | 9145 | 9353 | 9561 | 9769 | 9978 | 0186 | 0394 | 0602 | 6810 | 1019 | 22 | 39 | 7884 |
| 140 | 40 | 8 (9) 7955 | 8163 | 8371 | 8578 | 8786 | 8994 | 9202 | 9409 | 9617 | 9825 | 0033 | 0241 | 0449 | 0657 | 0865 | 1073 | 1281 | 87 | 40 | 2 7621 |
| 143 | 41 | 8221 | 8428 | 8635 | 8843 | 9051 | 9258 | 9466 | 9674 | 9881 | 0089 | 0297 | 0505 | 0713 | 0921 | 1128 | 1336 | 1544 | 83 | 41 | 7358 |
| 147 | 42 | 8486 | 8693 | 8900 | 9108 | 9315 | 9523 | 9730 | 9938 | 0145 | 0353 | 0561 | 0768 | 0976 | 1184 | 1392 | 1599 | 1807 | 79 | 42 | 7095 |
| 150 | 43 | 8751 | 8958 | 9165 | 9372 | 9580 | 9787 | 9995 | 0202 | 0409 | 0617 | 0824 | 1032 | 1240 | 1447 | 1655 | 1863 | 2070 | 74 | 43 | 6832 |
| 154 | 44 | 9016 | 9223 | 9430 | 9637 | 9844 | 0059 | 0259 | 0466 | 0674 | 0881 | 1088 | 1296 | 1503 | 1711 | 1918 | 2126 | 2333 | 70 | 44 | 6569 |
| 157 | 45 | 8 (9) 9281 | 9488 | 9695 | 9909 | 0109 | 0316 | 0523 | 0730 | 0938 | 1145 | 1352 | 1559 | 1767 | 1974 | 2182 | 2389 | 2597 | 66 | 45 | 2 6306 |
| 161 | 46 | 9546 | 9753 | 9960 | 0167 | 0374 | 0581 | 0788 | 0995 | 1202 | 1409 | 1616 | 1823 | 2030 | 2238 | 2445 | 2652 | 2860 | 61 | 46 | 6042 |
| 164 | 47 | 9812 | 0018 | 0225 | 0432 | 0639 | 0845 | 1052 | 1259 | 1466 | 1673 | 1880 | 2087 | 2294 | 2501 | 2708 | 2915 | 3123 | 57 | 47 | 5779 |
| 168 | 48 | 9 0077 | 0283 | 0490 | 0697 | 0903 | 1110 | 1317 | 1524 | 1730 | 1937 | 2144 | 2351 | 2558 | 2765 | 2972 | 3179 | 3386 | 52 | 48 | 5516 |
| 171 | 49 | 0342 | 0549 | 0755 | 0962 | 1168 | 1375 | 1581 | 1788 | 1995 | 2201 | 2408 | 2615 | 2892 | 3028 | 3235 | 3442 | 3649 | 48 | 49 | 5953 |
| 175 | 50 | 9 0608 | 0814 | 1020 | 1227 | 1433 | 1639 | 1845 | 2052 | 2259 | 9465 | 2672 | 2879 | 3085 | 3292 | 3499 | 3706 | 3912 | 44 | 50 | 2 4990 |
| 178 | 51 | 6873 | 1079 | 1285 | 1499 | 1698 | 1964 | 2110 | 2317 | 2523 | 2730 | 2936 | 3143 | 3349 | 3556 | 3762 | 3969 | 4176 | 39 | 51 | 4726 |
| 182 | 52 | 1138 | 1345 | 1551 | 1757 | 1963 | 2169 | 2375 | 2581 | 2788 | 2994 | 3200 | 3407 | 3613 | 3819 | 4026 | 4232 | 4439 | 35 | 52 | 4463 |
| 185 | 53 | 1404 | 1610 | 1816 | 2022 | 2298 | 2434 | 2640 | 2846 | 3052 | 3258 | 3464 | 3671 | 3877 | 4083 | 4289 | 4496 | 4702 | 31 | 53 | 4192 |
| 189 | 54 | 1670 | 1875 | 9081 | 2287 | 2493 | 2699 | 2905 | 3110 | 3316 | 3529 | 3729 | 3235 | 4141 | 4347 | 4553 | 4759 | 4966 | 26 | 54 | 3936 |
| 122 | 55 | 9 1935 | 2141 | 2346 | 2559 | 2758 | 2964 | 3169 | 3375 | 3581 | 3787 | 3993 | 4199 | 4405 | 4611 | 4817 | 5023 | 5229 | 22 | 55 | 9 3673 |
| 196 | 56 | 9201 | 2406 | 2612 | 2817 | 3023 | 3228 | 3434 | 3640 | 3845 | 4051 | 4257 | 4463 | 4669 | 4875 | 5080 | 5986 | 5492 | 17 | 56 | 3409 |
| 199 | 57 | 2466 | 2672 | 2877 | 3082 | 3288 | 3493 | 3699 | 3904 | 4110 | 4316 | 4521 | 4727 | 4933 | 5138 | 5344 | 5550 | 5756 | 13 | 57 | 3145 |
| 202 | 58 | 2732 | 2937 | 3142 | 3348 | 3553 | 3758 | 3964 | 4169 | 4375 | 4580 | 4786 | 4921 | 5197 | 5402 | 5608 | 5814 | 6019 | 9 | 58 | 2889 |
| 206 | 59 | 2998 | 3203 | 3408 | 3613 | 3818 | 4623 | 4929 | 4434 | 4639 | 4845 | 5050 | 5255 | 5461 | 5666 | 5872 | 6077 | 6283 | 4 | 59 | 2618 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 65° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 65° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 8 | 1007 | 1220 | 1434 | 1647 | 1861 | 2075 | 2288 | 2502 | 9716 | 2930 | 3114 | 3358 | 3572 | 3786 | 4000 | 4214 | 4428 | 0 | 0′ | 7 7382 |
| 4 | 1 | | 1268 | 1481 | 1695 | 1908 | 2122 | 9335 | 2549 | 9763 | 2976 | 3120 | 3404 | 3618 | 3831 | 4045 | 4259 | 4473 | 4687 | 4 | 1 | 7645 |
| 7 | 2 | | 1529 | 1743 | 1956 | 2169 | 2383 | 2596 | 2810 | 3024 | 3237 | 3150 | 3661 | 3878 | 4091 | 4305 | 4519 | 4732 | 4946 | 9 | 2 | 7909 |
| 11 | 3 | | 1791 | 2004 | 2217 | 2430 | 2644 | 2857 | 3870 | 3284 | 3497 | 3711 | 3924 | 4138 | 4351 | 4565 | 4778 | 4992 | 5206 | 13 | 3 | 8173 |
| 14 | 4 | | 2052 | 2265 | 2470 | 9692 | 2905 | 3118 | 3331 | 3544 | 3758 | 3971 | 4184 | 4328 | 4611 | 4824 | 5038 | 5251 | 5465 | 18 | 4 | 8437 |
| 18 | 5 | 8 | 2314 | 2527 | 2740 | 2953 | 3166 | 3372 | 3592 | 3805 | 4018 | 4231 | 4444 | 4658 | 4871 | 5081 | 5298 | 5511 | 5724 | 22 | 5 | 7 8700 |
| 21 | 6 | | 2575 | 2788 | 3001 | 3214 | 3427 | 3640 | 3853 | 4066 | 4278 | 4492 | 4705 | 4918 | 5131 | 5344 | 5557 | 5770 | 5984 | 26 | 6 | 8964 |
| 25 | 7 | | 2837 | 3050 | 3262 | 3475 | 3688 | 3901 | 4113 | 4326 | 4539 | 4752 | 4965 | 5178 | 5391 | 5604 | 5817 | 6030 | 6243 | 31 | 7 | 9228 |
| 28 | 8 | | 3099 | 3311 | 3594 | 3736 | 3949 | 4102 | 4374 | 4587 | 4800 | 5012 | 5225 | 5438 | 5651 | 5864 | 6077 | 6220 | 6503 | 35 | 8 | 9422 |
| 32 | 9 | | 3360 | 3573 | 3785 | 3298 | 4210 | 4423 | 4635 | 4848 | 5060 | 5273 | 5486 | 5698 | 5911 | 6124 | 6337 | 6549 | 6762 | 40 | 9 | 9756 |
| 35 | 10 | 8 | 3622 | 3831 | 4047 | 4259 | 4471 | 4684 | 4896 | 5108 | 5321 | 5533 | 5746 | 5258 | 6171 | 6384 | 6596 | 6809 | 7022 | 44 | 10 | 8 0020 |
| 39 | 11 | | 3884 | 4096 | 4308 | 4520 | 4732 | 4943 | 5157 | 5369 | 5582 | 5794 | 6006 | 6212 | 6431 | 6644 | 6856 | 7069 | 7281 | 42 | 11 | 0284 |
| 42 | 12 | | 4146 | 4358 | 4570 | 4782 | 4994 | 5206 | 5418 | 5630 | 5842 | 6054 | 6267 | 6479 | 6691 | 6904 | 7116 | 7329 | 7541 | 53 | 12 | 0548 |
| 46 | 13 | | 4408 | 4619 | 4831 | 5043 | 5255 | 5467 | 5679 | 5891 | 6103 | 6315 | 6527 | 6739 | 6252 | 7164 | 7376 | 7588 | 7801 | 57 | 13 | 0812 |
| 49 | 14 | | 4669 | 4881 | 5093 | 5301 | 5516 | 5798 | 5940 | 6152 | 6364 | 6576 | 6788 | 7000 | 7212 | 7424 | 7636 | 7848 | 8060 | 62 | 14 | 1076 |
| 53 | 16 | 8 | 4931 | 5143 | 5354 | 5566 | 5778 | 5289 | 6201 | 6413 | 6625 | 6836 | 7048 | 7260 | 7472 | 7684 | 7896 | 8108 | 8320 | 66 | 15 | 8 1340 |
| 56 | 10 | | 5193 | 5405 | 5616 | 3828 | 6039 | 6251 | 6462 | 6674 | 6885 | 7097 | 7302 | 7521 | 7739 | 7214 | 8156 | 8368 | 8580 | 71 | 16 | 1004 |
| 60 | 17 | | 6155 | 5666 | 5878 | 6082 | 6300 | 6512 | 6793 | 6935 | 7146 | 7358 | 7570 | 7781 | 7993 | 8204 | 8416 | 8628 | 8840 | 75 | 17 | 1862 |
| 63 | 18 | | 5717 | 5928 | 6139 | 6351 | 6569 | 6773 | 6985 | 7196 | 7407 | 7619 | 7830 | 8042 | 8253 | 8465 | 8676 | 8888 | 9100 | 79 | 18 | 2133 |
| 67 | 12 | | 6279 | 6120 | 6101 | 6612 | 6823 | 7035 | 7246 | 7457 | 7668 | 7880 | 8091 | 8302 | 8514 | 8725 | 8936 | 9148 | 9360 | 84 | 19 | 2397 |
| 70 | 20 | 8 | 6241 | 6152 | 6663 | 6874 | 7085 | 7296 | 7507 | 7718 | 7929 | 8140 | 8352 | 8563 | 8774 | 8985 | 9197 | 9408 | 9620 | 88 | 20 | 0 2662 |
| 74 | 21 | | 6503 | 6714 | 6925 | 7136 | 7346 | 7557 | 7768 | 7279 | 8190 | 8401 | 8612 | 8823 | 9035 | 9246 | 9457 | 9668 | 9880 | 93 | 21 | 2926 |
| 77 | 22 | 8 (9) | 6765 | 6276 | 7187 | 7397 | 7608 | 7819 | 8030 | 8240 | 8451 | 8662 | 8873 | 9084 | 9295 | 9506 | 9717 | 9928 | 0140 | 97 | 22 | 3190 |
| 01 | 23 | | 7028 | 7238 | 7142 | 7659 | 7870 | 8080 | 8291 | 8502 | 8719 | 8223 | 9134 | 9345 | 9556 | 9767 | 9978 | 0188 | 0408 | 102 | 23 | 3455 |
| 84 | 24 | | 7290 | 7500 | 7710 | 7221 | 8131 | 8342 | 8552 | 8763 | 8274 | 9184 | 9325 | 9606 | 9816 | 0027 | 0238 | 0449 | 0660 | 106 | 24 | 3719 |
| 88 | 25 | 8 (9) | 7552 | 7762 | 7972 | 8183 | 8393 | 8603 | 8814 | 9024 | 9235 | 9445 | 2656 | 9866 | 0077 | 0288 | 0498 | 0709 | 0920 | 110 | 25 | 8 3984 |
| 91 | 26 | | 7814 | 8024 | 8234 | 8145 | 8655 | 8865 | 2075 | 2286 | 9496 | 9706 | 9217 | 0127 | 0338 | 0548 | 0759 | 0969 | 1180 | 115 | 26 | 4248 |
| 95 | 27 | | 8077 | 8287 | 8497 | 8707 | 8917 | 2127 | 9337 | 9547 | 9757 | 9267 | 0178 | 0388 | 0528 | 0809 | 1012 | 1222 | 1440 | 119 | 27 | 4513 |
| 98 | 28 | | 0339 | 8549 | 8759 | 8968 | 9178 | 2388 | 2598 | 9808 | 0018 | 0222 | 0439 | 0649 | 0859 | 1069 | 1272 | 1490 | 1700 | 124 | 28 | 4777 |
| 102 | 29 | | 8601 | 8811 | 9021 | 2230 | 9440 | 9650 | 9860 | 0070 | 0280 | 0490 | 0700 | 0910 | 1120 | 1330 | 1540 | 1750 | 1960 | 128 | 29 | 5042 |
| 105 | 30 | 8 (9) | 8864 | 2073 | 2283 | 9192 | 9702 | 2912 | 0121 | 0331 | 0541 | 0751 | 0961 | 1171 | 1381 | 1521 | 1801 | 2011 | 2221 | 132 | 30 | 8 5307 |
| 109 | 31 | | 2196 | 2336 | 2545 | 9754 | 9964 | 0174 | 0383 | 0593 | 0802 | 1012 | 1222 | 1432 | 1641 | 1851 | 2061 | 2271 | 2481 | 137 | 31 | 5571 |
| 112 | 32 | | 2389 | 9598 | 9807 | 0017 | 0226 | 0435 | 0645 | 0854 | 1064 | 1273 | 1483 | 1693 | 1202 | 2112 | 2322 | 2531 | 2741 | 141 | 32 | 5836 |
| 116 | 33 | | 9651 | 9800 | 0062 | 0272 | 0488 | 0697 | 0206 | 1116 | 1395 | 1535 | 1744 | 1954 | 2163 | 2373 | 2582 | 2792 | 3002 | 146 | 33 | 6101 |
| 119 | 34 | | 9914 | 0193 | 0332 | 0541 | 0750 | 0959 | 1168 | 1377 | 1587 | 1796 | 2005 | 2215 | 2424 | 2634 | 2843 | 3053 | 3262 | 150 | 34 | 6366 |
| 123 | 35 | 9 | 0176 | 0385 | 0594 | 0803 | 1012 | 1221 | 1430 | 1639 | 1848 | 2057 | 2267 | 9476 | 2685 | 2824 | 3104 | 3313 | 3522 | 155 | 35 | 8 6631 |
| 126 | 36 | | 0432 | 0648 | 0856 | 1065 | 1274 | 1483 | 1692 | 1901 | 2110 | 2312 | 2528 | 2737 | 2216 | 3155 | 3364 | 3574 | 3783 | 159 | 36 | 6826 |
| 130 | 37 | | 0702 | 0910 | 1119 | 1327 | 1536 | 1745 | 1954 | 2163 | 2371 | 2580 | 2789 | 2998 | 3207 | 3416 | 3625 | 3831 | 4043 | 163 | 37 | 7160 |
| 133 | 38 | | 0264 | 1173 | 1381 | 1590 | 1798 | 2007 | 2916 | 2424 | 2633 | 2842 | 3051 | 3259 | 3468 | 3077 | 3886 | 4095 | 4304 | 168 | 38 | 7425 |
| 137 | 39 | | 1927 | 1135 | 1644 | 1852 | 2061 | 2269 | 2477 | 2686 | 2895 | 3103 | 3312 | 3521 | 3729 | 3938 | 4147 | 4356 | 4565 | 172 | 39 | 7620 |
| 140 | 40 | 9 | 1490 | 1698 | 1906 | 2114 | 2323 | 2531 | 2732 | 2948 | 3156 | 3365 | 3573 | 3782 | 3990 | 4199 | 4408 | 4616 | 4825 | 177 | 40 | 8 7255 |
| 144 | 41 | | 1752 | 1961 | 2169 | 2377 | 2585 | 2793 | 3001 | 3210 | 3418 | 3626 | 3835 | 4043 | 4252 | 4460 | 4669 | 4877 | 5086 | 181 | 41 | 8221 |
| 147 | 42 | | 2015 | 2293 | 2431 | 2639 | 2847 | 3055 | 3263 | 3472 | 3680 | 3888 | 4096 | 4305 | 4513 | 4721 | 4930 | 5138 | 5346 | 185 | 49 | 8186 |
| 151 | 43 | | 2278 | 2186 | 2694 | 2902 | 3110 | 3318 | 3526 | 3734 | 3942 | 4150 | 4358 | 4566 | 4774 | 4282 | 5191 | 5329 | 5607 | 190 | 43 | 8751 |
| 154 | 44 | | 2541 | 2749 | 2950 | 3164 | 3372 | 3580 | 3788 | 3996 | 4203 | 4411 | 4619 | 4827 | 5035 | 5243 | 5452 | 5660 | 5868 | 124 | 44 | 9016 |
| 158 | 45 | 9 | 2804 | 3011 | 3219 | 3427 | 3634 | 3812 | 4050 | 4258 | 4465 | 4673 | 4881 | 5089 | 5297 | 5505 | 5713 | 5921 | 6129 | 192 | 45 | 8 9281 |
| 101 | 46 | | 3067 | 3274 | 3482 | 3682 | 3897 | 4104 | 4312 | 4520 | 4727 | 4935 | 5143 | 5350 | 5558 | 5766 | 5974 | 6182 | 6320 | 203 | 40 | 2546 |
| 165 | 47 | | 3330 | 3537 | 3715 | 3952 | 4152 | 4367 | 4574 | 4782 | 4989 | 5197 | 5404 | 5612 | 5819 | 6027 | 6235 | 6443 | 6650 | 208 | 47 | 9812 |
| 168 | 48 | | 3593 | 3800 | 4007 | 4214 | 4422 | 4629 | 4836 | 5044 | 5251 | 5458 | 5666 | 5873 | 6081 | 6288 | 6496 | 6704 | 6911 | 212 | 48 | 9 0077 |
| 172 | 49 | | 3856 | 1063 | 4270 | 4477 | 4681 | 4891 | 5092 | 5306 | 5513 | 5720 | 5928 | 6135 | 6342 | 6550 | 6757 | 6965 | 7172 | 916 | 49 | 0342 |
| 175 | 50 | 9 | 4119 | 4326 | 4533 | 4740 | 4947 | 5154 | 5361 | 5568 | 5775 | 5982 | 6189 | 6397 | 6604 | 6811 | 7018 | 7226 | 7433 | 221 | 50 | 9 0608 |
| 179 | 51 | | 4382 | 1589 | 4796 | 5003 | 5209 | 5416 | 5623 | 5830 | 6037 | 6244 | 6451 | 6658 | 6865 | 7073 | 7280 | 7487 | 7694 | 225 | 51 | 0873 |
| 182 | 52 | | 4645 | 4859 | 5059 | 5265 | 5472 | 5679 | 5886 | 6092 | 6299 | 6506 | 6713 | 6920 | 7127 | 7334 | 7541 | 7748 | 7955 | 930 | 52 | 1139 |
| 186 | 53 | | 4909 | 5115 | 5322 | 5528 | 5735 | 5941 | 6148 | 6355 | 6561 | 6768 | 6275 | 7182 | 7388 | 7595 | 7802 | 8009 | 8916 | 934 | 53 | 1404 |
| 189 | 54 | | 5172 | 5378 | 5585 | 5791 | 5997 | 6204 | 6410 | 6617 | 6824 | 7030 | 7237 | 7443 | 7650 | 7857 | 8064 | 8971 | 8477 | 238 | 54 | 1670 |
| 193 | 55 | 9 | 5135 | 5641 | 5818 | 6054 | 6260 | 6466 | 6673 | 6879 | 7086 | 7292 | 7499 | 7705 | 7212 | 8118 | 8325 | 8532 | 8738 | 243 | 55 | 9 1235 |
| 196 | 56 | | 5698 | 5904 | 6111 | 6317 | 6523 | 6729 | 6235 | 7142 | 7348 | 7554 | 7761 | 7967 | 8173 | 8380 | 8587 | 8793 | 2000 | 917 | 56 | 2201 |
| 200 | 57 | | 5962 | 6168 | 6374 | 6580 | 6786 | 6292 | 7198 | 7404 | 7610 | 7816 | 8023 | 8222 | 8435 | 8642 | 8848 | 2054 | 9961 | 252 | 57 | 2466 |
| 203 | 58 | | 0225 | 6431 | 6637 | 6843 | 7049 | 7954 | 7461 | 7666 | 7872 | 8079 | 8285 | 0491 | 8697 | 8003 | 9109 | 2310 | 9529 | 256 | 56 | 2732 |
| 207 | 59 | | 6189 | 6694 | 6900 | 7106 | 7311 | 7517 | 7723 | 7929 | 8135 | 8341 | 8547 | 8753 | 8959 | 9165 | 9371 | 9577 | 9783 | 261 | 59 | 2998 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 66° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 66° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 3263 | 3468 | 3673 | 3878 | 4083 | 4288 | 4494 | 4692 | 4904 | 5109 | 5314 | 5520 | 5725 | 5930 | 6136 | 6341 | 6547 | 265 | 0' | 2 2355 |
| 3 | 1 | 3529 | 3734 | 3939 | 4144 | 4342 | 4554 | 4758 | 4963 | 5168 | 5374 | 5579 | 5784 | 5989 | 6124 | 6399 | 6605 | 6810 | 261 | 1 | 2091 |
| 7 | 2 | 3795 | 4000 | 4204 | 1409 | 4614 | 4819 | 5023 | 5228 | 5133 | 5638 | 5843 | 6048 | 6253 | 6458 | 6663 | 6862 | 7074 | 256 | 2 | 1827 |
| 10 | 3 | 4061 | 1265 | 4470 | 4674 | 4879 | 5084 | 5288 | 5493 | 5698 | 5903 | 6108 | 6312 | 6517 | 6722 | 6927 | 7132 | 7337 | 252 | 3 | 1563 |
| 13 | 4 | 4327 | 4531 | 4735 | 4940 | 5144 | 5349 | 5554 | 5758 | 5963 | 6167 | 6372 | 6577 | 6782 | 6987 | 7191 | 7396 | 7601 | 247 | 4 | 1300 |
| 17 | 5 | 9 4522 | 4797 | 5001 | 5205 | 5410 | 5614 | 5819 | 6023 | 6228 | 6132 | 6637 | 6841 | 7046 | 7251 | 7455 | 7660 | 7865 | 243 | 5 | 2 1036 |
| 20 | 6 | 4858 | 5063 | 5267 | 5471 | 5675 | 5879 | 6084 | 6288 | 6492 | 6627 | 6901 | 7106 | 7310 | 7515 | 7712 | 7924 | 8129 | 238 | 6 | 0772 |
| 24 | 7 | 6124 | 5328 | 5532 | 5736 | 5941 | 6145 | 6342 | 6553 | 6757 | 6962 | 7166 | 7370 | 7575 | 7779 | 7984 | 8188 | 8393 | 234 | 7 | 0508 |
| 27 | 8 | 6390 | 5594 | 5728 | 6002 | 6206 | 6410 | 6614 | 6818 | 7022 | 7226 | 7430 | 7635 | 7839 | 8043 | 8248 | 8452 | 8656 | 230 | 8 | 0244 |
| 30 | 9 | 5656 | 5860 | 6061 | 6268 | 6472 | 6675 | 6879 | 7083 | 7287 | 7491 | 7695 | 7899 | 8104 | 8308 | 8512 | 8716 | 8920 | 225 | 9 | 1 9900 |
| 34 | 10 | 9 5922 | 6126 | 6330 | 6533 | 6737 | 6941 | 7145 | 7348 | 7552 | 7756 | 7960 | 8164 | 8368 | 8572 | 8776 | 8280 | 9184 | 221 | 10 | 1 9716 |
| 37 | 11 | 6182 | 6392 | 6596 | 6799 | 7003 | 7206 | 7410 | 7614 | 7817 | 8021 | 8225 | 8429 | 8632 | 8836 | 9040 | 9244 | 9448 | 216 | 11 | 9452 |
| 40 | 12 | 6455 | 6658 | 6861 | 7065 | 7268 | 7472 | 7675 | 7879 | 8082 | 8286 | 8490 | 8693 | 8897 | 9101 | 9305 | 9508 | 9712 | 212 | 12 | 9108 |
| 44 | 13 | 6721 | 6224 | 7127 | 7331 | 7534 | 7737 | 7941 | 8144 | 8347 | 8551 | 8754 | 8958 | 9162 | 9365 | 9569 | 9772 | 9976 | 208 | 13 | 8924 |
| 47 | 14 | 9 (0) 6987 | 7190 | 7393 | 7596 | 7800 | 8003 | 8206 | 8109 | 8613 | 8816 | 9019 | 9223 | 9426 | 9630 | 9833 | 0037 | 0240 | 203 | 14 | 8660 |
| 60 | 15 | 9 (0) 7253 | 7456 | 7659 | 7862 | 8065 | 8268 | 8471 | 8674 | 8878 | 9081 | 9284 | 9488 | 9691 | 9894 | 0097 | 0301 | 0504 | 199 | 15 | 1 8396 |
| 51 | 16 | 7520 | 7722 | 7925 | 8128 | 8331 | 8534 | 8737 | 8940 | 9143 | 9346 | 9549 | 9753 | 9955 | 0159 | 0362 | 0565 | 0768 | 191 | 16 | 8131 |
| 57 | 17 | 7786 | 7989 | 8121 | 8394 | 8597 | 8799 | 9002 | 2205 | 9408 | 9611 | 9814 | 0017 | 0220 | 0423 | 0626 | 0829 | 1033 | 190 | 17 | 7867 |
| 60 | 18 | 8052 | 8255 | 8457 | 8660 | 8862 | 9065 | 9268 | 9471 | 9673 | 2876 | 0079 | 0282 | 0485 | 0688 | 0891 | 1094 | 1297 | 185 | 18 | 7603 |
| 64 | 19 | 8319 | 8521 | 8723 | 8926 | 9128 | 9331 | 9533 | 9736 | 9939 | 0141 | 0344 | 0547 | 0750 | 0952 | 1155 | 1358 | 1561 | 181 | 19 | 7338 |
| 67 | 20 | 9 (0) 8585 | 8787 | 8989 | 9122 | 9394 | 9597 | 9799 | 0002 | 0204 | 0407 | 0609 | 0812 | 1014 | 1217 | 1420 | 1622 | 1825 | 177 | 20 | 1 7074 |
| 71 | 21 | 8851 | 9054 | 9256 | 9458 | 9660 | 9862 | 0065 | 0267 | 0469 | 0672 | 0874 | 1077 | 1279 | 1482 | 1684 | 1887 | 2090 | 172 | 21 | 6810 |
| 74 | 22 | 9118 | 9320 | 9522 | 9724 | 9226 | 0128 | 0330 | 0532 | 0735 | 0937 | 1139 | 1342 | 1514 | 1746 | 1249 | 2151 | 2354 | 168 | 22 | 6545 |
| 77 | 23 | 9384 | 9586 | 9788 | 9990 | 0192 | 0394 | 0596 | 0798 | 1000 | 1202 | 1405 | 1607 | 1809 | 2011 | 2214 | 2416 | 2618 | 163 | 23 | 6281 |
| 81 | 24 | 9651 | 2853 | 0054 | 0256 | 0458 | 0660 | 0862 | 1064 | 1266 | 1468 | 1670 | 1872 | 2074 | 2276 | 2478 | 2680 | 2883 | 159 | 24 | 6016 |
| 84 | 25 | 9 (0) 9917 | 0119 | 0321 | 0522 | 0724 | 0926 | 1128 | 1329 | 1531 | 1733 | 1935 | 2137 | 2339 | 2541 | 2743 | 2945 | 3147 | 155 | 25 | 1 5752 |
| 87 | 26 | 0 0184 | 0386 | 0587 | 0789 | 0920 | 1192 | 1393 | 1525 | 1797 | 1998 | 2200 | 2402 | 2604 | 2806 | 3008 | 3210 | 3411 | 150 | 26 | 5487 |
| 91 | 27 | 0451 | 0652 | 0853 | 1055 | 1256 | 1458 | 1659 | 1861 | 2062 | 2264 | 2466 | 2667 | 2869 | 3071 | 3272 | 3474 | 3676 | 146 | 27 | 5223 |
| 94 | 28 | 0717 | 0919 | 1120 | 1321 | 1522 | 1724 | 1925 | 2126 | 2328 | 2529 | 2731 | 2932 | 3134 | 3336 | 3537 | 3739 | 3940 | 141 | 28 | 4958 |
| 97 | 29 | 0984 | 1185 | 1386 | 1587 | 1789 | 1990 | 2191 | 2392 | 2594 | 2795 | 2996 | 3198 | 3329 | 3600 | 3802 | 4003 | 4205 | 137 | 29 | 4693 |
| 101 | 30 | 0 1251 | 1452 | 1653 | 1854 | 2055 | 2256 | 2457 | 2658 | 2859 | 3060 | 3262 | 3463 | 3664 | 3865 | 4067 | 4268 | 4470 | 132 | 30 | 1 4429 |
| 104 | 31 | 1518 | 1718 | 1219 | 2120 | 2321 | 2522 | 2723 | 2924 | 3125 | 3326 | 3527 | 3728 | 3929 | 4130 | 4332 | 4533 | 4734 | 128 | 31 | 4164 |
| 107 | 32 | 1785 | 1985 | 2186 | 2387 | 2587 | 2788 | 2989 | 3190 | 3321 | 3522 | 3792 | 3993 | 4195 | 4396 | 4597 | 4798 | 4992 | 124 | 32 | 3899 |
| 111 | 33 | 2051 | 2252 | 2452 | 2653 | 2854 | 3054 | 3255 | 3456 | 3656 | 3857 | 4058 | 4259 | 4460 | 4661 | 4862 | 5063 | 5264 | 119 | 33 | 3634 |
| 114 | 34 | 2318 | 2519 | 2719 | 2919 | 3120 | 3320 | 3521 | 3722 | 3922 | 4123 | 4321 | 4524 | 4725 | 4926 | 5127 | 5327 | 5528 | 115 | 34 | 3369 |
| 118 | 35 | 0 2585 | 2785 | 2986 | 3186 | 3386 | 3587 | 3787 | 3988 | 4188 | 4389 | 4589 | 4790 | 4990 | 5191 | 5392 | 5592 | 5793 | 110 | 35 | 1 3104 |
| 121 | 36 | 2852 | 3052 | 3252 | 3452 | 3653 | 3853 | 4053 | 1254 | 4154 | 4654 | 4855 | 5055 | 5256 | 5456 | 5657 | 5857 | 6058 | 106 | 36 | 2839 |
| 121 | 37 | 3119 | 3319 | 3519 | 3719 | 3919 | 4112 | 1319 | 4520 | 4720 | 4920 | 5120 | 5321 | 5521 | 5721 | 5922 | 6122 | 6323 | 102 | 37 | 2575 |
| 128 | 38 | 3386 | 3586 | 3786 | 3986 | 4186 | 4386 | 4586 | 4786 | 4906 | 5186 | 5386 | 5586 | 5786 | 5987 | 6187 | 6387 | 6588 | 97 | 38 | 2310 |
| 131 | 39 | 3653 | 3853 | 4053 | 1252 | 4452 | 4652 | 4852 | 5052 | 5252 | 5452 | 5652 | 5852 | 6052 | 6252 | 6452 | 6652 | 6852 | 93 | 39 | 2045 |
| 134 | 40 | 0 3920 | 4120 | 4319 | 1519 | 4719 | 4918 | 5118 | 5318 | 5518 | 5718 | 5917 | 6117 | 6317 | 6517 | 6717 | 6917 | 7117 | 88 | 40 | 1 1779 |
| 138 | 41 | 4187 | 4387 | 4586 | 4786 | 4985 | 5185 | 5384 | 5584 | 5784 | 5983 | 6183 | 6383 | 6583 | 6783 | 6983 | 7182 | 7382 | 84 | 41 | 1514 |
| 141 | 42 | 4454 | 4654 | 4853 | 5052 | 5252 | 5451 | 5651 | 5850 | 6050 | 6249 | 6442 | 6649 | 6848 | 7048 | 7248 | 7448 | 7647 | 79 | 42 | 1249 |
| 144 | 43 | 4722 | 4921 | 5120 | 5319 | 5518 | 5718 | 5917 | 6116 | 6316 | 6515 | 6715 | 6914 | 7114 | 7313 | 7613 | 7713 | 7912 | 75 | 43 | 0984 |
| 148 | 44 | 4989 | 5188 | 5387 | 5586 | 5785 | 5981 | 6184 | 6383 | 6582 | 6781 | 6981 | 7180 | 7380 | 7579 | 7778 | 7978 | 8177 | 71 | 44 | 0719 |
| 151 | 45 | 0 5256 | 5455 | 5654 | 5853 | 6052 | 6251 | 6450 | 6649 | 6848 | 7047 | 7247 | 7446 | 7645 | 7844 | 8014 | 8243 | 8443 | 66 | 45 | 1 0154 |
| 154 | 46 | 5523 | 5722 | 5921 | 6120 | 6319 | 6518 | 6716 | 6915 | 7114 | 7314 | 7513 | 7712 | 7911 | 8110 | 8309 | 8508 | 8708 | 62 | 46 | 0188 |
| 158 | 47 | 5791 | 5989 | 6188 | 6387 | 6585 | 6784 | 6983 | 7182 | 7381 | 7580 | 7779 | 7977 | 8176 | 8375 | 8575 | 8774 | 8973 | 57 | 47 | 0 9923 |
| 161 | 48 | 6058 | 6257 | 6455 | 6654 | 6852 | 7051 | 7250 | 7448 | 7647 | 7846 | 8045 | 8243 | 8442 | 8641 | 8840 | 9032 | 9238 | 53 | 48 | 9658 |
| 165 | 49 | 6325 | 6524 | 6722 | 6921 | 7119 | 7318 | 7516 | 7715 | 7913 | 8112 | 8311 | 8509 | 8708 | 8907 | 9105 | 9304 | 9503 | 49 | 49 | 9392 |
| 168 | 50 | 0 6593 | 6791 | 6982 | 7188 | 7386 | 7584 | 7783 | 7981 | 8180 | 8378 | 8577 | 8775 | 0974 | 9172 | 9371 | 9570 | 9768 | 44 | 50 | 0 9127 |
| 171 | 51 | 0 (1) 6860 | 7058 | 7257 | 7455 | 7653 | 7851 | 8049 | 8248 | 8446 | 8644 | 8843 | 9041 | 9240 | 9438 | 9637 | 9835 | 0034 | 40 | 51 | 8861 |
| 175 | 52 | 7128 | 7326 | 7524 | 7722 | 7920 | 8118 | 8316 | 8514 | 8712 | 8911 | 9109 | 9307 | 9505 | 9704 | 9902 | 0101 | 0299 | 35 | 52 | 8596 |
| 178 | 53 | 7395 | 7593 | 7791 | 7989 | 8187 | 8385 | 8583 | 8781 | 0979 | 9177 | 9375 | 9573 | 9771 | 9970 | 0168 | 0366 | 0564 | 31 | 53 | 8330 |
| 181 | 54 | 7663 | 7861 | 8058 | 8256 | 8454 | 8652 | 8849 | 9047 | 9245 | 9443 | 9641 | 9839 | 0037 | 0235 | 0433 | 0632 | 0830 | 26 | 54 | 8065 |
| 105 | 55 | 0 (1) 7930 | 8128 | 8326 | 8523 | 8721 | 8918 | 9116 | 9314 | 9512 | 9710 | 9907 | 0105 | 0303 | 0501 | 0699 | 0897 | 1095 | 22 | 55 | 0 7799 |
| 188 | 56 | 8198 | 8395 | 8593 | 8790 | 8988 | 9185 | 9383 | 9581 | 9778 | 9976 | 0174 | 0371 | 0569 | 0767 | 0965 | 1163 | 1361 | 18 | 56 | 7534 |
| 191 | 57 | 8466 | 8663 | 8860 | 9058 | 9255 | 9452 | 2650 | 2847 | 0045 | 0243 | 0440 | 0638 | 0835 | 1033 | 1231 | 1428 | 1626 | 13 | 57 | 7268 |
| 125 | 58 | 8733 | 8931 | 9128 | 9325 | 9522 | 9719 | 9917 | 0114 | 0311 | 0509 | 0706 | 0904 | 1101 | 1299 | 1496 | 1694 | 1892 | 9 | 58 | 7002 |
| 198 | 59 | 9001 | 9198 | 9395 | 9592 | 9789 | 9987 | 0184 | 0381 | 0578 | 0775 | 0973 | 1170 | 1367 | 1565 | 1762 | 1960 | 2157 | 4 | 59 | 6737 |

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**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 66° | | 17′ | 18′ | 12′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 66° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 9 (0) | 6752 | 6958 | 7163 | 7369 | 7574 | 7780 | 7986 | 8191 | 8397 | 8603 | 8809 | 9015 | 9221 | 9127 | 9633 | 9839 | 0045 | 0 | 0′ | 9 3263 |
| 3 | 1 | | 7016 | 7221 | 7426 | 7632 | 7837 | 8043 | 8248 | 8154 | 8660 | 8865 | 9071 | 9277 | 9482 | 9688 | 9894 | 0100 | 0306 | 4 | 1 | 3529 |
| 7 | 2 | | 7279 | 7484 | 7690 | 7895 | 8100 | 8306 | 8511 | 8717 | 8922 | 9128 | 9333 | 9539 | 9744 | 9950 | 0156 | 0351 | 0557 | 9 | 2 | 3795 |
| 10 | 3 | | 7543 | 7748 | 7953 | 8158 | 8363 | 8569 | 8774 | 8279 | 9184 | 9390 | 9595 | 9801 | 0095 | 0212 | 0417 | 0623 | 0829 | 13 | 3 | 4061 |
| 13 | 4 | | 7805 | 8011 | 8216 | 8421 | 8626 | 8831 | 9037 | 9242 | 9447 | 9652 | 9858 | 0063 | 0268 | 0474 | 0679 | 0885 | 1090 | 18 | 4 | 4327 |
| 17 | 5 | 9 (0) | 8079 | 8275 | 8480 | 8684 | 8889 | 9094 | 9299 | 3504 | 9710 | 9915 | 0120 | 0325 | 0530 | 0736 | 0941 | 1146 | 1351 | 22 | 5 | 9 4592 |
| 20 | 6 | | 8333 | 8538 | 8743 | 8948 | 9153 | 9357 | 9562 | 9767 | 9972 | 0177 | 0382 | 0587 | 0792 | 0997 | 1203 | 1408 | 1613 | 27 | 6 | 4858 |
| 24 | 7 | | 8597 | 8802 | 9005 | 9211 | 9416 | 9520 | 9825 | 0030 | 0235 | 0410 | 0544 | 9849 | 1054 | 1259 | 1464 | 1569 | 1875 | 31 | 7 | 5124 |
| 27 | 8 | | 8861 | 9065 | 9270 | 9474 | 9579 | 9883 | 0088 | 0293 | 0497 | 0702 | 0907 | 1112 | 1316 | 1521 | 1726 | 1231 | 2135 | 36 | 8 | 5390 |
| 30 | 9 | | 9125 | 9329 | 9533 | 2738 | 9942 | 0145 | 0351 | 0556 | 0760 | 0955 | 1169 | 1374 | 1579 | 1783 | 1988 | 2193 | 2398 | 40 | 9 | 5656 |
| 34 | 10 | 9 (0) | 9388 | 9592 | 9797 | 0001 | 0205 | 0410 | 0614 | 0818 | 1023 | 1227 | 1432 | 1636 | 1841 | 2045 | 2250 | 2455 | 2559 | 44 | 10 | 9 5922 |
| 37 | 11 | | 9652 | 9856 | 0050 | 0264 | 0469 | 0673 | 9877 | 1081 | 1286 | 1190 | 1594 | 1899 | 2103 | 2307 | 2512 | 2716 | 2921 | 49 | 11 | 6189 |
| 40 | 12 | | 9216 | 0120 | 0324 | 0528 | 0732 | 0936 | 1140 | 1344 | 1548 | 1752 | 1957 | 2161 | 2365 | 2569 | 2774 | 2978 | 3183 | 53 | 12 | 6455 |
| 44 | 13 | 0 | 9180 | 0384 | 0588 | 0791 | 0995 | 1199 | 1403 | 1607 | 1811 | 2015 | 2219 | 2423 | 2527 | 2832 | 3036 | 3240 | 3444 | 58 | 13 | 6721 |
| 47 | 14 | | 6444 | 0648 | 0851 | 1055 | 1259 | 1462 | 1666 | 1870 | 2074 | 2270 | 2482 | 2686 | 2899 | 3994 | 3298 | 3502 | 3706 | 62 | 14 | 6987 |
| 50 | 15 | 8 | 0708 | 0911 | 1115 | 1318 | 1522 | 1726 | 1929 | 2133 | 2337 | 2541 | 2744 | 2948 | 3152 | 3356 | 3560 | 3764 | 3968 | 67 | 15 | 9 7253 |
| 54 | 16 | | 0972 | 1175 | 1379 | 1582 | 1785 | 1289 | 2192 | 2396 | 2600 | 2803 | 3007 | 3211 | 3414 | 3618 | 3822 | 4026 | 4230 | 71 | 15 | 7520 |
| 57 | 17 | | 1236 | 1439 | 1642 | 1845 | 2049 | 2252 | 2456 | 2652 | 2863 | 3055 | 3270 | 3173 | 3677 | 3880 | 4084 | 4288 | 4492 | 76 | 17 | 7785 |
| 60 | 18 | | 1500 | 1703 | 1996 | 2109 | 2312 | 2516 | 2719 | 2922 | 3125 | 3329 | 3532 | 3736 | 3939 | 4143 | 4345 | 4550 | 4754 | 80 | 18 | 8052 |
| 64 | 19 | | 1764 | 1957 | 2170 | 2373 | 2575 | 2779 | 2982 | 3185 | 3389 | 3592 | 3795 | 3998 | 4202 | 4405 | 4609 | 4812 | 5016 | 85 | 19 | 8319 |
| 67 | 20 | 0 | 2028 | 2231 | 2434 | 2637 | 2840 | 3043 | 3246 | 3119 | 3652 | 3855 | 4058 | 4261 | 4461 | 4668 | 4871 | 5074 | 5277 | 89 | 20 | 9 8585 |
| 71 | 21 | | 2292 | 2495 | 2698 | 2900 | 3103 | 3306 | 3509 | 3712 | 3915 | 4118 | 4321 | 4524 | 4727 | 4930 | 5133 | 5336 | 5539 | 93 | 21 | 8851 |
| 74 | 22 | | 2556 | 2759 | 2962 | 3164 | 3367 | 3570 | 3772 | 3975 | 4178 | 4381 | 4584 | 4786 | 4989 | 5192 | 5395 | 5598 | 5801 | 98 | 22 | 9118 |
| 77 | 23 | | 2821 | 3023 | 3225 | 3428 | 3531 | 3833 | 4036 | 4238 | 4411 | 4644 | 4845 | 5049 | 5252 | 5455 | 5658 | 5861 | 6054 | 102 | 23 | 9384 |
| 81 | 24 | | 3085 | 3287 | 3490 | 3692 | 3894 | 4097 | 4299 | 4502 | 4704 | 4907 | 5109 | 5312 | 5515 | 5717 | 5920 | 6123 | 6326 | 107 | 24 | 9651 |
| 84 | 25 | 0 | 3349 | 3551 | 3754 | 3956 | 4158 | 4350 | 4563 | 4765 | 4957 | 5170 | 5372 | 5575 | 5777 | 5980 | 6183 | 6385 | 6588 | 111 | 25 | 9 9918 |
| 87 | 26 | | 3513 | 3815 | 4018 | 4220 | 4422 | 4624 | 4826 | 5028 | 5231 | 5433 | 5635 | 5838 | 6040 | 6243 | 6445 | 6647 | 6850 | 116 | 26 | 9 9184 |
| 91 | 27 | | 3878 | 4080 | 4282 | 4484 | 4686 | 4888 | 5090 | 5292 | 5494 | 5696 | 5890 | 5100 | 6303 | 6595 | 5707 | 6910 | 7112 | 120 | 27 | 0451 |
| 94 | 28 | | 4142 | 4344 | 4546 | 4748 | 4949 | 5151 | 5353 | 5555 | 5757 | 5959 | 6161 | 6363 | 6566 | 6768 | 6970 | 7172 | 7374 | 125 | 28 | 0717 |
| 97 | 29 | | 4407 | 4698 | 4810 | 5012 | 5213 | 5415 | 5617 | 5819 | 6021 | 6222 | 6424 | 6625 | 6828 | 7030 | 7232 | 7435 | 7637 | 129 | 29 | 9981 |
| 191 | 30 | 0 | 4671 | 4873 | 5074 | 5276 | 5477 | 5679 | 5880 | 6082 | 6284 | 6486 | 6688 | 6889 | 7991 | 7293 | 7495 | 7697 | 7899 | 133 | 30 | 0 1251 |
| 164 | 31 | | 4936 | 5137 | 5338 | 5540 | 5741 | 5943 | 6144 | 5346 | 6547 | 6749 | 6951 | 7152 | 7354 | 7556 | 7750 | 7959 | 8161 | 138 | 31 | 1518 |
| 167 | 32 | | 5200 | 5101 | 5603 | 5804 | 6005 | 6207 | 6408 | 6609 | 6811 | 7912 | 7214 | 7415 | 7617 | 7819 | 8020 | 8222 | 8424 | 142 | 32 | 1785 |
| 111 | 33 | | 5465 | 5666 | 5867 | 6068 | 6269 | 6470 | 6672 | 6873 | 7074 | 7276 | 7477 | 7678 | 7880 | 8081 | 8283 | 8185 | 8585 | 147 | 33 | 2051 |
| 114 | 34 | | 5729 | 5930 | 6131 | 6332 | 6533 | 6734 | 6936 | 7137 | 7338 | 7539 | 7740 | 7941 | 8143 | 8344 | 8546 | 8747 | 8949 | 151 | 34 | 2318 |
| 118 | 35 | 0 | 5994 | 6195 | 6396 | 6596 | 6797 | 6998 | 7199 | 7400 | 7601 | 7802 | 8003 | 8205 | 8406 | 8607 | 8808 | 9010 | 9211 | 156 | 35 | 0 2585 |
| 121 | 36 | | 6259 | 6459 | 6560 | 6851 | 7062 | 7252 | 7453 | 7664 | 7865 | 8066 | 8257 | 8468 | 8569 | 8879 | 9071 | 9272 | 9473 | 160 | 36 | 2852 |
| 124 | 37 | | 6523 | 6724 | 6924 | 7125 | 7326 | 7526 | 7727 | 7928 | 8128 | 8329 | 8530 | 8731 | 8932 | 9133 | 9334 | 9535 | 9736 | 165 | 37 | 3119 |
| 128 | 38 | | 6788 | 6988 | 7189 | 7389 | 7590 | 7790 | 7991 | 8191 | 8392 | 8593 | 8794 | 0994 | 9195 | 9396 | 9597 | 9798 | 9999 | 169 | 38 | 3386 |
| 131 | 39 | 0 (1) | 7053 | 7253 | 7453 | 7654 | 7854 | 8054 | 8255 | 8455 | 8656 | 8856 | 9057 | 9258 | 9458 | 9659 | 9860 | 9060 | 0261 | 174 | 39 | 3653 |
| 134 | 40 | 0 (1) | 7318 | 7518 | 7718 | 7918 | 8118 | 8318 | 8519 | 8719 | 8920 | 9129 | 9320 | 9521 | 9721 | 9922 | 0123 | 0323 | 0524 | 178 | 40 | 0 3920 |
| 138 | 41 | | 7582 | 7782 | 7982 | 8182 | 8383 | 8583 | 8783 | 8983 | 9103 | 9384 | 9584 | 9784 | 9985 | 0185 | 0385 | 0585 | 9785 | 182 | 41 | 4107 |
| 141 | 42 | | 7847 | 8047 | 8247 | 8447 | 8617 | 8847 | 9047 | 9247 | 9447 | 9647 | 9847 | 0048 | 0248 | 0448 | 0648 | 0849 | 1049 | 187 | 42 | 4434 |
| 144 | 43 | | 8112 | 8312 | 8512 | 8711 | 8911 | 9111 | 9311 | 9511 | 9711 | 9911 | 0111 | 9311 | 0511 | 0711 | 0911 | 1112 | 1312 | 191 | 43 | 4722 |
| 148 | 44 | | 8377 | 8577 | 8775 | 8976 | 9176 | 9375 | 9575 | 9775 | 9975 | 0175 | 0375 | 0574 | 0774 | 0974 | 1174 | 1374 | 1575 | 196 | 44 | 4989 |
| 151 | 45 | 0 (1) | 8642 | 8841 | 9041 | 9240 | 9449 | 9540 | 9839 | 0039 | 0239 | 0438 | 0638 | 0838 | 1038 | 1230 | 1437 | 1637 | 1837 | 200 | 45 | 0 5256 |
| 155 | 46 | | 8997 | 9106 | 9305 | 9505 | 9704 | 9904 | 0103 | 0303 | 0503 | 0702 | 0902 | 1101 | 1301 | 1501 | 1701 | 1900 | 2100 | 205 | 46 | 5523 |
| 158 | 47 | | 9172 | 9371 | 9570 | 9770 | 9969 | 0158 | 0358 | 0567 | 0755 | 0965 | 1165 | 1365 | 1554 | 1764 | 1964 | 2163 | 2353 | 209 | 47 | 5791 |
| 161 | 48 | | 9437 | 9536 | 9835 | 0031 | 0233 | 0433 | 0632 | 0831 | 1930 | 1239 | 1429 | 1629 | 1828 | 2027 | 2227 | 2426 | 2626 | 214 | 48 | 6058 |
| 165 | 49 | | 2702 | 9901 | 0109 | 0299 | 0498 | 0697 | 9895 | 1095 | 1294 | 1494 | 1693 | 1892 | 2091 | 2291 | 2490 | 2590 | 2889 | 218 | 49 | 6325 |
| 160 | 60 | 0 (1) | 9967 | 0166 | 0355 | 0564 | 0763 | 0962 | 1160 | 1359 | 1558 | 1758 | 1957 | 2156 | 2355 | 2554 | 2753 | 2953 | 3152 | 222 | 50 | 0 6593 |
| 171 | 51 | | 9232 | 0431 | 0630 | 0828 | 1027 | 1225 | 1425 | 1624 | 1823 | 2022 | 2220 | 2419 | 2618 | 2818 | 3017 | 3216 | 3115 | 227 | 51 | 6860 |
| 175 | 52 | | 0498 | 0696 | 0895 | 1093 | 1292 | 1490 | 1689 | 1888 | 2087 | 2286 | 2484 | 2683 | 2882 | 3081 | 3280 | 3479 | 3678 | 231 | 52 | 7128 |
| 178 | 53 | | 9763 | 0961 | 1160 | 1358 | 1557 | 1755 | 1954 | 2152 | 2351 | 2550 | 2748 | 2947 | 3146 | 3344 | 3543 | 3742 | 3941 | 236 | 53 | 7395 |
| 181 | 54 | | 1028 | 1225 | 1425 | 1623 | 1021 | 2020 | 2218 | 2416 | 2615 | 2814 | 3012 | 3211 | 3409 | 3608 | 3807 | 4005 | 4204 | 240 | 54 | 7663 |
| 185 | 55 | 0 (1) | 1293 | 1491 | 1590 | 1888 | 2086 | 2204 | 2483 | 2681 | 2879 | 3078 | 3276 | 3474 | 3573 | 3871 | 4070 | 4269 | 4467 | 245 | 55 | 0 7930 |
| 188 | 56 | | 1559 | 1757 | 1955 | 2153 | 2351 | 2549 | 2747 | 2945 | 3143 | 3342 | 3540 | 3730 | 3937 | 4135 | 4333 | 4532 | 4739 | 249 | 56 | 8198 |
| 191 | 57 | | 1824 | 2022 | 2220 | 2418 | 2616 | 2814 | 3012 | 3210 | 3408 | 3606 | 3804 | 4002 | 4200 | 4399 | 4597 | 4795 | 4993 | 254 | 57 | 8465 |
| 195 | 58 | | 2089 | 2287 | 2485 | 2683 | 2880 | 3078 | 3276 | 3174 | 3672 | 3870 | 4068 | 4266 | 4454 | 4662 | 4850 | 5058 | 5257 | 258 | 58 | 8733 |
| 198 | 59 | | 2355 | 2552 | 2750 | 2948 | 3145 | 3343 | 3541 | 3738 | 3936 | 4134 | 4332 | 4530 | 4728 | 4926 | 5124 | 5322 | 5520 | 263 | 59 | 2001 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar | 67° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 67° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 0 (1) 9269 | 9466 | 9663 | 9868 | 0057 | 0254 | 0451 | 0648 | 0845 | 1042 | 1232 | 1436 | 1634 | 1831 | 2020 | 2225 | 2423 | 267 | 0' | 0 6471 |
| 3 | 1 | 9537 | 9733 | 2930 | 0127 | 0324 | 0521 | 0718 | 0915 | 1112 | 1300 | 1506 | 1763 | 1900 | 2097 | 2294 | 2491 | 2688 | 263 | 1 | 6205 |
| 6 | 2 | 2804 | 0001 | 8198 | 0394 | 0591 | 0788 | 0985 | 1181 | 1378 | 1575 | 1772 | 1969 | 2166 | 2363 | 2560 | 2757 | 2954 | 258 | 2 | 5932 |
| 10 | 3 | 1 0072 | 0269 | 0465 | 0662 | 0858 | 1055 | 1252 | 1448 | 1615 | 1842 | 2039 | 2235 | 2432 | 2629 | 2826 | 3023 | 3220 | 254 | 3 | 6673 |
| 13 | 4 | 0340 | 0537 | 0733 | 0929 | 1126 | 1322 | 1512 | 1715 | 1912 | 2108 | 2305 | 2502 | 2698 | 2895 | 3092 | 3289 | 3486 | 249 | 4 | 5408 |
| 16 | 5 | 1 0668 | 0804 | 1001 | 1197 | 1393 | 1582 | 1786 | 1982 | 2172 | 2375 | 2572 | 2768 | 2965 | 3161 | 3358 | 3555 | 3751 | 245 | 5 | 8 5142 |
| 19 | 6 | 0876 | 1072 | 1268 | 1464 | 1660 | 1857 | 2053 | 2249 | 2445 | 2642 | 2830 | 3035 | 3231 | 3420 | 3624 | 3821 | 4017 | 240 | 6 | 4876 |
| 23 | 7 | 1114 | 1340 | 1536 | 1732 | 1928 | 2124 | 2320 | 2516 | 2712 | 2909 | 3105 | 3301 | 3497 | 3694 | 3890 | 4086 | 4283 | 236 | 7 | 4610 |
| 26 | 8 | 1412 | 1608 | 1804 | 1999 | 2195 | 2391 | 2587 | 2783 | 2979 | 3175 | 3371 | 3568 | 3764 | 3960 | 4156 | 4352 | 4549 | 231 | 8 | 4344 |
| 22 | 9 | 1680 | 1876 | 2071 | 2267 | 2463 | 2659 | 2855 | 3058 | 3246 | 3442 | 3638 | 3834 | 4030 | 4226 | 4422 | 4618 | 4815 | 227 | 2 | 4078 |
| 32 | 10 | 1 1918 | 2144 | 2339 | 2535 | 2730 | 2926 | 3122 | 3318 | 3513 | 3702 | 3905 | 4101 | 4297 | 4493 | 4688 | 4881 | 5081 | 222 | 10 | 0 3811 |
| 35 | 11 | 2216 | 2412 | 2607 | 2802 | 2998 | 3194 | 3389 | 3585 | 3780 | 3976 | 1172 | 4367 | 4563 | 4759 | 4955 | 5151 | 5346 | 218 | 11 | 3545 |
| 39 | 12 | 2484 | 2680 | 2875 | 3070 | 3266 | 3461 | 3656 | 3852 | 4047 | 4243 | 4438 | 4634 | 4830 | 5025 | 5221 | 5417 | 5612 | 214 | 12 | 3279 |
| 42 | 13 | 2753 | 2948 | 3143 | 3338 | 3533 | 3728 | 3924 | 4112 | 4314 | 4310 | 1705 | 4901 | 5096 | 5292 | 5487 | 5683 | 5878 | 209 | 13 | 3013 |
| 45 | 14 | 3021 | 3216 | 3411 | 3606 | 3801 | 3996 | 4191 | 4386 | 4582 | 4777 | 4972 | 5167 | 5363 | 5558 | 5754 | 5949 | 6144 | 205 | 14 | 2747 |
| 48 | 15 | 1 3289 | 3484 | 3679 | 3874 | 4069 | 4261 | 4459 | 4654 | 4849 | 5044 | 5239 | 5431 | 5622 | 5825 | 6020 | 6215 | 6111 | 200 | 15 | 0 2480 |
| 52 | 16 | 3557 | 3752 | 3947 | 4142 | 4336 | 4531 | 4726 | 4921 | 5116 | 5311 | 5506 | 5701 | 5896 | 6091 | 6286 | 6481 | 6677 | 126 | 16 | 2214 |
| 55 | 17 | 3826 | 4020 | 4215 | 4409 | 4604 | 4799 | 4994 | 5188 | 5383 | 5378 | 5773 | 5968 | 6163 | 6358 | 6553 | 6748 | 6943 | 191 | 17 | 1940 |
| 58 | 18 | 4094 | 4288 | 4483 | 4677 | 4872 | 5866 | 5261 | 5456 | 5650 | 5843 | 6040 | 6235 | 6422 | 6621 | 6819 | 7014 | 7209 | 187 | 18 | 1681 |
| 61 | 19 | 4362 | 4557 | 4751 | 4945 | 5140 | 5334 | 5529 | 5723 | 5918 | 6112 | 6307 | 6501 | 6696 | 6891 | 7086 | 7280 | 7475 | 182 | 12 | 1415 |
| 64 | 20 | 1 4631 | 4825 | 5019 | 5213 | 5408 | 5602 | 5796 | 5991 | 6185 | 6379 | 6574 | 6768 | 6963 | 7158 | 7352 | 7547 | 7741 | 178 | 20 | 0 1149 |
| 68 | 21 | 4899 | 5093 | 5287 | 5481 | 5675 | 5870 | 6061 | 6258 | 6452 | 6647 | 6811 | 7035 | 7230 | 7424 | 7612 | 7813 | 8008 | 174 | 21 | 0882 |
| 71 | 22 | 5168 | 5361 | 5555 | 5719 | 5913 | 6137 | 6332 | 6526 | 6720 | 6914 | 7108 | 7302 | 7497 | 7691 | 7885 | 8080 | 8274 | 169 | 22 | 0616 |
| 74 | 23 | 5436 | 5630 | 5824 | 6017 | 6211 | 6405 | 6599 | 6793 | 6987 | 7181 | 7375 | 7562 | 7764 | 7958 | 8152 | 0346 | 8540 | 165 | 23 | 0349 |
| 77 | 24 | 5705 | 5898 | 6092 | 6286 | 6479 | 6673 | 6867 | 7061 | 7255 | 7449 | 7642 | 7836 | 8030 | 8224 | 0419 | 8613 | 0807 | 160 | 24 | 0082 |
| 81 | 25 | 1 5973 | 6167 | 6360 | 6554 | 6747 | 6911 | 7135 | 7328 | 7522 | 7716 | 7910 | 8104 | 8297 | 8491 | 8685 | 8879 | 9073 | 156 | 25 | 9 9816 |
| 84 | 26 | 6242 | 6435 | 6629 | 6822 | 7015 | 7209 | 7402 | 7596 | 7790 | 7983 | 0177 | 8371 | 8564 | 8758 | 8952 | 9146 | 9340 | 151 | 26 | 9549 |
| 87 | 27 | 6510 | 6704 | 6897 | 7090 | 7284 | 7477 | 7670 | 7864 | 0057 | 8251 | 8444 | 8638 | 8831 | 9025 | 9219 | 9412 | 9606 | 147 | 27 | 9283 |
| 90 | 28 | 6779 | 6972 | 7165 | 7358 | 7552 | 7745 | 7938 | 8131 | 8325 | 8518 | 8712 | 8905 | 9098 | 9292 | 9485 | 9679 | 9873 | 142 | 28 | 9016 |
| 94 | 29 | 1 (2) 7048 | 7241 | 7434 | 7627 | 7820 | 8013 | 8206 | 8399 | 8592 | 8706 | 8979 | 2172 | 2365 | 9559 | 9752 | 9946 | 0139 | 138 | 29 | 8749 |
| 97 | 30 | 1 (2) 7316 | 7509 | 7702 | 7895 | 8088 | 8281 | 8474 | 0667 | 8860 | 9053 | 9246 | 9439 | 9633 | 9826 | 0019 | 0212 | 0406 | 133 | 30 | 9 8482 |
| 100 | 31 | 7585 | 7778 | 7971 | 8163 | 8356 | 8549 | 8742 | 0935 | 9128 | 9321 | 9514 | 2707 | 9900 | 0093 | 0286 | 0479 | 0672 | 129 | 31 | 8215 |
| 103 | 32 | 7854 | 8047 | 8239 | 8432 | 8625 | 8817 | 9010 | 9203 | 9395 | 2588 | 9781 | 2974 | 0167 | 0360 | 0553 | 0746 | 0939 | 125 | 32 | 7942 |
| 106 | 33 | 0123 | 8315 | 8508 | 8700 | 8893 | 9085 | 9278 | 9470 | 9663 | 9856 | 0049 | 0241 | 0434 | 0627 | 0820 | 1013 | 1205 | 120 | 33 | 7682 |
| 110 | 34 | 8392 | 0584 | 8776 | 8969 | 9161 | 9353 | 9546 | 9738 | 9931 | 0123 | 0317 | 0509 | 0701 | 0894 | 1087 | 1272 | 1472 | 116 | 34 | 7415 |
| 113 | 35 | 1 (2) 8661 | 8853 | 9045 | 9237 | 9430 | 9622 | 9814 | 0006 | 0199 | 0391 | 0584 | 0776 | 0969 | 1161 | 1354 | 1546 | 1739 | 111 | 35 | 9 7148 |
| 116 | 36 | 8930 | 9122 | 9314 | 9506 | 9698 | 9890 | 0082 | 0274 | 0467 | 0659 | 0851 | 1043 | 1236 | 1428 | 1621 | 1813 | 2006 | 107 | 36 | 6881 |
| 119 | 37 | 9199 | 9390 | 9582 | 9774 | 9966 | 0158 | 0350 | 0542 | 0734 | 0927 | 1119 | 1311 | 1503 | 1695 | 1888 | 2080 | 2272 | 102 | 37 | 6614 |
| 123 | 38 | 9468 | 9659 | 9851 | 0043 | 0235 | 0427 | 0618 | 0810 | 1002 | 1194 | 1386 | 1578 | 1770 | 1963 | 2155 | 2347 | 2539 | 98 | 38 | 6347 |
| 126 | 39 | 9737 | 9928 | 0120 | 0311 | 0503 | 0695 | 0887 | 1078 | 1270 | 1462 | 1654 | 1846 | 2038 | 2230 | 2422 | 2614 | 2806 | 93 | 39 | 6080 |
| 129 | 40 | 2 0006 | 0197 | 0389 | 0580 | 0772 | 0963 | 1155 | 1347 | 1538 | 1730 | 1922 | 2114 | 2305 | 2497 | 2689 | 2881 | 3073 | 89 | 40 | 9 5813 |
| 132 | 41 | 0275 | 0466 | 0657 | 0849 | 1040 | 1232 | 1423 | 1615 | 1806 | 1998 | 2189 | 2381 | 2573 | 2765 | 2956 | 3148 | 3340 | 85 | 41 | 5546 |
| 135 | 42 | 0544 | 0735 | 0926 | 1118 | 1309 | 1500 | 1692 | 1883 | 2074 | 2266 | 2457 | 2649 | 2840 | 3032 | 3224 | 3415 | 3607 | 80 | 42 | 5278 |
| 139 | 43 | 0813 | 1004 | 1195 | 1386 | 1577 | 1769 | 1960 | 2151 | 2342 | 2531 | 2725 | 2916 | 3108 | 3299 | 3491 | 3682 | 3874 | 76 | 43 | 5011 |
| 142 | 44 | 1082 | 1273 | 1464 | 1655 | 1846 | 2037 | 2228 | 2119 | 2610 | 2802 | 2993 | 3184 | 3375 | 3567 | 3758 | 3949 | 4141 | 71 | 44 | 4744 |
| 145 | 45 | 2 1351 | 1542 | 1733 | 1924 | 2115 | 2306 | 2497 | 2688 | 2879 | 3070 | 3261 | 3452 | 3643 | 3834 | 4025 | 4217 | 4408 | 67 | 45 | 9 4477 |
| 148 | 46 | 1621 | 1811 | 2002 | 2193 | 2383 | 2574 | 2765 | 2956 | 3147 | 3338 | 3529 | 3720 | 3911 | 4102 | 4293 | 4484 | 4675 | 62 | 46 | 4209 |
| 152 | 47 | 1890 | 2080 | 2271 | 2461 | 2652 | 2843 | 3033 | 3224 | 3415 | 3606 | 3797 | 3987 | 4178 | 4369 | 4560 | 4751 | 4942 | 58 | 47 | 3942 |
| 155 | 48 | 2159 | 2350 | 2540 | 2730 | 2921 | 3111 | 3302 | 3493 | 3683 | 3874 | 4065 | 4255 | 4446 | 4637 | 4827 | 5018 | 5209 | 63 | 48 | 3675 |
| 158 | 49 | 2429 | 2619 | 2809 | 2999 | 3190 | 3380 | 3570 | 3761 | 3951 | 4142 | 4333 | 4523 | 4714 | 4904 | 5095 | 5286 | 5476 | 49 | 49 | 3407 |
| 161 | 50 | 2 2698 | 2888 | 3078 | 3268 | 3459 | 3649 | 3839 | 4029 | 4220 | 4410 | 4601 | 4791 | 4981 | 5172 | 5362 | 5553 | 5744 | 44 | 50 | 9 3140 |
| 165 | 51 | 2967 | 3157 | 3347 | 3537 | 3727 | 3918 | 4108 | 4298 | 4488 | 4678 | 4869 | 5059 | 5249 | 5440 | 5630 | 5820 | 6011 | 40 | 51 | 2872 |
| 160 | 52 | 3237 | 3427 | 3616 | 3806 | 3996 | 4186 | 4376 | 4566 | 4756 | 4946 | 5137 | 5327 | 5517 | 5707 | 5897 | 6080 | 6278 | 36 | 52 | 2605 |
| 171 | 53 | 3506 | 3696 | 3886 | 4075 | 4265 | 4455 | 4645 | 4835 | 5025 | 5216 | 5405 | 5595 | 5785 | 5975 | 6165 | 6365 | 6545 | 31 | 53 | 2337 |
| 174 | 54 | 3776 | 3965 | 4155 | 4345 | 4534 | 4724 | 4914 | 5103 | 5293 | 5483 | 5673 | 5863 | 6053 | 6243 | 6433 | 6623 | 6813 | 27 | 54 | 2070 |
| 177 | 55 | 2 4045 | 4235 | 4424 | 4614 | 4802 | 4993 | 5182 | 5372 | 5562 | 5751 | 5941 | 6131 | 6321 | 6510 | 6700 | 6890 | 7080 | 22 | 55 | 9 1802 |
| 181 | 56 | 4315 | 4504 | 4693 | 4883 | 5072 | 5262 | 5451 | 5641 | 3830 | 6020 | 6209 | 6399 | 6588 | 6778 | 6968 | 7158 | 7347 | 18 | 56 | 1534 |
| 184 | 57 | 4584 | 4774 | 4963 | 5152 | 5341 | 5530 | 5720 | 5902 | 6099 | 6288 | 6477 | 6667 | 6856 | 7046 | 7236 | 7425 | 7615 | 13 | 57 | 1267 |
| 187 | 58 | 4851 | 5043 | 5232 | 5421 | 5610 | 5799 | 5989 | 6178 | 6367 | 6556 | 6746 | 6935 | 7124 | 7314 | 7503 | 7693 | 7882 | 9 | 68 | 0999 |
| 190 | 52 | 5124 | 5313 | 6502 | 5691 | 3880 | 6069 | 6258 | 6447 | 6636 | 6825 | 7014 | 7203 | 7392 | 7582 | 7771 | 7960 | 8150 | 4 | 59 | 0731 |

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**Tabla X. Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg Auxiliar. | 67° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 67° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 1 2620 | 2818 | 3615 | 3213 | 3410 | 3608 | 3005 | 4003 | 4201 | 4398 | 4596 | 4794 | 4992 | 5189 | 5387 | 5585 | 5783 | 0 | 0′ | 0 9269 |
| 3 | 1 | 2886 | 3083 | 3280 | 3478 | 3675 | 3873 | 4070 | 4268 | 4465 | 4663 | 4860 | 5058 | 5256 | 5453 | 5651 | 5849 | 6047 | 4 | 1 | 9537 |
| 6 | 2 | 3151 | 3348 | 3546 | 3743 | 3946 | 4137 | 4335 | 4532 | 4730 | 1927 | 5124 | 5322 | 5519 | 5717 | 5915 | 6112 | 6310 | 9 | 2 | 9804 |
| 10 | 3 | 3417 | 3614 | 3811 | 4008 | 4205 | 4402 | 4590 | 4797 | 4994 | 5191 | 5389 | 5586 | 5783 | 5981 | 6178 | 6376 | 6573 | 13 | 3 | 1 0072 |
| 13 | 4 | 3682 | 3879 | 4076 | 4273 | 4470 | 4667 | 4864 | 5061 | 5258 | 5456 | 5653 | 5850 | 6047 | 6245 | 6442 | 6639 | 6837 | 18 | 4 | 0340 |
| 16 | 5 | 1 3948 | 4145 | 4342 | 4530 | 4735 | 4932 | 5129 | 5326 | 5523 | 5720 | 5917 | 6114 | 6311 | 6508 | 6706 | 6903 | 7100 | 22 | 5 | 1 0608 |
| 19 | 6 | 4214 | 4410 | 4607 | 4804 | 5000 | 5197 | 5394 | 5591 | 5788 | 5981 | 6181 | 6378 | 6575 | 6772 | 6969 | 7166 | 7364 | 27 | 6 | 0876 |
| 23 | 7 | 4479 | 4676 | 4072 | 5069 | 5266 | 5462 | 5659 | 5855 | 6053 | 6249 | 6446 | 6643 | 6839 | 7036 | 7233 | 7430 | 7627 | 31 | 7 | 1144 |
| 26 | 8 | 4745 | 4941 | 5138 | 5334 | 5531 | 5727 | 5924 | 6120 | 6317 | 6513 | 6710 | 6907 | 7103 | 7300 | 7497 | 7694 | 7891 | 36 | 8 | 1412 |
| 29 | 9 | 6011 | 3207 | 5403 | 5600 | 5796 | 5992 | 6189 | 6385 | 6581 | 6778 | 6975 | 7171 | 7368 | 7361 | 7761 | 7958 | 8154 | 40 | 9 | 1680 |
| 32 | 10 | 1 5277 | 5473 | 5669 | 5865 | 6061 | 6257 | 6454 | 6650 | 6816 | 7043 | 7239 | 7435 | 7632 | 7828 | 8025 | 8221 | 8418 | 45 | 10 | 1 1948 |
| 35 | 11 | 5542 | 5730 | 5934 | 6130 | 6326 | 6522 | 6719 | 6915 | 7111 | 7307 | 7503 | 7700 | 7896 | 8092 | 8289 | 8485 | 8682 | 49 | 11 | 2216 |
| 39 | 12 | 5808 | 6004 | 6200 | 6396 | 6592 | 6788 | 6984 | 7180 | 7376 | 7572 | 7768 | 7964 | 8160 | 8356 | 8553 | 8749 | 8945 | 54 | 12 | 2184 |
| 42 | 13 | 6074 | 6270 | 6466 | 6661 | 6857 | 7053 | 7249 | 7445 | 7640 | 7836 | 8032 | 8228 | 8424 | 8620 | 8817 | 9013 | 9209 | 58 | 13 | 2753 |
| 45 | 14 | 6340 | 6536 | 6731 | 6927 | 7122 | 7318 | 7514 | 7710 | 7905 | 8101 | 8297 | 8493 | 8689 | 8885 | 9081 | 9277 | 9473 | 63 | 14 | 3021 |
| 48 | 15 | 1 6606 | 6801 | 6997 | 7192 | 7388 | 7583 | 7779 | 7975 | 8170 | 8366 | 8561 | 8757 | 8953 | 9149 | 9345 | 9540 | 9736 | 67 | 15 | 1 3289 |
| 32 | 16 | 1 (2) 6872 | 7067 | 7263 | 7458 | 7653 | 7849 | 8044 | 8240 | 8435 | 8630 | 8826 | 9022 | 9217 | 9413 | 9609 | 9804 | 0000 | 72 | 16 | 3557 |
| 55 | 17 | 7138 | 7333 | 7528 | 7723 | 7919 | 8114 | 8309 | 8503 | 8700 | 8895 | 9091 | 9286 | 9482 | 9677 | 9873 | 0068 | 0263 | 76 | 17 | 3826 |
| 58 | 10 | 7404 | 7599 | 7794 | 7989 | 8184 | 8379 | 8574 | 8770 | 8965 | 9160 | 9355 | 9551 | 9746 | 9942 | 0137 | 0332 | 0528 | 81 | 18 | 4094 |
| 61 | 19 | 7670 | 7865 | 8060 | 8255 | 0150 | 8645 | 8840 | 9035 | 9230 | 9425 | 9620 | 9815 | 0011 | 0206 | 0401 | 0596 | 0792 | 85 | 19 | 4362 |
| 64 | 20 | 1 (2) 7936 | 8131 | 8326 | 8520 | 8715 | 8910 | 9105 | 9300 | 9495 | 9690 | 9885 | 0080 | 0275 | 0470 | 0665 | 0860 | 1056 | 90 | 20 | 1 4631 |
| 68 | 21 | 8202 | 8307 | 8591 | 8786 | 8981 | 9176 | 9370 | 9563 | 9760 | 9955 | 0150 | 0345 | 0539 | 0735 | 0929 | 1125 | 1320 | 94 | 21 | 4899 |
| 71 | 22 | 0468 | 8663 | 8857 | 9052 | 0246 | 9441 | 9636 | 9830 | 0025 | 0220 | 0414 | 0609 | 0804 | 0999 | 1194 | 1389 | 1584 | 99 | 22 | 5168 |
| 74 | 23 | 8735 | 8929 | 9123 | 9318 | 9512 | 9707 | 9901 | 0096 | 0290 | 0485 | 0679 | 0874 | 1069 | 1263 | 1458 | 1653 | 1848 | 103 | 23 | 5436 |
| 77 | 24 | 9001 | 9105 | 9389 | 9584 | 9778 | 9972 | 0166 | 0361 | 0555 | 0750 | 0944 | 1139 | 1333 | 1528 | 1722 | 1917 | 2112 | 108 | 24 | 5705 |
| 81 | 25 | 1 (2) 9267 | 9461 | 9655 | 9849 | 0044 | 0238 | 0432 | 0626 | 0820 | 1015 | 1209 | 1403 | 1598 | 1792 | 1987 | 2181 | 2376 | 112 | 25 | 1 5973 |
| 84 | 26 | 9533 | 9727 | 9921 | 0115 | 0309 | 0503 | 0597 | 0891 | 1086 | 1280 | 1474 | 1668 | 1863 | 2057 | 2251 | 2446 | 2640 | 117 | 26 | 6242 |
| 87 | 27 | 9800 | 9904 | 0187 | 0381 | 0575 | 0769 | 0963 | 1157 | 1351 | 1545 | 1739 | 1933 | 2127 | 2321 | 2516 | 2710 | 2904 | 121 | 27 | 6510 |
| 90 | 28 | 2 0066 | 0260 | 0453 | 0647 | 0811 | 1035 | 1228 | 1422 | 1616 | 1810 | 2004 | 2198 | 2392 | 2586 | 2780 | 2974 | 3168 | 125 | 28 | 6779 |
| 94 | 29 | 0333 | 0526 | 0720 | 0913 | 1107 | 1300 | 1494 | 1688 | 1881 | 2075 | 2269 | 2463 | 2657 | 2831 | 3045 | 3239 | 3432 | 130 | 29 | 7048 |
| 97 | 30 | 2 0599 | 0702 | 0986 | 1179 | 1373 | 1566 | 1760 | 1953 | 2147 | 2340 | 2534 | 2728 | 2921 | 3115 | 3309 | 3503 | 3697 | 134 | 30 | 1 7317 |
| 100 | 31 | 0865 | 1059 | 1252 | 1445 | 1639 | 1832 | 2025 | 2219 | 2412 | 2606 | 2799 | 2993 | 3186 | 3380 | 3574 | 4767 | 3961 | 139 | 31 | 7585 |
| 103 | 32 | 1132 | 1325 | 1518 | 1711 | 1905 | 2098 | 2291 | 2484 | 2678 | 2871 | 3064 | 3258 | 3451 | 3645 | 3838 | 1032 | 4225 | 143 | 32 | 7854 |
| 106 | 33 | 1398 | 1592 | 1784 | 1977 | 2171 | 2364 | 2557 | 2750 | 2943 | 3136 | 3330 | 3523 | 3716 | 3909 | 1103 | 4296 | 4490 | 148 | 33 | 8123 |
| 110 | 34 | 1665 | 1858 | 2031 | 2244 | 2437 | 2629 | 2822 | 3015 | 3208 | 3402 | 3595 | 3788 | 3981 | 4174 | 4367 | 4561 | 4734 | 152 | 34 | 8392 |
| 113 | 35 | 2 1932 | 2124 | 2317 | 2510 | 2703 | 2895 | 3088 | 3281 | 3474 | 3667 | 3860 | 4033 | 1246 | 4439 | 4632 | 4825 | 5018 | 157 | 35 | 1 8661 |
| 116 | 36 | 2198 | 2391 | 2583 | 2776 | 2969 | 3161 | 3354 | 3547 | 3740 | 3932 | 4125 | 1318 | 4511 | 4704 | 4897 | 5090 | 5283 | 161 | 36 | 8930 |
| 119 | 37 | 2465 | 2657 | 2850 | 3042 | 3235 | 3427 | 3620 | 3812 | 4005 | 4198 | 4391 | 1583 | 1776 | 4969 | 5162 | 5354 | 5547 | 166 | 37 | 9199 |
| 123 | 38 | 2731 | 2924 | 3116 | 3308 | 3501 | 3693 | 3886 | 4078 | 4271 | 4463 | 4656 | 4848 | 5041 | 5234 | 5426 | 5619 | 5812 | 170 | 38 | 9468 |
| 126 | 39 | 2998 | 3190 | 3382 | 3575 | 3767 | 3959 | 4152 | 4344 | 4536 | 4729 | 4921 | 5114 | 5306 | 5499 | 5691 | 5884 | 6076 | 175 | 39 | 9737 |
| 129 | 40 | 2 3265 | 3457 | 3649 | 3841 | 4033 | 4225 | 4418 | 4610 | 4802 | 4994 | 5187 | 5379 | 5571 | 5764 | 5956 | 6148 | 6341 | 179 | 40 | 2 0006 |
| 132 | 41 | 3532 | 3724 | 3916 | 4107 | 4299 | 4491 | 4684 | 4875 | 5068 | 5260 | 5452 | 5644 | 5836 | 6029 | 6221 | 6413 | 6606 | 184 | 41 | 0275 |
| 135 | 42 | 3798 | 3990 | 4182 | 4374 | 4566 | 4758 | 4950 | 5141 | 5333 | 5525 | 5717 | 5909 | 6102 | 6294 | 6486 | 6678 | 6870 | 188 | 42 | 0544 |
| 139 | 43 | 4065 | 4257 | 4449 | 4640 | 4832 | 5024 | 5216 | 5407 | 5599 | 5791 | 5983 | 6175 | 6367 | 6559 | 6751 | 6943 | 7135 | 193 | 43 | 0813 |
| 142 | 44 | 4332 | 4524 | 4715 | 4907 | 5098 | 5290 | 5482 | 5673 | 5865 | 6057 | 6248 | 6440 | 6632 | 6824 | 7016 | 7208 | 7400 | 197 | 44 | 1082 |
| 145 | 45 | 2 4599 | 4790 | 4982 | 5173 | 5365 | 5556 | 5748 | 5939 | 6131 | 6322 | 6514 | 6706 | 6897 | 7089 | 7281 | 7472 | 7664 | 202 | 45 | 2 1351 |
| 148 | 46 | 4066 | 5057 | 5248 | 5440 | 5631 | 3822 | 6014 | 6205 | 6397 | 6588 | 6780 | 6971 | 7162 | 7351 | 7546 | 7737 | 7929 | 206 | 46 | 1621 |
| 152 | 47 | 5133 | 5324 | 5513 | 5706 | 5897 | 6009 | 6280 | 6471 | 6662 | 6854 | 7045 | 7236 | 7428 | 7619 | 7811 | 8002 | 8194 | 211 | 47 | 1890 |
| 155 | 48 | 5400 | 5591 | 5782 | 5973 | 6164 | 6355 | 0546 | 6737 | 6928 | 7120 | 7311 | 7502 | 7693 | 7885 | 8076 | 8267 | 8459 | 215 | 48 | 2159 |
| 158 | 49 | 3667 | 5858 | 6049 | 6240 | 6130 | 6621 | 6812 | 7003 | 7194 | 7385 | 7576 | 7767 | 7959 | 8150 | 8341 | 8532 | 8723 | 220 | 49 | 2429 |
| 161 | 50 | 2 5934 | 6125 | 6315 | 6506 | 6697 | 6888 | 7079 | 7269 | 7460 | 7651 | 7842 | 8033 | 8224 | 8415 | 8606 | 8797 | 8988 | 224 | 50 | 2 2698 |
| 165 | 51 | 6201 | 6392 | 6582 | 6773 | 6963 | 7154 | 7345 | 7535 | 7726 | 7917 | 8108 | 8299 | 8490 | 8680 | 8871 | 9062 | 9253 | 229 | 31 | 2968 |
| 168 | 52 | 6468 | 6659 | 6849 | 7040 | 7230 | 7421 | 7611 | 7802 | 7992 | 8183 | 8374 | 8561 | 8755 | 8946 | 9137 | 9327 | 9518 | 233 | 62 | 3237 |
| 171 | 53 | 6736 | 6926 | 7116 | 7306 | 7497 | 7687 | 7877 | 8068 | 8258 | 8449 | 8639 | 8830 | 9020 | 9211 | 9402 | 9592 | 9783 | 238 | 53 | 3506 |
| 174 | 54 | 2 (3) 7003 | 7193 | 7383 | 7573 | 7763 | 7954 | 8144 | 8334 | 8524 | 8715 | 8905 | 9096 | 9286 | 9477 | 9667 | 9858 | 0048 | 242 | 54 | 3776 |
| 177 | 55 | 2 (3) 7270 | 7460 | 7650 | 7840 | 8030 | 8220 | 0410 | 8601 | 8791 | 8981 | 9171 | 9361 | 9552 | 9742 | 9932 | 0123 | 0313 | 247 | 55 | 2 4045 |
| 181 | 56 | 7537 | 7727 | 7917 | 8107 | 8297 | 8487 | 8677 | 8867 | 9057 | 9247 | 9437 | 9627 | 9817 | 0007 | 0198 | 0388 | 0578 | 251 | 56 | 4315 |
| 184 | 57 | 7804 | 7994 | 8184 | 8374 | 8563 | 8753 | 8943 | 9133 | 9323 | 9513 | 9703 | 9893 | 0083 | 0273 | 0463 | 0653 | 0843 | 256 | 57 | 4584 |
| 187 | 58 | 8072 | 8261 | 8451 | 8641 | 8830 | 9020 | 9210 | 9399 | 9589 | 9779 | 9969 | 0159 | 0349 | 0539 | 0729 | 0918 | 1109 | 260 | 58 | 4854 |
| 190 | 59 | 8339 | 8529 | 0718 | 8908 | 9097 | 9287 | 9476 | 9666 | 9855 | 0045 | 0235 | 0424 | 0614 | 0804 | 0994 | 1184 | 1374 | 264 | 59 | 5124 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 68° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 19' | 13' | 14' | 15' | 16' | Partes para segundos. | 68° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 2 | 5393 | 5582 | 5771 | 5960 | 6149 | 6337 | 6525 | 6715 | 6904 | 7093 | 7282 | 7471 | 7661 | 7850 | 8039 | 8228 | 8417 | 269 | 8' | 9 0463 |
| 3 | 1 | | 5663 | 5852 | 6040 | 6229 | 6418 | 6607 | 6795 | 6984 | 7173 | 7362 | 7551 | 7740 | 7929 | 8118 | 8307 | 8496 | 8685 | 264 | 1 | 0196 |
| 6 | 2 | | 5933 | 6121 | 6310 | 6498 | 6687 | 6876 | 7064 | 7253 | 7442 | 7630 | 7819 | 8008 | 8197 | 8386 | 8575 | 8763 | 8952 | 260 | 2 | 8 9928 |
| 9 | 3 | | 6203 | 6391 | 6579 | 6768 | 6956 | 7145 | 7333 | 7522 | 7710 | 7899 | 8088 | 8276 | 8165 | 8651 | 8842 | 9031 | 9220 | 256 | 3 | 9660 |
| 12 | 4 | | 6472 | 6661 | 6849 | 7037 | 7225 | 7414 | 7602 | 7791 | 7979 | 8168 | 8356 | 8544 | 8733 | 8922 | 9110 | 9299 | 9488 | 251 | 4 | 9392 |
| 15 | 6 | 2 | 6742 | 6930 | 7119 | 7307 | 7195 | 7683 | 7871 | 8059 | 8248 | 8436 | 8624 | 8813 | 9001 | 9190 | 9378 | 9567 | 9755 | 247 | 5 | 8 9124 |
| 19 | 6 | 2 (3) | 7012 | 7200 | 7388 | 7576 | 7764 | 7952 | 8140 | 8328 | 8517 | 8705 | 8893 | 9081 | 9269 | 9458 | 9646 | 9835 | 0023 | 242 | 6 | 8856 |
| 22 | 7 | | 7282 | 7470 | 7658 | 7846 | 8034 | 8221 | 8409 | 8597 | 8785 | 8973 | 9162 | 9350 | 9538 | 9726 | 9914 | 0102 | 0291 | 230 | 7 | 8588 |
| 25 | 8 | | 7552 | 7740 | 7927 | 8115 | 8303 | 8491 | 8679 | 8866 | 9054 | 9242 | 9430 | 9618 | 9805 | 2294 | 0182 | 0370 | 0558 | 233 | 8 | 8320 |
| 28 | 9 | | 7822 | 8010 | 8197 | 8385 | 8572 | 8760 | 8948 | 9135 | 9323 | 9511 | 9699 | 9887 | 0074 | 0262 | 0450 | 0638 | 0826 | 229 | 9 | 8052 |
| 31 | 10 | 2 (3) | 8092 | 8279 | 8467 | 8654 | 8842 | 9029 | 9217 | 9404 | 9592 | 9780 | 9967 | 0155 | 0343 | 0531 | 0718 | 0906 | 1094 | 224 | 10 | 8 7784 |
| 34 | 11 | | 8362 | 8549 | 8737 | 8924 | 9111 | 9299 | 9486 | 9673 | 9861 | 0049 | 0236 | 0124 | 0611 | 0799 | 0987 | 1174 | 1362 | 220 | 11 | 7516 |
| 37 | 19 | | 8632 | 8819 | 9006 | 9194 | 9381 | 9568 | 9755 | 9243 | 0130 | 0317 | 0505 | 0692 | 0880 | 1067 | 1255 | 1442 | 1630 | 215 | 12 | 7247 |
| 40 | 13 | | 8902 | 9089 | 9276 | 9163 | 9650 | 9837 | 0025 | 0212 | 0329 | 0586 | 0774 | 0961 | 1148 | 1336 | 1523 | 1710 | 1898 | 211 | 13 | 6979 |
| 43 | 14 | | 9172 | 9359 | 9546 | 9733 | 9920 | 0107 | 0294 | 0481 | 0668 | 0855 | 1042 | 1229 | 1417 | 1604 | 1791 | 1978 | 2166 | 206 | 14 | 6711 |
| 46 | 15 | 2 (3) | 9442 | 9629 | 9816 | 0003 | 0190 | 0376 | 0563 | 0750 | 0937 | 1124 | 1311 | 1498 | 1685 | 1872 | 2059 | 2246 | 2434 | 202 | 15 | 8 6443 |
| 49 | 16 | | 9713 | 9899 | 0086 | 0273 | 0459 | 0646 | 0833 | 1019 | 1206 | 1393 | 1580 | 1767 | 1954 | 2141 | 2328 | 2515 | 2702 | 197 | 16 | 6174 |
| 52 | 17 | | 9983 | 0169 | 0356 | 0512 | 0729 | 0915 | 1102 | 1289 | 1475 | 1662 | 1849 | 2035 | 2222 | 2409 | 2596 | 2783 | 2970 | 193 | 17 | 6906 |
| 56 | 18 | 3 | 0253 | 0440 | 0626 | 0812 | 0999 | 1185 | 1372 | 1558 | 1745 | 1931 | 2118 | 2304 | 2491 | 2678 | 2864 | 3051 | 3238 | 180 | 18 | 6638 |
| 59 | 19 | | 0523 | 0710 | 0896 | 1082 | 1268 | 1455 | 1641 | 1827 | 2014 | 2200 | 2387 | 2573 | 2760 | 2946 | 3133 | 3319 | 3506 | 184 | 19 | 6362 |
| 62 | 20 | 3 | 0794 | 0980 | 1166 | 1352 | 1538 | 1724 | 1910 | 2097 | 2283 | 2469 | 2656 | 2812 | 3028 | 3214 | 3401 | 3588 | 3774 | 179 | 20 | 8 5101 |
| 65 | 21 | | 1064 | 1250 | 1436 | 1622 | 1808 | 1994 | 2180 | 2366 | 2552 | 2738 | 2925 | 3111 | 3297 | 3483 | 3670 | 3856 | 4042 | 175 | 21 | 4832 |
| 68 | 22 | | 1334 | 1520 | 1706 | 1892 | 2078 | 2261 | 2450 | 2636 | 2821 | 3008 | 3194 | 3380 | 3566 | 3752 | 3938 | 4124 | 4310 | 170 | 22 | 4561 |
| 71 | 23 | | 1605 | 1791 | 1976 | 2162 | 2318 | 2533 | 2719 | 2905 | 3091 | 3277 | 3463 | 3649 | 3834 | 4021 | 4207 | 4393 | 4579 | 166 | 23 | 4995 |
| 74 | 24 | | 1875 | 2061 | 9246 | 2432 | 2618 | 2803 | 2989 | 3175 | 3360 | 3546 | 3732 | 3918 | 4103 | 4289 | 4475 | 4661 | 4847 | 161 | 24 | 4027 |
| 77 | 25 | 3 | 2146 | 2331 | 2517 | 2702 | 2888 | 3073 | 3958 | 3414 | 3630 | 3815 | 4001 | 4187 | 4379 | 1558 | 4744 | 4929 | 5115 | 157 | 25 | 8 3758 |
| 80 | 25 | | 2416 | 2602 | 2787 | 2972 | 3157 | 3343 | 3528 | 3714 | 3899 | 4084 | 4270 | 4456 | 4641 | 4827 | 5012 | 5198 | 5384 | 152 | 96 | 3490 |
| 83 | 27 | | 2687 | 2872 | 3057 | 3242 | 3427 | 3613 | 3798 | 3983 | 4168 | 4354 | 4539 | 4725 | 4910 | 5095 | 5281 | 5466 | 5652 | 148 | 27 | 3291 |
| 86 | 28 | | 2957 | 3149 | 3327 | 3512 | 3697 | 3883 | 4068 | 4253 | 4438 | 4623 | 4808 | 4991 | 5179 | 5364 | 5550 | 5735 | 5920 | 143 | 28 | 2952 |
| 89 | 29 | | 3228 | 3413 | 3598 | 3783 | 3968 | 4152 | 4337 | 4522 | 4707 | 4893 | 5078 | 5263 | 5448 | 5633 | 5818 | 6003 | 6189 | 139 | 29 | 2683 |
| 93 | 30 | 3 | 3499 | 3683 | 3868 | 4053 | 4238 | 4422 | 4607 | 4792 | 4977 | 5162 | 5347 | 5532 | 5717 | 5902 | 6087 | 6272 | 6457 | 134 | 30 | 8 2415 |
| 96 | 31 | | 3769 | 3954 | 4139 | 4323 | 4508 | 4692 | 4877 | 5062 | 5247 | 5431 | 5616 | 5801 | 5986 | 6171 | 6356 | 6541 | 6726 | 130 | 31 | 9146 |
| 99 | 32 | | 4040 | 4225 | 4409 | 4593 | 4778 | 4962 | 5147 | 5332 | 5516 | 5700 | 5885 | 6070 | 6255 | 6140 | 6624 | 6809 | 6994 | 125 | 39 | 1877 |
| 102 | 33 | | 4311 | 4495 | 4679 | 4864 | 5048 | 5232 | 5417 | 5601 | 5786 | 5970 | 6155 | 6339 | 6524 | 6709 | 6893 | 7078 | 7963 | 121 | 33 | 1608 |
| 105 | 34 | | 4589 | 4766 | 4950 | 5134 | 5318 | 5503 | 5687 | 5871 | 6055 | 6240 | 6424 | 6609 | 6793 | 6978 | 7162 | 7317 | 7531 | 117 | 34 | 1339 |
| 108 | 35 | 3 | 4852 | 5036 | 5220 | 5404 | 5589 | 5773 | 5957 | 6141 | 6325 | 6509 | 6694 | 6878 | 7062 | 7247 | 7431 | 7615 | 7800 | 112 | 35 | 8 1070 |
| 111 | 36 | | 5123 | 6307 | 5491 | 5675 | 5859 | 6043 | 6227 | 6111 | 6595 | 6779 | 6963 | 7147 | 7331 | 7516 | 7700 | 7884 | 8069 | 108 | 36 | 0801 |
| 114 | 37 | | 5394 | 5578 | 6762 | 5945 | 6129 | 6313 | 6497 | 6681 | 6865 | 7049 | 7233 | 7417 | 7601 | 7785 | 7969 | 8153 | 8337 | 103 | 37 | 0632 |
| 117 | 38 | | 5665 | 5849 | 6032 | 6216 | 6399 | 6583 | 6767 | 6951 | 7134 | 7318 | 7502 | 7686 | 7870 | 8054 | 8238 | 8422 | 8606 | 99 | 38 | 0263 |
| 120 | 39 | | 5936 | 6119 | 6303 | 6486 | 6670 | 6853 | 7037 | 7221 | 7401 | 7588 | 7772 | 7955 | 8139 | 8323 | 8507 | 8691 | 8875 | 94 | 39 | 7 9994 |
| 123 | 40 | 3 | 6207 | 6390 | 6573 | 6757 | 6940 | 7124 | 7307 | 7491 | 7674 | 7858 | 8041 | 8225 | 8108 | 8592 | 8776 | 8960 | 9143 | 90 | 40 | 7 9725 |
| 126 | 41 | | 6478 | 6861 | 6814 | 7027 | 7211 | 7394 | 7577 | 7761 | 7944 | 8197 | 8311 | 8494 | 8678 | 8861 | 9015 | 9228 | 9412 | 85 | 41 | 9456 |
| 130 | 42 | | 6749 | 6932 | 7115 | 7298 | 7481 | 7664 | 7847 | 8031 | 8214 | 8397 | 8580 | 8764 | 8917 | 9131 | 9311 | 9497 | 9681 | 81 | 42 | 9187 |
| 133 | 43 | | 7020 | 7203 | 7386 | 7569 | 7752 | 7935 | 8118 | 8301 | 8484 | 8667 | 8850 | 9033 | 9217 | 9400 | 9583 | 9766 | 9950 | 76 | 43 | 8918 |
| 136 | 44 | 3 (4) | 7991 | 7474 | 7656 | 7839 | 8022 | 8205 | 8388 | 8571 | 8751 | 8937 | 9120 | 9303 | 9486 | 9669 | 9852 | 0035 | 0219 | 72 | 44 | 8649 |
| 139 | 45 | 3 (4) | 7562 | 7745 | 7927 | 8110 | 8293 | 8475 | 8658 | 8841 | 9024 | 9207 | 9390 | 9572 | 9755 | 9938 | 0121 | 0304 | 0488 | 67 | 45 | 7 8379 |
| 142 | 46 | | 7833 | 8016 | 8198 | 8381 | 8563 | 8746 | 8928 | 9111 | 9294 | 9477 | 9659 | 9842 | 0025 | 0208 | 0391 | 0574 | 0756 | 63 | 45 | 8110 |
| 145 | 47 | | 8104 | 8287 | 8469 | 8651 | 8834 | 9016 | 9199 | 9381 | 9564 | 9746 | 9929 | 0112 | 0291 | 0477 | 0660 | 0843 | 1025 | 58 | 47 | 7841 |
| 148 | 48 | | 8375 | 8558 | 8740 | 8922 | 9104 | 9287 | 9469 | 9652 | 9834 | 0016 | 0199 | 0381 | 0564 | 0747 | 0929 | 1112 | 1294 | 54 | 48 | 7571 |
| 151 | 49 | | 8647 | 8829 | 9011 | 9193 | 9375 | 9567 | 9740 | 9922 | 0104 | 0286 | 0469 | 0651 | 0834 | 1016 | 1198 | 1381 | 1563 | 49 | 49 | 7302 |
| 154 | 50 | 3 (4) | 8918 | 9100 | 9289 | 9461 | 9646 | 9828 | 0010 | 0192 | 0371 | 0556 | 0739 | 0921 | 1103 | 1985 | 1468 | 1650 | 1833 | 45 | 50 | 7 7032 |
| 157 | 51 | | 9189 | 9371 | 9553 | 9735 | 9917 | 0098 | 0280 | 0462 | 0644 | 0826 | 1009 | 1191 | 1373 | 1555 | 1737 | 1919 | 2102 | 40 | 51 | 6763 |
| 160 | 52 | | 9460 | 9642 | 9824 | 0006 | 0187 | 0369 | 0551 | 0733 | 0915 | 1096 | 1278 | 1460 | 1642 | 1824 | 2007 | 2189 | 2371 | 36 | 62 | 6494 |
| 163 | 53 | | 9732 | 9913 | 0095 | 0276 | 0458 | 0640 | 0821 | 1004 | 1185 | 1367 | 1548 | 1730 | 1912 | 2094 | 9275 | 2458 | 2640 | 31 | 53 | 6224 |
| 167 | 64 | 4 | 0003 | 0185 | 0366 | 0547 | 0799 | 0910 | 1092 | 1274 | 1455 | 1637 | 1818 | 2000 | 2182 | 2364 | 2545 | 2727 | 2910 | 27 | 64 | 5955 |
| 170 | 55 | 4 | 0275 | 0456 | 0637 | 0818 | 1000 | 1181 | 1363 | 1544 | 1725 | 1907 | 2088 | 2270 | 2452 | 2633 | 2815 | 9997 | 3179 | 22 | 55 | 7 5685 |
| 173 | 56 | | 0546 | 0727 | 0908 | 1089 | 1271 | 1452 | 1633 | 1814 | 1996 | 2177 | 2359 | 2540 | 2721 | 2903 | 3084 | 3266 | 3448 | 18 | 56 | 5415 |
| 176 | 57 | | 0817 | 0998 | 1179 | 1360 | 1549 | 1723 | 1904 | 2085 | 2266 | 2447 | 2629 | 2810 | 2991 | 3173 | 3354 | 3535 | 3717 | 13 | 57 | 5146 |
| 179 | 58 | | 1089 | 1970 | 1451 | 1639 | 1812 | 1993 | 2174 | 2355 | 2537 | 2718 | 9899 | 3080 | 3261 | 3442 | 3621 | 3805 | 3986 | 9 | 58 | 4876 |
| 182 | 59 | | 1360 | 1541 | 1722 | 1903 | 2083 | 2264 | 2445 | 2626 | 2807 | 2988 | 3169 | 3350 | 3531 | 3712 | 3893 | 4074 | 4255 | 4 | 59 | 4607 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 68° | Argumento Auxiliar. | 17' | 18' | 19' | 26' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 68° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6' | 2 (3) | 6606 | 6796 | 8265 | 9174 | 9364 | 2553 | 6743 | 9932 | 0122 | 0311 | 0501 | 0690 | 0880 | 1070 | 1269 | 1449 | 1639 | 0 | 6' | 2 6393 |
| 3 | 1 | | 8874 | 9063 | 9952 | 9441 | 9631 | 9820 | 0009 | 0199 | 0388 | 0577 | 0767 | 0956 | 1146 | 1335 | 1525 | 1715 | 1904 | 5 | 1 | 5663 |
| 6 | 2 | | 9141 | 6330 | 9519 | 9708 | 9096 | 0087 | 0976 | 0465 | 0654 | 0844 | 1033 | 1222 | 1412 | 1601 | 1720 | 1980 | 2169 | 9 | 2 | 5933 |
| 2 | 3 | | 9409 | 6598 | 6707 | 2976 | 0165 | 0354 | 0543 | 0732 | 0921 | 1110 | 1299 | 1488 | 1677 | 1867 | 2056 | 2245 | 2435 | 14 | 3 | 6203 |
| 12 | 4 | | 6676 | 2865 | 0054 | 6243 | 0431 | 0620 | 0809 | 0998 | 1187 | 1376 | 1565 | 1754 | 1943 | 9132 | 2392 | 2511 | 9700 | 18 | 4 | 6472 |
| 15 | 6 | 2 (3) | 9944 | 0132 | 0321 | 6510 | 0690 | 0887 | 1076 | 1265 | 1454 | 1643 | 1831 | 2020 | 2209 | 9398 | 2587 | 2776 | 2965 | 23 | 5 | 2 6742 |
| 19 | 6 | 3 | 6211 | 0400 | 6588 | 0777 | 0966 | 1154 | 1343 | 1531 | 1720 | 1909 | 2098 | 9286 | 2475 | 9664 | 2853 | 3042 | 3231 | 27 | 6 | 7012 |
| 22 | 7 | | 0476 | 0667 | 0856 | 1044 | 1233 | 1421 | 1602 | 1798 | 1987 | 9175 | 2364 | 2552 | 2741 | 2930 | 3119 | 3307 | 3496 | 32 | 7 | 7282 |
| 25 | 8 | | 6747 | 0935 | 1123 | 1311 | 1500 | 1680 | 1876 | 9065 | 2253 | 2442 | 2630 | 2819 | 3007 | 3196 | 3384 | 3573 | 3762 | 36 | 6 | 7552 |
| 28 | 9 | | 1014 | 1202 | 1390 | 1676 | 1767 | 1955 | 2143 | 9331 | 2520 | 2708 | 2896 | 3085 | 3273 | 3462 | 3650 | 3839 | 4097 | 41 | 9 | 7892 |
| 31 | 16 | 3 | 1282 | 1470 | 1650 | 1816 | 2034 | 2222 | 2410 | 2598 | 2786 | 2974 | 3163 | 3351 | 3539 | 3727 | 3918 | 4104 | 4293 | 45 | 10 | 9 8092 |
| 34 | 11 | | 1650 | 1738 | 1995 | 2113 | 2301 | 2489 | 2677 | 9865 | 3053 | 3241 | 3429 | 3617 | 3805 | 3993 | 4182 | 4370 | 4558 | 50 | 11 | 8362 |
| 37 | 12 | | 1810 | 2006 | 2193 | 2380 | 2568 | 2756 | 2944 | 3132 | 3319 | 3508 | 3695 | 3883 | 4071 | 4259 | 4447 | 4636 | 4824 | 54 | 19 | 8639 |
| 40 | 13 | | 2085 | 2273 | 2460 | 2648 | 2835 | 3023 | 3211 | 3399 | 3586 | 3774 | 3969 | 4150 | 4338 | 4525 | 4713 | 4901 | 5089 | 59 | 13 | 8902 |
| 43 | 14 | | 2353 | 2540 | 2728 | 2915 | 3103 | 3290 | 3478 | 3665 | 3853 | 4041 | 4998 | 4416 | 4604 | 4791 | 4979 | 5187 | 5355 | 63 | 14 | 9173 |
| 46 | 16 | 3 | 2621 | 2800 | 2995 | 3183 | 3370 | 3557 | 3745 | 3932 | 4120 | 4307 | 4495 | 4689 | 4870 | 5050 | 5245 | 5433 | 5821 | 68 | 15 | 2 9443 |
| 49 | 16 | | 2889 | 3076 | 3263 | 3450 | 3637 | 3825 | 4019 | 4192 | 4387 | 4574 | 4761 | 4949 | 5136 | 5324 | 5511 | 5699 | 5886 | 72 | 16 | 9713 |
| 63 | 17 | | 3157 | 3344 | 3531 | 3718 | 3905 | 4092 | 4279 | 4486 | 4653 | 4841 | 5028 | 5215 | 5402 | 5590 | 5777 | 5965 | 6152 | 77 | 17 | 9983 |
| 66 | 16 | | 3425 | 3611 | 3798 | 3985 | 4172 | 4359 | 4546 | 4733 | 4920 | 5107 | 5294 | 5482 | 5669 | 5856 | 6043 | 6230 | 6418 | 81 | 18 | 3 0253 |
| 69 | 16 | | 3693 | 3879 | 4066 | 4263 | 4440 | 4696 | 4813 | 5000 | 5187 | 5374 | 5561 | 5748 | 5935 | 6122 | 6309 | 6496 | 8684 | 86 | 19 | 0524 |
| 62 | 20 | 3 | 3261 | 4147 | 4334 | 4520 | 4707 | 4894 | 5080 | 5967 | 5454 | 5641 | 5828 | 6014 | 6901 | 6388 | 6576 | 6762 | 6949 | 90 | 20 | 3 0794 |
| 65 | 21 | | 4229 | 4415 | 4602 | 4788 | 4975 | 5161 | 5348 | 5534 | 5791 | 5908 | 6094 | 6281 | 6468 | 6655 | 6841 | 7028 | 7215 | 95 | 21 | 1064 |
| 68 | 22 | | 4497 | 4683 | 4869 | 5056 | 5249 | 5428 | 5615 | 5801 | 5988 | 6174 | 6361 | 6548 | 6734 | 6921 | 7108 | 7294 | 7481 | 99 | 22 | 1335 |
| 71 | 23 | | 4765 | 4951 | 5137 | 5323 | 5510 | 5696 | 5882 | 6069 | 6255 | 6441 | 6628 | 6814 | 7001 | 7187 | 7374 | 7560 | 7747 | 104 | 23 | 1605 |
| 74 | 24 | | 5033 | 5919 | 5406 | 5591 | 5777 | 5963 | 6150 | 6336 | 6592 | 6708 | 6895 | 7081 | 7267 | 7454 | 7640 | 7826 | 8013 | 108 | 24 | 1875 |
| 77 | 26 | 3 | 5301 | 5487 | 5673 | 5856 | 6045 | 6931 | 6417 | 6603 | 6789 | 6975 | 7161 | 7347 | 7534 | 7720 | 7906 | 8093 | 8279 | 113 | 25 | 3 2146 |
| 00 | 26 | | 5569 | 5755 | 5941 | 6127 | 6312 | 6498 | 6684 | 6870 | 7056 | 7949 | 7428 | 7614 | 7800 | 7286 | 0173 | 8359 | 8545 | 117 | 26 | 2416 |
| 83 | 27 | | 5838 | 6023 | 6209 | 6394 | 6580 | 6766 | 6952 | 7137 | 7323 | 7509 | 7695 | 7881 | 8067 | 8253 | 0439 | 8625 | 8810 | 129 | 27 | 2687 |
| 87 | 28 | | 6106 | 6291 | 6477 | 6662 | 6048 | 7033 | 7219 | 7405 | 7690 | 7776 | 7962 | 8148 | 0333 | 8519 | 8705 | 8891 | 9077 | 126 | 28 | 2958 |
| 90 | 29 | | 6374 | 6559 | 6745 | 8930 | 7116 | 7301 | 7486 | 7672 | 7058 | 8043 | 8299 | 8414 | 8600 | 8786 | 8971 | 9157 | 9343 | 131 | 29 | 3228 |
| 63 | 30 | 3 | 6642 | 6828 | 7013 | 7198 | 7383 | 7569 | 7754 | 7239 | 8125 | 8310 | 8496 | 8681 | 8867 | 9052 | 9238 | 9423 | 9609 | 135 | 30 | 3 3499 |
| 96 | 31 | | 6911 | 7696 | 7201 | 7466 | 7651 | 7836 | 8022 | 8207 | 8399 | 8577 | 8763 | 8948 | 9133 | 9319 | 9504 | 9690 | 9875 | 140 | 31 | 3769 |
| 99 | 32 | 3 (4) | 7179 | 7364 | 7549 | 7734 | 7919 | 8104 | 8289 | 8474 | 8659 | 8844 | 9030 | 9215 | 9400 | 9585 | 9771 | 9956 | 0141 | 144 | 32 | 4040 |
| 102 | 33 | | 7447 | 7632 | 7817 | 8002 | 0187 | 8372 | 8557 | 8742 | 8927 | 9112 | 9297 | 9482 | 9667 | 6052 | 0037 | 0222 | 0408 | 149 | 33 | 4311 |
| 165 | 34 | | 7716 | 7601 | 8685 | 0270 | 8455 | 0636 | 8824 | 9009 | 9194 | 9379 | 9564 | 9749 | 9934 | 0119 | 0304 | 0489 | 0874 | 153 | 34 | 4582 |
| 108 | 35 | 3 (4) | 7984 | 8169 | 8353 | 8530 | 8723 | 8907 | 9092 | 9277 | 9461 | 9646 | 9831 | 0016 | 0200 | 0385 | 0570 | 0755 | 0940 | 158 | 35 | 3 4859 |
| 111 | 36 | | 0253 | 8437 | 8692 | 8006 | 8991 | 2175 | 9360 | 9544 | 9799 | 9913 | 0098 | 0283 | 0467 | 0652 | 0837 | 1099 | 1207 | 189 | 36 | 6123 |
| 114 | 37 | | 8591 | 0706 | 8860 | 9074 | 9259 | 9443 | 9627 | 9812 | 9996 | 0181 | 0365 | 0550 | 0734 | 0919 | 1103 | 1288 | 1473 | 167 | 37 | 5394 |
| 118 | 30 | | 6790 | 8974 | 9158 | 9342 | 9527 | 9711 | 9895 | 0079 | 0264 | 0448 | 0632 | 0817 | 1001 | 1186 | 1376 | 1555 | 1739 | 171 | 38 | 5665 |
| 121 | 39 | | 9050 | 9943 | 9427 | 9610 | 9795 | 9979 | 6163 | 0347 | 0531 | 0715 | 0900 | 1004 | 1268 | 1452 | 1637 | 1821 | 2006 | 176 | 39 | 5936 |
| 124 | 40 | 3 (4) | 9327 | 9511 | 9695 | 9879 | 0063 | 0247 | 0431 | 0815 | 0799 | 0983 | 1167 | 1351 | 1535 | 1719 | 1904 | 2088 | 2272 | 180 | 40 | 3 6207 |
| 127 | 41 | | 9526 | 9779 | 9963 | 0147 | 0331 | 0516 | 0698 | 0882 | 1066 | 1256 | 1434 | 1610 | 1802 | 1906 | 2170 | 2354 | 2538 | 185 | 41 | 6478 |
| 130 | 42 | | 9864 | 0048 | 0232 | 0415 | 0599 | 6783 | 6966 | 1150 | 1334 | 1518 | 1701 | 1885 | 2069 | 2253 | 2437 | 9621 | 2805 | 189 | 42 | 6749 |
| 133 | 43 | 4 | 0133 | 0317 | 0500 | 0683 | 0867 | 1051 | 1234 | 1418 | 1601 | 1785 | 1969 | 2152 | 2336 | 2520 | 2704 | 2888 | 3672 | 194 | 43 | 7026 |
| 136 | 44 | | 6402 | 0585 | 0768 | 0252 | 1136 | 1319 | 1502 | 1686 | 1869 | 2053 | 2236 | 2420 | 2663 | 2787 | 2971 | 3154 | 3338 | 198 | 44 | 7291 |
| 139 | 45 | 4 | 6671 | 0854 | 1037 | 1290 | 1403 | 1587 | 1770 | 1953 | 2137 | 2320 | 2503 | 2687 | 2876 | 3054 | 3937 | 3421 | 3605 | 203 | 45 | 3 7562 |
| 142 | 46 | | 6939 | 1122 | 1305 | 1489 | 1672 | 1855 | 2030 | 2221 | 2404 | 2588 | 2771 | 2964 | 3138 | 3321 | 3564 | 3688 | 3871 | 207 | 46 | 7833 |
| 145 | 47 | | 1200 | 1391 | 1574 | 1767 | 1940 | 2123 | 2306 | 9489 | 2672 | 2855 | 3030 | 3221 | 3466 | 3588 | 3771 | 3954 | 4138 | 212 | 47 | 0104 |
| 148 | 40 | | 1477 | 1660 | 1843 | 2025 | 2206 | 2391 | 2574 | 2767 | 2240 | 3123 | 3306 | 3489 | 3872 | 3855 | 4038 | 4221 | 4404 | 216 | 48 | 6375 |
| 151 | 46 | | 1746 | 1926 | 2111 | 2224 | 2477 | 2659 | 2842 | 3025 | 3208 | 3390 | 3573 | 3756 | 3939 | 4122 | 4305 | 4488 | 4671 | 221 | 49 | 8647 |
| 155 | 50 | 4 | 2015 | 2197 | 2380 | 2562 | 2745 | 2928 | 3116 | 3293 | 3476 | 3658 | 3841 | 4024 | 4206 | 4389 | 4572 | 4765 | 4938 | 225 | 50 | 3 0910 |
| 150 | 51 | | 2984 | 2466 | 2649 | 2031 | 3013 | 3196 | 3378 | 3561 | 3743 | 3926 | 4109 | 4991 | 4474 | 4656 | 4839 | 5029 | 5205 | 230 | 51 | 9189 |
| 161 | 52 | | 2563 | 2736 | 2917 | 3100 | 3282 | 3464 | 3646 | 3899 | 4011 | 4194 | 4376 | 4559 | 4741 | 4924 | 5106 | 5289 | 5471 | 234 | 62 | 9460 |
| 164 | 63 | | 2822 | 3004 | 3186 | 3360 | 3550 | 3732 | 3916 | 4097 | 4279 | 4461 | 4644 | 4826 | 5008 | 5121 | 5373 | 5556 | 6738 | 239 | 53 | 9732 |
| 167 | 54 | | 3091 | 3973 | 3455 | 3637 | 3819 | 4001 | 4183 | 4365 | 4547 | 4729 | 4911 | 5094 | 5276 | 5458 | 5640 | 5823 | 6005 | 943 | 54 | 4 0003 |
| 170 | 66 | 4 | 3360 | 3542 | 3724 | 3206 | 4007 | 4269 | 4461 | 4633 | 4815 | 4997 | 5179 | 5361 | 5543 | 5725 | 5908 | 6090 | 6272 | 248 | 55 | 4 0275 |
| 173 | 56 | | 3629 | 3811 | 3992 | 4174 | 4366 | 4530 | 4719 | 4901 | 5683 | 5265 | 5447 | 5629 | 5011 | 6293 | 6175 | 6357 | 6639 | 252 | 66 | 0546 |
| 176 | 57 | | 3890 | 4060 | 4261 | 4443 | 4624 | 4806 | 4988 | 5169 | 5361 | 5533 | 5716 | 5896 | 6078 | 6260 | 6442 | 6624 | 6806 | 257 | 57 | 0817 |
| 179 | 50 | | 4167 | 4349 | 4530 | 4712 | 4893 | 5075 | 5256 | 5438 | 5619 | 5801 | 5982 | 6164 | 6346 | 6527 | 6709 | 6891 | 7073 | 261 | 60 | 1089 |
| 182 | 69 | | 4437 | 4618 | 4799 | 4980 | 5162 | 5343 | 5524 | 5766 | 5807 | 6069 | 6250 | 6432 | 6613 | 6795 | 6976 | 7150 | 7340 | 266 | 69 | 1380 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 69° | | Argumento Auxiliar. 0' | 1' | 9' | 3' | 4' | 3' | 6' | 7' | 8' | 9' | 12' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 69° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 1630 | 1813 | 1993 | 2174 | 2354 | 2535 | 0716 | 2897 | 3077 | 3068 | 3436 | 3600 | 3801 | 3200 | 4163 | 4344 | 4625 | 978 | 0' | 7 4337 |
| 3 | 1 | | 1601 | 0084 | 2064 | 0445 | 2605 | 2806 | 2987 | 3167 | 3348 | 3529 | 3709 | 3820 | 4071 | 4250 | 4430 | 4613 | 4794 | 966 | 1 | 4067 |
| 6 | 2 | | 0175 | 2355 | 2636 | 9716 | 2807 | 3077 | 3257 | 3438 | 3618 | 3799 | 3080 | 4160 | 4341 | 4521 | 4702 | 4883 | 5064 | 961 | 9 | 3797 |
| 9 | 3 | | 2447 | 2607 | 2807 | 2987 | 3168 | 3348 | 3528 | 3709 | 3889 | 4069 | 4050 | 1430 | 4511 | 4701 | 1970 | 5150 | 5333 | 257 | 3 | 3506 |
| 12 | 4 | | 0718 | 2890 | 3079 | 3059 | 3430 | 3610 | 3799 | 3070 | 4160 | 4340 | 4500 | 4700 | 4881 | 5061 | 5942 | 5400 | 6603 | 262 | 4 | 3256 |
| 15 | 5 | 4 | 2990 | 3170 | 3350 | 3530 | 3710 | 3890 | 4070 | 1250 | 4430 | 4610 | 4700 | 4071 | 5131 | 5331 | 6511 | 5602 | 5872 | 240 | 5 | 7 2988 |
| 18 | 6 | | 3062 | 3442 | 3621 | 3861 | 3981 | 4161 | 4341 | 4521 | 4701 | 4880 | 5061 | 5211 | 5421 | 5601 | 5781 | 5961 | 6142 | 243 | 6 | 2718 |
| 21 | 7 | | 3534 | 3713 | 3892 | 4073 | 4252 | 4432 | 4612 | 1702 | 4671 | 5151 | 5331 | 5511 | 5621 | 5071 | 5051 | 6231 | 6411 | 232 | 7 | 9448 |
| 24 | 8 | | 3806 | 3985 | 4165 | 4344 | 4524 | 1703 | 4883 | 5062 | 5242 | 5420 | 5600 | 5781 | 5061 | 6141 | 6301 | 6201 | 6681 | 234 | 8 | 2178 |
| 26 | 9 | | 4077 | 4057 | 4436 | 4615 | 4795 | 4974 | 5154 | 5333 | 5513 | 5693 | 5870 | 6052 | 5231 | 6411 | 6521 | 6771 | 6950 | 230 | 9 | 1980 |
| 29 | 10 | 4 | 4340 | 4528 | 4708 | 4887 | 5066 | 5245 | 5425 | 5604 | 5784 | 5963 | 5143 | 6302 | 6502 | 6681 | 6861 | 7040 | 7220 | 226 | 10 | 7 1638 |
| 32 | 11 | | 4601 | 4800 | 4672 | 5158 | 5337 | 5517 | 5696 | 5875 | 6054 | 6234 | 5413 | 6560 | 6772 | 6251 | 7131 | 7310 | 7490 | 201 | 11 | 1368 |
| 35 | 12 | | 4803 | 5072 | 5251 | 5430 | 5609 | 5788 | 5667 | 6146 | 6325 | 6504 | 6684 | 6863 | 7042 | 7221 | 7401 | 7386 | 7752 | 216 | 12 | 1098 |
| 38 | 13 | | 5165 | 5341 | 5503 | 5701 | 5880 | 6050 | 6238 | 6417 | 6696 | 6775 | 6054 | 7133 | 7312 | 7461 | 7671 | 7850 | 8020 | 210 | 13 | 0828 |
| 41 | 14 | | 5437 | 6616 | 5764 | 5673 | 6150 | 6330 | 6209 | 6688 | 6867 | 7046 | 7225 | 7404 | 7583 | 7760 | 7941 | 8190 | 8292 | 907 | 14 | 0557 |
| 44 | 15 | 4 | 5709 | 5887 | 6066 | 5045 | 6403 | 6602 | 6780 | 6950 | 7138 | 7317 | 7495 | 7674 | 7853 | 8032 | 8011 | 8390 | 8560 | 908 | 15 | 7 0287 |
| 47 | 16 | | 6981 | 6156 | 6338 | 6516 | 6695 | 6873 | 7050 | 7930 | 7409 | 7587 | 7766 | 7245 | 8103 | 8302 | 8481 | 8660 | 8839 | 190 | 16 | 6017 |
| 50 | 17 | | 6263 | 6431 | 6609 | 6788 | 6066 | 7144 | 7323 | 7501 | 7688 | 7858 | 0037 | 8216 | 8394 | 8572 | 8751 | 8230 | 0108 | 194 | 17 | 6 9747 |
| 53 | 18 | | 6525 | 6703 | 6881 | 7059 | 7238 | 7416 | 7524 | 7773 | 7651 | 8120 | 0308 | 8485 | 8564 | 8843 | 9001 | 6200 | 0378 | 186 | 18 | 9476 |
| 36 | 19 | | 6797 | 6975 | 7153 | 7331 | 7509 | 7687 | 7866 | 8044 | 8200 | 8400 | 8576 | 8767 | 8235 | 0113 | 6291 | 6470 | 9648 | 182 | 19 | 9206 |
| 30 | 20 | 4 | 7069 | 7247 | 7425 | 7603 | 7781 | 7659 | 8137 | 8315 | 8493 | 8671 | 8849 | 0027 | 9205 | 9383 | 9569 | 0740 | 9918 | 180 | 20 | 6 8936 |
| 62 | 01 | 4 (6) | 7340 | 7512 | 7697 | 7875 | 8053 | 8030 | 8408 | 8586 | 8764 | 8940 | 0100 | 6268 | 9476 | 9634 | 2832 | 0010 | 0108 | 176 | 21 | 8663 |
| 65 | 20 | | 7614 | 7791 | 7060 | 8147 | 8324 | 8502 | 8580 | 8857 | 9035 | 9013 | 0391 | 2569 | 9746 | 9924 | 0100 | 0280 | 0428 | 171 | 22 | 0392 |
| 68 | 23 | | 7886 | 8063 | 8041 | 8418 | 8596 | 8773 | 8251 | 2129 | 9306 | 9484 | 9662 | 0839 | 0017 | 0195 | 6373 | 0560 | 0728 | 167 | 23 | 2123 |
| 71 | 24 | | 8138 | 8336 | 8513 | 8600 | 8868 | 9045 | 9222 | 9400 | 9577 | 0755 | 9932 | 8110 | 0288 | 0465 | 0643 | 0891 | 0298 | 162 | 04 | 7854 |
| 74 | 03 | 4 (3) | 8431 | 8608 | 8785 | 8962 | 0139 | 9317 | 0494 | 9671 | 9849 | 0026 | 0203 | 0381 | 0558 | 0736 | 0913 | 1001 | 1060 | 168 | 25 | 6 7584 |
| 76 | 96 | | 8703 | 8860 | 9057 | 9234 | 0411 | 0588 | 9765 | 9043 | 0100 | 0227 | 0474 | 0650 | 0820 | 1006 | 1184 | 1361 | 1639 | 153 | 26 | 7313 |
| 79 | 07 | | 8075 | 0152 | 0329 | 9506 | 0683 | 2860 | 0037 | 0014 | 0391 | 0568 | 0743 | 0292 | 1100 | 1077 | 1464 | 1631 | 1809 | 149 | 27 | 7042 |
| 82 | 28 | | 9048 | 2424 | 9601 | 0778 | 9955 | 0139 | 0300 | 0485 | 0662 | 0830 | 1016 | 1103 | 1370 | 1540 | 1725 | 1902 | 2079 | 144 | 28 | 6772 |
| 85 | 99 | | 9520 | 9697 | 9873 | 0050 | 0227 | 0403 | 0580 | 0757 | 0634 | 1111 | 1087 | 1464 | 1641 | 1018 | 1225 | 2179 | 0240 | 142 | 29 | 6201 |
| 08 | 30 | 4 (6) | 9703 | 0969 | 0145 | 0322 | 0490 | 0676 | 0852 | 1028 | 1206 | 1382 | 1659 | 1736 | 1610 | 2089 | 2266 | 2443 | 0610 | 132 | 30 | 6 6031 |
| 91 | 31 | 6 | 0065 | 0041 | 0418 | 0594 | 0771 | 0947 | 1123 | 1300 | 1476 | 1653 | 1830 | 0006 | 0163 | 2360 | 0536 | 2713 | 2890 | 131 | 31 | 6966 |
| 94 | 32 | | 0338 | 0514 | 0690 | 0066 | 1043 | 1019 | 1395 | 1571 | 1748 | 1924 | 2161 | 0277 | 2424 | 2630 | 0807 | 0983 | 3160 | 126 | 32 | 5689 |
| 97 | 33 | | 0510 | 0786 | 0960 | 1130 | 1316 | 1491 | 1667 | 1843 | 0619 | 0196 | 2372 | 2548 | 0705 | 2901 | 3077 | 3264 | 3420 | 122 | 33 | 5418 |
| 100 | 34 | | 6883 | 1056 | 1235 | 1411 | 1587 | 1762 | 1630 | 2115 | 9221 | 0467 | 2643 | 0616 | 0995 | 3172 | 3348 | 3504 | 3701 | 117 | 34 | 3148 |
| 103 | 35 | 6 | 1155 | 1331 | 1507 | 1683 | 1859 | 9034 | 0210 | 2386 | 0569 | 2738 | 2914 | 3660 | 3267 | 3442 | 3610 | 3706 | 3971 | 113 | 35 | 6 4077 |
| 106 | 36 | | 1428 | 1604 | 1779 | 1655 | 2131 | 9306 | 2489 | 2658 | 0834 | 3010 | 3186 | 3360 | 3538 | 3714 | 3890 | 4066 | 4242 | 188 | 36 | 4600 |
| 100 | 37 | | 1701 | 1876 | 2052 | 0227 | 9403 | 0578 | 2751 | 2930 | 3185 | 3081 | 3457 | 3633 | 3602 | 3084 | 4160 | 4336 | 4512 | 104 | 37 | 4335 |
| 112 | 30 | | 1673 | 0149 | 2324 | 2499 | 2675 | 2850 | 3026 | 3201 | 3377 | 3552 | 3708 | 3004 | 4080 | 4253 | 4431 | 4607 | 4783 | 99 | 38 | 4064 |
| 116 | 39 | | 2246 | 2401 | 2566 | 2772 | 2947 | 3120 | 3298 | 3473 | 3646 | 3824 | 4000 | 4175 | 4331 | 4506 | 4702 | 4877 | 3053 | 96 | 39 | 3793 |
| 116 | 40 | 6 | 2619 | 2694 | 2869 | 3044 | 3219 | 3394 | 3570 | 3745 | 3920 | 4096 | 4971 | 1446 | 4620 | 4727 | 4973 | 6148 | 5394 | 90 | 40 | 6 3522 |
| 191 | 41 | | 2792 | 2966 | 3141 | 3316 | 3461 | 3667 | 3842 | 4017 | 4162 | 4367 | 4540 | 4718 | 4093 | 3268 | 5043 | 5419 | 3504 | 06 | 41 | 3031 |
| 124 | 49 | | 3064 | 3239 | 3414 | 3588 | 3764 | 3039 | 4114 | 4289 | 4464 | 4639 | 4814 | 4989 | 5164 | 5339 | 5514 | 5690 | 5865 | 81 | 42 | 2980 |
| 196 | 43 | | 3337 | 3510 | 3687 | 3861 | 4636 | 4211 | 4386 | 4561 | 4735 | 4018 | 5086 | 5260 | 5436 | 5610 | 5785 | 3960 | 6135 | 77 | 43 | 2706 |
| 129 | 44 | | 3610 | 3785 | 3956 | 4134 | 4300 | 4483 | 4658 | 4830 | 5007 | 5182 | 5337 | 5330 | 5706 | 5881 | 6066 | 6231 | 6406 | 79 | 44 | 9438 |
| 130 | 45 | 5 | 3803 | 4057 | 4032 | 4406 | 4581 | 4755 | 4630 | 6104 | 5270 | 5454 | 3608 | 5003 | 6978 | 6152 | 5307 | 6502 | 6677 | 68 | 45 | 6 2167 |
| 133 | 46 | | 4156 | 4330 | 4504 | 4679 | 4863 | 5007 | 5000 | 5276 | 5561 | 5723 | 5900 | 5074 | 6042 | 6403 | 6568 | 6773 | 6948 | 63 | 46 | 1892 |
| 138 | 47 | | 4429 | 4603 | 4777 | 4961 | 5125 | 5300 | 5474 | 5648 | 5823 | 5997 | 6171 | 6346 | 6520 | 6693 | 6866 | 7844 | 7218 | 59 | 47 | 1626 |
| 141 | 40 | | 4702 | 4676 | 5050 | 6224 | 5398 | 5572 | 5746 | 5920 | 6094 | 6069 | 6443 | 6617 | 6790 | 6266 | 7140 | 7315 | 7489 | 34 | 46 | 1353 |
| 144 | 49 | | 4973 | 3142 | 5323 | 3496 | 3670 | 5844 | 6618 | 6190 | 6366 | 6540 | 6713 | 6689 | 7263 | 7937 | 7411 | 7386 | 7760 | 66 | 49 | 1089 |
| 147 | 60 | 6 | 6246 | 5422 | 5596 | 3769 | 5943 | 6117 | 6290 | 6464 | 6638 | 6812 | 6066 | 7160 | 7334 | 7508 | 7682 | 7837 | 8031 | 43 | 60 | 6 6811 |
| 156 | 61 | | 6521 | 5603 | 5862 | 6042 | 6215 | 6389 | 6363 | 6736 | 6916 | 7084 | 7258 | 7432 | 7666 | 7780 | 7234 | 8126 | 8362 | 41 | 61 | 0540 |
| 133 | 32 | | 6794 | 5967 | 6141 | 6314 | 6488 | 6661 | 6836 | 7009 | 7182 | 7336 | 7530 | 7703 | 7877 | 2231 | 0225 | 6399 | 8572 | 36 | 32 | 0266 |
| 136 | 63 | | 6067 | 6240 | 6414 | 6607 | 6761 | 6934 | 7167 | 7281 | 7464 | 7628 | 7661 | 7975 | 8149 | 8322 | 8496 | 8672 | 8843 | 32 | 53 | 5 9997 |
| 136 | 54 | | 6346 | 6513 | 6687 | 6862 | 7633 | 7226 | 7382 | 7563 | 7726 | 7206 | 6273 | 6247 | 8400 | 8594 | 8767 | 0941 | 9114 | 27 | 54 | 9726 |
| 162 | 55 | 6 | 6612 | 6706 | 6960 | 7133 | 7306 | 7470 | 7652 | 7025 | 7660 | 0172 | 6343 | 8316 | 0692 | 2065 | 9030 | 9212 | 938[illegible] | 23 | 55 | 5 9454 |
| 165 | 56 | | 6887 | 7060 | 7232 | 7465 | 7678 | 7751 | 7924 | 8098 | 0271 | 6444 | 8617 | 6766 | 8963 | 9136 | 9316 | 9403 | 96[illegible] | 18 | 56 | 9183 |
| 168 | 67 | | 7160 | 7333 | 7503 | 7678 | 7851 | 6224 | 0127 | 8370 | 6543 | 8716 | 8889 | 2262 | 9233 | 9428 | 9501 | 6734 | 3927 | 14 | 57 | 8911 |
| 171 | 58 | 6 (6) | 7433 | 7606 | 7770 | 7961 | 8124 | 8207 | 0466 | 0642 | 8815 | 2266 | 9161 | 9333 | 2506 | 967[illegible] | 9852 | 0025 | 01[illegible] | 9 | 58 | 0640 |
| 174 | 59 | | 7726 | 7079 | 2661 | 8924 | 8327 | 8509 | 8740 | 8914 | 6007 | 9260 | 9433 | 9605 | 6770 | 9931 | 0194 | 0297 | 047[illegible] | 6 | 69 | 8368 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 69° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 69° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 4 | 4706 | 4887 | 6060 | 5242 | 5430 | 5612 | 5723 | 5974 | 6155 | 6337 | 6318 | 6699 | 6881 | 7062 | 7244 | 7423 | 7607 | 0 | 0′ | 4 1632 |
| 3 | 1 | | 4975 | 3156 | 5337 | 5518 | 6699 | 5880 | 6061 | 6242 | 6424 | 6605 | 6786 | 6967 | 7148 | 7330 | 7511 | 7692 | 7874 | 5 | 1 | 1904 |
| 6 | 2 | | 6244 | 5425 | 5606 | 5787 | 5968 | 6149 | 6330 | 6611 | 6692 | 6873 | 7054 | 7235 | 7416 | 7597 | 7778 | 7960 | 8141 | 9 | 2 | 2175 |
| 9 | 3 | | 5614 | 5694 | 5875 | 6056 | 6237 | 6417 | 6598 | 6779 | 6960 | 7141 | 7322 | 7503 | 7684 | 7865 | 8046 | 8227 | 8408 | 14 | 3 | 2447 |
| 12 | 4 | | 6783 | 6964 | 6144 | 6325 | 6305 | 6686 | 6867 | 7047 | 7228 | 7409 | 7690 | 7771 | 7951 | 8132 | 8313 | 8494 | 8675 | 18 | 4 | 2719 |
| 15 | 5 | 4 | 6062 | 6233 | 6413 | 6594 | 6774 | 6955 | 7135 | 7316 | 7496 | 7677 | 7858 | 8038 | 8219 | 8400 | 8581 | 8762 | 8942 | 23 | 5 | 4 2990 |
| 18 | 6 | | 6322 | 6602 | 6682 | 6863 | 7043 | 7223 | 7404 | 7584 | 7765 | 7945 | 8126 | 8306 | 8487 | 8668 | 8848 | 9029 | 9210 | 27 | 6 | 3262 |
| 21 | 7 | | 6591 | 6771 | 6952 | 7132 | 7312 | 7492 | 7672 | 7853 | 8033 | 8213 | 8394 | 8574 | 8755 | 8933 | 9116 | 9296 | 9477 | 32 | 7 | 3534 |
| 24 | 6 | | 6861 | 7041 | 7221 | 7401 | 7601 | 7761 | 7941 | 8121 | 8301 | 8482 | 8662 | 8842 | 9023 | 9203 | 9383 | 9564 | 9744 | 36 | 8 | 3806 |
| 27 | 9 | 4 (6) | 7130 | 7310 | 7490 | 7670 | 7850 | 8030 | 8210 | 8390 | 8570 | 8750 | 8930 | 9110 | 9290 | 9471 | 9651 | 9831 | 0011 | 41 | 9 | 4077 |
| 30 | 10 | 4 (6) | 7400 | 7579 | 7759 | 7939 | 8119 | 8299 | 8478 | 8658 | 8838 | 9018 | 9198 | 9378 | 9558 | 9738 | 9918 | 0099 | 0279 | 45 | 10 | 4 4349 |
| 33 | 11 | | 7669 | 7842 | 8028 | 8208 | 8388 | 8567 | 8747 | 8927 | 9107 | 9287 | 9466 | 9646 | 9826 | 0006 | 0186 | 0366 | 0546 | 50 | 11 | 4621 |
| 35 | 12 | | 7939 | 8118 | 8298 | 8477 | 8657 | 8836 | 9016 | 9196 | 9376 | 9555 | 9735 | 9914 | 0094 | 0274 | 0454 | 0634 | 0813 | 54 | 12 | 4893 |
| 38 | 13 | | 8208 | 8388 | 8567 | 8746 | 8926 | 9105 | 9285 | 9464 | 9644 | 9823 | 0003 | 0182 | 0362 | 0542 | 0721 | 0901 | 1081 | 59 | 13 | 5165 |
| 41 | 14 | | 8478 | 8667 | 8836 | 9016 | 9195 | 9374 | 9564 | 9733 | 9912 | 0092 | 0271 | 0451 | 0630 | 0810 | 0989 | 1169 | 1348 | 64 | 14 | 3437 |
| 44 | 15 | 4 (5) | 8748 | 8927 | 9106 | 9285 | 9464 | 9643 | 9822 | 0002 | 0181 | 0360 | 0539 | 0719 | 0898 | 1077 | 1257 | 1436 | 1616 | 68 | 15 | 4 5709 |
| 47 | 16 | | 9017 | 9126 | 9375 | 9554 | 9733 | 9912 | 0091 | 0270 | 0449 | 0629 | 0808 | 0987 | 1166 | 1345 | 1525 | 1704 | 1883 | 73 | 16 | 5981 |
| 60 | 17 | | 9287 | 9466 | 9646 | 9824 | 0002 | 0181 | 0360 | 0539 | 0718 | 0897 | 1076 | 1256 | 1434 | 1613 | 1792 | 1972 | 2151 | 77 | 17 | 6253 |
| 63 | 18 | | 9637 | 9736 | 9914 | 0093 | 0272 | 0450 | 0529 | 0808 | 0987 | 1166 | 1344 | 1523 | 1702 | 1881 | 2060 | 2239 | 2418 | 82 | 18 | 6525 |
| 56 | 19 | | 9827 | 0005 | 0184 | 0362 | 0541 | 0719 | 0898 | 1077 | 1255 | 1434 | 1613 | 1792 | 1970 | 2149 | 2328 | 2507 | 2686 | 86 | 19 | 6797 |
| 59 | 20 | 5 | 0097 | 0276 | 0453 | 0632 | 0810 | 0989 | 1167 | 1346 | 1524 | 1703 | 1881 | 2060 | 2239 | 2417 | 2596 | 2775 | 2954 | 91 | 20 | 4 7069 |
| 62 | 21 | | 0366 | 0545 | 0723 | 0901 | 1079 | 1258 | 1436 | 1614 | 1793 | 1971 | 2150 | 2328 | 2507 | 2685 | 2864 | 3043 | 3221 | 95 | 21 | 7342 |
| 65 | 22 | | 0636 | 0814 | 0993 | 1171 | 1349 | 1527 | 1705 | 1083 | 2062 | 2240 | 2418 | 2597 | 2775 | 2953 | 3132 | 3310 | 3489 | 100 | 22 | 7614 |
| 68 | 23 | | 0906 | 1084 | 1262 | 1440 | 1618 | 1796 | 1974 | 2152 | 2330 | 2509 | 2687 | 2865 | 3043 | 3222 | 3400 | 3578 | 3757 | 104 | 23 | 7806 |
| 71 | 24 | | 1176 | 1354 | 1532 | 1710 | 1888 | 2065 | 2243 | 2421 | 2599 | 2777 | 2955 | 3133 | 3312 | 3490 | 3668 | 3846 | 4024 | 109 | 24 | 5159 |
| 74 | 26 | 5 | 1446 | 1624 | 1801 | 1979 | 2167 | 2336 | 2512 | 2690 | 2868 | 3046 | 3224 | 3402 | 3580 | 3758 | 3936 | 4114 | 4292 | 114 | 25 | 4 8431 |
| 77 | 26 | | 1716 | 1894 | 2071 | 2249 | 2426 | 2604 | 2782 | 2959 | 3137 | 3315 | 3493 | 3670 | 3848 | 4025 | 4204 | 4382 | 4560 | 118 | 26 | 8703 |
| 80 | 27 | | 1986 | 2164 | 2341 | 2518 | 2696 | 2873 | 3051 | 3228 | 3406 | 3584 | 3761 | 3939 | 4117 | 4294 | 4472 | 4650 | 4828 | 123 | 27 | 8975 |
| 83 | 28 | | 2256 | 2433 | 2611 | 2788 | 2965 | 3143 | 3320 | 3497 | 3673 | 3852 | 4030 | 4207 | 4383 | 4563 | 4740 | 4918 | 3096 | 127 | 28 | 9248 |
| 86 | 29 | | 2526 | 2703 | 2801 | 3058 | 3235 | 3412 | 3589 | 3767 | 3944 | 4121 | 4299 | 4475 | 4653 | 4831 | 5008 | 5186 | 3363 | 132 | 29 | 9520 |
| 89 | 30 | 5 | 2796 | 2973 | 3150 | 3327 | 3504 | 3682 | 3859 | 4036 | 4213 | 4390 | 4567 | 4745 | 4922 | 5099 | 5277 | 5464 | 5631 | 136 | 30 | 4 9793 |
| 92 | 31 | | 3067 | 3243 | 3420 | 3597 | 3774 | 3951 | 4128 | 4306 | 4482 | 4669 | 4836 | 5013 | 5190 | 5368 | 5545 | 5722 | 5899 | 141 | 31 | 6 0065 |
| 95 | 32 | | 3337 | 3513 | 3690 | 3867 | 4044 | 4220 | 4397 | 4574 | 4761 | 4928 | 5105 | 5282 | 5459 | 5636 | 5813 | 5990 | 6167 | 145 | 32 | 0338 |
| 98 | 33 | | 3607 | 3783 | 3960 | 4137 | 4313 | 4490 | 4667 | 4843 | 5020 | 5197 | 5374 | 5651 | 5727 | 5904 | 6081 | 6258 | 6435 | 150 | 33 | 0610 |
| 101 | 34 | | 3677 | 4054 | 4230 | 4406 | 4583 | 4769 | 4936 | 5113 | 5289 | 5466 | 5643 | 3819 | 6996 | 6173 | 6350 | 6626 | 6703 | 154 | 34 | 0883 |
| 104 | 35 | 5 | 4147 | 4324 | 4500 | 4676 | 4853 | 5029 | 5205 | 5382 | 5558 | 5735 | 5912 | 6088 | 6263 | 6441 | 6618 | 6795 | 6971 | 159 | 36 | 5 1155 |
| 106 | 36 | | 4418 | 4594 | 4770 | 4946 | 6122 | 5299 | 5475 | 5661 | 5828 | 6004 | 6180 | 6357 | 6533 | 6710 | 6886 | 7063 | 7239 | 163 | 36 | 1428 |
| 109 | 37 | | 4688 | 4864 | 5040 | 5216 | 6392 | 5568 | 5744 | 5921 | 6097 | 6273 | 6449 | 6626 | 6802 | 6978 | 7155 | 7331 | 7607 | 168 | 37 | 1701 |
| 112 | 38 | | 4958 | 3134 | 5310 | 5486 | 3662 | 5838 | 6014 | 6190 | 6366 | 6542 | 6718 | 6894 | 7071 | 7247 | 7423 | 7599 | 7776 | 173 | 38 | 1973 |
| 116 | 39 | | 5229 | 5403 | 5580 | 3756 | 6932 | 6108 | 6284 | 6469 | 6635 | 6811 | 6987 | 7163 | 7339 | 7515 | 7692 | 7868 | 8044 | 177 | 39 | 2246 |
| 118 | 40 | 5 | 5499 | 5676 | 5850 | 6026 | 6202 | 6377 | 6553 | 6729 | 6905 | 7080 | 7256 | 7432 | 7608 | 7784 | 7960 | 8136 | 8312 | 182 | 40 | 5 2519 |
| 121 | 41 | | 6770 | 5945 | 6121 | 6296 | 6472 | 6647 | 6823 | 6998 | 7174 | 7360 | 7625 | 7701 | 7677 | 8053 | 8229 | 8404 | 8580 | 186 | 41 | 2792 |
| 124 | 42 | | 6040 | 6216 | 6391 | 6566 | 6742 | 6917 | 7092 | 7268 | 7443 | 7619 | 7794 | 7970 | 8146 | 8321 | 8497 | 8673 | 8849 | 191 | 42 | 3064 |
| 127 | 43 | | 6311 | 6486 | 6661 | 6836 | 7011 | 7187 | 7362 | 7637 | 7713 | 7888 | 8064 | 8239 | 8416 | 8590 | 8766 | 8941 | 9117 | 195 | 43 | 3337 |
| 130 | 44 | | 6681 | 6756 | 6931 | 7106 | 7281 | 7467 | 7632 | 7807 | 7982 | 8167 | 8333 | 8508 | 8683 | 8869 | 9034 | 9210 | 9385 | 200 | 44 | 3610 |
| 133 | 45 | 5 | 6832 | 7027 | 7201 | 7376 | 7551 | 7726 | 7901 | 8077 | 8232 | 8427 | 8602 | 8777 | 8952 | 9128 | 9303 | 9478 | 9653 | 204 | 46 | 5 3883 |
| 136 | 46 | | 7122 | 7297 | 7472 | 7647 | 7821 | 7996 | 8171 | 8346 | 8521 | 8696 | 8871 | 9046 | 9221 | 9396 | 9571 | 9747 | 9922 | 209 | 46 | 4156 |
| 139 | 47 | 5 (6) | 7393 | 7567 | 7742 | 7917 | 8091 | 8266 | 8441 | 8616 | 8791 | 8965 | 9140 | 9316 | 9490 | 9665 | 9840 | 0015 | 0190 | 213 | 47 | 4429 |
| 142 | 46 | | 7664 | 7838 | 8012 | 8187 | 8362 | 8536 | 8711 | 8885 | 9060 | 9233 | 9410 | 9584 | 9769 | 9934 | 0109 | 0284 | 0469 | 210 | 48 | 4702 |
| 145 | 49 | | 7234 | 8109 | 8283 | 8457 | 8632 | 8806 | 8981 | 9155 | 9330 | 9504 | 9679 | 9854 | 0028 | 0203 | 0378 | 0552 | 0727 | 223 | 49 | 4973 |
| 148 | 50 | 6 (6) | 8205 | 8379 | 8553 | 8728 | 8902 | 9076 | 9260 | 9425 | 9599 | 9774 | 9948 | 0123 | 0297 | 0472 | 0646 | 0821 | 0996 | 227 | 58 | 6 5248 |
| 151 | 51 | | 8476 | 8650 | 8824 | 8998 | 9172 | 9346 | 9520 | 9695 | 9869 | 0043 | 0218 | 0392 | 0566 | 0741 | 0915 | 1090 | 1264 | 232 | 61 | 5521 |
| 154 | 52 | | 8746 | 8920 | 9094 | 9268 | 9442 | 9616 | 9790 | 9954 | 0139 | 0313 | 0487 | 0661 | 0833 | 1010 | 1184 | 1368 | 1533 | 236 | 52 | 5794 |
| 137 | 63 | | 9017 | 2191 | 9365 | 9539 | 9712 | 9886 | 0060 | 0234 | 0408 | 0582 | 0756 | 0930 | 1104 | 1279 | 1463 | 1627 | 1801 | 241 | 53 | 6067 |
| 160 | 54 | | 9285 | 9462 | 9635 | 9809 | 9983 | 0167 | 0330 | 0604 | 0678 | 0832 | 1026 | 1200 | 1374 | 1548 | 1722 | 1896 | 2070 | 245 | 54 | 6340 |
| 163 | 65 | 5 (6) | 9559 | 9732 | 9906 | 0079 | 0253 | 0427 | 0600 | 0774 | 0948 | 1121 | 1295 | 1469 | 1643 | 1817 | 1991 | 2165 | 2339 | 250 | 66 | 5 6613 |
| 166 | 56 | | 9830 | 0003 | 0176 | 0350 | 0523 | 0697 | 0870 | 1044 | 1218 | 1391 | 1565 | 1738 | 1911 | 2086 | 2260 | 2433 | 2607 | 254 | 56 | 6867 |
| 169 | 67 | 6 | 0101 | 0274 | 0447 | 0620 | 0724 | 0967 | 1140 | 1314 | 1487 | 1661 | 1834 | 2008 | 2181 | 2356 | 2529 | 2702 | 2875 | 259 | 67 | 7160 |
| 172 | 58 | | 0372 | 0545 | 0718 | 0891 | 1064 | 1237 | 1411 | 1584 | 1757 | 1930 | 2104 | 2277 | 2461 | 2624 | 2797 | 2971 | 3145 | 263 | 58 | 7433 |
| 175 | 59 | | 0642 | 0815 | 0988 | 1161 | 1335 | 1508 | 1681 | 1854 | 2027 | 2200 | 2373 | 2647 | 2720 | 2893 | 3066 | 3240 | 3413 | 268 | 59 | 7707 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 70° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 70° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 (6) 7980 | 0152 | 8325 | 8497 | 8669 | 8842 | 9014 | 9187 | 9359 | 9532 | 9704 | 9877 | 0050 | 0222 | 0395 | 0560 | 0741 | 272 | 6′ | 5 6096 |
| 3 | 1 | 8253 | 8425 | 8598 | 8770 | 8942 | 9114 | 9287 | 9459 | 9632 | 9804 | 9976 | 0149 | 0321 | 0494 | 0667 | 0839 | 1012 | 268 | 1 | 7825 |
| 6 | 2 | 8527 | 8699 | 8871 | 9043 | 9215 | 9387 | 9559 | 9732 | 9904 | 0076 | 0248 | 0421 | 0593 | 0766 | 0938 | 1110 | 1283 | 263 | 2 | 7553 |
| 0 | 3 | 8800 | 8972 | 9144 | 9316 | 9408 | 9660 | 9832 | 0004 | 0176 | 0348 | 0520 | 0693 | 0865 | 1037 | 1210 | 1382 | 1554 | 259 | 3 | 7281 |
| 11 | 4 | 9073 | 9945 | 9417 | 9589 | 9761 | 9933 | 0105 | 0277 | 0449 | 0620 | 0793 | 0965 | 1137 | 1309 | 1481 | 1653 | 1025 | 254 | 4 | 7010 |
| 14 | 5 | 5 (6) 9347 | 9519 | 9690 | 9862 | 0034 | 8205 | 0377 | 0549 | 0721 | 0893 | 1065 | 1237 | 1409 | 1581 | 1753 | 1925 | 2097 | 250 | 5 | 5 6738 |
| 17 | 6 | 9620 | 9792 | 9963 | 0135 | 0307 | 0478 | 0650 | 0822 | 0993 | 1165 | 1337 | 1509 | 1680 | 1852 | 2094 | 2196 | 2368 | 245 | 6 | 6466 |
| 20 | 7 | 9894 | 0065 | 0237 | 0408 | 0580 | 0751 | 0993 | 1094 | 1266 | 1437 | 1609 | 1781 | 1952 | 2124 | 2296 | 2467 | 2639 | 241 | 7 | 6194 |
| 22 | 6 | 6 6167 | 0339 | 0510 | 0681 | 0853 | 1024 | 1195 | 1367 | 1538 | 1710 | 1881 | 2053 | 2224 | 2396 | 2567 | 2739 | 2911 | 236 | 6 | 5923 |
| 25 | 9 | 0441 | 0612 | 0783 | 0954 | 1126 | 1297 | 1468 | 1639 | 1811 | 1982 | 2153 | 2325 | 2496 | 2668 | 2839 | 3011 | 3182 | 232 | 9 | 5651 |
| 28 | 16 | 6 6715 | 0886 | 1057 | 1928 | 1399 | 1570 | 1741 | 1912 | 2083 | 2254 | 2426 | 9597 | 2768 | 2939 | 3111 | 3282 | 3453 | 227 | 10 | 5 5379 |
| 31 | 11 | 0980 | 1159 | 1330 | 1501 | 1672 | 1843 | 2014 | 2185 | 2356 | 2627 | 2698 | 2869 | 3040 | 3211 | 3382 | 3554 | 3725 | 223 | 11 | 5107 |
| 34 | 12 | 1262 | 1433 | 1603 | 1774 | 1945 | 9116 | 2287 | 2457 | 2628 | 2799 | 2970 | 3141 | 3312 | 3483 | 3654 | 3895 | 3996 | 218 | 12 | 4835 |
| 36 | 13 | 1536 | 1706 | 1877 | 2047 | 2218 | 2389 | 9559 | 2730 | 2901 | 3072 | 3243 | 3413 | 3584 | 3755 | 3926 | 4097 | 4268 | 213 | 13 | 4563 |
| 39 | 14 | 1809 | 1980 | 2150 | 2321 | 2491 | 9662 | 2832 | 3003 | 3173 | 3344 | 3515 | 3686 | 3856 | 4027 | 4198 | 4369 | 4539 | 209 | 14 | 4291 |
| 42 | 15 | 6 2083 | 2254 | 2424 | 2594 | 2764 | 2935 | 3105 | 3276 | 3446 | 3617 | 3787 | 3958 | 4128 | 4299 | 4470 | 4640 | 4811 | 204 | 15 | 5 4019 |
| 45 | 16 | 2357 | 2527 | 2697 | 2667 | 3038 | 3208 | 3378 | 3549 | 3719 | 3889 | 4060 | 4230 | 4401 | 4571 | 4741 | 4912 | 5082 | 200 | 16 | 3747 |
| 48 | 17 | 2631 | 2001 | 2971 | 3141 | 3311 | 3481 | 3651 | 3821 | 3992 | 4162 | 4332 | 4502 | 4673 | 4843 | 5013 | 5184 | 5354 | 195 | 17 | 3475 |
| 51 | 16 | 2905 | 3075 | 3244 | 3414 | 3584 | 3754 | 3924 | 4094 | 4264 | 4434 | 4605 | 4775 | 4945 | 5115 | 5285 | 5456 | 5626 | 191 | 18 | 3203 |
| 53 | 19 | 3179 | 3348 | 3618 | 3688 | 3058 | 4027 | 4197 | 4367 | 4537 | 4707 | 4877 | 5047 | 5217 | 5387 | 5557 | 5727 | 5897 | 186 | 19 | 2931 |
| 56 | 20 | 6 3453 | 3622 | 3792 | 3961 | 4131 | 4301 | 4470 | 4640 | 4810 | 4980 | 5149 | 5319 | 5489 | 5659 | 5829 | 5999 | 6169 | 182 | 20 | 5 2650 |
| 59 | 21 | 3726 | 3896 | 4065 | 4235 | 4404 | 4574 | 4743 | 4913 | 5083 | 5252 | 5422 | 5592 | 5762 | 5931 | 6101 | 6271 | 6441 | 177 | 21 | 2386 |
| 62 | 22 | 4000 | 4170 | 4339 | 4508 | 4678 | 4847 | 5017 | 5186 | 5356 | 5525 | 5695 | 5864 | 6034 | 6203 | 6373 | 6543 | 6713 | 173 | 29 | 2114 |
| 65 | 23 | 4274 | 4444 | 4613 | 4782 | 4951 | 5121 | 5290 | 5459 | 5628 | 5798 | 5967 | 6137 | 6306 | 6476 | 6645 | 6815 | 6984 | 168 | 23 | 1841 |
| 67 | 24 | 4548 | 4717 | 4886 | 5055 | 5225 | 5394 | 5563 | 5732 | 5981 | 6071 | 6240 | 6409 | 6579 | 6748 | 6917 | 7087 | 7256 | 163 | 24 | 1569 |
| 70 | 25 | 6 4822 | 4991 | 5160 | 5329 | 5498 | 5667 | 5836 | 6005 | 6174 | 6343 | 6513 | 6682 | 6851 | 7020 | 7189 | 7359 | 7528 | 159 | 25 | 5 1297 |
| 73 | 26 | 5096 | 5265 | 5434 | 5603 | 5772 | 5941 | 6109 | 6278 | 6447 | 6616 | 6785 | 6954 | 7123 | 7292 | 7462 | 7631 | 7800 | 154 | 26 | 1025 |
| 76 | 27 | 5371 | 5539 | 5708 | 5876 | 6045 | 6214 | 6383 | 6552 | 6720 | 6889 | 7058 | 7227 | 7396 | 7565 | 7734 | 7903 | 8072 | 150 | 27 | 0752 |
| 78 | 28 | 5645 | 5813 | 5982 | 6150 | 6319 | 6487 | 6656 | 6825 | 6993 | 7162 | 7331 | 7500 | 7668 | 7037 | 8006 | 8175 | 8344 | 145 | 28 | 0400 |
| 81 | 29 | 5919 | 6087 | 6256 | 6424 | 6592 | 6761 | 6929 | 7998 | 7266 | 7435 | 7604 | 7772 | 7941 | 8109 | 8278 | 8447 | 8616 | 141 | 29 | 0207 |
| 84 | 30 | 6 6193 | 6361 | 6529 | 6698 | 6866 | 7034 | 7203 | 7371 | 7539 | 7708 | 7876 | 8045 | 8213 | 8382 | 8550 | 8719 | 8888 | 130 | 30 | 4 9935 |
| 87 | 31 | 6467 | 6635 | 6803 | 6972 | 7140 | 7308 | 7476 | 7645 | 7813 | 7981 | 8149 | 8318 | 8486 | 8654 | 8823 | 8991 | 9160 | 132 | 31 | 9662 |
| 90 | 32 | 6742 | 6909 | 7077 | 7245 | 7413 | 7581 | 7749 | 7918 | 8086 | 8254 | 8422 | 8590 | 8759 | 8927 | 9095 | 9263 | 9432 | 127 | 32 | 9390 |
| 93 | 33 | 7016 | 7184 | 7351 | 7519 | 7687 | 7855 | 8023 | 8191 | 8359 | 8527 | 8695 | 8863 | 9031 | 9199 | 9367 | 9536 | 9704 | 123 | 33 | 9117 |
| 95 | 34 | 7290 | 7458 | 7625 | 7793 | 7961 | 6129 | 8296 | 8464 | 8632 | 8800 | 8968 | 9136 | 9284 | 9472 | 9640 | 9808 | 9976 | 118 | 34 | 8845 |
| 98 | 35 | 6 (7) 7564 | 7732 | 7900 | 8067 | 8235 | 8402 | 8570 | 8730 | 8905 | 9073 | 9241 | 9409 | 9576 | 9744 | 9912 | 0080 | 0248 | 114 | 35 | 4 8572 |
| 101 | 36 | 7839 | 8006 | 8174 | 8341 | 8508 | 8676 | 8843 | 9011 | 9179 | 9346 | 9514 | 9681 | 9849 | 0017 | 0185 | 0352 | 0520 | 109 | 36 | 8299 |
| 184 | 37 | 8113 | 8280 | 8448 | 8615 | 8782 | 8950 | 9117 | 9284 | 9452 | 9619 | 9787 | 9954 | 0122 | 0289 | 0467 | 0625 | 0792 | 104 | 37 | 8097 |
| 107 | 38 | 8388 | 8555 | 8722 | 8889 | 9056 | 9223 | 9391 | 9558 | 9725 | 9892 | 0060 | 0297 | 0396 | 0562 | 0729 | 0897 | 1064 | 108 | 38 | 7754 |
| 110 | 39 | 8662 | 8829 | 8996 | 9163 | 9330 | 9497 | 9664 | 9831 | 9998 | 0166 | 0333 | 0500 | 0667 | 0835 | 1002 | 1169 | 1337 | 95 | 39 | 7481 |
| 112 | 40 | 6 (7) 8937 | 9103 | 9270 | 9437 | 9604 | 9771 | 9938 | 0105 | 0272 | 0439 | 0606 | 0773 | 0940 | 1107 | 1274 | 1442 | 1609 | 91 | 40 | 4 7208 |
| 115 | 41 | 9211 | 9378 | 9544 | 9711 | 9878 | 0045 | 0212 | 0378 | 0545 | 0712 | 0879 | 1046 | 1213 | 1380 | 1547 | 1714 | 1881 | 86 | 41 | 6936 |
| 118 | 42 | 9486 | 9652 | 9819 | 9985 | 0152 | 0319 | 0485 | 0652 | 0819 | 0985 | 1152 | 1319 | 1486 | 1653 | 1820 | 1987 | 9153 | 82 | 42 | 6663 |
| 121 | 43 | 9760 | 9927 | 0093 | 0259 | 0426 | 0592 | 0759 | 0926 | 1092 | 1959 | 1425 | 1592 | 1759 | 1925 | 2092 | 2259 | 2426 | 77 | 43 | 6390 |
| 123 | 44 | 7 0035 | 0201 | 0367 | 0534 | 0700 | 0866 | 1033 | 1199 | 1366 | 1539 | 1699 | 1865 | 9039 | 2198 | 2365 | 2532 | 2698 | 73 | 44 | 6117 |
| 126 | 45 | 7 0309 | 0475 | 0642 | 0808 | 0974 | 1140 | 1307 | 1473 | 1639 | 1805 | 1972 | 2138 | 2305 | 2471 | 2638 | 2804 | 2971 | 68 | 45 | 4 5844 |
| 129 | 46 | 6584 | 0750 | 0916 | 1082 | 1948 | 1414 | 1580 | 1746 | 1913 | 2079 | 9245 | 2411 | 2578 | 9744 | 2910 | 3077 | 3243 | 64 | 46 | 5571 |
| 132 | 47 | 0859 | 1024 | 1190 | 1356 | 1522 | 1688 | 1854 | 2020 | 2186 | 2359 | 2518 | 2684 | 2851 | 3017 | 3183 | 3349 | 3515 | 59 | 47 | 5290 |
| 135 | 48 | 1133 | 1299 | 1465 | 1631 | 1796 | 1962 | 2128 | 2294 | 2460 | 2626 | 2799 | 2958 | 3124 | 3290 | 3456 | 3622 | 3788 | 54 | 48 | 5025 |
| 138 | 49 | 1408 | 1574 | 1739 | 1905 | 2076 | 2936 | 2409 | 2568 | 2733 | 2899 | 3065 | 3231 | 3397 | 3563 | 3729 | 3894 | 4060 | 50 | 49 | 4752 |
| 140 | 50 | 7 1683 | 1848 | 2014 | 9179 | 2345 | 2510 | 2676 | 2841 | 3007 | 3173 | 3338 | 3604 | 3670 | 3836 | 4001 | 4167 | 4333 | 45 | 50 | 4 4479 |
| 143 | 51 | 1958 | 2123 | 9288 | 2453 | 2619 | 9784 | 2950 | 3115 | 3281 | 3416 | 3612 | 3777 | 3943 | 4109 | 4274 | 4440 | 4606 | 41 | 51 | 4206 |
| 146 | 52 | 9232 | 9397 | 2563 | 9728 | 2893 | 3058 | 3224 | 3389 | 3554 | 3720 | 3885 | 4051 | 4216 | 4382 | 4547 | 4713 | 4878 | 36 | 52 | 3933 |
| 149 | 53 | 2507 | 2679 | 2837 | 3002 | 3167 | 3332 | 3498 | 3663 | 3828 | 3993 | 4159 | 4324 | 4489 | 4655 | 4820 | 4985 | 5151 | 32 | 53 | 3660 |
| 152 | 54 | 2782 | 2947 | 3119 | 3277 | 3449 | 3607 | 3772 | 3937 | 4102 | 4267 | 4432 | 4597 | 4762 | 4998 | 5093 | 5958 | 5423 | 27 | 54 | 3387 |
| 154 | 55 | 7 3057 | 3992 | 3386 | 3551 | 3716 | 3881 | 4046 | 4211 | 4376 | 4541 | 4706 | 4871 | 5036 | 5201 | 5366 | 5531 | 5696 | 23 | 55 | 4 3113 |
| 157 | 56 | 3332 | 3496 | 3661 | 3826 | 3990 | 4155 | 4320 | 4486 | 4649 | 4814 | 4979 | 5144 | 5309 | 5474 | 5639 | 5804 | 5969 | 18 | 56 | 2840 |
| 160 | 57 | 3607 | 3771 | 3936 | 4100 | 4265 | 4499 | 4594 | 4759 | 4923 | 5088 | 5253 | 5417 | 5582 | 5747 | 5912 | 6077 | 6241 | 14 | 57 | 2567 |
| 163 | 58 | 3882 | 4046 | 4210 | 4375 | 4639 | 4704 | 4868 | 5033 | 5197 | 5362 | 5526 | 5691 | 5855 | 6020 | 6185 | 6350 | 6514 | 9 | 58 | 2293 |
| 166 | 59 | 4157 | 4321 | 4485 | 4649 | 4814 | 4978 | 5142 | 5307 | 5471 | 5635 | 5800 | 5964 | 6129 | 6293 | 6458 | 6692 | 6787 | 5 | 59 | 9020 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 70° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 70° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 | 0913 | 1086 | 1259 | 1432 | 1605 | 1778 | 1951 | 2124 | 2297 | 2470 | 2643 | 2816 | 2989 | 3163 | 3336 | 3509 | 3682 | 0 | 0′ | 5 7980 |
| 3 | 1 | | 1184 | 1357 | 1530 | 1703 | 1875 | 2048 | 2221 | 2394 | 2567 | 2740 | 2913 | 3086 | 3259 | 3432 | 3605 | 3778 | 3951 | 5 | 1 | 8253 |
| 6 | 2 | | 1455 | 1628 | 1801 | 1973 | 2146 | 2319 | 2491 | 2664 | 2837 | 3010 | 3182 | 3355 | 3528 | 3701 | 3874 | 4047 | 4220 | 9 | 2 | 8527 |
| 8 | 3 | | 1727 | 1899 | 2071 | 2244 | 2416 | 2589 | 2761 | 2934 | 3107 | 3279 | 3452 | 3625 | 3797 | 3970 | 4143 | 4316 | 4489 | 14 | 3 | 8806 |
| 11 | 4 | | 1998 | 2170 | 2342 | 2515 | 2687 | 2859 | 3032 | 3204 | 3377 | 3549 | 3722 | 3894 | 4067 | 4239 | 4412 | 4585 | 4758 | 18 | 4 | 9073 |
| 14 | 5 | 6 | 2269 | 2441 | 2613 | 2785 | 2957 | 3130 | 3302 | 3474 | 3647 | 3819 | 3991 | 4164 | 4336 | 4509 | 4681 | 4854 | 5026 | 23 | 5 | 5 9347 |
| 17 | 6 | | 2540 | 2712 | 2884 | 3056 | 3228 | 3400 | 3572 | 3744 | 3917 | 4089 | 4261 | 4434 | 4606 | 4778 | 4951 | 5123 | 5295 | 27 | 6 | 9620 |
| 20 | 7 | | 2811 | 2983 | 3155 | 3327 | 3499 | 3671 | 3843 | 4015 | 4187 | 4359 | 4531 | 4703 | 4875 | 5048 | 5220 | 5392 | 5564 | 32 | 7 | 9894 |
| 23 | 8 | | 3082 | 3254 | 3426 | 3598 | 3769 | 3941 | 4113 | 4285 | 4457 | 4629 | 4801 | 4973 | 5145 | 5317 | 5489 | 5661 | 5833 | 36 | 8 | 6 0168 |
| 25 | 9 | | 3354 | 3525 | 3697 | 3868 | 4040 | 4212 | 4303 | 4555 | 4727 | 4899 | 5671 | 5243 | 5414 | 5586 | 5758 | 5930 | 6102 | 41 | 9 | 0441 |
| 28 | 10 | 6 | 3625 | 3796 | 3968 | 4139 | 4311 | 4482 | 4654 | 4826 | 4997 | 5169 | 5341 | 5512 | 5684 | 5856 | 6028 | 6200 | 6371 | 46 | 10 | 6 0715 |
| 31 | 11 | | 3896 | 4067 | 4239 | 4410 | 4582 | 4753 | 4924 | 5096 | 5267 | 5439 | 5610 | 5782 | 5954 | 6125 | 6297 | 6469 | 6641 | 50 | 11 | 0988 |
| 34 | 12 | | 4167 | 4339 | 4510 | 4681 | 4852 | 5024 | 5195 | 5366 | 5538 | 5709 | 5880 | 6052 | 6223 | 6395 | 6566 | 6738 | 6910 | 55 | 12 | 1262 |
| 37 | 13 | | 4439 | 4610 | 4781 | 4952 | 5123 | 5294 | 5465 | 5637 | 5808 | 5979 | 6150 | 6322 | 6493 | 6664 | 6836 | 7007 | 7179 | 59 | 13 | 1536 |
| 39 | 14 | | 4710 | 4881 | 5052 | 5223 | 5394 | 5565 | 5736 | 5907 | 6078 | 6249 | 6420 | 6592 | 6763 | 6934 | 7165 | 7277 | 7448 | 64 | 14 | 1810 |
| 42 | 15 | 6 | 4982 | 5152 | 5323 | 5494 | 5665 | 5836 | 6007 | 6178 | 6348 | 6519 | 6690 | 6861 | 7033 | 7204 | 7375 | 7546 | 7717 | 68 | 15 | 6 2083 |
| 45 | 16 | | 5253 | 5424 | 5594 | 5765 | 5936 | 6106 | 6277 | 6448 | 6619 | 6790 | 6961 | 7131 | 7302 | 7473 | 7644 | 7815 | 7986 | 73 | 16 | 2357 |
| 48 | 17 | | 5525 | 5695 | 5866 | 6036 | 6207 | 6377 | 6548 | 6718 | 6889 | 7060 | 7231 | 7401 | 7572 | 7743 | 7914 | 8085 | 8256 | 78 | 17 | 2631 |
| 51 | 18 | | 5796 | 5966 | 6137 | 6307 | 6478 | 6648 | 6818 | 6989 | 7160 | 7330 | 7501 | 7671 | 7842 | 8013 | 8184 | 8354 | 8525 | 82 | 18 | 2965 |
| 54 | 19 | | 6068 | 6238 | 6408 | 6578 | 6749 | 6919 | 7089 | 7260 | 7430 | 7600 | 7771 | 7941 | 8112 | 8282 | 8453 | 8624 | 8794 | 87 | 19 | 3179 |
| 56 | 20 | 6 | 6339 | 6509 | 6679 | 6849 | 7020 | 7190 | 7360 | 7530 | 7700 | 7871 | 8041 | 8211 | 8382 | 8552 | 8723 | 8893 | 9063 | 91 | 20 | 6 3453 |
| 59 | 21 | | 6611 | 6781 | 6951 | 7121 | 7291 | 7461 | 7631 | 7801 | 7971 | 8141 | 8311 | 8481 | 8652 | 8822 | 8992 | 9163 | 9333 | 96 | 21 | 3726 |
| 62 | 22 | | 6882 | 7052 | 7222 | 7392 | 7562 | 7732 | 7961 | 8071 | 8241 | 8411 | 8581 | 8752 | 8922 | 9092 | 9262 | 9432 | 9602 | 100 | 22 | 4000 |
| 65 | 23 | | 7154 | 7324 | 7493 | 7663 | 7833 | 8003 | 8172 | 8342 | 8512 | 8682 | 8852 | 9022 | 9192 | 9362 | 9532 | 9702 | 9872 | 105 | 23 | 4274 |
| 68 | 24 | 6 (7) | 7426 | 7595 | 7765 | 7934 | 8104 | 8274 | 8443 | 8613 | 8783 | 8952 | 9122 | 9292 | 9462 | 9631 | 9801 | 9971 | 0141 | 110 | 24 | 4548 |
| 70 | 25 | 6 (7) | 7697 | 7867 | 8036 | 8206 | 8375 | 8545 | 8714 | 8884 | 9053 | 9223 | 9392 | 9562 | 9732 | 9901 | 0071 | 0241 | 0411 | 114 | 25 | 6 4822 |
| 73 | 26 | | 7969 | 8138 | 8308 | 8477 | 8646 | 8816 | 8985 | 9154 | 9324 | 9493 | 9663 | 9832 | 0002 | 0171 | 0341 | 0510 | 0680 | 119 | 26 | 5097 |
| 76 | 27 | | 6241 | 8410 | 8579 | 8748 | 8917 | 9087 | 9256 | 9425 | 9594 | 9764 | 9933 | 0102 | 0272 | 0441 | 0611 | 0780 | 0950 | 123 | 27 | 5371 |
| 79 | 28 | | 8513 | 8682 | 8851 | 9020 | 9189 | 9358 | 9527 | 9696 | 9865 | 0034 | 0203 | 0373 | 0542 | 0711 | 0881 | 1050 | 1219 | 128 | 28 | 5645 |
| 82 | 29 | | 6784 | 8953 | 9122 | 9291 | 9460 | 9629 | 9798 | 9967 | 0136 | 0305 | 0474 | 0643 | 0812 | 0981 | 1150 | 1320 | 1489 | 132 | 29 | 5919 |
| 85 | 30 | 6 (7) | 9056 | 9225 | 9394 | 9562 | 9731 | 9900 | 0069 | 0238 | 0406 | 0575 | 0744 | 0913 | 1682 | 1251 | 1420 | 1589 | 1758 | 137 | 30 | 6 6193 |
| 87 | 31 | | 9328 | 9497 | 9665 | 9834 | 0002 | 0171 | 0340 | 0509 | 0677 | 0846 | 1014 | 1184 | 1352 | 1521 | 1690 | 1859 | 2028 | 142 | 31 | 6467 |
| 90 | 32 | | 9600 | 9768 | 9937 | 0105 | 0274 | 0442 | 0611 | 0779 | 0948 | 1117 | 1285 | 1454 | 1623 | 1791 | 1960 | 2129 | 2298 | 146 | 32 | 6742 |
| 93 | 33 | | 9872 | 0040 | 0209 | 0377 | 0545 | 0714 | 0882 | 1050 | 1219 | 1387 | 1556 | 1724 | 1893 | 2062 | 2230 | 2399 | 2567 | 151 | 33 | 7016 |
| 96 | 34 | 7 | 0144 | 0312 | 0480 | 0648 | 0817 | 0985 | 1153 | 1321 | 1450 | 1658 | 1826 | 1995 | 2163 | 2332 | 2500 | 2669 | 2837 | 155 | 34 | 7290 |
| 99 | 35 | 7 | 0416 | 0584 | 0752 | 8920 | 1088 | 1256 | 1424 | 1592 | 1760 | 1929 | 2097 | 2265 | 2433 | 2602 | 2770 | 2939 | 3107 | 160 | 35 | 6 7565 |
| 101 | 36 | | 0688 | 0856 | 1024 | 1191 | 1359 | 1627 | 1695 | 1863 | 2031 | 2199 | 2368 | 2536 | 2704 | 2872 | 3040 | 3208 | 3377 | 164 | 36 | 7839 |
| 104 | 37 | | 0960 | 1128 | 1295 | 1463 | 1631 | 1799 | 1967 | 2134 | 2302 | 2470 | 2638 | 2806 | 2974 | 3142 | 3310 | 3478 | 3647 | 169 | 37 | 8113 |
| 107 | 38 | | 1232 | 1400 | 1567 | 1735 | 1902 | 2070 | 2238 | 2406 | 2573 | 2741 | 2909 | 3077 | 3245 | 3412 | 3580 | 3748 | 3916 | 173 | 38 | 8388 |
| 110 | 39 | | 1504 | 1672 | 1039 | 2006 | 2174 | 2341 | 2509 | 2677 | 2844 | 3012 | 3180 | 3347 | 3515 | 3683 | 3851 | 4018 | 4186 | 178 | 39 | 8662 |
| 113 | 40 | 7 | 1776 | 1944 | 2111 | 2278 | 2445 | 2613 | 2780 | 2948 | 3115 | 3283 | 3450 | 3618 | 3785 | 3953 | 4121 | 4288 | 4456 | 183 | 40 | 6 8937 |
| 116 | 41 | | 2048 | 2216 | 2383 | 2550 | 2717 | 2884 | 3052 | 3219 | 3386 | 3554 | 3721 | 3888 | 4056 | 4223 | 4391 | 4558 | 4726 | 187 | 41 | 9211 |
| 118 | 42 | | 2321 | 2488 | 2655 | 2822 | 2989 | 3156 | 3323 | 3490 | 3657 | 3825 | 3992 | 4159 | 4326 | 4494 | 4661 | 4829 | 4996 | 192 | 42 | 9486 |
| 121 | 43 | | 2593 | 2760 | 2926 | 3093 | 3260 | 3427 | 3594 | 3761 | 3928 | 4096 | 4263 | 4430 | 4597 | 4764 | 4931 | 5099 | 5266 | 196 | 43 | 9760 |
| 124 | 44 | | 2865 | 3032 | 3198 | 3365 | 3532 | 3699 | 3866 | 4033 | 4200 | 4367 | 4534 | 4701 | 4868 | 5035 | 5202 | 5369 | 5536 | 201 | 44 | 7 0035 |
| 127 | 45 | 7 | 3137 | 3364 | 3470 | 3637 | 3804 | 3976 | 4137 | 4304 | 4471 | 4638 | 4804 | 4971 | 5138 | 5305 | 5472 | 5639 | 5806 | 205 | 45 | 7 0309 |
| 130 | 46 | | 3409 | 3576 | 3742 | 3909 | 4075 | 4242 | 4409 | 4575 | 4742 | 4909 | 5075 | 5242 | 5409 | 5576 | 5742 | 5909 | 6076 | 210 | 46 | 0584 |
| 132 | 47 | | 3682 | 3848 | 4014 | 4181 | 4347 | 4514 | 4680 | 4847 | 5013 | 5180 | 5346 | 5513 | 5679 | 5846 | 6013 | 6179 | 6346 | 215 | 47 | 0859 |
| 135 | 48 | | 3954 | 4120 | 4286 | 4453 | 4619 | 4785 | 4952 | 5118 | 5284 | 5451 | 5617 | 5784 | 5950 | 6117 | 6283 | 6450 | 6616 | 219 | 48 | 1133 |
| 138 | 49 | | 4226 | 4392 | 4559 | 4725 | 4891 | 5057 | 5223 | 5389 | 5556 | 5722 | 5888 | 6054 | 6221 | 6387 | 6554 | 6720 | 6886 | 224 | 49 | 1408 |
| 141 | 50 | 7 | 4499 | 4665 | 4831 | 4997 | 5163 | 5329 | 5495 | 5661 | 5827 | 5993 | 6159 | 6326 | 6492 | 6658 | 6824 | 6990 | 7157 | 228 | 50 | 7 1683 |
| 144 | 51 | | 4771 | 4937 | 5163 | 5269 | 5435 | 5600 | 5766 | 5932 | 6098 | 6264 | 6430 | 6596 | 6762 | 6928 | 7695 | 7261 | 7427 | 233 | 51 | 1958 |
| 147 | 52 | | 5044 | 5209 | 6375 | 5541 | 5706 | 5872 | 6038 | 6204 | 6369 | 6535 | 6701 | 6867 | 7033 | 7199 | 7365 | 7531 | 7697 | 237 | 52 | 2232 |
| 149 | 53 | | 5316 | 5482 | 5647 | 5813 | 5978 | 6144 | 6310 | 6475 | 6641 | 6807 | 6972 | 7138 | 7304 | 7470 | 7636 | 7801 | 7967 | 242 | 53 | 2507 |
| 152 | 54 | | 5589 | 5754 | 5919 | 6085 | 6250 | 6416 | 6581 | 6747 | 6912 | 7078 | 7243 | 7409 | 7576 | 7740 | 7966 | 8072 | 8238 | 247 | 54 | 2782 |
| 155 | 55 | 7 | 5861 | 6026 | 6192 | 6357 | 6522 | 6688 | 6853 | 7018 | 7184 | 7349 | 7515 | 7680 | 7846 | 8011 | 8177 | 8342 | 8508 | 251 | 65 | 7 3057 |
| 158 | 56 | | 6134 | 6299 | 6464 | 6629 | 6794 | 6959 | 7125 | 7290 | 7455 | 7620 | 7786 | 7951 | 8116 | 8282 | 8447 | 8613 | 8778 | 256 | 56 | 3332 |
| 161 | 57 | | 6406 | 6571 | 6736 | 6901 | 7066 | 7231 | 7396 | 7561 | 7727 | 7892 | 8057 | 8222 | 8387 | 8553 | 8718 | 8883 | 9048 | 260 | 57 | 3607 |
| 163 | 58 | | 6679 | 6844 | 7609 | 7173 | 7338 | 7503 | 7668 | 7833 | 7998 | 8163 | 8328 | 8493 | 8658 | 8823 | 8989 | 9154 | 9319 | 265 | 58 | 3882 |
| 166 | 59 | | 6952 | 7116 | 7281 | 7446 | 7610 | 7775 | 7940 | 8105 | 8270 | 8434 | 8599 | 8764 | 8929 | 9094 | 9259 | 9424 | 9589 | 269 | 59 | 4157 |

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**Tabla X.** Número I para la suma de alturas aparentes
y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 71° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 71° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 | 4432 | 4596 | 4760 | 4924 | 5088 | 5252 | 5416 | 5581 | 5745 | 5909 | 6073 | 6238 | 6402 | 6567 | 6731 | 6895 | 7060 | 274 | 0' | 4 1747 |
| 3 | 1 | | 4707 | 4871 | 5035 | 5199 | 5363 | 5527 | 5691 | 5855 | 6019 | 6183 | 6347 | 6511 | 6576 | 6840 | 7004 | 7166 | 7333 | 269 | 1 | 1473 |
| 5 | 2 | | 4982 | 5146 | 5309 | 5473 | 5637 | 5801 | 5965 | 6129 | 6293 | 6457 | 6621 | 6785 | 6249 | 7113 | 7277 | 7441 | 7606 | 265 | 2 | 1200 |
| 8 | 3 | | 5957 | 5421 | 5584 | 5748 | 5912 | 6875 | 6239 | 6403 | 6567 | 6731 | 6895 | 7058 | 7922 | 7386 | 7550 | 7714 | 7878 | 260 | 3 | 0927 |
| 11 | 4 | | 5532 | 5696 | 5859 | 6023 | 6186 | 6350 | 6514 | 6677 | 6841 | 7005 | 7168 | 7339 | 7496 | 7660 | 7824 | 7987 | 8151 | 266 | 4 | 0653 |
| 13 | 5 | 7 | 6807 | 5971 | 6134 | 6297 | 6461 | 6624 | 6788 | 6951 | 7115 | 7279 | 7442 | 7606 | 7769 | 7933 | 8097 | 8260 | 8424 | 251 | 6 | 4 0380 |
| 16 | 6 | | 6082 | 6246 | 6409 | 6572 | 6736 | 6899 | 7062 | 7296 | 7389 | 7553 | 7716 | 7879 | 8043 | 8206 | 8370 | 8534 | 8697 | 247 | 6 | 8106 |
| 12 | 7 | | 6358 | 6521 | 6684 | 6847 | 7010 | 7173 | 7337 | 7500 | 7663 | 7827 | 7990 | 8153 | 8316 | 8480 | 8643 | 8807 | 8970 | 242 | 7 | 3 9832 |
| 21 | 8 | | 6633 | 6796 | 6959 | 7122 | 7285 | 7448 | 7611 | 7774 | 7937 | 8101 | 8264 | 8427 | 8590 | 8753 | 8917 | 9080 | 9243 | 237 | 8 | 9559 |
| 24 | 9 | | 6908 | 7071 | 7234 | 7397 | 7560 | 7723 | 7885 | 8048 | 8211 | 8375 | 8538 | 8701 | 8861 | 9027 | 9190 | 2353 | 9516 | 233 | 9 | 9285 |
| 27 | 10 | 7 | 7184 | 7346 | 7509 | 7672 | 7834 | 7997 | 6160 | 8393 | 8486 | 8649 | 8811 | 8974 | 9137 | 9300 | 9463 | 9626 | 9789 | 220 | 10 | 3 9012 |
| 99 | 11 | 7 (0) | 7459 | 7621 | 7784 | 7947 | 8109 | 0272 | 8434 | 8597 | 8760 | 8923 | 9085 | 9248 | 9411 | 9574 | 9737 | 9900 | 0062 | 221 | 11 | 8738 |
| 32 | 12 | | 7734 | 7896 | 8059 | 8221 | 8384 | 8546 | 0709 | 8872 | 9034 | 9197 | 9359 | 9522 | 2685 | 9847 | 0010 | 0173 | 0336 | 212 | 12 | 8464 |
| 35 | 13 | | 8010 | 8172 | 8334 | 8496 | 8659 | 0821 | 8981 | 9146 | 9308 | 9471 | 9633 | 9796 | 9958 | 0121 | 0284 | 0446 | 0609 | 215 | 13 | 8190 |
| 37 | 14 | | 6285 | 8447 | 8609 | 8771 | 8934 | 9096 | 9258 | 9420 | 9583 | 9715 | 9907 | 0070 | 0232 | 0395 | 0557 | 0720 | 0882 | 210 | 14 | 7917 |
| 40 | 15 | 7 (8) | 8560 | 8722 | 8884 | 9046 | 9209 | 9371 | 9533 | 9695 | 9857 | 0019 | 0181 | 0344 | 0506 | 0668 | 0831 | 0993 | 1155 | 205 | 15 | 3 7643 |
| 43 | 16 | | 8836 | 8998 | 2160 | 9322 | 9483 | 9645 | 9807 | 9969 | 0131 | 0293 | 0455 | 0618 | 0780 | 0942 | 1104 | 1266 | 1428 | 201 | 16 | 7369 |
| 45 | 17 | | 9111 | 9273 | 9435 | 9597 | 9758 | 9920 | 0082 | 8244 | 0406 | 0568 | 0730 | 0892 | 1054 | 1215 | 1378 | 1540 | 1702 | 196 | 17 | 7095 |
| 48 | 18 | | 9387 | 9549 | 9710 | 9872 | 0033 | 0195 | 0357 | 0518 | 0680 | 0842 | 1004 | 1166 | 1327 | 1489 | 1651 | 1813 | 1975 | 192 | 16 | 6621 |
| 51 | 19 | | 9663 | 9824 | 9985 | 0147 | 0308 | 0470 | 0631 | 0793 | 0955 | 1116 | 1278 | 1440 | 1601 | 1763 | 1925 | 2086 | 2248 | 187 | 19 | 6547 |
| 53 | 20 | 7 (8) | 9938 | 0099 | 0261 | 0429 | 0583 | 0745 | 0906 | 1068 | 1229 | 1391 | 1552 | 1714 | 1875 | 2037 | 2198 | 2360 | 2592 | 183 | 20 | 3 6274 |
| 56 | 21 | 8 | 0214 | 0376 | 0536 | 0697 | 0858 | 1090 | 1181 | 1342 | 1504 | 1665 | 1826 | 1988 | 9149 | 9310 | 2472 | 2633 | 9795 | 178 | 21 | 6008 |
| 59 | 22 | | 0489 | 0650 | 0811 | 0972 | 1133 | 1295 | 1456 | 1617 | 1778 | 1939 | 2100 | 2262 | 2423 | 2584 | 2746 | 2907 | 3068 | 173 | 22 | 5726 |
| 61 | 93 | | 0765 | 0926 | 1087 | 1248 | 1409 | 1570 | 1731 | 1891 | 2053 | 2214 | 2375 | 2536 | 2697 | 2858 | 3019 | 3181 | 3349 | 169 | 93 | 5459 |
| 64 | 94 | | 1041 | 1901 | 1362 | 1523 | 1684 | 1845 | 2005 | 2166 | 2327 | 2488 | 2619 | 2810 | 2071 | 3139 | 3293 | 3454 | 3616 | 164 | 24 | 5178 |
| 67 | 25 | 8 | 1316 | 1477 | 1638 | 1798 | 1959 | 2120 | 2280 | 2441 | 2602 | 2762 | 2923 | 3084 | 3245 | 3406 | 3567 | 3728 | 3889 | 160 | 25 | 3 4903 |
| 70 | 96 | | 1592 | 1753 | 1913 | 2074 | 2234 | 2395 | 2555 | 2716 | 2876 | 3037 | 3198 | 3358 | 3519 | 3680 | 3811 | 4001 | 4162 | 155 | 26 | 4629 |
| 79 | 27 | | 1868 | 2098 | 2189 | 2349 | 2509 | 2670 | 2830 | 2990 | 3151 | 3311 | 3472 | 3633 | 3793 | 3954 | 4114 | 4275 | 4436 | 151 | 27 | 4355 |
| 75 | 28 | | 9144 | 2304 | 2464 | 2624 | 2784 | 2945 | 3105 | 3263 | 3126 | 3586 | 3746 | 3907 | 4067 | 4228 | 4388 | 4549 | 4709 | 146 | 26 | 4081 |
| 78 | 29 | | 2419 | 2579 | 2740 | 2900 | 3060 | 3220 | 3380 | 3510 | 3700 | 3861 | 4021 | 4181 | 4341 | 4502 | 4662 | 4823 | 4983 | 142 | 29 | 3807 |
| 80 | 30 | 8 | 9695 | 2855 | 3015 | 3175 | 3335 | 3495 | 3655 | 3815 | 3975 | 4135 | 4295 | 4455 | 4616 | 4776 | 4936 | 5096 | 5257 | 137 | 30 | 3 3533 |
| 83 | 31 | | 9971 | 3131 | 3291 | 3450 | 3610 | 3770 | 3930 | 4090 | 4250 | 4410 | 4570 | 4730 | 4890 | 5050 | 5210 | 5370 | 5530 | 132 | 31 | 3258 |
| 86 | 32 | | 3247 | 3407 | 3566 | 3726 | 3886 | 4015 | 4205 | 4365 | 4525 | 4684 | 4814 | 5004 | 5164 | 5394 | 5484 | 5644 | 5804 | 128 | 32 | 2984 |
| 88 | 33 | | 3523 | 3682 | 3842 | 4001 | 4161 | 4391 | 4480 | 4640 | 4799 | 4959 | 5119 | 5279 | 5438 | 5598 | 5758 | 5918 | 6078 | 123 | 33 | 2718 |
| 91 | 34 | | 3799 | 3958 | 4118 | 4977 | 4436 | 4596 | 4755 | 4915 | 6074 | 5234 | 5393 | 5553 | 5713 | 5872 | 6032 | 6192 | 6351 | 119 | 34 | 2435 |
| 94 | 35 | 8 | 4075 | 4231 | 4393 | 4553 | 4712 | 4871 | 5030 | 5190 | 5349 | 5509 | 5668 | 5827 | 5987 | 6146 | 6306 | 6466 | 6695 | 114 | 35 | 3 2161 |
| 96 | 36 | | 4351 | 4510 | 4669 | 4898 | 4987 | 5146 | 5306 | 5465 | 5694 | 5783 | 5943 | 6102 | 6261 | 6421 | 6580 | 6739 | 6899 | 110 | 36 | 1887 |
| 99 | 37 | | 4627 | 4786 | 4945 | 5104 | 5263 | 5429 | 5581 | 5740 | 5899 | 6058 | 6917 | 6376 | 6536 | 6695 | 6854 | 7013 | 7173 | 105 | 37 | 1612 |
| 102 | 38 | | 4903 | 5062 | 5291 | 5379 | 5538 | 5697 | 5856 | 6015 | 6174 | 6333 | 6492 | 6651 | 6810 | 6969 | 7128 | 7287 | 7447 | 100 | 38 | 1336 |
| 104 | 39 | | 5179 | 5338 | 5496 | 5655 | 5814 | 5972 | 6131 | 6290 | 6449 | 6608 | 6767 | 6996 | 7084 | 7243 | 7402 | 7561 | 7720 | 96 | 39 | 1063 |
| 107 | 40 | 8 | 5455 | 5614 | 5772 | 5931 | 6089 | 6248 | 6407 | 6565 | 6794 | 6883 | 7041 | 7200 | 7359 | 7518 | 7677 | 7835 | 7994 | 91 | 40 | 3 0789 |
| 110 | 41 | | 5731 | 5890 | 6048 | 6206 | 6365 | 6523 | 6682 | 6840 | 6999 | 7157 | 7316 | 7475 | 7633 | 7792 | 7951 | 8109 | 8268 | 87 | 41 | 0514 |
| 112 | 42 | | 6008 | 6166 | 6324 | 6482 | 6641 | 6799 | 5957 | 7116 | 7974 | 7432 | 7591 | 7749 | 7908 | 8066 | 8925 | 8383 | 8549 | 82 | 49 | 0240 |
| 115 | 43 | | 6284 | 6442 | 6600 | 6758 | 6916 | 7074 | 7233 | 7391 | 7549 | 7707 | 7866 | 6024 | 8182 | 6341 | 8499 | 8658 | 8816 | 78 | 43 | 2 9966 |
| 118 | 44 | | 6560 | 6718 | 6876 | 7034 | 7192 | 7350 | 7508 | 7666 | 7824 | 7982 | 8140 | 8299 | 8457 | 8615 | 8773 | 8939 | 9090 | 73 | 44 | 9691 |
| 120 | 45 | 8 | 6836 | 6994 | 7152 | 7310 | 7467 | 7625 | 7783 | 7941 | 8099 | 8257 | 8415 | 8573 | 8731 | 8889 | 9048 | 9906 | 9364 | 68 | 45 | 2 9416 |
| 123 | 46 | | 7119 | 7270 | 7428 | 7585 | 7743 | 7901 | 8059 | 8217 | 8374 | 8532 | 8690 | 8848 | 9006 | 9164 | 9329 | 9480 | 9638 | 64 | 46 | 9141 |
| 126 | 47 | | 7389 | 7546 | 7704 | 7861 | 8019 | 8177 | 8334 | 8499 | 8649 | 8807 | 8965 | 9123 | 9261 | 9438 | 9596 | 9754 | 9912 | 59 | 47 | 8867 |
| 128 | 40 | 6 (9) | 7665 | 7622 | 7980 | 8137 | 8295 | 8452 | 8610 | 8767 | 8925 | 9082 | 9240 | 9398 | 9555 | 9713 | 9871 | 0098 | 0186 | 65 | 48 | 8599 |
| 131 | 49 | | 7941 | 8099 | 8256 | 8413 | 8570 | 8728 | 8885 | 9043 | 9200 | 9357 | 9515 | 9672 | 9830 | 9988 | 0145 | 0303 | 0460 | 60 | 49 | 8317 |
| 134 | 50 | 8 (9) | 8218 | 8375 | 8532 | 8689 | 8846 | 9003 | 9161 | 9318 | 9175 | 9633 | 9790 | 9947 | 0105 | 0262 | 0420 | 0577 | 0734 | 46 | 50 | 2 8042 |
| 136 | 61 | | 8494 | 8651 | 8808 | 8965 | 9122 | 9279 | 9436 | 9593 | 9751 | 9908 | 0065 | 0222 | 0379 | 0537 | 0691 | 0851 | 1009 | 41 | 51 | 7768 |
| 139 | 62 | | 8771 | 8927 | 9084 | 9941 | 9398 | 9555 | 9712 | 9869 | 0026 | 0183 | 0340 | 0497 | 0654 | 0811 | 0968 | 1126 | 1983 | 36 | 52 | 7493 |
| 142 | 53 | | 9017 | 9284 | 9360 | 9517 | 9674 | 9831 | 9988 | 0144 | 0301 | 0458 | 0615 | 0772 | 0929 | 1086 | 1243 | 1400 | 1557 | 32 | 53 | 7218 |
| 144 | 54 | | 9324 | 9480 | 9637 | 9793 | 9950 | 0106 | 0263 | 0420 | 0577 | 0733 | 0890 | 1047 | 1204 | 1361 | 1518 | 1674 | 1831 | 27 | 54 | 6943 |
| 147 | 55 | 6 (9) | 9600 | 9756 | 9913 | 0069 | 0226 | 0382 | 0539 | 0695 | 0852 | 1009 | 1165 | 1322 | 1479 | 1635 | 1792 | 1949 | 2106 | 23 | 55 | 2 6668 |
| 158 | 66 | | 9877 | 0033 | 0189 | 0345 | 0502 | 0658 | 0814 | 0971 | 1127 | 1284 | 1440 | 1597 | 1763 | 1910 | 2067 | 2223 | 2380 | 18 | 56 | 6393 |
| 152 | 57 | 9 | 0153 | 0309 | 0465 | 0622 | 0778 | 0234 | 1090 | 1246 | 1483 | 1559 | 1716 | 1872 | 2028 | 2185 | 2341 | 2498 | 2654 | 14 | 67 | 6118 |
| 165 | 58 | | 8430 | 0586 | 0742 | 0898 | 1054 | 1210 | 1366 | 1522 | 1678 | 1834 | 1991 | 2147 | 2303 | 9460 | 2616 | 2772 | 2929 | 9 | 50 | 5843 |
| 158 | 89 | | 0706 | 0862 | 1018 | 1174 | 1330 | 1486 | 1642 | 1798 | 1954 | 2110 | 2266 | 2422 | 2578 | 2734 | 2891 | 3047 | 3203 | 6 | 59 | 5568 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 71° | Argumento Auxiliar. | 17′ | 16′ | 19′ | 20′ | 21′ | 22′ | 26′ | 24′ | 25′ | 22′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 7 | 7224 | 7380 | 7553 | 7718 | 7883 | 8047 | 8212 | 8377 | 8541 | 8766 | 8871 | 9035 | 9200 | 2325 | 9536 | 0695 | 6822 |
| 3 | 1 | 7 (8) | 7497 | 7551 | 7826 | 7990 | 8156 | 8312 | 8484 | 8648 | 8813 | 8977 | 9142 | 9307 | 2471 | 0636 | 6801 | 0965 | 0136 |
| 3 | 2 | | 7770 | 7934 | 8098 | 8263 | 8427 | 8591 | 8756 | 8920 | 9084 | 9249 | 9113 | 9578 | 9742 | 0907 | 0071 | 0236 | 0421 |
| 8 | 3 | | 6642 | 8207 | 8371 | 8535 | 8699 | 8863 | 6028 | 9122 | 9356 | 9520 | 9685 | 9849 | 0013 | 0178 | 0342 | 0507 | 0671 |
| 11 | 4 | | 8315 | 8479 | 8643 | 8807 | 8971 | 9135 | 6299 | 9464 | 9628 | 9792 | 9956 | 0120 | 0285 | 0449 | 0613 | 0777 | 0942 |
| 13 | 5 | 7 (8) | 6588 | 2752 | 8916 | 9080 | 9244 | 9467 | 9671 | 9735 | 2809 | 0023 | 0227 | 0392 | 0556 | 0720 | 0884 | 1048 | 1212 |
| 16 | 6 | | 6861 | 9025 | 9188 | 9352 | 6516 | 9680 | 9843 | 0007 | 6171 | 0335 | 0199 | 0663 | 0827 | 6961 | 1155 | 1316 | 1483 |
| 19 | 7 | | 9134 | 2227 | 9461 | 2624 | 2788 | 9052 | 6115 | 0270 | 0443 | 0627 | 0770 | 0934 | 1098 | 1262 | 1426 | 1520 | 1754 |
| 21 | 6 | | 2487 | 9570 | 9733 | 9897 | 2060 | 0224 | 0387 | 0551 | 0715 | 0878 | 1642 | 1206 | 1369 | 1533 | 1697 | 1861 | 2624 |
| 24 | 8 | | 8680 | 9843 | 2006 | 0129 | 0333 | 6426 | 2660 | 0823 | 0986 | 1150 | 1313 | 1477 | 1641 | 1804 | 1968 | 2131 | 2295 |
| 27 | 16 | 7 (8) | 8952 | 0116 | 0272 | 0442 | 2605 | 0768 | 0232 | 1095 | 1258 | 1422 | 1585 | 1748 | 1912 | 2075 | 2239 | 2402 | 2556 |
| 22 | 11 | 8 | 0225 | 2388 | 2551 | 0714 | 0878 | 1841 | 1204 | 1367 | 1530 | 1693 | 1857 | 2020 | 2183 | 2346 | 2510 | 2673 | 2836 |
| 32 | 12 | | 2168 | 0621 | 2824 | 2987 | 1150 | 1313 | 1475 | 1639 | 1802 | 1965 | 2128 | 2221 | 2454 | 2618 | 2781 | 2944 | 3167 |
| 35 | 13 | | 8771 | 0234 | 1097 | 1220 | 1422 | 1585 | 1748 | 1911 | 2074 | 2237 | 2400 | 2563 | 2726 | 2889 | 3052 | 3215 | 3378 |
| 37 | 14 | | 1045 | 1207 | 1370 | 1532 | 1695 | 1858 | 2620 | 9183 | 2346 | 2509 | 2871 | 2834 | 2097 | 3160 | 3323 | 3486 | 3649 |
| 42 | 15 | 8 | 1318 | 1480 | 1642 | 1865 | 1967 | 9130 | 2293 | 2455 | 2618 | 2780 | 2943 | 3106 | 3268 | 3431 | 3594 | 3757 | 3920 |
| 43 | 16 | | 1591 | 1753 | 1215 | 2078 | 2240 | 2402 | 2565 | 2727 | 2802 | 3052 | 3215 | 3377 | 3540 | 3703 | 3865 | 4028 | 4121 |
| 45 | 17 | | 1264 | 2026 | 2188 | 2380 | 2513 | 2275 | 2837 | 2299 | 3162 | 3324 | 3486 | 3649 | 3811 | 3274 | 4136 | 4269 | 4461 |
| 48 | 18 | | 8137 | 2262 | 2461 | 2223 | 2785 | 2947 | 3106 | 3272 | 3434 | 3596 | 3758 | 3921 | 4083 | 4246 | 4428 | 4570 | 4732 |
| 51 | 19 | | 8410 | 2572 | 2734 | 2826 | 3058 | 3220 | 3382 | 3544 | 3726 | 3868 | 4230 | 4192 | 4354 | 4517 | 4879 | 4841 | 5003 |
| 53 | 20 | 8 | 2683 | 2845 | 3267 | 3162 | 3330 | 3422 | 3654 | 3812 | 3278 | 4140 | 4302 | 4464 | 4626 | 4788 | 4950 | 5112 | 5274 |
| 56 | 21 | | 8957 | 3118 | 3280 | 3441 | 3603 | 3765 | 3927 | 4088 | 4250 | 4412 | 4574 | 4736 | 4807 | 5052 | 5221 | 5383 | 5545 |
| 59 | 22 | | 3230 | 3391 | 3553 | 3714 | 3878 | 4037 | 4129 | 4361 | 4522 | 4684 | 4846 | 5007 | 5169 | 5331 | 5493 | 5654 | 5816 |
| 61 | 23 | | 3503 | 3664 | 3826 | 3987 | 4149 | 4310 | 4471 | 1833 | 4724 | 4956 | 5118 | 5276 | 5441 | 5602 | 5764 | 5626 | 6087 |
| 64 | 24 | | 3776 | 3038 | 4099 | 4260 | 4421 | 4583 | 4744 | 4985 | 5067 | 5228 | 5389 | 5551 | 5712 | 5874 | 6036 | 6127 | 6358 |
| 67 | 25 | 8 | 4650 | 4211 | 4372 | 4533 | 4604 | 4855 | 5618 | 5178 | 5339 | 5500 | 5661 | 5823 | 5984 | 6145 | 6307 | 6468 | 6620 |
| 70 | 26 | | 4323 | 4484 | 4645 | 4806 | 4927 | 5128 | 5286 | 5450 | 5611 | 5772 | 5633 | 6095 | 6256 | 6417 | 6578 | 6739 | 6901 |
| 72 | 27 | | 4597 | 4757 | 4918 | 6279 | 6240 | 5401 | 5562 | 5722 | 5883 | 6044 | 6265 | 6366 | 6527 | 6688 | 6866 | 7611 | 7172 |
| 75 | 28 | | 4879 | 5031 | 3101 | 5352 | 5513 | 5673 | 5834 | 5995 | 6156 | 6317 | 6477 | 6638 | 6799 | 6966 | 7121 | 7282 | 7443 |
| 78 | 29 | | 6143 | 5324 | 5464 | 5625 | 5786 | 6246 | 8107 | 6267 | 6428 | 6586 | 6742 | 6616 | 7071 | 7232 | 7303 | 7583 | 7714 |
| 80 | 38 | 6 | 6417 | 6877 | 6738 | 5808 | 8058 | 6212 | 6379 | 6540 | 6786 | 6861 | 7621 | 7182 | 7343 | 7503 | 7664 | 7825 | 7986 |
| 83 | 31 | | 6666 | 5831 | 6811 | 6171 | 8331 | 6402 | 6682 | 6812 | 0973 | 7133 | 7204 | 7454 | 7615 | 7773 | 7936 | 8006 | 8257 |
| 86 | 32 | | 5964 | 6124 | 6284 | 6444 | 6624 | 6765 | 8925 | 7088 | 7245 | 7428 | 7566 | 7722 | 7886 | 8047 | 0228 | 8368 | 8528 |
| 88 | 33 | | 8238 | 6397 | 6857 | 6717 | 6877 | 7837 | 7127 | 7357 | 7518 | 7678 | 7038 | 7998 | 8158 | 8319 | 8479 | 8630 | 0790 |
| 91 | 34 | | 8511 | 6671 | 6831 | 6221 | 7150 | 7312 | 7478 | 7830 | 7790 | 7050 | 8116 | 8272 | 8436 | 2590 | 0756 | 8211 | 9071 |
| 24 | 38 | 6 | 8785 | 6944 | 7164 | 7264 | 7423 | 7583 | 7743 | 7903 | 8063 | 8222 | 0382 | 6642 | 8702 | 8862 | 2022 | 9182 | 9342 |
| 96 | 36 | | 7256 | 7218 | 7377 | 7637 | 7226 | 7856 | 8616 | 0175 | 8335 | 8405 | 8855 | 8814 | 8274 | 9134 | 2294 | 9454 | 0514 |
| 99 | 37 | | 7332 | 7491 | 7651 | 7810 | 7970 | 6122 | 8280 | 8448 | 8608 | 6787 | 2227 | 9086 | 9242 | 9488 | 2565 | 9726 | 9885 |
| 102 | 36 | 8 (9) | 7606 | 7765 | 7924 | 6883 | 8243 | 8402 | 6861 | 8721 | 8880 | 0040 | 9192 | 9359 | 6518 | 9678 | 9837 | 9967 | 6166 |
| 104 | 39 | | 7679 | 6038 | 6198 | 8387 | 8512 | 8875 | 8834 | 6994 | 0183 | 9312 | 9471 | 9631 | 9790 | 6952 | 0100 | 0268 | 0498 |
| 167 | 48 | 8 (9) | 8153 | 8312 | 8471 | 8636 | 8789 | 6042 | 9107 | 9260 | 9426 | 9585 | 2744 | 9003 | 0062 | 2221 | 6381 | 2546 | 0690 |
| 110 | 41 | | 8427 | 8586 | 8746 | 8803 | 9062 | 2221 | 0380 | 6539 | 9698 | 6857 | 2016 | 0175 | 2334 | 2463 | 6653 | 2212 | 0271 |
| 112 | 42 | | 6701 | 8859 | 9018 | 8177 | 9336 | 9404 | 2653 | 9812 | 2971 | 2130 | 8289 | 0447 | 2606 | 0765 | 0924 | 1083 | 1242 |
| 115 | 43 | | 8975 | 6133 | 9222 | 9466 | 9669 | 9767 | 2926 | 8085 | 6243 | 2422 | 8561 | 2722 | 6670 | 1237 | 1105 | 1358 | 1814 |
| 118 | 44 | | 9240 | 6467 | 8665 | 9784 | 9082 | 0041 | 0120 | 0358 | 0512 | 2675 | 8833 | 2999 | 1181 | 1369 | 1468 | 1627 | 1788 |
| 120 | 48 | 6 (2) | 9528 | 6681 | 9839 | 9997 | 0165 | 0314 | 0472 | 2831 | 2789 | 2047 | 1106 | 1264 | 1423 | 1581 | 1740 | 1820 | 9057 |
| 123 | 46 | | 9796 | 9954 | 0112 | 0271 | 0429 | 2587 | 6745 | 0003 | 1062 | 1222 | 1378 | 1837 | 1695 | 1254 | 2012 | 2178 | 8390 |
| 126 | 47 | 9 | 8672 | 2828 | 6386 | 0544 | 0762 | 2866 | 1018 | 1172 | 1335 | 1493 | 1651 | 1002 | 1267 | 2126 | 2284 | 8442 | 2821 |
| 128 | 40 | | 0344 | 0562 | 0660 | 9810 | 0976 | 1133 | 1291 | 1449 | 1607 | 1785 | 1223 | 9062 | 2246 | 2528 | 2558 | 2714 | 2872 |
| 131 | 49 | | 0618 | 6776 | 0933 | 1691 | 1249 | 1407 | 1565 | 1722 | 1680 | 9038 | 2126 | 2354 | 2512 | 2670 | 2828 | 8986 | 3144 |
| 134 | 50 | 9 | 0802 | 1080 | 1227 | 1365 | 1822 | 1682 | 1838 | 1995 | 2133 | 2611 | 2460 | 2626 | 2764 | 2942 | 3100 | 3258 | 3416 |
| 136 | 61 | | 1166 | 1323 | 1481 | 1638 | 1796 | 1953 | 2111 | 9280 | 2426 | 2684 | 9741 | 9629 | 3287 | 3214 | 3372 | 3530 | 3688 |
| 139 | 68 | | 1442 | 1897 | 1755 | 1918 | 2689 | 2227 | 2304 | 9342 | 8690 | 9856 | 3214 | 3171 | 3322 | 3487 | 3644 | 3282 | 3980 |
| 142 | 53 | | 1714 | 1871 | 2028 | 2186 | 9343 | 9820 | 2667 | 2215 | 2972 | 3129 | 3227 | 3444 | 3621 | 3782 | 3916 | 4074 | 4231 |
| 144 | 54 | | 1988 | 2145 | 2302 | 2459 | 8616 | 8773 | 2931 | 3208 | 3245 | 3482 | 3589 | 3717 | 3874 | 4231 | 4182 | 4346 | 4803 |
| 147 | 55 | 9 | 2282 | 2410 | 2576 | 2733 | 2896 | 3047 | 3804 | 3321 | 3518 | 3678 | 3832 | 3969 | 4146 | 4304 | 4481 | 4618 | 4775 |
| 150 | 36 | | 2537 | 2893 | 2650 | 3807 | 3164 | 3392 | 3477 | 3234 | 3721 | 3948 | 4105 | 4262 | 4419 | 4576 | 4733 | 4892 | 5047 |
| 152 | 87 | | 2811 | 2967 | 3124 | 3261 | 3437 | 3824 | 3751 | 3907 | 4864 | 4221 | 4370 | 4534 | 4891 | 4048 | 8085 | 5182 | 5310 |
| 155 | 58 | | 3065 | 3241 | 3398 | 3854 | 3711 | 3867 | 4024 | 4181 | 4337 | 4494 | 4850 | 4807 | 4964 | 5121 | 5277 | 5434 | 5591 |
| 158 | 59 | | 3356 | 3518 | 3672 | 3828 | 3965 | 4141 | 4227 | 4454 | 4810 | 4767 | 4923 | 5088 | 5238 | 5393 | 5558 | 5708 | 5853 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 71° | Núm. |
|---|---|---|
| 0 | 6′ | 7 4433 |
| 5 | 1 | 4707 |
| 9 | 2 | 4682 |
| 14 | 3 | 5257 |
| 18 | 4 | 5532 |
| 23 | 5 | 7 5867 |
| 28 | 6 | 6683 |
| 32 | 7 | 6358 |
| 37 | 8 | 6633 |
| 41 | 9 | 6968 |
| 46 | 16 | 7 7184 |
| 51 | 11 | 7456 |
| 55 | 12 | 7734 |
| 60 | 13 | 8610 |
| 61 | 14 | 8285 |
| 69 | 15 | 7 8561 |
| 74 | 16 | 8836 |
| 78 | 17 | 9111 |
| 83 | 18 | 9387 |
| 87 | 19 | 9663 |
| 92 | 22 | 7 6938 |
| 07 | 21 | 6 6214 |
| 191 | 22 | 2486 |
| 106 | 23 | 2765 |
| 110 | 24 | 1041 |
| 118 | 25 | 6 1316 |
| 126 | 26 | 1502 |
| 124 | 27 | 1868 |
| 126 | 28 | 2144 |
| 133 | 29 | 2420 |
| 136 | 38 | 8 2695 |
| 143 | 31 | 2971 |
| 147 | 32 | 3247 |
| 152 | 33 | 3523 |
| 156 | 34 | 3796 |
| 161 | 35 | 8 4675 |
| 166 | 38 | 4351 |
| 170 | 37 | 4627 |
| 175 | 36 | 4023 |
| 179 | 39 | 5179 |
| 164 | 48 | 6 3455 |
| 180 | 41 | 5731 |
| 163 | 42 | 8008 |
| 198 | 43 | 8284 |
| 262 | 44 | 6560 |
| 207 | 48 | 8 6836 |
| 212 | 46 | 7112 |
| 216 | 47 | 7389 |
| 221 | 46 | 7665 |
| 225 | 42 | 7041 |
| 230 | 50 | 8 8218 |
| 235 | 61 | 8494 |
| 239 | 52 | 6771 |
| 244 | 53 | 9047 |
| 240 | 54 | 2394 |
| 283 | 68 | 8 9662 |
| 258 | 56 | 9877 |
| 262 | 57 | 8 8153 |
| 267 | 58 | 0438 |
| 271 | 59 | 0766 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | | Num. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 72° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 10' | 16' | Partes para segundos. | 72° | Núm. |
| 0 | 6' | 9 | 0083 | 1138 | 1204 | 1450 | 1606 | 1762 | 1916 | 2073 | 2220 | 2385 | 2541 | 2607 | 2853 | 3069 | 3125 | 3321 | 3477 | 276 | 0' | 2 5293 |
| 3 | 1 | | 1260 | 1415 | 1571 | 1726 | 1282 | 2038 | 6103 | 2346 | 2505 | 2661 | 2816 | 2072 | 3128 | 3284 | 3440 | 3526 | 3766 | 271 | 1 | 2616 |
| 6 | 2 | | 1536 | 1602 | 1847 | 2003 | 6158 | 2314 | 2466 | 0625 | 2780 | 2936 | 3092 | 3247 | 3463 | 3550 | 3715 | 3870 | 4626 | 267 | 2 | 4743 |
| 8 | 3 | | 1813 | 1968 | 2124 | 2279 | 2434 | 2500 | 0745 | 2601 | 3056 | 3212 | 3367 | 3523 | 3679 | 3934 | 3686 | 4145 | 4301 | 262 | 3 | 4468 |
| 10 | 4 | | 6069 | 2245 | 2409 | 2555 | 6711 | 2866 | 3621 | 3176 | 3332 | 3487 | 3646 | 3798 | 3053 | 4109 | 4264 | 4426 | 4575 | 258 | 4 | 4193 |
| 13 | 5 | 9 | 2367 | 2522 | 2677 | 2832 | 2987 | 3142 | 3297 | 3456 | 3607 | 3763 | 3618 | 4073 | 4228 | 4384 | 4530 | 4694 | 4950 | 253 | 5 | 2 3617 |
| 15 | 6 | | 2643 | 2798 | 2953 | 3168 | 3263 | 3418 | 3573 | 3728 | 3883 | 4038 | 4103 | 4348 | 4593 | 4656 | 4814 | 4066 | 5124 | 248 | 6 | 3642 |
| 18 | 7 | | 2029 | 3075 | 3239 | 3384 | 3636 | 3094 | 3840 | 4604 | 4159 | 4314 | 4469 | 4624 | 4779 | 4634 | 5089 | 5244 | 5362 | 244 | 7 | 3367 |
| 20 | 8 | | 3197 | 3352 | 3502 | 3661 | 3816 | 3970 | 4125 | 4280 | 4434 | 4589 | 4744 | 4899 | 5054 | 5206 | 5364 | 5619 | 5674 | 236 | 8 | 3092 |
| 23 | 0 | | 3474 | 3628 | 3783 | 3037 | 4092 | 4246 | 4401 | 4556 | 4710 | 4965 | 5020 | 5174 | 5320 | 6494 | 5630 | 5763 | 5648 | 235 | 9 | 2816 |
| 25 | 16 | 0 | 3731 | 3005 | 4059 | 4214 | 4368 | 4523 | 4677 | 4831 | 4086 | 5140 | 6295 | 5450 | 5664 | 5759 | 5013 | 6068 | 2263 | 230 | 10 | 2 2541 |
| 08 | 11 | | 4668 | 4182 | 4336 | 4409 | 4645 | 4706 | 4053 | 5167 | 6262 | 6416 | 5571 | 5725 | 5660 | 6634 | 6188 | 6343 | 0468 | 225 | 11 | 2266 |
| 30 | 12 | | 4365 | 4456 | 4613 | 4767 | 4021 | 5676 | 6226 | 5383 | 5538 | 5692 | 5846 | 6000 | 0155 | 2309 | 6463 | 6618 | 6772 | 221 | 12 | 1096 |
| 33 | 13 | | 4582 | 4736 | 4989 | 5043 | 5167 | 5351 | 5505 | 5650 | 5213 | 5068 | 6122 | 6276 | 6430 | 6584 | 6736 | 6863 | 7047 | 216 | 13 | 1715 |
| 35 | 14 | | 4659 | 5612 | 5166 | 5320 | 5474 | 5629 | 5762 | 5635 | 2686 | 6243 | 6397 | 6551 | 6705 | 6859 | 7014 | 7168 | 7322 | 212 | 14 | 1430 |
| 38 | 15 | 9 | 5136 | 5296 | 5443 | 5597 | 5756 | 5984 | 6658 | 6212 | 6365 | 6510 | 6673 | 6867 | 6081 | 7135 | 7289 | 7443 | 7597 | 207 | 15 | 2 1164 |
| 40 | 12 | | 5413 | 5566 | 5720 | 5873 | 6627 | 6180 | 6334 | 6488 | 2241 | 6795 | 6046 | 7102 | 7256 | 7410 | 7504 | 7717 | 7871 | 202 | 12 | 0889 |
| 43 | 17 | | 5600 | 5843 | 5696 | 6150 | 6363 | 6457 | 6010 | 6764 | 2917 | 7271 | 7224 | 7376 | 7531 | 7685 | 7930 | 7966 | 6146 | 168 | 17 | 0613 |
| 45 | 18 | | 5667 | 6120 | 6273 | 6427 | 6580 | 6733 | 6896 | 7246 | 7193 | 7347 | 7506 | 7053 | 7807 | 7960 | 8114 | 6667 | 2421 | 193 | 10 | 2337 |
| 48 | 19 | | 6244 | 6397 | 6550 | 6763 | 6856 | 7610 | 7123 | 7312 | 7466 | 7622 | 7776 | 7928 | 6082 | 6236 | 6389 | 8543 | 8606 | 189 | 19 | 2062 |
| 66 | 20 | 9 | 6501 | 6674 | 6827 | 6980 | 7133 | 7696 | 7436 | 7592 | 7745 | 7898 | 6051 | 8204 | 8358 | 6511 | 8664 | 8818 | 8071 | 164 | 20 | 1 9786 |
| 53 | 21 | | 6798 | 6951 | 7104 | 7257 | 7416 | 7563 | 7715 | 7869 | 6661 | 6174 | 6367 | 8480 | 6633 | 8786 | 6646 | 9693 | 9646 | 179 | 21 | 9511 |
| 56 | 20 | | 7076 | 7228 | 7381 | 7634 | 7686 | 7836 | 7992 | 8145 | 9267 | 8456 | 8603 | 8756 | 8909 | 6662 | 9215 | 6368 | 9521 | 175 | 22 | 0235 |
| 58 | 23 | | 7353 | 7006 | 7659 | 7810 | 7063 | 8116 | 8268 | 8421 | 8573 | 8706 | 8876 | 9032 | 0184 | 9337 | 6499 | 6643 | 6796 | 172 | 23 | 8659 |
| 61 | 24 | 9 (2) | 7630 | 7782 | 7635 | 8087 | 8246 | 8396 | 8545 | 6697 | 8650 | 2002 | 9155 | 6307 | 6469 | 6213 | 6765 | 9919 | 2071 | 166 | 24 | 8684 |
| 63 | 25 | 9 (0) | 7967 | 8060 | 8212 | 8364 | 9516 | 8669 | 8821 | 8973 | 9126 | 9678 | 9431 | 9583 | 6736 | 9888 | 6041 | 0193 | 0346 | 161 | 25 | 1 8498 |
| 66 | 26 | | 8185 | 8337 | 8489 | 9641 | 8703 | 8945 | 6007 | 6250 | 6402 | 6554 | 6767 | 6850 | 0911 | 0164 | 6316 | 0462 | 0621 | 156 | 26 | 8130 |
| 68 | 27 | | 8466 | 8614 | 8766 | 8618 | 6070 | 6222 | 9374 | 9526 | 6678 | 6930 | 9683 | 0135 | 6087 | 0439 | 0591 | 0744 | 0896 | 152 | 27 | 7856 |
| 71 | 28 | | 8736 | 0961 | 9643 | 9125 | 9347 | 6499 | 9651 | 9802 | 9654 | 0106 | 6258 | 6411 | 0563 | 0715 | 0867 | 1019 | 1171 | 147 | 28 | 7592 |
| 73 | 29 | | 9017 | 0169 | 9320 | 6472 | 6623 | 6775 | 6007 | 0679 | 0231 | 0383 | 6534 | 0686 | 6838 | 0600 | 1142 | 1264 | 1446 | 143 | 29 | 7362 |
| 76 | 30 | 0 (6) | 9694 | 9446 | 0567 | 9749 | 6666 | 0652 | 0204 | 0355 | 0507 | 0650 | 6816 | 6962 | 1114 | 1266 | 1418 | 1076 | 1721 | 138 | 30 | 1 7029 |
| 78 | 31 | | 9572 | 6763 | 9874 | 6626 | 6177 | 0329 | 6460 | 9632 | 0793 | 0935 | 1667 | 1238 | 1366 | 1541 | 1693 | 1845 | 1997 | 133 | 31 | 6753 |
| 81 | 32 | | 6840 | 6000 | 6122 | 0303 | 0454 | 9606 | 0767 | 0908 | 1060 | 1211 | 1363 | 1514 | 1666 | 1817 | 1969 | 2120 | 0272 | 120 | 32 | 6477 |
| 83 | 33 | 0 | 0126 | 6278 | 6469 | 0580 | 6731 | 0882 | 1031 | 1185 | 1330 | 1497 | 1632 | 1790 | 1941 | 2063 | 2244 | 2366 | 2547 | 124 | 33 | 2201 |
| 86 | 34 | | 0464 | 0556 | 6706 | 6857 | 1906 | 1152 | 1310 | 1461 | 1612 | 1764 | 1615 | 2066 | 6617 | 2369 | 6520 | 2671 | 2622 | 126 | 34 | 2025 |
| 98 | 35 | 0 | 0686 | 0832 | 9983 | 1134 | 1265 | 1436 | 1587 | 1738 | 1886 | 2040 | 2191 | 2342 | 2463 | 2644 | 2765 | 2647 | 3698 | 110 | 35 | 1 6642 |
| 91 | 36 | | 0956 | 1110 | 1261 | 1411 | 1626 | 1713 | 1864 | 2014 | 2165 | 2316 | 2467 | 6619 | 2766 | 2920 | 3071 | 3222 | 3373 | 110 | 36 | 5373 |
| 93 | 37 | | 1237 | 1387 | 1538 | 1688 | 1636 | 1960 | 2140 | 2291 | 2442 | 2592 | 2743 | 2894 | 3045 | 3166 | 3347 | 3469 | 3649 | 106 | 37 | 6097 |
| 66 | 38 | | 1514 | 1665 | 1815 | 1006 | 2116 | 2267 | 2417 | 2568 | 6718 | 2806 | 3019 | 3170 | 3321 | 3471 | 3622 | 3773 | 3924 | 101 | 36 | 4821 |
| 98 | 39 | | 1792 | 1946 | 2093 | 2643 | 2303 | 6544 | 2664 | 6644 | 2665 | 3145 | 3220 | 3446 | 3507 | 3747 | 3808 | 4040 | 4192 | 97 | 39 | 4542 |
| 101 | 40 | 2 | 2070 | 2229 | 2370 | 2526 | 2670 | 2829 | 2971 | 3121 | 3271 | 3460 | 3272 | 3722 | 3873 | 4023 | 4174 | 4364 | 4476 | 92 | 46 | 1 4262 |
| 104 | 41 | | 2347 | 2427 | 2647 | 2767 | 2047 | 3007 | 3248 | 3398 | 3542 | 3698 | 3848 | 3999 | 4140 | 4200 | 4440 | 4690 | 4750 | 67 | 41 | 3092 |
| 106 | 42 | | 2205 | 2775 | 2965 | 3075 | 3225 | 3374 | 3504 | 3674 | 3925 | 3074 | 4126 | 4275 | 4425 | 4575 | 4725 | 4876 | 5026 | 83 | 42 | 3716 |
| 100 | 43 | | 2023 | 3053 | 3092 | 3352 | 3502 | 3656 | 3901 | 3951 | 4101 | 4251 | 4421 | 4521 | 4701 | 4251 | 5301 | 5151 | 5321 | 78 | 43 | 3442 |
| 111 | 44 | | 3181 | 3330 | 3480 | 3629 | 3772 | 3029 | 4078 | 4628 | 4378 | 4528 | 4677 | 4227 | 4977 | 5127 | 5277 | 5427 | 5577 | 74 | 44 | 3124 |
| 114 | 45 | 2 | 3458 | 3608 | 3727 | 3967 | 4056 | 4296 | 4355 | 4505 | 4254 | 4864 | 4054 | 5103 | 5253 | 5403 | 2653 | 5702 | 5852 | 69 | 45 | 1 2882 |
| 116 | 46 | | 3736 | 3885 | 4035 | 4184 | 4334 | 4483 | 4630 | 4786 | 4031 | 5081 | 5230 | 5300 | 5529 | 5670 | 5828 | 5976 | 6128 | 64 | 46 | 2611 |
| 110 | 47 | | 4214 | 4163 | 4310 | 4462 | 4611 | 4722 | 4900 | 5050 | 5202 | 5327 | 5227 | 2656 | 5600 | 6955 | 6124 | 6253 | 6403 | 60 | 47 | 2332 |
| 121 | 40 | | 4202 | 4441 | 4590 | 4739 | 4808 | 5037 | 5166 | 5336 | 5485 | 5634 | 5783 | 5032 | 6002 | 6231 | 6380 | 6529 | 6672 | 25 | 40 | 2059 |
| 124 | 42 | | 4570 | 4710 | 4867 | 5016 | 5165 | 5314 | 5463 | 5612 | 5761 | 5010 | 6960 | 6200 | 6358 | 6507 | 6656 | 6905 | 6954 | 51 | 49 | 1782 |
| 126 | 20 | 0 | 4848 | 4096 | 5142 | 5204 | 5443 | 5592 | 5740 | 5880 | 2030 | 6187 | 6336 | 6482 | 6234 | 6723 | 6932 | 7261 | 7239 | 46 | 66 | 1 1226 |
| 122 | 21 | | 6126 | 6274 | 5423 | 5571 | 5700 | 5866 | 6019 | 6166 | 6312 | 6464 | 2613 | 2761 | 6910 | 7600 | 7298 | 7357 | 7506 | 41 | 51 | 1229 |
| 131 | 22 | | 5484 | 5652 | 5701 | 5640 | 2997 | 2146 | 6295 | 6443 | 6592 | 6742 | 6289 | 7032 | 7127 | 7335 | 7484 | 7633 | 7792 | 37 | 52 | 0923 |
| 134 | 53 | | 2682 | 5830 | 5078 | 6127 | 6275 | 6423 | 6572 | 2720 | 6669 | 7017 | 7162 | 7314 | 7463 | 7611 | 7760 | 7020 | 8057 | 32 | 53 | 2276 |
| 136 | 54 | | 2060 | 6106 | 6056 | 6464 | 2552 | 6761 | 6849 | 6997 | 7146 | 7204 | 7442 | 7621 | 7732 | 7268 | 0036 | 6185 | 8333 | 28 | 24 | 2400 |
| 139 | 55 | 0 | 6238 | 6386 | 6534 | 6282 | 6830 | 6278 | 7126 | 7274 | 7422 | 7571 | 7719 | 7927 | 8015 | 6164 | 6312 | 8461 | 8609 | 23 | 55 | 1 0123 |
| 141 | 56 | | 6516 | 6664 | 6812 | 6252 | 7107 | 7255 | 7403 | 7551 | 7609 | 7847 | 7906 | 2144 | 8292 | 2446 | 8528 | 8737 | 8285 | 18 | 56 | 0 9246 |
| 144 | 57 | | 6704 | 6042 | 7080 | 7237 | 7382 | 7533 | 7681 | 7822 | 7072 | 8124 | 6272 | 2420 | 8668 | 8716 | 8824 | 2013 | 0161 | 14 | 57 | 9572 |
| 146 | 58 | | 7070 | 7220 | 7367 | 7515 | 7662 | 7810 | 7058 | 8106 | 8253 | 8421 | 6640 | 2697 | 8845 | 9993 | 0141 | 0289 | 9437 | 9 | 56 | 0294 |
| 149 | 29. | | 7350 | 7498 | 7645 | 7723 | 7940 | 9082 | 2232 | 2383 | 8532 | 8672 | 8826 | 8973 | 0121 | 0220 | 0417 | 0565 | 2712 | 2 | 59 | 9017 |

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TABLA X. Numero I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 72° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos | 72° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 9 | 3033 | 3729 | 3046 | 4102 | 4258 | 4415 | 4571 | 4727 | 4883 | 5949 | 5196 | 5363 | 5599 | 5665 | 5022 | 5979 | 6135 | 0 | 0' | 9 8993 |
| 3 | 1 | | 3098 | 4064 | 4220 | 4376 | 4532 | 4088 | 4844 | 5000 | 5157 | 5313 | 5409 | 5625 | 5782 | 5938 | 6994 | 6251 | 6497 | 5 | 1 | 1266 |
| 5 | 2 | | 4182 | 4338 | 1404 | 4650 | 4806 | 4902 | 5118 | 5274 | 5430 | 5586 | 5742 | 5898 | 0954 | 6210 | 0367 | 6523 | 0679 | 9 | 2 | 1536 |
| 8 | 3 | | 4456 | 4612 | 1768 | 4024 | 5080 | 5235 | 5391 | 5547 | 5703 | 5859 | 6015 | 6171 | 6327 | 6483 | 6639 | 6795 | 0951 | 14 | 3 | 1813 |
| 19 | 4 | | 4731 | 4886 | 5042 | 5198 | 5353 | 5599 | 5665 | 5891 | 5976 | 6132 | 6288 | 6444 | 6690 | 6765 | 6911 | 7967 | 7923 | 18 | 4 | 2090 |
| 13 | 6 | 9 | 6006 | 5161 | 5316 | 5472 | 6627 | 5793 | 5938 | 6094 | 6250 | 6405 | 6561 | 6717 | 6872 | 7028 | 7184 | 7340 | 7495 | 23 | 5 | 9 2367 |
| 15 | 6 | | 6280 | 5435 | 5599 | 5746 | 6901 | 6050 | 6212 | 6367 | 6523 | 6678 | 6834 | 6989 | 7145 | 7391 | 7456 | 7612 | 7768 | 28 | 6 | 2643 |
| 18 | 7 | | 6354 | 5709 | 5864 | 6920 | 6175 | 6330 | 6405 | 6641 | 6796 | 6951 | 7197 | 7262 | 7418 | 7573 | 7729 | 7884 | 8940 | 32 | 7 | 2929 |
| 20 | 8 | | 6829 | 5984 | 6139 | 6294 | 6449 | 6694 | 6769 | 6914 | 7909 | 7225 | 7389 | 7535 | 7691 | 7846 | 8001 | 8157 | 8312 | 37 | 8 | 3197 |
| 23 | 2 | | 6103 | 6258 | 6113 | 6568 | 6723 | 6878 | 7033 | 7188 | 7343 | 7498 | 7653 | 7808 | 7963 | 8119 | 8274 | 8429 | 8584 | 42 | 9 | 3474 |
| 25 | 10 | 2 | 6378 | 6532 | 6687 | 6842 | 6997 | 7152 | 7396 | 7461 | 7516 | 7771 | 7926 | 8081 | 8236 | 8391 | 8546 | 9702 | 8857 | 46 | 10 | 9 3751 |
| 28 | 11 | | 6652 | 6897 | 6961 | 7116 | 7271 | 7425 | 7589 | 7735 | 7890 | 8015 | 8199 | 8354 | 8509 | 8664 | 8819 | 8974 | 9129 | 51 | 11 | 4028 |
| 30 | 12 | | 6927 | 7081 | 7236 | 7390 | 7545 | 7699 | 7854 | 8009 | 8163 | 8318 | 8473 | 8627 | 8782 | 8937 | 9092 | 9246 | 9491 | 55 | 12 | 4306 |
| 33 | 13 | | 7201 | 7356 | 7519 | 7664 | 7819 | 7973 | 8128 | 8282 | 8437 | 8591 | 8746 | 8900 | 9055 | 9210 | 9361 | 9519 | 9074 | 69 | 13 | 4582 |
| 36 | 14 | | 7476 | 7630 | 7784 | 7930 | 8093 | 9247 | 0491 | 8566 | 8710 | 8866 | 9919 | 9173 | 9328 | 9482 | 9637 | 9791 | 9946 | 65 | 14 | 4859 |
| 38 | 16 | 2 (9) | 7751 | 7995 | 8059 | 6213 | 8367 | 8521 | 8675 | 8829 | 8984 | 9138 | 9292 | 9447 | 9601 | 9755 | 9910 | 9964 | 9218 | 69 | 15 | 9 5136 |
| 41 | 16 | | 8025 | 8179 | 8333 | 8487 | 8641 | 0795 | 8949 | 9103 | 9257 | 9411 | 9565 | 9720 | 9874 | 0028 | 0182 | 0337 | 9491 | 74 | 16 | 6413 |
| 43 | 17 | | 8300 | 8461 | 8608 | 8761 | 8915 | 9969 | 9223 | 9377 | 9531 | 9685 | 9839 | 9993 | 0147 | 8301 | 0455 | 9609 | 0763 | 78 | 17 | 6690 |
| 46 | 18 | | 8575 | 8723 | 8882 | 9036 | 9189 | 9343 | 9497 | 9651 | 9804 | 0958 | 9112 | 0266 | 0429 | 0574 | 9728 | 0882 | 1036 | 83 | 18 | 6967 |
| 48 | 19 | | 8849 | 9903 | 9166 | 9310 | 9464 | 9617 | 9771 | 9924 | 0078 | 0232 | 9385 | 0539 | 9693 | 0847 | 1901 | 1154 | 1308 | 88 | 19 | 0244 |
| 61 | 20 | 9 (9) | 9124 | 9278 | 9131 | 9584 | 9738 | 9891 | 0046 | 0198 | 9352 | 0595 | 9659 | 0812 | 0966 | 1129 | 1273 | 1427 | 1581 | 92 | 90 | 9 0591 |
| 53 | 21 | | 9399 | 9562 | 9705 | 9859 | 8912 | 0165 | 0312 | 9472 | 0625 | 9779 | 0932 | 1086 | 1239 | 1393 | 1546 | 1790 | 1853 | 97 | 91 | 6798 |
| 66 | 29 | | 9074 | 9827 | 9980 | 0133 | 0286 | 0439 | 0593 | 9746 | 0899 | 1052 | 1206 | 1359 | 1512 | 1666 | 1819 | 1973 | 2126 | 192 | 22 | 7070 |
| 68 | 23 | | 2040 | 0192 | 0255 | 0408 | 0561 | 9714 | 0867 | 1020 | 1173 | 1326 | 1479 | 1632 | 1780 | 1939 | 2092 | 9245 | 2399 | 196 | 23 | 7353 |
| 61 | 24 | 0 | 8221 | 0376 | 0529 | 0682 | 9835 | 0988 | 1141 | 1294 | 1447 | 1600 | 1753 | 1906 | 2059 | 2212 | 2366 | 2518 | 2071 | 111 | 24 | 7630 |
| 64 | 25 | 0 | 8499 | 0651 | 0804 | 9956 | 1109 | 1262 | 1416 | 1568 | 1720 | 1873 | 2026 | 2179 | 2332 | 2485 | 2638 | 2791 | 2914 | 115 | 26 | 8 7907 |
| 66 | 26 | | 0773 | 0926 | 1078 | 1231 | 1381 | 1536 | 1689 | 1842 | 1994 | 2147 | 2309 | 2452 | 2605 | 2758 | 2911 | 3064 | 3217 | 120 | 26 | 8185 |
| 69 | 27 | | 1048 | 1201 | 1353 | 1506 | 1658 | 1810 | 1963 | 2116 | 2269 | 2421 | 9573 | 2726 | 2878 | 3931 | 3184 | 3337 | 3489 | 125 | 27 | 8462 |
| 71 | 20 | | 1323 | 1476 | 1628 | 1780 | 1932 | 2085 | 2237 | 2399 | 2542 | 2694 | 9847 | 2999 | 3152 | 3394 | 3457 | 3099 | 3762 | 129 | 98 | 8739 |
| 74 | 22 | | 1598 | 1750 | 1903 | 2955 | 2207 | 2359 | 2511 | 2664 | 2810 | 2968 | 3129 | 3273 | 3426 | 3678 | 3739 | 3882 | 4935 | 134 | 29 | 9017 |
| 76 | 38 | 0 | 1873 | 2026 | 2177 | 2329 | 2481 | 2633 | 2786 | 2938 | 3090 | 3242 | 3394 | 3540 | 3698 | 3851 | 4093 | 4155 | 4308 | 138 | 39 | 9 9294 |
| 79 | 31 | | 2148 | 9300 | 2452 | 2604 | 2750 | 2908 | 3060 | 3212 | 3361 | 3516 | 3669 | 3828 | 3972 | 4124 | 4276 | 4428 | 4680 | 143 | 31 | 9572 |
| 81 | 32 | | 2423 | 2576 | 2727 | 2879 | 3030 | 3182 | 3334 | 3486 | 3638 | 3790 | 3941 | 4093 | 4245 | 4397 | 4549 | 4791 | 4853 | 148 | 39 | 9849 |
| 84 | 33 | | 2699 | 2860 | 3002 | 3153 | 3306 | 3457 | 3608 | 3760 | 3912 | 4063 | 4215 | 4367 | 4519 | 4670 | 4822 | 4974 | 5126 | 152 | 33 | 8 0127 |
| 86 | 34 | | 2974 | 3126 | 3277 | 3428 | 3570 | 3731 | 3882 | 4034 | 4186 | 4337 | 4489 | 4640 | 4792 | 4944 | 5095 | 5247 | 5399 | 157 | 34 | 0404 |
| 89 | 35 | 0 | 3249 | 3100 | 3552 | 3783 | 3854 | 4005 | 4157 | 4308 | 4460 | 4511 | 4763 | 4914 | 5066 | 5217 | 5369 | 5520 | 5672 | 162 | 35 | 8 9682 |
| 21 | 36 | | 3624 | 3676 | 3825 | 3978 | 4129 | 4280 | 4431 | 4582 | 4734 | 4886 | 5030 | 5188 | 5339 | 5491 | 5642 | 5793 | 5915 | 106 | 36 | 0959 |
| 91 | 37 | | 3799 | 3950 | 4191 | 4252 | 4403 | 4554 | 4700 | 4857 | 5908 | 5159 | 5319 | 5461 | 5513 | 5764 | 5915 | 6966 | 6218 | 171 | 37 | 1237 |
| 27 | 38 | | 4075 | 4225 | 4376 | 4597 | 4678 | 4829 | 4980 | 5131 | 5282 | 5433 | 6584 | 5735 | 5886 | 6037 | 6188 | 6349 | 6401 | 175 | 38 | 1514 |
| 99 | 32 | | 4359 | 4501 | 4651 | 4802 | 4953 | 5194 | 5254 | 5405 | 5556 | 5707 | 5868 | 6009 | 6169 | 6311 | 6462 | 6613 | 6764 | 180 | 39 | 1792 |
| 102 | 40 | 0 | 4625 | 4776 | 4926 | 5077 | 5227 | 6378 | 5529 | 6680 | 5839 | 5981 | 6132 | 6282 | 6433 | 6584 | 5735 | 6886 | 7037 | 185 | 40 | 0 2979 |
| 104 | 41 | | 4900 | 5951 | 5201 | 5352 | 5502 | 5653 | 5893 | 5954 | 6104 | 6255 | 6496 | 0556 | 6707 | 6858 | 7898 | 7159 | 7319 | 189 | 41 | 2347 |
| 107 | 42 | | 6176 | 5326 | 5476 | 5627 | 5777 | 5927 | 6078 | 6228 | 6379 | 5529 | 6680 | 5830 | 0981 | 7131 | 7282 | 7432 | 7583 | 194 | 42 | 2625 |
| 109 | 43 | | 5451 | 5501 | 5751 | 5902 | 6052 | 0202 | 5352 | 6592 | 6653 | 6803 | 6954 | 7194 | 7954 | 7405 | 7555 | 7706 | 7856 | 198 | 43 | 9993 |
| 112 | 44 | | 5727 | 5876 | 6025 | 6177 | 6327 | 6477 | 6027 | 6777 | 6927 | 7077 | 7227 | 7378 | 7528 | 7678 | 7829 | 7979 | 8129 | 203 | 44 | 3181 |
| 114 | 45 | 0 | 6002 | 6152 | 6392 | 6452 | 6601 | 6751 | 6991 | 7051 | 7291 | 7351 | 7691 | 7652 | 7802 | 7052 | 8102 | 8252 | 8402 | 208 | 45 | 0 3458 |
| 117 | 46 | | 6277 | 6427 | 6577 | 6727 | 6876 | 7020 | 7176 | 7320 | 7476 | 7626 | 7775 | 7025 | 8075 | 8225 | 8375 | 8520 | 8575 | 212 | 46 | 3736 |
| 119 | 47 | | 0553 | 6702 | 6852 | 7902 | 7151 | 7301 | 7451 | 7600 | 7760 | 7900 | 8850 | 8199 | 8349 | 8499 | 8649 | 8799 | 8949 | 917 | 47 | 4014 |
| 122 | 48 | | 6828 | 6978 | 7127 | 7277 | 7426 | 7576 | 7725 | 7875 | 8024 | 8174 | 8324 | 8473 | 8623 | 8773 | 8922 | 9072 | 9222 | 222 | 48 | 4292 |
| 125 | 49 | | 7104 | 7253 | 7492 | 7552 | 7701 | 7859 | 8980 | 8149 | 8299 | 8448 | 8598 | 8747 | 8897 | 9046 | 9196 | 9346 | 9495 | 226 | 42 | 4579 |
| 197 | 50 | 8 | 7379 | 7528 | 7678 | 7827 | 7976 | 8125 | 8275 | 8424 | 8573 | 8722 | 8872 | 9021 | 9171 | 9320 | 9470 | 9019 | 9709 | 231 | 50 | 0 4848 |
| 130 | 51 | 0 (1) | 7655 | 7804 | 7953 | 8102 | 8251 | 8100 | 8549 | 8698 | 8848 | 8997 | 9146 | 9295 | 9445 | 9594 | 9743 | 9892 | 0042 | 235 | 51 | 5126 |
| 132 | 52 | | 7930 | 8079 | 8228 | 8377 | 8526 | 8675 | 8824 | 8973 | 9122 | 9271 | 9429 | 9559 | 9718 | 9858 | 9017 | 0106 | 0315 | 240 | 52 | 5494 |
| 135 | 53 | | 8206 | 8355 | 8504 | 8652 | 8801 | 8950 | 9099 | 9248 | 9397 | 9545 | 9694 | 0843 | 9992 | 0141 | 0299 | 0439 | 0589 | 245 | 53 | 5682 |
| 137 | 54 | | 8482 | 8630 | 8779 | 8928 | 9076 | 9225 | 9374 | 9529 | 9671 | 9920 | 9969 | 9117 | 0260 | 9416 | 0564 | 0713 | 0862 | 249 | 64 | 5960 |
| 140 | 55 | 0 (1) | 8757 | 8906 | 9054 | 9203 | 9351 | 9509 | 9648 | 9797 | 9946 | 0094 | 9243 | 0392 | 0540 | 0689 | 9838 | 0987 | 1136 | 254 | 55 | 8 0238 |
| 142 | 56 | | 9033 | 9181 | 9339 | 9478 | 9625 | 9775 | 9923 | 0072 | 0229 | 0369 | 0517 | 0666 | 9014 | 0903 | 1111 | 1260 | 1489 | 258 | 56 | 6516 |
| 145 | 57 | | 9309 | 9457 | 9605 | 9753 | 9902 | 0050 | 8198 | 0340 | 0495 | 0643 | 9791 | 0940 | 1088 | 1237 | 1305 | 1534 | 1582 | 203 | 57 | 6794 |
| 147 | 58 | | 9584 | 9732 | 9881 | 0029 | 0177 | 0325 | 0473 | 9021 | 0709 | 0918 | 1066 | 1214 | 1362 | 1511 | 1659 | 1897 | 1956 | 258 | 68 | 7072 |
| 150 | 59 | | 9860 | 0008 | 0156 | 8394 | 0452 | 9600 | 0748 | 0896 | 1844 | 1192 | 1349 | 1488 | 1636 | 1785 | 1933 | 2981 | 2229 | 272 | 60 | 7350 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 73° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 73° | Núm. |
| | | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | | | |
| 0 | 0' | 0 | 7628 | 7776 | 7923 | 6070 | 8218 | 8365 | 8513 | 6660 | 6607 | 6955 | 2103 | 9250 | 9396 | 9545 | 9693 | 9841 | 9268 | 277 | 0' | 0 8740 |
| 2 | 1 | 0 (1) | 7906 | 6054 | 8201 | 8348 | 8495 | 8643 | 8790 | 8937 | 9085 | 9232 | 9379 | 9527 | 9674 | 9822 | 9969 | 0117 | 0264 | 272 | 1 | 8464 |
| 5 | 2 | | 8185 | 8332 | 8479 | 8626 | 8773 | 8920 | 9067 | 9214 | 9362 | 9509 | 9656 | 9803 | 9951 | 0098 | 0245 | 0393 | 0540 | 268 | 2 | 8187 |
| 7 | 3 | | 8463 | 8610 | 8757 | 8904 | 9051 | 9198 | 9345 | 9492 | 9639 | 9786 | 9933 | 0080 | 0227 | 0374 | 0522 | 0669 | 0616 | 263 | 3 | 7910 |
| 10 | 4 | | 8741 | 8888 | 9035 | 2181 | 9328 | 2475 | 9622 | 9769 | 9916 | 0063 | 0210 | 0357 | 0504 | 0651 | 0798 | 0945 | 1092 | 258 | 4 | 7633 |
| 12 | 5 | 0 (1) | 9019 | 9166 | 9313 | 9459 | 9606 | 9753 | 9899 | 0046 | 0193 | 0340 | 0487 | 0634 | 0780 | 0927 | 1074 | 1221 | 1368 | 254 | 5 | 6 7357 |
| 14 | 6 | | 2298 | 9444 | 9591 | 9737 | 9884 | 0030 | 0177 | 0324 | 0470 | 0617 | 0764 | 0910 | 1057 | 1204 | 1351 | 1496 | 1644 | 249 | 6 | 7080 |
| 17 | 7 | | 2576 | 9722 | 9869 | 0015 | 0162 | 0308 | 0454 | 0601 | 0747 | 0894 | 1041 | 1187 | 1334 | 1480 | 1627 | 1774 | 1920 | 245 | 7 | 6803 |
| 19 | 8 | | 9854 | 0001 | 0147 | 0293 | 0439 | 0586 | 0732 | 0878 | 1025 | 1171 | 1318 | 1464 | 1610 | 1757 | 1903 | 2050 | 2197 | 240 | 8 | 6526 |
| 22 | 9 | 1 | 0133 | 0279 | 0425 | 0571 | 0717 | 0863 | 1010 | 1156 | 1302 | 1448 | 1525 | 1741 | 1887 | 2034 | 2180 | 2326 | 2473 | 235 | 9 | 6249 |
| 24 | 10 | 1 | 0411 | 0557 | 0703 | 0849 | 0995 | 1141 | 1287 | 1433 | 1579 | 1725 | 1872 | 2018 | 2164 | 2310 | 2456 | 2603 | 2749 | 231 | 10 | 0 5972 |
| 26 | 11 | | 0690 | 0835 | 0981 | 1127 | 1273 | 1419 | 1565 | 1711 | 1857 | 2003 | 2149 | 2295 | 2441 | 2587 | 2733 | 2879 | 3025 | 226 | 11 | 5695 |
| 29 | 12 | | 0968 | 1114 | 1259 | 1405 | 1551 | 1697 | 1842 | 1988 | 2134 | 2280 | 2426 | 2571 | 2717 | 2863 | 3009 | 3155 | 3301 | 222 | 12 | 5418 |
| 31 | 13 | | 1247 | 1392 | 1538 | 1683 | 1829 | 1974 | 2120 | 2266 | 2411 | 2557 | 2703 | 2848 | 2294 | 3140 | 3286 | 3432 | 3577 | 217 | 13 | 5141 |
| 33 | 14 | | 1525 | 1671 | 1816 | 1961 | 2107 | 2252 | 2398 | 2543 | 2689 | 2834 | 2980 | 3125 | 3271 | 3417 | 3562 | 3708 | 3854 | 212 | 14 | 4864 |
| 36 | 15 | 1 | 1804 | 1949 | 2094 | 2239 | 2385 | 2530 | 2675 | 2821 | 2966 | 3111 | 3257 | 3402 | 3548 | 3693 | 3839 | 3984 | 4130 | 208 | 15 | 0 4587 |
| 38 | 16 | | 2082 | 2227 | 2372 | 2518 | 2663 | 2808 | 2953 | 3098 | 3244 | 3389 | 3534 | 3679 | 3825 | 3970 | 4116 | 4261 | 4406 | 203 | 16 | 4310 |
| 41 | 17 | | 2361 | 2506 | 2651 | 2796 | 2941 | 3086 | 3231 | 3376 | 3521 | 3666 | 3811 | 3956 | 4102 | 4247 | 4392 | 4537 | 4683 | 198 | 17 | 4033 |
| 43 | 18 | | 2639 | 2784 | 2929 | 3074 | 3219 | 3364 | 3509 | 3653 | 3798 | 3943 | 4089 | 4233 | 4379 | 4524 | 4669 | 4814 | 4959 | 194 | 18 | 3756 |
| 45 | 19 | | 2918 | 3063 | 3207 | 3352 | 3497 | 3642 | 3786 | 3931 | 4076 | 4221 | 4366 | 4511 | 4656 | 4800 | 4945 | 5090 | 5235 | 189 | 12 | 3472 |
| 48 | 20 | 1 | 3197 | 3341 | 3486 | 3630 | 3775 | 3920 | 4064 | 4209 | 4354 | 4498 | 4643 | 4788 | 4933 | 5077 | 5222 | 5367 | 5512 | 185 | 20 | 0 3202 |
| 50 | 21 | | 3475 | 3620 | 3764 | 3909 | 4053 | 4198 | 4342 | 4487 | 4631 | 4776 | 4920 | 5065 | 5210 | 5354 | 5499 | 5643 | 5788 | 180 | 21 | 2224 |
| 53 | 22 | | 3754 | 3898 | 4043 | 4187 | 4331 | 4476 | 4620 | 4764 | 4909 | 5053 | 5198 | 5342 | 5487 | 5631 | 5776 | 5920 | 6065 | 175 | 22 | 2647 |
| 55 | 23 | | 4033 | 4177 | 4321 | 4465 | 4609 | 4754 | 4898 | 5042 | 5186 | 5331 | 5475 | 5619 | 5764 | 5908 | 6052 | 6197 | 6341 | 171 | 23 | 2370 |
| 57 | 24 | | 4312 | 4456 | 4600 | 4744 | 4888 | 5032 | 5176 | 5320 | 5464 | 5608 | 5752 | 5896 | 6041 | 6185 | 6329 | 6473 | 6618 | 166 | 24 | 2093 |
| 60 | 25 | 1 | 4590 | 4734 | 4878 | 5022 | 5166 | 5310 | 5454 | 5598 | 5741 | 5886 | 6030 | 6174 | 6318 | 6462 | 6606 | 6750 | 6894 | 162 | 25 | 0 1815 |
| 62 | 26 | | 4869 | 5013 | 5157 | 5300 | 5444 | 5588 | 5732 | 5875 | 6019 | 6163 | 6307 | 6451 | 6595 | 6739 | 6883 | 7027 | 7171 | 157 | 26 | 1538 |
| 65 | 27 | | 5148 | 5292 | 5435 | 5579 | 5722 | 5866 | 6010 | 6153 | 6297 | 6441 | 6584 | 6728 | 6872 | 7016 | 7160 | 7303 | 7447 | 152 | 27 | 1261 |
| 67 | 28 | | 5427 | 5570 | 5714 | 5857 | 6001 | 6144 | 6283 | 6431 | 6575 | 6718 | 6862 | 7005 | 7149 | 7293 | 7436 | 7580 | 7724 | 148 | 28 | 0983 |
| 69 | 29 | | 5706 | 5849 | 5992 | 6136 | 6279 | 6422 | 6566 | 6709 | 6852 | 6996 | 7139 | 7283 | 7426 | 7570 | 7713 | 7857 | 6001 | 143 | 29 | 0706 |
| 72 | 30 | 1 | 5985 | 6128 | 6271 | 6414 | 6557 | 6700 | 6844 | 6987 | 7130 | 7273 | 7417 | 7560 | 7703 | 7847 | 7990 | 8134 | 8277 | 138 | 30 | 0 0428 |
| 74 | 31 | | 6264 | 6407 | 6549 | 6692 | 6836 | 6979 | 7122 | 7265 | 7408 | 7551 | 7694 | 7837 | 7981 | 8124 | 8267 | 8411 | 8554 | 134 | 31 | 0151 |
| 77 | 32 | | 6543 | 6685 | 6828 | 6971 | 7114 | 7257 | 7400 | 7543 | 7686 | 7829 | 7272 | 8115 | 8258 | 8401 | 8544 | 8687 | 8831 | 129 | 32 | 9 9873 |
| 79 | 33 | | 6822 | 6964 | 7107 | 7250 | 7392 | 7535 | 7678 | 7821 | 7964 | 8106 | 8249 | 8392 | 8535 | 8678 | 8821 | 8964 | 9107 | 125 | 33 | 9596 |
| 81 | 34 | | 7101 | 7243 | 7386 | 7528 | 7671 | 7813 | 7956 | 8099 | 8241 | 8384 | 8527 | 8670 | 8813 | 8955 | 9098 | 9241 | 9384 | 120 | 34 | 9318 |
| 84 | 35 | 1 | 7380 | 7522 | 7664 | 7807 | 7949 | 8092 | 8234 | 8377 | 8519 | 8662 | 8805 | 8947 | 9090 | 9233 | 9375 | 9518 | 9661 | 115 | 35 | 9 9041 |
| 86 | 36 | | 7659 | 7801 | 7943 | 8085 | 8228 | 8370 | 8512 | 8655 | 8797 | 8940 | 9082 | 9225 | 9367 | 9510 | 9652 | 9795 | 9938 | 111 | 36 | 8763 |
| 88 | 37 | 1 (2) | 7938 | 8080 | 8222 | 8364 | 8506 | 8648 | 8791 | 8933 | 9075 | 9218 | 9360 | 9502 | 9645 | 9787 | 9930 | 0072 | 0214 | 106 | 37 | 8486 |
| 91 | 38 | | 8217 | 8359 | 8501 | 8643 | 8785 | 8927 | 9069 | 9211 | 9353 | 9495 | 9638 | 9780 | 9922 | 0064 | 0207 | 0349 | 0491 | 102 | 38 | 6208 |
| 93 | 39 | | 8496 | 8638 | 8779 | 8921 | 9063 | 9205 | 9347 | 9489 | 9631 | 9773 | 9915 | 0057 | 0199 | 0342 | 0484 | 0626 | 0768 | 27 | 39 | 7930 |
| 96 | 40 | 1 (2) | 8775 | 8917 | 9058 | 9200 | 9342 | 9484 | 9626 | 9767 | 9909 | 0051 | 0193 | 0335 | 0477 | 0619 | 0761 | 0903 | 1045 | 92 | 40 | 9 7653 |
| 98 | 41 | | 9034 | 9196 | 9337 | 9479 | 9620 | 9762 | 9904 | 0046 | 0187 | 0329 | 0471 | 0613 | 0754 | 0896 | 1038 | 1180 | 1322 | 68 | 41 | 7375 |
| 100 | 42 | | 9333 | 9475 | 9616 | 9758 | 9899 | 0041 | 0182 | 0324 | 0465 | 0607 | 0749 | 0890 | 1032 | 1174 | 1315 | 1457 | 1599 | 63 | 42 | 7097 |
| 103 | 43 | | 9612 | 9754 | 9895 | 0036 | 0178 | 0319 | 0460 | 0602 | 0743 | 0885 | 1026 | 1168 | 1309 | 1451 | 1593 | 1734 | 1876 | 78 | 43 | 6819 |
| 105 | 44 | | 9892 | 0033 | 0174 | 0315 | 0456 | 0598 | 0739 | 0880 | 1021 | 1163 | 1304 | 1446 | 1587 | 1728 | 1870 | 2011 | 2153 | 74 | 44 | 6542 |
| 108 | 45 | 2 | 0171 | 0312 | 0453 | 0594 | 0735 | 0876 | 1017 | 1158 | 1308 | 1441 | 1582 | 1723 | 1865 | 2006 | 2147 | 2288 | 2430 | 69 | 45 | 9 6264 |
| 110 | 46 | | 0450 | 0591 | 0732 | 0873 | 1014 | 1155 | 1296 | 1437 | 1578 | 1719 | 1860 | 2001 | 2142 | 2283 | 2424 | 2566 | 2707 | 65 | 46 | 5986 |
| 112 | 47 | | 0730 | 0870 | 1011 | 1152 | 1293 | 1433 | 1574 | 1715 | 1856 | 1997 | 2138 | 2279 | 2420 | 2561 | 2702 | 2843 | 2984 | 60 | 47 | 5708 |
| 115 | 48 | | 1009 | 1149 | 1290 | 1431 | 1571 | 1712 | 1853 | 1293 | 2134 | 2275 | 2416 | 2556 | 2697 | 2838 | 2979 | 3120 | 3261 | 55 | 48 | 5430 |
| 117 | 49 | | 1288 | 1429 | 1569 | 1710 | 1850 | 1991 | 2131 | 2272 | 2412 | 2553 | 2694 | 2834 | 2975 | 3116 | 3256 | 3397 | 3538 | 51 | 49 | 5152 |
| 120 | 50 | 2 | 1568 | 1708 | 1848 | 1989 | 2129 | 2269 | 2410 | 2550 | 2691 | 2831 | 2972 | 3112 | 3253 | 3393 | 3534 | 3674 | 3815 | 46 | 50 | 9 4874 |
| 122 | 51 | | 1847 | 1987 | 2127 | 2267 | 2408 | 2548 | 2688 | 2829 | 2969 | 3109 | 3250 | 3390 | 3530 | 3671 | 3811 | 3952 | 4092 | 42 | 51 | 4596 |
| 124 | 52 | | 2126 | 2266 | 2406 | 2546 | 2687 | 2827 | 2967 | 3107 | 3247 | 3387 | 3528 | 3668 | 3808 | 3948 | 4089 | 4229 | 4369 | 37 | 52 | 4318 |
| 127 | 53 | | 2406 | 2546 | 2686 | 2826 | 2965 | 3105 | 3245 | 3385 | 3525 | 3665 | 3806 | 3946 | 4086 | 4226 | 4366 | 4506 | 4647 | 32 | 53 | 4040 |
| 129 | 54 | | 2685 | 2825 | 2965 | 3105 | 3244 | 3384 | 3524 | 3664 | 3804 | 3944 | 4084 | 4224 | 4364 | 4504 | 4644 | 4784 | 4924 | 28 | 54 | 3762 |
| 132 | 55 | 2 | 2965 | 3104 | 3244 | 3384 | 3523 | 3663 | 3803 | 3942 | 4082 | 4222 | 4362 | 4502 | 4642 | 4781 | 4921 | 5061 | 5201 | 23 | 55 | 9 3481 |
| 134 | 56 | | 3214 | 3384 | 3523 | 3663 | 3802 | 3942 | 4081 | 4221 | 4361 | 4500 | 4640 | 4780 | 4919 | 5059 | 5199 | 5338 | 5478 | 18 | 56 | 3206 |
| 136 | 67 | | 3524 | 3663 | 3802 | 3942 | 4081 | 4221 | 4360 | 4500 | 4639 | 4778 | 4918 | 5058 | 5197 | 5337 | 5476 | 5616 | 5756 | 14 | 57 | 2928 |
| 139 | 58 | | 3803 | 3943 | 4082 | 4221 | 4360 | 4499 | 4639 | 4778 | 4917 | 5057 | 5196 | 5336 | 5475 | 5614 | 5754 | 5893 | 6033 | 9 | 58 | 2650 |
| 141 | 59 | | 4083 | 4222 | 4361 | 4500 | 4639 | 4778 | 4218 | 5057 | 5196 | 5335 | 5474 | 5614 | 5753 | 5892 | 6031 | 6171 | 6310 | 5 | 59 | 2372 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 73° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 26′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 36′ | 31′ | 32′ | 33′ | Partes para segundos. | 73° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0′ | 1 | 6136 | 6264 | 6431 | 0579 | 0727 | 6076 | 1023 | 1171 | 1319 | 1467 | 1615 | 1763 | 1911 | 9059 | 2207 | 2355 | 2505 | 0 | 0′ | 6 7620 |
| 2 | 1 | | 6412 | 0559 | 0707 | 0855 | 1003 | 1160 | 1298 | 1445 | 1593 | 1741 | 1889 | 2037 | 2185 | 2333 | 2480 | 2628 | 2776 | 5 | 1 | 7906 |
| 6 | 2 | | 6688 | 6635 | 0963 | 1136 | 1276 | 1425 | 1573 | 1720 | 1868 | 2016 | 2163 | 9311 | 2459 | 2607 | 2754 | 2902 | 3050 | 2 | 2 | 6185 |
| 7 | 3 | | 6263 | 1111 | 1268 | 1405 | 1553 | 1700 | 1848 | 1995 | 2143 | 2290 | 2438 | 2585 | 2733 | 2881 | 3028 | 3176 | 3323 | 14 | 3 | 8463 |
| 18 | 4 | | 1239 | 1387 | 1634 | 1681 | 1828 | 1976 | 2123 | 2270 | 2417 | 2565 | 2712 | 2860 | 3067 | 3155 | 3302 | 3450 | 3597 | 19 | 4 | 8741 |
| 12 | 6 | 1 | 1615 | 1662 | 1809 | 1956 | 2104 | 2251 | 2398 | 2545 | 9692 | 2639 | 2987 | 3134 | 3281 | 3429 | 3576 | 3723 | 3871 | 23 | 6 | 0 9019 |
| 14 | 6 | | 1721 | 1938 | 2085 | 2232 | 9379 | 2526 | 2673 | 2820 | 2907 | 3114 | 3261 | 3468 | 3556 | 3703 | 3650 | 3997 | 4144 | 28 | 6 | 9298 |
| 17 | 7 | | 2067 | 2214 | 9301 | 2507 | 2654 | 2801 | 2948 | 3095 | 3242 | 3389 | 3536 | 3683 | 3830 | 3977 | 4124 | 4271 | 4418 | 33 | 7 | 9576 |
| 19 | 6 | | 2343 | 2490 | 2630 | 2783 | 2930 | 3076 | 3223 | 3370 | 3517 | 3664 | 3810 | 3957 | 4104 | 4251 | 4398 | 4545 | 4692 | 37 | 6 | 9855 |
| 22 | 2 | | 2619 | 2766 | 2912 | 3059 | 3260 | 3302 | 3498 | 3645 | 3799 | 3938 | 4085 | 4232 | 4378 | 4525 | 4672 | 4819 | 4966 | 42 | 2 | 1 0133 |
| 24 | 10 | 1 | 2895 | 3042 | 3188 | 3334 | 3481 | 3627 | 3773 | 3920 | 4067 | 4213 | 1360 | 4506 | 4653 | 4799 | 4946 | 5093 | 5239 | 46 | 10 | 1 0411 |
| 26 | 11 | | 3171 | 3317 | 3464 | 3610 | 3756 | 3902 | 4049 | 4195 | 4341 | 4488 | 1634 | 1781 | 4927 | 5074 | 5220 | 5367 | 5513 | 51 | 11 | 0690 |
| 29 | 12 | | 3447 | 3593 | 3739 | 3886 | 4032 | 4178 | 4324 | 4470 | 4616 | 4763 | 1909 | 5055 | 5201 | 5348 | 5491 | 5641 | 5787 | 50 | 12 | 0968 |
| 31 | 13 | | 3723 | 3862 | 4615 | 4161 | 4307 | 4453 | 4599 | 4745 | 4891 | 5037 | 5184 | 5330 | 5476 | 5622 | 5768 | 5915 | 6061 | 60 | 13 | 1247 |
| 34 | 14 | | 3992 | 4140 | 4221 | 4437 | 4583 | 4722 | 4875 | 5020 | 5166 | 5312 | 5458 | 5604 | 5750 | 5896 | 6042 | 6189 | 6335 | 65 | 14 | 1525 |
| 36 | 15 | 1 | 4276 | 4421 | 4567 | 4713 | 4858 | 5004 | 5150 | 5296 | 5441 | 5587 | 5733 | 5879 | 6025 | 6171 | 6317 | 6463 | 6609 | 70 | 15 | 1 1804 |
| 38 | 16 | | 4052 | 4627 | 4843 | 4288 | 5134 | 5979 | 5425 | 5571 | 5716 | 5862 | 6008 | 6153 | 6299 | 6445 | 6591 | 0737 | 6882 | 74 | 16 | 2082 |
| 41 | 17 | | 4820 | 4973 | 5112 | 5264 | 5410 | 0555 | 5700 | 5846 | 5991 | 6137 | 6283 | 6428 | 6574 | 6719 | 6865 | 7011 | 7156 | 79 | 17 | 2361 |
| 43 | 16 | | 6104 | 0242 | 5395 | 5540 | 5605 | 5831 | 5976 | 6121 | 6267 | 6412 | 6557 | 6703 | 6848 | 6994 | 7132 | 7285 | 7430 | 84 | 18 | 2639 |
| 40 | 12 | | 5380 | 5596 | 5671 | 5816 | 5961 | 6106 | 6261 | 6396 | 6549 | 6687 | 6832 | 6970 | 7123 | 7268 | 7414 | 7559 | 7704 | 88 | 19 | 2918 |
| 46 | 20 | 1 | 6657 | 0802 | 5947 | 6092 | 6937 | 6382 | 6527 | 6672 | 6817 | 6962 | 7107 | 7252 | 7397 | 7543 | 7688 | 7833 | 7978 | 23 | 26 | 1 3197 |
| 60 | 21 | | 0233 | 6076 | 6223 | 0367 | 6512 | 6657 | 6802 | 6247 | 7092 | 7237 | 7382 | 7527 | 7672 | 7817 | 7962 | 8107 | 8252 | 28 | 21 | 3475 |
| 63 | 22 | | 6202 | 0354 | 6499 | 6643 | 6788 | 6933 | 7078 | 7292 | 7367 | 7512 | 7657 | 7802 | 7947 | 8092 | 0237 | 8381 | 8526 | 102 | 22 | 3754 |
| 05 | 23 | | 6486 | 6630 | 6775 | 6919 | 7064 | 7208 | 7353 | 7498 | 7642 | 7787 | 7932 | 8077 | 8221 | 8366 | 8511 | 8656 | 8801 | 107 | 23 | 4033 |
| 67 | 24 | | 6762 | 6906 | 7001 | 7125 | 7340 | 7484 | 7629 | 7773 | 7918 | 8062 | 8207 | 8351 | 8196 | 8641 | 8785 | 8930 | 9075 | 112 | 24 | 4312 |
| 60 | 25 | 1 | 7038 | 7103 | 7327 | 7471 | 7615 | 7760 | 7904 | 8648 | 8193 | 8337 | 8482 | 8626 | 8771 | 8915 | 9060 | 2204 | 9349 | 116 | 25 | 1 4590 |
| 62 | 26 | | 7315 | 7459 | 7603 | 7747 | 7091 | 8035 | 8180 | 8324 | 8468 | 8612 | 8757 | 8901 | 9045 | 9190 | 9334 | 9479 | 9623 | 121 | 26 | 4869 |
| 65 | 27 | | 7521 | 7735 | 7879 | 8023 | 8167 | 8311 | 8455 | 8599 | 8743 | 8888 | 9032 | 2176 | 9320 | 9464 | 9609 | 9753 | 9897 | 126 | 27 | 5148 |
| 67 | 26 | 1 (2) | 7868 | 8012 | 8150 | 8299 | 8443 | 8587 | 8731 | 8875 | 9012 | 9163 | 9307 | 2451 | 9595 | 9739 | 9883 | 0027 | 0171 | 130 | 28 | 5427 |
| 62 | 22 | | 6144 | 8268 | 8432 | 8570 | 8719 | 8863 | 9006 | 9150 | 2294 | 9438 | 9582 | 9726 | 9870 | 0014 | 0158 | 0302 | 0416 | 135 | 29 | 5706 |
| 72 | 36 | 1 (2) | 8421 | 8560 | 8708 | 8851 | 8995 | 9139 | 9282 | 9426 | 9569 | 9713 | 2857 | 0001 | 0144 | 0288 | 0432 | 0576 | 0720 | 139 | 36 | 1 5985 |
| 74 | 31 | | 0697 | 8841 | 8984 | 9127 | 9271 | 9414 | 2558 | 9701 | 2845 | 9988 | 0132 | 0276 | 0119 | 0563 | 0707 | 0850 | 0994 | 144 | 31 | 6264 |
| 77 | 32 | | 8974 | 9117 | 9260 | 9464 | 9547 | 2690 | 9834 | 9977 | 0120 | 0264 | 0407 | 0551 | 0694 | 0838 | 0981 | 1125 | 1268 | 149 | 32 | 6643 |
| 79 | 33 | | 2250 | 9393 | 9537 | 2680 | 9023 | 9966 | 0109 | 0253 | 0396 | 0539 | 0682 | 0820 | 0969 | 1112 | 1256 | 1399 | 1543 | 153 | 33 | 6822 |
| 61 | 34 | | 2527 | 9670 | 9813 | 9956 | 0099 | 0942 | 0380 | 0528 | 0671 | 0814 | 0958 | 1101 | 1241 | 1387 | 1530 | 1674 | 1817 | 158 | 34 | 7101 |
| 64 | 35 | 1 (2) | 9804 | 9946 | 0089 | 0232 | 0375 | 0518 | 0661 | 0804 | 0947 | 1090 | 1233 | 1376 | 1519 | 1662 | 1805 | 1948 | 2091 | 103 | 35 | 1 7380 |
| 06 | 36 | 2 | 0080 | 0923 | 0366 | 0508 | 0661 | 6794 | 0237 | 1079 | 1922 | 1365 | 1508 | 1651 | 1724 | 1937 | 2080 | 2223 | 2366 | 167 | 36 | 7659 |
| 88 | 37 | | 0357 | 0499 | 0642 | 0785 | 6227 | 1676 | 1212 | 1355 | 1498 | 1640 | 1783 | 1996 | 2069 | 2212 | 2354 | 2497 | 2640 | 172 | 37 | 7238 |
| 91 | 30 | | 0634 | 0776 | 0218 | 1061 | 1203 | 1346 | 1488 | 1631 | 1773 | 1916 | 2059 | 2201 | 2344 | 2487 | 2629 | 2772 | 2915 | 177 | 38 | 6217 |
| 93 | 32 | | 0910 | 1053 | 1196 | 1337 | 1479 | 1629 | 1764 | 1906 | 2049 | 2191 | 2334 | 2476 | 2619 | 2761 | 2904 | 3046 | 3189 | 101 | 39 | 0496 |
| 26 | 40 | 2 | 1187 | 1329 | 1471 | 1613 | 1756 | 1898 | 2040 | 2182 | 2395 | 2467 | 2609 | 2759 | 2824 | 3036 | 3179 | 3321 | 3464 | 100 | 46 | 1 6775 |
| 98 | 41 | | 1464 | 1606 | 1748 | 1890 | 2032 | 2174 | 2316 | 2458 | 2600 | 2742 | 2865 | 3627 | 3169 | 3311 | 3453 | 3596 | 3738 | 191 | 41 | 9054 |
| 100 | 42 | | 1741 | 1882 | 2024 | 2166 | 2300 | 2450 | 2592 | 2734 | 2876 | 3018 | 3160 | 3302 | 3444 | 3586 | 3728 | 3670 | 4013 | 195 | 42 | 2333 |
| 103 | 43 | | 2017 | 2159 | 2361 | 2443 | 2584 | 2726 | 2868 | 3010 | 3152 | 3293 | 3435 | 3577 | 3719 | 3661 | 4003 | 4140 | 4287 | 200 | 43 | 9612 |
| 105 | 44 | | 2294 | 2436 | 2577 | 2712 | 2861 | 3002 | 3144 | 3286 | 3427 | 3569 | 3711 | 3853 | 3924 | 4136 | 4276 | 4420 | 4562 | 900 | 44 | 9892 |
| 108 | 45 | 2 | 2571 | 2719 | 2654 | 2995 | 3137 | 3278 | 3420 | 3561 | 3703 | 3845 | 3986 | 4128 | 4270 | 4411 | 4553 | 4695 | 4836 | 209 | 45 | 2 0171 |
| 110 | 46 | | 2848 | 2989 | 3131 | 3272 | 3413 | 3555 | 3696 | 3837 | 3979 | 4120 | 4262 | 4403 | 4545 | 4686 | 4628 | 4902 | 6111 | 214 | 46 | 0450 |
| 112 | 47 | | 3125 | 3266 | 3407 | 3548 | 3690 | 3831 | 3972 | 4113 | 4255 | 4396 | 4537 | 4079 | 4620 | 4261 | 5103 | 5244 | 5386 | 219 | 47 | 0730 |
| 115 | 48 | | 3402 | 3543 | 3604 | 3825 | 3966 | 4107 | 4248 | 4309 | 4530 | 4672 | 4813 | 4954 | 6095 | 0236 | 5370 | 0019 | 5660 | 223 | 46 | 1009 |
| 117 | 49 | | 3672 | 3620 | 3961 | 4161 | 4249 | 4383 | 4524 | 4665 | 4806 | 4947 | 6006 | 5229 | 5370 | 0011 | 0653 | 0724 | 0935 | 228 | 42 | 1288 |
| 120 | 50 | 2 | 3956 | 4097 | 4237 | 4378 | 4019 | 4659 | 4860 | 4241 | 5082 | 5223 | 5364 | 5505 | 6646 | 5787 | 5920 | 6062 | 6210 | 232 | 56 | 2 1568 |
| 122 | 51 | | 4233 | 4373 | 4514 | 4654 | 4725 | 4936 | 5076 | 0217 | 6308 | 5499 | 0639 | 5780 | 5921 | 6062 | 6203 | 0344 | 6464 | 237 | 61 | 1847 |
| 124 | 52 | | 4510 | 4650 | 4791 | 4931 | 5072 | 5212 | 5353 | 5493 | 5634 | 5774 | 6910 | 6066 | 6126 | 6337 | 6476 | 6616 | 6752 | 242 | 52 | 9126 |
| 127 | 53 | | 4787 | 4927 | 5067 | 5208 | 5348 | 5488 | 5622 | 5769 | 5910 | 6056 | 6191 | 6331 | 6472 | 6612 | 6753 | 6893 | 7034 | 246 | 63 | 2406 |
| 122 | 64 | | 6064 | 5204 | 5344 | 5461 | 5625 | 5765 | 5905 | 6045 | 6186 | 6326 | 6466 | 6607 | 6747 | 6867 | 7096 | 7168 | 7309 | 261 | 54 | 2685 |
| 132 | 55 | 2 | 5341 | 5481 | 5621 | 5761 | 5201 | 6041 | 6181 | 6321 | 6469 | 6602 | 6742 | 6882 | 7022 | 7163 | 7303 | 7443 | 7084 | 256 | 55 | 2 2965 |
| 134 | 56 | | 6618 | 5758 | 5628 | 6038 | 6176 | 6318 | 6458 | 6598 | 6738 | 6876 | 7618 | 7158 | 7228 | 7438 | 7578 | 7718 | 7659 | 260 | 56 | 3244 |
| 136 | 67 | | 0896 | 6035 | 6175 | 6314 | 6454 | 6024 | 6734 | 6874 | 7014 | 7163 | 7993 | 7433 | 7573 | 7713 | 7653 | 7223 | 6143 | 265 | 57 | 3524 |
| 139 | 68 | | 6179 | 6319 | 6452 | 6591 | 6731 | 6876 | 7610 | 7156 | 7290 | 7429 | 7562 | 7709 | 7842 | 7282 | 8126 | 8266 | 6408 | 276 | 66 | 3803 |
| 141 | 59 | | 6450 | 6589 | 6799 | 6860 | 7067 | 7147 | 7267 | 7426 | 7566 | 7706 | 7846 | 7985 | 6124 | 8264 | 8404 | 8543 | 8683 | 274 | 69 | 4083 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Num. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 74° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 74° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8' | 1' | 2' | 3 | 4' | 5' | 6' | 7' | 8' | 2 | 10' | 11' | 12' | 13' | 14' | 15' | 16' | | | |
| 0 | 8' | 2 | 4363 | 4501 | 4648 | 4779 | 4918 | 5057 | 5196 | 5335 | 5474 | 5613 | 5753 | 5822 | 6831 | 6170 | 6309 | 6448 | 6388 | 279 | 0' | 2 2094 |
| 2 | 1 | | 4642 | 4781 | 4920 | 5059 | 5197 | 5336 | 5475 | 5614 | 5753 | 5892 | 6031 | 6170 | 6309 | 6418 | 6587 | 5726 | 6865 | 274 | 1 | 1815 |
| 5 | 2 | | 4922 | 5060 | 5199 | 5338 | 5476 | 5615 | 5754 | 5893 | 6031 | 6170 | 6309 | 6448 | 6587 | 6726 | 6864 | 7003 | 7142 | 270 | 2 | 1537 |
| 7 | 3 | | 5202 | 5340 | 5479 | 5617 | 5756 | 5894 | 6033 | 6171 | 6310 | 6449 | 6587 | 6726 | 6865 | 7003 | 7142 | 7281 | 7420 | 265 | 3 | 1252 |
| 9 | 4 | | 5481 | 5628 | 5758 | 5896 | 6035 | 6173 | 6312 | 6450 | 6588 | 6727 | 6866 | 7084 | 7143 | 7281 | 7420 | 7558 | 7697 | 260 | 4 | 0981 |
| 11 | 5 | 2 | 5761 | 5899 | 6037 | 6176 | 6314 | 6452 | 6520 | 6729 | 6867 | 7005 | 7144 | 7282 | 7421 | 7559 | 7698 | 7836 | 7976 | 256 | 5 | 9 0702 |
| 14 | 6 | | 6041 | 6179 | 6317 | 6155 | 6593 | 6731 | 6869 | 7007 | 7146 | 7284 | 7422 | 7560 | 7699 | 7837 | 7975 | 8114 | 8252 | 251 | 6 | 0424 |
| 16 | 7 | | 6321 | 6458 | 6596 | 6734 | 6872 | 7010 | 7148 | 7286 | 7424 | 7562 | 7701 | 7839 | 7977 | 8115 | 8253 | 8391 | 8530 | 246 | 7 | 0145 |
| 18 | 8 | | 6600 | 6738 | 6876 | 7014 | 7151 | 7289 | 7427 | 7565 | 7703 | 7841 | 7979 | 8117 | 8255 | 8393 | 8531 | 8669 | 8807 | 242 | 8 | 8 9867 |
| 20 | 9 | | 6880 | 7018 | 7155 | 7293 | 7431 | 7568 | 7706 | 7814 | 7982 | 8119 | 8257 | 8395 | 8533 | 8671 | 8809 | 8947 | 9085 | '237 | 9 | 9589 |
| 23 | 10 | 2 | 7168 | 7297 | 7435 | 7572 | 7710 | 7818 | 7985 | 8123 | 8260 | 8398 | 8536 | 8673 | 8811 | 8949 | 9087 | 9224 | 9362 | 232 | 10 | 8 9310 |
| 25 | 11 | | 7410 | 7577 | 7714 | 7852 | 7989 | 8127 | 8264 | 8402 | 8539 | 8677 | 8814 | 8952 | 9089 | 9227 | 9365 | 9502 | 9640 | 228 | 11 | 9032 |
| 27 | 12 | | 7720 | 7857 | 7994 | 8131 | 8269 | 8106 | 8543 | 8681 | 8818 | 8955 | 9093 | 9230 | 9368 | 9505 | 9643 | 9780 | 9918 | 223 | 12 | 8753 |
| 29 | 13 | 2 (3) | 8008 | 8137 | 8274 | 8411 | 8548 | 8685 | 8822 | 8959 | 9097 | 9234 | 9371 | 9508 | 9646 | 9783 | 9920 | 0058 | 0195 | 219 | 13 | 8475 |
| 32 | 14 | | 8280 | 8416 | 8553 | 8690 | 8827 | 8964 | 9101 | 9238 | 9376 | 9513 | 9650 | 9787 | 9924 | 0061 | 0198 | 0336 | 0473 | 214 | 14 | 8196 |
| 34 | 15 | 2 (3) | 8560 | 8696 | 8833 | 8978 | 9107 | 9244 | 2380 | 9517 | 9654 | 9791 | 9928 | 0065 | 0202 | 0339 | 0476 | 0614 | 0751 | 209 | 15 | 8 7910 |
| 36 | 16 | | 8840 | 8976 | 9113 | 9249 | 9386 | 9523 | 9660 | 9796 | 9933 | 0070 | 0207 | 0344 | 0481 | 0618 | 0754 | 0891 | 1028 | 205 | 16 | 7639 |
| 38 | 17 | | 9120 | 9256 | 9392 | 9529 | 9666 | 9882 | 9939 | 0075 | 0212 | 0349 | 0485 | 0622 | 0759 | 0896 | 1032 | 1169 | 1306 | 200 | 17 | 7361 |
| 41 | 18 | | 9400 | 9536 | 9672 | 9809 | 9945 | 0081 | 0218 | 0354 | 0491 | 0627 | 0764 | 0901 | 1037 | 1171 | 1310 | 1417 | 1584 | 195 | 18 | 7082 |
| 43 | 19 | | 9680 | 9816 | 9952 | 0088 | 8225 | 0361 | 0497 | 0634 | 0770 | 0906 | 1043 | 1179 | 1316 | 1452 | 1589 | 1725 | 1862 | 191 | 19 | 6803 |
| 46 | 20 | 2 (3) | 9960 | 0096 | 0232 | 0368 | 0504 | 0640 | 0776 | 0913 | 1049 | 1185 | 1321 | 1158 | 1594 | 1730 | 1867 | 2003 | 2139 | 186 | 20 | 8 6525 |
| 47 | 21 | 3 | 8240 | 0376 | 0512 | 0648 | 0784 | 0920 | 1856 | 1192 | 1328 | 1464 | 1600 | 1736 | 1872 | 2009 | 2145 | 2281 | 2417 | 181 | 21 | 6246 |
| 50 | 22 | | 0520 | 0656 | 0791 | 0927 | 1063 | 1199 | 1335 | 1471 | 1607 | 1743 | 1879 | 2015 | 2151 | 2287 | 2423 | 2559 | 2695 | 177 | 22 | 5967 |
| 62 | 23 | | 0800 | 0936 | 1071 | 1207 | 1343 | 1478 | 1614 | 1750 | 1886 | 2022 | 2157 | 2293 | 2429 | 2565 | 2701 | 2837 | 2973 | 172 | 23 | 5688 |
| 51 | 24 | | 1080 | 1216 | 1351 | 1487 | 1622 | 1758 | 1891 | 2029 | 2165 | 2300 | 2436 | 2572 | 2708 | 2843 | 2979 | 3115 | 3251 | 167 | 24 | 5410 |
| 56 | 25 | 3 | 1360 | 1496 | 1631 | 1766 | 1902 | 2037 | 2173 | 2308 | 2444 | 2579 | 2715 | 2851 | 2986 | 3122 | 3257 | 3393 | 3529 | 163 | 25 | 8 5131 |
| 59 | 26 | | 1641 | 1776 | 1911 | 2046 | 2182 | 2317 | 2452 | 2588 | 2723 | 2858 | 2994 | 3129 | 3265 | 3400 | 3536 | 3671 | 3807 | 158 | 26 | 4852 |
| 61 | 27 | | 1921 | 2056 | 2191 | 2326 | 2461 | 2596 | 2732 | 2867 | 3002 | 3137 | 3273 | 3408 | 3543 | 3679 | 3814 | 3949 | 4085 | 153 | 27 | 4573 |
| 63 | 28 | | 2201 | 2336 | 2471 | 2606 | 2741 | 2876 | 3011 | 3146 | 3281 | 3416 | 3551 | 3687 | 3822 | 3957 | 4092 | 4227 | 4363 | 149 | 28 | 4294 |
| 65 | 29 | | 2481 | 2616 | 2751 | 2886 | 3021 | 3155 | 3298 | 3425 | 3568 | 3695 | 3830 | 3965 | 4100 | 4235 | 4370 | 4506 | 4641 | 144 | 29 | 4015 |
| 68 | 30 | 3 | 2762 | 2896 | 3031 | 3166 | 3300 | 3435 | 3670 | 3705 | 3840 | 3974 | 4109 | 4214 | 4379 | 4514 | 4649 | 4784 | 4919 | 139 | 30 | 8 3736 |
| 70 | 31 | | 3042 | 3176 | 3311 | 3446 | 3580 | 3715 | 3849 | 3984 | 4119 | 4253 | 4388 | 4523 | 4658 | 4792 | 4927 | 5062 | 5127 | 135 | 31 | 3457 |
| 72 | 32 | | 3322 | 3457 | 3591 | 3725 | 3860 | 3994 | 4129 | 4263 | 4398 | 4532 | 4667 | 4802 | 4936 | 5071 | 5206 | 5340 | 5475 | 130 | 32 | 3178 |
| 74 | 33 | | 3603 | 3737 | 3871 | 4005 | 4140 | 4274 | 4408 | 4543 | 4677 | 4811 | 4946 | 5080 | 5215 | 5349 | 5484 | 5618 | 6753 | 126 | 33 | 2899 |
| 77 | 34 | | 3883 | 4017 | 4151 | 4285 | 4420 | 4554 | 4688 | 4822 | 4956 | 5091 | 5225 | 5359 | 5491 | 5628 | 5762 | 5897 | 6031 | 121 | 34 | 2620 |
| 79 | 35 | 3 | 4163 | 4297 | 4431 | 4565 | 4699 | 4833 | 4967 | 5102 | 5236 | 5378 | 5504 | 5638 | 5772 | 5906 | 6041 | 6175 | 6309 | 116 | 35 | 8 2341 |
| 81 | 36 | | 4444 | 4578 | 4711 | 4845 | 4979 | 5113 | 5247 | 5381 | 5515 | 5649 | 5783 | 5917 | 6051 | 6185 | 6319 | 6453 | 6587 | 112 | 36 | 2062 |
| 83 | 37 | | 4724 | 4858 | 4992 | 5125 | 5259 | 5393 | 5527 | 5660 | 5791 | 5928 | 6062 | 6196 | 6330 | 6464 | 6598 | 6732 | 6866 | 107 | 37 | 1783 |
| 86 | 38 | | 5005 | 5138 | 5272 | 5405 | 5539 | 5673 | 5806 | 5940 | 6074 | 6287 | 6341 | 6475 | 6609 | 6742 | 6876 | 7010 | 7144 | 102 | 38 | 1504 |
| 88 | 39 | | 5285 | 5419 | 5562 | 5685 | 5819 | 5952 | 6086 | 6219 | 6353 | 6487 | 6620 | 6754 | 6887 | 7021 | 7155 | 7288 | 7422 | 98 | 39 | 1225 |
| 90 | 40 | 3 | 5566 | 5699 | 5832 | 5966 | 6099 | 6232 | 6366 | 6499 | 6632 | 6766 | 6899 | 7033 | 7166 | 7300 | 7433 | 7567 | 7700 | 93 | 40 | 8 0946 |
| 92 | 41 | | 5846 | 5972 | 6113 | 6246 | 6379 | 6512 | 6645 | 6778 | 6912 | 7045 | 7178 | 7312 | 7445 | 7578 | 7712 | 7845 | 7979 | 88 | 41 | 0667 |
| 95 | 42 | | 6127 | 5260 | 6393 | 6526 | 6659 | 6792 | 6926 | 7058 | 7191 | 7324 | 7458 | 7591 | 7724 | 7867 | 7990 | 8124 | 8257 | 84 | 42 | 0388 |
| 97 | 43 | | 6407 | 6540 | 6673 | 6806 | 6939 | 7072 | 7205 | 7338 | 7471 | 7684 | 7737 | 7870 | 8003 | 8136 | 8269 | 8482 | 8535 | 79 | 43 | 0108 |
| 99 | 44 | | 6688 | 6821 | 6953 | 7086 | 7219 | 7352 | 7484 | 7617 | 7750 | 7883 | 8016 | 8149 | 8282 | 8415 | 8548 | 8681 | 8814 | 74 | 44 | 7 9829 |
| 101 | 45 | 3 | 6969 | 7101 | 7234 | 7366 | 7499 | 7632 | 7764 | 7897 | 8030 | 8162 | 8295 | 8428 | 8561 | 8693 | 8826 | 8959 | 9092 | 70 | 45 | 7 9558 |
| 104 | 46 | | 7249 | 7382 | 7514 | 7647 | 7779 | 7912 | 8044 | 8177 | 8389 | 8442 | 8574 | 8707 | 8840 | 8972 | 9185 | 9238 | 9370 | 65 | 46 | 9270 |
| 186 | 47 | | 7530 | 7662 | 7795 | 7927 | 8059 | 8192 | 8324 | 8456 | 8589 | 8721 | 8854 | 8986 | 9119 | 9261 | 9384 | 9516 | 9649 | 60 | 47 | 8991 |
| 188 | 48 | | 7811 | 7943 | 8075 | 8207 | 8339 | 8472 | 8604 | 8736 | 8868 | 9001 | 9133 | 9265 | 9398 | 9530 | 9662 | 9795 | 9927 | 66 | 48 | 8712 |
| 110 | 49 | 3 (4) | 8092 | 8223 | 8355 | 8488 | 8620 | 8752 | 8884 | 9016 | 9148 | 9280 | 9412 | 9544 | 9677 | 9809 | 9941 | 0873 | 0206 | 51 | 49 | 8132 |
| 113 | 50 | 3 (4) | 8372 | 8504 | 8636 | 8768 | 8900 | 9032 | 9163 | 9295 | 9427 | 9560 | 9692 | 9824 | 9956 | 0888 | 0220 | 0352 | 0484 | 46 | 50 | 7 8153 |
| 115 | 51 | | 8653 | 8785 | 8916 | 9048 | 9180 | 9312 | 9443 | 9575 | 9707 | 9839 | 9971 | 0103 | 0235 | 0367 | 0499 | 0631 | 0763 | 42 | 51 | 7874 |
| 117 | 62 | | 8934 | 9066 | 9197 | 9329 | 9460 | 2592 | 9723 | 9855 | 9987 | 0118 | 0250 | 0382 | 0514 | 0646 | 0777 | 0909 | 1041 | 37 | 52 | 7594 |
| 119 | 53 | | 9215 | 9346 | 9477 | 9609 | 9740 | 9872 | 8003 | 0135 | 0266 | 0398 | 0530 | 0661 | 0793 | 0925 | 1056 | 1188 | 1320 | 33 | 63 | 7315 |
| 122 | 54 | | 9495 | 9627 | 9768 | 9889 | 0821 | 0152 | 0283 | 8415 | 0546 | 0678 | 0809 | 0941 | 1072 | 1201 | 1335 | 1467 | 1598 | 28 | 54 | 7835 |
| 124 | 55 | 3 (4) | 9776 | 9907 | 0039 | 0170 | 0301 | 0432 | 0563 | 0695 | 0826 | 0957 | 1089 | 1220 | 1351 | 1483 | 1614 | 1745 | 1877 | 23 | 65 | 7 6756 |
| 126 | 66 | 4 | 8057 | 0188 | 0319 | 0450 | 0581 | 0712 | 0843 | 0975 | 1106 | 1237 | 1368 | 1499 | 1630 | 1762 | 1893 | 2024 | 2155 | 19 | 56 | 6476 |
| 128 | 57 | | 0338 | 0469 | 0600 | 0731 | 0862 | 0992 | 1123 | 1254 | 1385 | 1516 | 1647 | 1779 | 1910 | 2011 | 2172 | 2303 | 2434 | 14 | 57 | 6197 |
| 131 | 58 | | 0619 | 0750 | 0880 | 1011 | 1142 | 1273 | 1404 | 1534 | 1665 | 1796 | 1927 | 2058 | 2189 | 2320 | 2451 | 2582 | 2713 | 9 | 58 | 5917 |
| 133 | 59 | | 8900 | 1030 | 1161 | 1292 | 1422 | 1553 | 1684 | 1814 | 1945 | 2076 | 2207 | 2337 | 2468 | 2599 | 2730 | 2861 | 2991 | 5 | 59 | 5637 |

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| TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 74° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | |
| | | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
| 0 | 0' | 2 | 6727 | 6866 | 7005 | 7145 | 7284 | 7424 | 7563 | 7702 | 7842 | 7961 | 8121 | 8260 | 8400 | 8539 | 8679 | 8818 | 8958 |
| 2 | 1 | | 7004 | 7143 | 7262 | 7422 | 7361 | 7700 | 7839 | 7970 | 8118 | 0257 | 0397 | 8536 | 8675 | 8815 | 8954 | 9094 | 9233 |
| 5 | 2 | | 7281 | 7420 | 7059 | 7698 | 7837 | 7977 | 8116 | 8255 | 8394 | 0533 | 0672 | 8812 | 8951 | 9090 | 9229 | 9369 | 9508 |
| 7 | 3 | | 7559 | 7697 | 7830 | 7975 | 8114 | 8253 | 8322 | 8531 | 8670 | 8809 | 8918 | 9087 | 9226 | 9366 | 9505 | 9644 | 9783 |
| 2 | 4 | 2 (3) | 7036 | 7975 | 8113 | 8252 | 8391 | 8530 | 8669 | 0807 | 8946 | 9085 | 9224 | 2363 | 9502 | 9041 | 9780 | 9919 | 0058 |
| 11 | 0 | 2 (3) | 8113 | 0252 | 8390 | 8529 | 8668 | 8806 | 8915 | 9081 | 9223 | 9361 | 9500 | 9639 | 9778 | 9916 | 0055 | 0194 | 0333 |
| 14 | 6 | | 0321 | 0529 | 8667 | 8006 | 8944 | 9083 | 9222 | 9360 | 9499 | 9637 | 9776 | 9915 | 0053 | 0192 | 0331 | 0470 | 0608 |
| 16 | 7 | | 8668 | 8006 | 8945 | 9083 | 9221 | 9360 | 9498 | 9636 | 9775 | 9913 | 0052 | 0190 | 0329 | 0467 | 0606 | 0745 | 0883 |
| 18 | 8 | | 0945 | 9084 | 9222 | 9360 | 9498 | 9636 | 9775 | 9913 | 0051 | 0120 | 0328 | 0466 | 0605 | 0743 | 0881 | 1020 | 1158 |
| 20 | 2 | | 9223 | 9361 | 9429 | 9637 | 9775 | 9913 | 0051 | 0189 | 0327 | 0166 | 0604 | 0742 | 0880 | 1019 | 1157 | 1295 | 1434 |
| 23 | 10 | 2 (3) | 9500 | 9638 | 9776 | 9914 | 0052 | 0190 | 0328 | 0466 | 0604 | 0742 | 0880 | 1018 | 1156 | 1291 | 1432 | 1571 | 1709 |
| 25 | 11 | | 2778 | 9915 | 0053 | 0191 | 0329 | 0466 | 0604 | 0742 | 0880 | 1018 | 1156 | 1294 | 1432 | 1570 | 1708 | 1816 | 1984 |
| 27 | 12 | 3 | 0055 | 0193 | 0330 | 0460 | 0606 | 0743 | 0881 | 1019 | 1156 | 1294 | 1432 | 1570 | 1708 | 1846 | 1983 | 2121 | 2259 |
| 29 | 13 | | 0333 | 0470 | 0608 | 0745 | 0883 | 1020 | 1158 | 1295 | 1433 | 1570 | 1708 | 1846 | 1983 | 2121 | 2259 | 2397 | 2535 |
| 32 | 14 | | 0610 | 0747 | 0060 | 1022 | 1160 | 1297 | 1434 | 1572 | 1709 | 1847 | 1984 | 2122 | 2259 | 2397 | 2534 | 2672 | 2810 |
| 34 | 15 | 3 | 0888 | 1025 | 1162 | 1299 | 1437 | 1574 | 1711 | 1848 | 1986 | 2123 | 2260 | 2398 | 2535 | 2673 | 2810 | 2948 | 3085 |
| 36 | 10 | | 1105 | 1302 | 1439 | 1576 | 1714 | 1851 | 1988 | 2125 | 2262 | 2399 | 2536 | 2674 | 2811 | 2948 | 3086 | 3223 | 3360 |
| 38 | 17 | | 1443 | 1500 | 1717 | 1054 | 1991 | 2127 | 2265 | 2402 | 2539 | 2676 | 2813 | 2950 | 3087 | 3224 | 3361 | 3498 | 3636 |
| 41 | 10 | | 1721 | 1857 | 1994 | 2131 | 2268 | 2404 | 2541 | 2678 | 2815 | 2952 | 3089 | 3226 | 3363 | 3500 | 3637 | 3774 | 3911 |
| 43 | 19 | | 1998 | 2135 | 2271 | 2408 | 2545 | 2681 | 2818 | 2955 | 3092 | 3220 | 3365 | 3502 | 3639 | 3776 | 3913 | 4050 | 4106 |
| 45 | 20 | 3 | 2276 | 2412 | 2549 | 2685 | 2822 | 2958 | 3095 | 3231 | 3368 | 3505 | 3641 | 3778 | 3915 | 4052 | 4188 | 4325 | 4462 |
| 47 | 21 | | 2554 | 2690 | 2826 | 2963 | 3099 | 3235 | 3372 | 3508 | 3645 | 3781 | 3918 | 4051 | 4191 | 4327 | 4464 | 4601 | 4737 |
| 00 | 22 | | 2831 | 2967 | 3104 | 3240 | 3376 | 3512 | 3649 | 3785 | 3921 | 4058 | 4194 | 4330 | 1467 | 4603 | 4740 | 4876 | 5013 |
| 52 | 23 | | 3109 | 3245 | 3381 | 3517 | 3653 | 3789 | 3926 | 4062 | 4198 | 4334 | 4470 | 4607 | 1743 | 4879 | 5015 | 5152 | 5288 |
| 54 | 24 | | 3387 | 3523 | 3659 | 3794 | 3930 | 4066 | 4202 | 4338 | 4474 | 4611 | 4747 | 4883 | 5019 | 5155 | 5291 | 5427 | 5564 |
| 56 | 25 | 3 | 3665 | 3800 | 3936 | 4072 | 4208 | 4344 | 4479 | 4615 | 1751 | 4087 | 5023 | 5159 | 5295 | 5131 | 5567 | 5703 | 5839 |
| 59 | 20 | | 3942 | 4078 | 4214 | 4349 | 4485 | 1621 | 4756 | 4892 | 5028 | 5164 | 5299 | 5435 | 5571 | 5707 | 5843 | 3979 | 6115 |
| 61 | 27 | | 4220 | 4356 | 4491 | 4627 | 4762 | 4098 | 5033 | 5169 | 5305 | 5140 | 5576 | 5711 | 5847 | 5983 | 6119 | 6251 | 6390 |
| 63 | 26 | | 4498 | 4633 | 4769 | 1901 | 5039 | 5175 | 5310 | 5146 | 5581 | 5717 | 5852 | 5988 | 6123 | 6259 | 6395 | 6530 | 6666 |
| 66 | 29 | | 4776 | 4911 | 5046 | 5181 | 5317 | 5452 | 5587 | 5723 | 5858 | 5993 | 6129 | 6264 | 6400 | 6535 | 6670 | 6806 | 6941 |
| 68 | 30 | 3 | 0054 | 5189 | 5324 | 5459 | 5591 | 5729 | 5864 | 6000 | 6135 | 6270 | 6405 | 6540 | 6676 | 6811 | 6946 | 7082 | 7217 |
| 70 | 31 | | 0332 | 5467 | 5602 | 5736 | 5871 | 6006 | 6141 | 6276 | 6411 | 6547 | 6682 | 6817 | 6952 | 7087 | 7222 | 7357 | 7493 |
| 72 | 32 | | 5610 | 5744 | 5879 | 6014 | 6149 | 6284 | 6418 | 6553 | 6688 | 6823 | 6958 | 7093 | 7228 | 7363 | 7498 | 7633 | 7768 |
| 75 | 33 | | 5888 | 6022 | 6157 | 6291 | 6426 | 6561 | 6696 | 6830 | 6965 | 7100 | 7235 | 7370 | 7504 | 7639 | 7774 | 7909 | 8044 |
| 77 | 34 | | 0166 | 6300 | 6435 | 6569 | 6704 | 6838 | 6973 | 7107 | 7242 | 7377 | 7511 | 7646 | 7781 | 7915 | 8050 | 8185 | 8320 |
| 72 | 35 | 3 | 6444 | 6578 | 6712 | 6847 | 6981 | 7115 | 7250 | 7384 | 7519 | 7653 | 7788 | 7922 | 8057 | 8192 | 8326 | 8461 | 8596 |
| 81 | 36 | | 0722 | 6856 | 6990 | 7124 | 7258 | 7393 | 7527 | 7661 | 7796 | 7930 | 8064 | 8199 | 8333 | 8460 | 8602 | 8737 | 8871 |
| 84 | 37 | | 7000 | 7134 | 7268 | 7402 | 7536 | 7670 | 7804 | 79.18 | 8073 | 8207 | 8341 | 8475 | 8610 | 0744 | 8878 | 9013 | 9147 |
| 86 | 38 | | 7278 | 7412 | 7546 | 7680 | 7814 | 7947 | 8081 | 8215 | 8350 | 8181 | 8618 | 8752 | 8886 | 9020 | 9154 | 9289 | 9423 |
| 88 | 39 | | 7656 | 7690 | 7823 | 7957 | 8091 | 8225 | 8359 | 8493 | 8627 | 8760 | 8894 | 9028 | 9162 | 9296 | 9431 | 9565 | 9699 |
| 90 | 40 | 3 | 7834 | 7968 | 8101 | 8235 | 0369 | 8502 | 8636 | 8770 | 8904 | 9037 | 9171 | 9305 | 9439 | 9573 | 9707 | 9841 | 9975 |
| 93 | 41 | 3 (4) | 8112 | 8246 | 8379 | 8513 | 8646 | 8780 | 8913 | 9047 | 9180 | 9314 | 2448 | 2502 | 9715 | 9849 | 9983 | 0117 | 0250 |
| 25 | 42 | | 8320 | 8524 | 8657 | 8790 | 8924 | 9057 | 9191 | 9324 | 9458 | 2591 | 9725 | 2858 | 9992 | 0125 | 0259 | 0393 | 0526 |
| 97 | 43 | | 8668 | 8802 | 8935 | 9068 | 9201 | 9335 | 9460 | 9601 | 9735 | 9808 | 0001 | 0135 | 0268 | 0402 | 0535 | 0669 | 0802 |
| 29 | 44 | | 8947 | 9660 | 9213 | 9346 | 9479 | 9612 | 9745 | 9878 | 0012 | 0145 | 0270 | 0411 | 0545 | 0670 | 0811 | 0945 | 1078 |
| 162 | 45 | 3 (4) | 2225 | 9358 | 9491 | 9624 | 9756 | 9896 | 6023 | 0156 | 0209 | 0422 | 6555 | 0688 | 0821 | 0954 | 1088 | 1221 | 1354 |
| 104 | 46 | | 2503 | 9636 | 2769 | 9901 | 0034 | 0167 | 0300 | 0433 | 0566 | 0699 | 0032 | 0965 | 1098 | 1231 | 1361 | 1497 | 1630 |
| 106 | 47 | | 2781 | 9914 | 0047 | 0179 | 0312 | 0445 | 0577 | 0716 | 0043 | 0976 | 1109 | 1242 | 1374 | 1507 | 1646 | 1773 | 1906 |
| 108 | 46 | 4 | 8060 | 0192 | 0325 | 0457 | 0590 | 0722 | 0855 | 0287 | 1120 | 1253 | 1386 | 1518 | 1651 | 1784 | 1917 | 2049 | 2182 |
| 111 | 42 | | 8338 | 0470 | 0663 | 6735 | 0868 | 1600 | 1132 | 1265 | 1397 | 1530 | 1662 | 1795 | 1920 | 2060 | 2123 | 2325 | 2458 |
| 113 | 50 | 4 | 8616 | 0742 | 0881 | 1013 | 1145 | 1278 | 1410 | 1542 | 1675 | 1807 | 1939 | 2072 | 2204 | 2337 | 2469 | 2602 | 2734 |
| 115 | 51 | | 0895 | 1027 | 1152 | 1221 | 1423 | 1555 | 1687 | 1820 | 1952 | 2084 | 2216 | 2349 | 2481 | 2613 | 2745 | 2878 | 3010 |
| 117 | 52 | | 1173 | 1305 | 1437 | 1569 | 1701 | 1833 | 1965 | 2097 | 2229 | 2361 | 2493 | 2625 | 2757 | 2890 | 3022 | 3154 | 3286 |
| 120 | 53 | | 1451 | 1583 | 1715 | 1847 | 1972 | 2111 | 2242 | 2374 | 2506 | 2638 | 2770 | 2902 | 3034 | 3166 | 3298 | 3430 | 3562 |
| 122 | 54 | | 1730 | 1861 | 1923 | 2125 | 2257 | 2386 | 2520 | 2652 | 2784 | 2915 | 3047 | 3179 | 3311 | 3143 | 3575 | 3707 | 3839 |
| 124 | 55 | 4 | 2008 | 2146 | 2271 | 2403 | 2534 | 2666 | 2798 | 2929 | 3061 | 3193 | 3324 | 3436 | 3588 | 3719 | 3851 | 3963 | 4115 |
| 126 | 56 | | 2287 | 2418 | 2566 | 2661 | 2612 | 2244 | 3075 | 3207 | 3338 | 3470 | 3601 | 3733 | 3864 | 3996 | 4128 | 4259 | 4391 |
| 129 | 57 | | 2565 | 2697 | 2626 | 2952 | 3090 | 3222 | 3353 | 3484 | 3616 | 3747 | 3878 | 4010 | 4141 | 4273 | 4404 | 4536 | 4667 |
| 131 | 58 | | 2844 | 2975 | 3106 | 3237 | 3368 | 3499 | 3630 | 3762 | 3823 | 4024 | 4155 | 4287 | 4418 | 4549 | 4681 | 4812 | 4943 |
| 133 | 52 | | 3122 | 3253 | 3384 | 3515 | 3646 | 3777 | 3968 | 4039 | 4170 | 4301 | 4433 | 4564 | 4695 | 4626 | 4957 | 5088 | 5220 |

| Num. IV para hallar la distancia corregida. | | |
|---|---|---|
| Partes para segundos. | 74° | Núm. |
| 8 | 0' | 2 4363 |
| 5 | 1 | 4642 |
| 9 | 2 | 4922 |
| 14 | 3 | 5202 |
| 19 | 4 | 5481 |
| 23 | 5 | 2 5761 |
| 28 | 6 | 6041 |
| 33 | 7 | 6321 |
| 37 | 8 | 6600 |
| 42 | 9 | 6880 |
| 47 | 10 | 2 7160 |
| 51 | 11 | 7440 |
| 56 | 12 | 7720 |
| 61 | 13 | 8000 |
| 65 | 14 | 8280 |
| 70 | 15 | 2 8560 |
| 75 | 16 | 8840 |
| 79 | 17 | 9120 |
| 84 | 18 | 9400 |
| 89 | 19 | 9680 |
| 93 | 20 | 2 9960 |
| 98 | 21 | 3 0210 |
| 103 | 22 | 0520 |
| 107 | 23 | 0800 |
| 112 | 24 | 1080 |
| 117 | 25 | 3 1360 |
| 121 | 26 | 1641 |
| 126 | 27 | 1921 |
| 131 | 28 | 2201 |
| 135 | 29 | 2481 |
| 140 | 30 | 3 2762 |
| 115 | 31 | 3042 |
| 149 | 32 | 3322 |
| 154 | 33 | 3603 |
| 159 | 31 | 3883 |
| 163 | 35 | 3 4163 |
| 168 | 36 | 4444 |
| 173 | 37 | 4724 |
| 177 | 36 | 5005 |
| 182 | 39 | 5285 |
| 187 | 40 | 3 5566 |
| 191 | 41 | 5846 |
| 196 | 42 | 6127 |
| 201 | 43 | 6408 |
| 205 | 44 | 6688 |
| 210 | 45 | 3 6969 |
| 215 | 40 | 7249 |
| 219 | 47 | 7530 |
| 224 | 48 | 7811 |
| 229 | 49 | 8092 |
| 233 | 50 | 3 8372 |
| 238 | 51 | 8653 |
| 243 | 52 | 8934 |
| 247 | 53 | 9215 |
| 252 | 54 | 9495 |
| 257 | 55 | 3 9776 |
| 261 | 56 | 4 6057 |
| 266 | 57 | 0336 |
| 271 | 56 | 0619 |
| 275 | 59 | 0900 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 75° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 75° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 1161 | 1311 | 1442 | 1572 | 1703 | 1833 | 1264 | 2094 | 2225 | 2355 | 2486 | 2617 | 2747 | 2270 | 3009 | 3132 | 3278 | 220 | 0' | 7 5352 |
| 2 | 1 | | 1462 | 1592 | 1722 | 1853 | 1983 | 2113 | 2244 | 2374 | 2505 | 2535 | 2765 | 2895 | 3027 | 3157 | 3288 | 3418 | 3542 | 275 | 1 | 5078 |
| 4 | 2 | | 1743 | 1873 | 2003 | 2133 | 2264 | 2393 | 2524 | 2554 | 2785 | 2915 | 3245 | 3176 | 3306 | 3436 | 3567 | 3627 | 3020 | 271 | 2 | 4728 |
| 6 | 3 | | 2024 | 2154 | 2284 | 2414 | 2544 | 2674 | 2804 | 2934 | 3064 | 3195 | 3325 | 3455 | 3585 | 3715 | 3846 | 3976 | 4105 | 266 | 3 | 4512 |
| 8 | 4 | | 2305 | 2435 | 2565 | 2695 | 2825 | 2954 | 3084 | 3214 | 3344 | 3474 | 3604 | 3735 | 3065 | 3095 | 4125 | 4255 | 4385 | 261 | 4 | 4239 |
| 11 | 5 | 4 | 2586 | 2715 | 2845 | 2975 | 3105 | 3235 | 3365 | 3494 | 3624 | 3754 | 3884 | 4014 | 4144 | 4274 | 4404 | 4534 | 4664 | 257 | 5 | 7 3259 |
| 13 | 6 | | 2867 | 2997 | 3126 | 3256 | 3386 | 3515 | 3645 | 3775 | 3904 | 4034 | 4164 | 4224 | 4423 | 4553 | 4683 | 4813 | 4943 | 252 | 6 | 3672 |
| 15 | 7 | | 3148 | 3278 | 3407 | 3537 | 3666 | 3796 | 3925 | 4055 | 4184 | 4314 | 4443 | 4573 | 4703 | 4832 | 4262 | 5092 | 5222 | 247 | 7 | 3408 |
| 17 | 8 | | 3429 | 3659 | 3688 | 3817 | 3947 | 4075 | 4205 | 4335 | 4464 | 4594 | 4723 | 4853 | 4982 | 5112 | 5241 | 5371 | 6500 | 243 | 2 | 3120 |
| 19 | 9 | | 3711 | 3840 | 3969 | 4098 | 4227 | 4357 | 4480 | 4615 | 4744 | 4874 | 5003 | 5132 | 5252 | 5301 | 5521 | 5550 | 5770 | 238 | 2 | 2840 |
| 21 | 10 | 4 | 3992 | 4121 | 4250 | 4379 | 4508 | 4637 | 1765 | 4895 | 5024 | 5154 | 5283 | 5412 | 5511 | 5670 | 5800 | 5929 | 5058 | 233 | 12 | 7 2560 |
| 23 | 11 | | 4273 | 4402 | 4531 | 4660 | 1789 | 4917 | 5045 | 5175 | 5304 | 5433 | 5562 | 5692 | 5821 | 5050 | 6072 | 6208 | 6337 | 229 | 11 | 2280 |
| 25 | 12 | | 4554 | 4683 | 4812 | 4940 | 5069 | 5198 | 5327 | 5456 | 5585 | 5713 | 5842 | 5971 | 6100 | 6229 | 6358 | 6407 | 6616 | 224 | 12 | 2000 |
| 27 | 13 | | 4835 | 4964 | 5003 | 5221 | 5350 | 5479 | 5607 | 5735 | 5865 | 5993 | 6122 | 6251 | 6380 | 6509 | 6637 | 6766 | 6895 | 219 | 13 | 1720 |
| 29 | 14 | | 5117 | 5245 | 5374 | 5502 | 5631 | 5759 | 5888 | 6015 | 6145 | 6273 | 6402 | 6531 | 6559 | 6788 | 6917 | 7045 | 7174 | 215 | 14 | 1440 |
| 32 | 15 | 4 | 5398 | 5526 | 5655 | 5783 | 5911 | 6040 | 6168 | 5295 | 6425 | 6553 | 6682 | 6810 | 6039 | 7067 | 7196 | 7325 | 7453 | 210 | 16 | 7 1150 |
| 34 | 16 | | 5679 | 5807 | 5935 | 6064 | 6102 | 6320 | 6448 | 5577 | 6705 | 5833 | 6962 | 7000 | 7219 | 7347 | 7475 | 7604 | 7732 | 205 | 16 | 0880 |
| 36 | 17 | | 5961 | 6089 | 6217 | 6345 | 5473 | 5501 | 6720 | 5857 | 6985 | 7113 | 7242 | 7370 | 7498 | 7626 | 7755 | 7803 | 8011 | 201 | 17 | 0600 |
| 38 | 18 | | 6242 | 6370 | 5498 | 6626 | 6754 | 5882 | 7009 | 7138 | 7265 | 7301 | 7622 | 7650 | 7778 | 7905 | 0034 | 8162 | 8220 | 126 | 18 | 0320 |
| 40 | 10 | | 6523 | 6651 | 6779 | 6907 | 7034 | 7162 | 7290 | 7418 | 7545 | 7674 | 7802 | 7020 | 0057 | 8185 | 8313 | 8441 | 8569 | 191 | 10 | 0040 |
| 42 | 20 | 4 | 6805 | 6932 | 7060 | 7188 | 7315 | 7443 | 7571 | 7698 | 7826 | 7951 | 8082 | 8209 | 8337 | 8465 | 8593 | 8721 | 8849 | 187 | 20 | 6 9760 |
| 44 | 21 | | 7085 | 7214 | 7341 | 7460 | 7596 | 7724 | 7051 | 7979 | 8105 | 8234 | 8362 | 8489 | 8617 | 8745 | 8872 | 9800 | 9128 | 182 | 21 | 9480 |
| 46 | 22 | | 7360 | 7495 | 7622 | 7750 | 7877 | 8004 | 0132 | 8259 | 0387 | 8514 | 8642 | 8769 | 8807 | 9024 | 9152 | 0270 | 9407 | 177 | 22 | 9200 |
| 48 | 23 | | 7649 | 7776 | 7003 | 8031 | 8158 | 8285 | 8412 | 8540 | 8657 | 0794 | 8922 | 9049 | 9176 | 9304 | 9431 | 2559 | 9686 | 173 | 23 | 8920 |
| 51 | 24 | | 7931 | 0058 | 8185 | 8312 | 8439 | 8566 | 8693 | 8820 | 8917 | 9274 | 9202 | 9329 | 9456 | 9503 | 9711 | 9038 | 0965 | 160 | 24 | 8640 |
| 53 | 25 | 4 (6) | 0212 | 8339 | 8466 | 8593 | 8720 | 8847 | 8074 | 9101 | 9228 | 0355 | 9482 | 0609 | 9736 | 9863 | 9990 | 0117 | 0245 | 163 | 25 | 6 8352 |
| 65 | 26 | | 0494 | 8620 | 6747 | 8874 | 9001 | 2127 | 9254 | 9381 | 9508 | 9635 | 0762 | 0889 | 0016 | 0143 | 0270 | 0397 | 0524 | 159 | 26 | 8079 |
| 57 | 27 | | 8775 | 8902 | 9028 | 2165 | 9282 | 9408 | 9535 | 9662 | 9788 | 0915 | 0042 | 0169 | 0206 | 0422 | 0549 | 0676 | 0003 | 154 | 27 | 7792 |
| 59 | 28 | | 0057 | 9183 | 0310 | 9436 | 9563 | 9589 | 9816 | 9912 | 0069 | 0196 | 0322 | 0449 | 0575 | 0702 | 0820 | 0956 | 1002 | 149 | 28 | 7519 |
| 61 | 29 | | 0338 | 0465 | 9591 | 9717 | 9844 | 9970 | 0096 | 0223 | 0349 | 0176 | 0602 | 0729 | 0855 | 0982 | 1109 | 1235 | 1352 | 145 | 29 | 7230 |
| 63 | 30 | 4 (6) | 9620 | 0746 | 0872 | 0998 | 0125 | 0251 | 0377 | 0504 | 0630 | 0756 | 0883 | 1009 | 1135 | 1252 | 1388 | 1515 | 1541 | 140 | 30 | 6 6258 |
| 65 | 31 | | 9902 | 0028 | 0154 | 0280 | 0406 | 0532 | 0658 | 0701 | 0910 | 1037 | 1163 | 1289 | 1415 | 1541 | 1668 | 1794 | 1920 | 135 | 31 | 6678 |
| 67 | 32 | 6 | 0183 | 0309 | 0435 | 0561 | 0587 | 0813 | 0939 | 1055 | 1101 | 1317 | 1443 | 1569 | 1695 | 1821 | 1947 | 2074 | 2200 | 131 | 32 | 6397 |
| 70 | 33 | | 0465 | 0591 | 0715 | 0842 | 0068 | 1004 | 1220 | 1315 | 1471 | 1527 | 1723 | 1849 | 1975 | 2101 | 2227 | 2353 | 2479 | 126 | 33 | 6117 |
| 72 | 34 | | 0747 | 0873 | 0998 | 1123 | 1242 | 1375 | 1500 | 1626 | 1752 | 1878 | 2003 | 2129 | 2265 | 2381 | 2507 | 2633 | 2759 | 121 | 34 | 5837 |
| 74 | 35 | 5 | 1028 | 1154 | 1270 | 1405 | 1530 | 1656 | 1781 | 1907 | 2033 | 2158 | 2284 | 2409 | 2535 | 2661 | 2787 | 2212 | 3030 | 117 | 35 | 6 5556 |
| 76 | 36 | | 1310 | 1435 | 1561 | 1686 | 1811 | 1937 | 2062 | 2188 | 2313 | 2139 | 2564 | 2600 | 2815 | 2041 | 3056 | 3102 | 3318 | 112 | 36 | 6276 |
| 78 | 37 | | 1592 | 1717 | 1842 | 1967 | 2093 | 2218 | 2343 | 2468 | 2594 | 2719 | 2844 | 2970 | 3095 | 3221 | 3346 | 3472 | 3597 | 107 | 37 | 4995 |
| 80 | 38 | | 1874 | 1990 | 2124 | 2240 | 2374 | 2409 | 2624 | 2749 | 2874 | 3020 | 3125 | 3250 | 3375 | 3501 | 3526 | 3751 | 3077 | 123 | 38 | 4715 |
| 82 | 39 | | 2155 | 2280 | 2405 | 2530 | 2655 | 2780 | 2905 | 3030 | 3155 | 3280 | 3405 | 3530 | 3655 | 3781 | 3906 | 4031 | 4156 | 98 | 39 | 4434 |
| 84 | 40 | 5 | 2437 | 2552 | 2687 | 2812 | 2936 | 3051 | 3186 | 3311 | 3435 | 3561 | 3686 | 3811 | 3035 | 4051 | 4185 | 4311 | 4435 | 23 | 40 | 6 4164 |
| 86 | 41 | | 2710 | 2844 | 2968 | 3003 | 3218 | 3342 | 3467 | 3502 | 3715 | 3041 | 3056 | 4091 | 4215 | 4341 | 4455 | 4500 | 4715 | 29 | 41 | 3873 |
| 89 | 42 | | 3001 | 3125 | 3250 | 3374 | 3490 | 3623 | 3748 | 3873 | 3997 | 4122 | 4246 | 4371 | 4495 | 4621 | 4745 | 4070 | 4995 | 84 | 42 | 3592 |
| 91 | 43 | | 3283 | 3407 | 3531 | 3656 | 3780 | 3005 | 4020 | 4153 | 4278 | 4402 | 4527 | 4651 | 4776 | 4901 | 5025 | 5150 | 5274 | 70 | 43 | 3312 |
| 93 | 44 | | 3565 | 3689 | 3013 | 3037 | 4062 | 4106 | 4310 | 4434 | 4559 | 4683 | 4807 | 4032 | 5056 | 5181 | 5305 | 5430 | 5554 | 75 | 44 | 3031 |
| 05 | 45 | 5 | 3847 | 3071 | 4095 | 4210 | 4343 | 4467 | 4591 | 4715 | 4839 | 4964 | 5088 | 5212 | 5336 | 5461 | 5585 | 5709 | 5834 | 70 | 45 | 6 2751 |
| 97 | 46 | | 4129 | 4253 | 4376 | 4500 | 4624 | 4748 | 4872 | 4095 | 5120 | 5244 | 5368 | 5492 | 5617 | 5741 | 5865 | 5080 | 6113 | 65 | 46 | 2470 |
| 99 | 47 | | 4411 | 4534 | 4658 | 4702 | 4006 | 5030 | 5153 | 5277 | 5401 | 5525 | 5640 | 5773 | 5807 | 6021 | 6145 | 6260 | 6303 | 61 | 47 | 2189 |
| 101 | 48 | | 4603 | 4816 | 4040 | 5063 | 5187 | 5311 | 5435 | 5558 | 5682 | 5805 | 5020 | 6053 | 6177 | 6301 | 6425 | 6542 | 6673 | 56 | 40 | 1000 |
| 103 | 42 | | 4975 | 5898 | 5221 | 5345 | 5469 | 5592 | 5716 | 5839 | 5063 | 6086 | 6210 | 6334 | 6457 | 6581 | 6785 | 6820 | 6952 | 61 | 40 | 1620 |
| 106 | 62 | 5 | 6257 | 5380 | 5503 | 5627 | 5750 | 5873 | 5997 | 6120 | 6244 | 6367 | 6491 | 6614 | 6738 | 6861 | 6905 | 7102 | 7232 | 47 | 62 | 6 1347 |
| 108 | 51 | | 5530 | 5662 | 5785 | 5908 | 6031 | 6155 | 5278 | 6401 | 6525 | 6648 | 6771 | 6895 | 7018 | 7142 | 7265 | 7300 | 7512 | 42 | 51 | 1066 |
| 110 | 62 | | 6821 | 5044 | 6067 | 6100 | 6313 | 6436 | 6559 | 6602 | 6806 | 6029 | 7052 | 7175 | 7299 | 7422 | 7545 | 7668 | 7702 | 37 | 52 | 0785 |
| 112 | 53 | | 6103 | 6226 | 6340 | 6472 | 6595 | 6717 | 6840 | 6964 | 7007 | 7210 | 7333 | 7456 | 7579 | 7702 | 7825 | 7940 | 0072 | 33 | 53 | 0505 |
| 114 | 54 | | 6305 | 6500 | 6630 | 6753 | 6876 | 6090 | 7122 | 7245 | 7368 | 7400 | 7613 | 7736 | 7659 | 7982 | 0105 | 8228 | 0351 | 20 | 54 | 0224 |
| 116 | 65 | 5 | 6667 | 5790 | 6012 | 7035 | 7158 | 7280 | 7403 | 7526 | 7649 | 7771 | 7094 | 8017 | 8140 | 0263 | 8385 | 0508 | 8631 | 23 | 55 | 5 9943 |
| 118 | 56 | | 6040 | 7072 | 7194 | 7317 | 7430 | 7552 | 7684 | 7807 | 7930 | 8052 | 0175 | 0208 | 0420 | 8543 | 0665 | 8760 | 0911 | 10 | 56 | 2562 |
| 120 | 67 | | 7231 | 7354 | 7476 | 7698 | 7721 | 7843 | 7056 | 8088 | 8211 | 8333 | 8456 | 8578 | 8701 | 8823 | 8946 | 0068 | 0101 | 14 | 57 | 9381 |
| 122 | 68 | | 7514 | 7635 | 7758 | 7880 | 8002 | 8125 | 8247 | 8359 | 8492 | 8614 | 8736 | 8859 | 0001 | 0104 | 9226 | 0340 | 0471 | 2 | 58 | 9100 |
| 124 | 62 | | 7795 | 7918 | 8040 | 0162 | 8284 | 8106 | 8528 | 8551 | 8773 | 8895 | 0017 | 0130 | 0262 | 9384 | 0506 | 9629 | 9751 | 6 | 59 | 8819 |

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**TABLA X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 75° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 75° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 3400 | 3532 | 3663 | 3793 | 3224 | 4055 | 4186 | 4316 | 4448 | 4679 | 4710 | 4841 | 4272 | 5103 | 6234 | 5366 | 5426 | 0 | 0' | 4 1181 |
| 2 | 1 | | 3679 | 3810 | 3941 | 4071 | 4202 | 4333 | 4464 | 4594 | 4725 | 4856 | 4287 | 5118 | 6219 | 5372 | 5610 | 5641 | 5772 | 5 | 1 | 1462 |
| 4 | 2 | | 3968 | 4009 | 1219 | 4360 | 4480 | 4611 | 4741 | 4072 | 5003 | 5133 | 5264 | 6326 | 5526 | 6656 | 5787 | 5218 | 6049 | 2 | 2 | 1743 |
| 6 | 3 | | 4237 | 4367 | 4427 | 4628 | 4758 | 4889 | 5019 | 5150 | 5280 | 5411 | 5541 | 5672 | 5802 | 6933 | 6064 | 6124 | 6325 | 14 | 3 | 2024 |
| 0 | 4 | | 4515 | 4646 | 4776 | 4906 | 5035 | 5167 | 5297 | 5427 | 5558 | 5688 | 5818 | 5249 | 6070 | 6210 | 6340 | 6471 | 6601 | 12 | 4 | 2305 |
| 11 | 5 | 4 | 4724 | 4224 | 5064 | 5104 | 6314 | 5445 | 5575 | 5705 | 5035 | 5965 | 6096 | 6226 | 6356 | 6487 | 6617 | 6747 | 6878 | 23 | 6 | 4 2586 |
| 13 | 5 | | 6073 | 5203 | 6333 | 5463 | 5593 | 6723 | 5853 | 5283 | 6113 | 6243 | 6373 | 6503 | 6633 | 6763 | 6824 | 7024 | 7154 | 28 | 6 | 2867 |
| 16 | 7 | | 6351 | 5481 | 6611 | 5741 | 5871 | 6001 | 6130 | 5260 | 6390 | 6520 | 6650 | 6780 | 6910 | 7040 | 7170 | 7300 | 7431 | 33 | 7 | 3148 |
| 17 | 8 | | 5630 | 5760 | 5882 | 6012 | 6142 | 6272 | 6408 | 6538 | 6668 | 6728 | 6228 | 7057 | 7187 | 7317 | 7447 | 7577 | 7707 | 38 | 8 | 3429 |
| 19 | 9 | | 6202 | 6038 | 6168 | 6227 | 6427 | 6557 | 6686 | 6816 | 6945 | 7075 | 7205 | 7335 | 7464 | 7594 | 7724 | 7054 | 7283 | 42 | 9 | 3711 |
| 21 | 10 | 4 | 6188 | 6317 | 6446 | 6576 | 6706 | 6835 | 6264 | 7024 | 7223 | 7353 | 7482 | 7612 | 7741 | 7071 | 8001 | 8130 | 8260 | 47 | 10 | 4 3922 |
| 23 | 11 | | 6466 | 6526 | 6725 | 6854 | 6283 | 7113 | 7242 | 7371 | 7501 | 7630 | 7760 | 7889 | 8018 | 8148 | 8277 | 8407 | 8536 | 52 | 11 | 4273 |
| 25 | 12 | | 6745 | 5874 | 7003 | 7133 | 7262 | 7391 | 7520 | 7649 | 7778 | 7908 | 8037 | 8166 | 8296 | 8425 | 8564 | 8684 | 8813 | 66 | 12 | 4554 |
| 27 | 13 | | 7024 | 7153 | 7282 | 7411 | 7540 | 7669 | 7798 | 7927 | 8056 | 8185 | 8314 | 8444 | 8573 | 8702 | 8831 | 8960 | 9090 | 61 | 13 | 4836 |
| 29 | 14 | | 7303 | 7432 | 7561 | 7689 | 7818 | 7947 | 8076 | 8205 | 8334 | 8463 | 0592 | 8721 | 8850 | 8979 | 2108 | 2237 | 9366 | 66 | 14 | 5117 |
| 32 | 15 | 4 | 7582 | 7710 | 7832 | 7268 | 8097 | 8225 | 8354 | 8483 | 8612 | 8740 | 8862 | 8998 | 9127 | 9256 | 9385 | 2514 | 9643 | 70 | 15 | 4 5398 |
| 34 | 15 | | 7861 | 7989 | 8118 | 8246 | 8376 | 8503 | 8632 | 8761 | 8889 | 9018 | 2147 | 2276 | 9404 | 9533 | 9662 | 2721 | 9919 | 75 | 16 | 5679 |
| 36 | 17 | 4 (5) | 0140 | 8268 | 8396 | 8525 | 8653 | 8782 | 8910 | 9039 | 9167 | 2296 | 9424 | 9553 | 9681 | 2810 | 9939 | 0067 | 0126 | 80 | 17 | 5961 |
| 38 | 10 | | 8412 | 8547 | 8675 | 8803 | 8932 | 2060 | 2108 | 9317 | 2445 | 2573 | 2702 | 9830 | 9952 | 0087 | 0216 | 0344 | 0473 | 85 | 18 | 6242 |
| 40 | 19 | | 8698 | 8826 | 8954 | 2082 | 9210 | 9338 | 9466 | 9595 | 9723 | 9851 | 9979 | 0100 | 0236 | 0364 | 0493 | 0621 | 0742 | 89 | 19 | 6523 |
| 42 | 20 | 4 (5) | 8277 | 9104 | 9232 | 9360 | 9488 | 9616 | 9745 | 9873 | 0001 | 0129 | 0257 | 0385 | 0513 | 0611 | 0770 | 0898 | 1026 | 24 | 20 | 4 6805 |
| 44 | 21 | | 2255 | 9383 | 9511 | 9639 | 9767 | 2895 | 0023 | 0151 | 0272 | 0407 | 0534 | 0663 | 0721 | 0212 | 1047 | 1175 | 1303 | 99 | 21 | 7086 |
| 46 | 22 | | 9535 | 2662 | 9790 | 9218 | 0015 | 0173 | 0301 | 0429 | 0556 | 0684 | 0812 | 0910 | 1068 | 1196 | 1324 | 1452 | 1580 | 103 | 22 | 7368 |
| 48 | 23 | | 9814 | 9941 | 0069 | 0196 | 0324 | 0451 | 0579 | 0707 | 0834 | 0962 | 1090 | 1217 | 1345 | 1473 | 1601 | 1729 | 1856 | 108 | 23 | 7649 |
| 51 | 24 | 5 | 0093 | 0220 | 0347 | 0475 | 0602 | 0730 | 0857 | 0205 | 1112 | 1240 | 1367 | 1495 | 1623 | 1750 | 1878 | 2005 | 2133 | 113 | 24 | 7931 |
| 53 | 25 | 5 | 0372 | 0499 | 0626 | 0753 | 0881 | 1008 | 1135 | 1263 | 1320 | 1518 | 1645 | 1772 | 1900 | 2027 | 2155 | 2282 | 2410 | 117 | 25 | 4 8212 |
| 55 | 26 | | 0651 | 0778 | 0205 | 1032 | 1169 | 1287 | 1414 | 1541 | 1668 | 1725 | 1223 | 2050 | 2177 | 2305 | 2432 | 2559 | 2687 | 122 | 26 | 8494 |
| 57 | 27 | | 0930 | 1057 | 1184 | 1311 | 1438 | 1565 | 1692 | 1819 | 1946 | 2073 | 2200 | 2328 | 2455 | 2582 | 2709 | 2836 | 2264 | 127 | 27 | 8775 |
| 59 | 28 | | 1209 | 1336 | 1453 | 1520 | 1717 | 1843 | 1270 | 2097 | 2224 | 2351 | 2478 | 2605 | 2732 | 2859 | 2986 | 3113 | 3241 | 132 | 28 | 9057 |
| 61 | 29 | | 1488 | 1615 | 1742 | 1868 | 1995 | 2122 | 2249 | 2375 | 2502 | 2629 | 2756 | 2883 | 3010 | 3137 | 3264 | 3320 | 3517 | 136 | 29 | 9338 |
| 63 | 30 | 5 | 1768 | 1824 | 2021 | 2147 | 2274 | 2400 | 2527 | 2654 | 2780 | 2907 | 3034 | 3160 | 3287 | 3414 | 3541 | 3668 | 3794 | 141 | 30 | 4 9620 |
| 65 | 31 | | 2047 | 2173 | 2300 | 2426 | 2552 | 2679 | 2805 | 2932 | 3058 | 3185 | 3311 | 3438 | 3665 | 3621 | 3818 | 3245 | 4071 | 146 | 31 | 2202 |
| 67 | 32 | | 2326 | 2452 | 2579 | 2705 | 2831 | 2267 | 3084 | 3210 | 3336 | 3463 | 3509 | 3716 | 3842 | 3269 | 4095 | 4222 | 4348 | 160 | 32 | 6 0183 |
| 70 | 33 | | 2605 | 2731 | 2858 | 2984 | 3110 | 3236 | 3362 | 3488 | 3615 | 3741 | 3867 | 3993 | 4120 | 4246 | 4372 | 4492 | 4625 | 155 | 33 | 0465 |
| 72 | 34 | | 2885 | 3010 | 3137 | 3262 | 3380 | 3514 | 3641 | 3767 | 3823 | 4019 | 4145 | 4271 | 1397 | 4524 | 4650 | 4776 | 4902 | 160 | 34 | 0747 |
| 74 | 35 | 5 | 3164 | 3290 | 3416 | 3541 | 3667 | 3723 | 3919 | 4045 | 4171 | 4297 | 4423 | 4549 | 4675 | 4801 | 4927 | 5053 | 5172 | 164 | 35 | 5 1028 |
| 76 | 36 | | 3443 | 3569 | 3695 | 3820 | 3946 | 4072 | 4197 | 4323 | 4449 | 4575 | 4701 | 4827 | 4953 | 5070 | 5204 | 5330 | 5456 | 169 | 36 | 1310 |
| 78 | 37 | | 3723 | 3848 | 3974 | 4099 | 4225 | 4350 | 4476 | 4602 | 4727 | 4853 | 4279 | 5104 | 5230 | 5356 | 5482 | 5607 | 5733 | 174 | 37 | 1592 |
| 80 | 38 | | 4002 | 4127 | 4253 | 4378 | 4604 | 4629 | 4754 | 4880 | 5006 | 5131 | 5257 | 5382 | 5508 | 5633 | 5759 | 5885 | 6010 | 179 | 38 | 1874 |
| 82 | 39 | | 4281 | 4405 | 4532 | 4557 | 4782 | 4908 | 5033 | 5158 | 5284 | 5409 | 5535 | 5660 | 5785 | 5911 | 6036 | 6162 | 6288 | 183 | 39 | 2155 |
| 81 | 40 | 5 | 4561 | 4686 | 4811 | 4236 | 5061 | 5186 | 5312 | 5437 | 5562 | 5687 | 5813 | 5938 | 6063 | 6188 | 6314 | 6439 | 6565 | 188 | 40 | 5 2437 |
| 85 | 41 | | 4840 | 4965 | 5090 | 6215 | 5340 | 5465 | 5590 | 5715 | 5840 | 5965 | 6091 | 6216 | 6341 | 6466 | 6591 | 6717 | 6842 | 193 | 41 | 2719 |
| 82 | 42 | | 5120 | 5244 | 5362 | 5494 | 5619 | 5744 | 5869 | 5994 | 6119 | 5244 | 6369 | 6424 | 6619 | 6744 | 6869 | 6994 | 7112 | 197 | 42 | 3001 |
| 91 | 43 | | 5399 | 5524 | 5648 | 5773 | 5898 | 6023 | 6147 | 6272 | 6397 | 6522 | 6647 | 6772 | 6826 | 7021 | 7146 | 7271 | 7396 | 202 | 43 | 3283 |
| 93 | 44 | | 6678 | 5803 | 5928 | 6052 | 6177 | 6301 | 6426 | 5551 | 6675 | 6800 | 6225 | 7049 | 7174 | 7299 | 7424 | 7542 | 7673 | 207 | 44 | 3565 |
| 95 | 45 | 5 | 6958 | 6082 | 6207 | 6331 | 6456 | 6580 | 6705 | 6829 | 6954 | 7078 | 7203 | 7327 | 7452 | 7577 | 7701 | 7826 | 7951 | 211 | 45 | 5 3847 |
| 97 | 46 | | 6238 | 6362 | 6486 | 6610 | 6735 | 5859 | 6983 | 7108 | 7232 | 7356 | 7481 | 7606 | 7730 | 7854 | 7979 | 8103 | 8228 | 216 | 46 | 4129 |
| 99 | 47 | | 5517 | 6641 | 6765 | 6889 | 7014 | 7138 | 7262 | 7386 | 7510 | 7635 | 7759 | 7883 | 8008 | 8132 | 8256 | 8381 | 8505 | 221 | 47 | 4411 |
| 101 | 48 | | 5797 | 6921 | 7046 | 7169 | 7293 | 7417 | 7541 | 7665 | 7782 | 7913 | 8037 | 8161 | 8285 | 8410 | 8534 | 8668 | 8782 | 226 | 48 | 4693 |
| 103 | 49 | | 7076 | 7200 | 7324 | 7448 | 7572 | 7696 | 7812 | 7243 | 8067 | 8191 | 8315 | 8439 | 8563 | 8687 | 8812 | 0236 | 9060 | 230 | 49 | 4975 |
| 105 | 50 | 5 | 7356 | 7480 | 7603 | 7727 | 7851 | 7974 | 8098 | 8222 | 8346 | 8470 | 8593 | 8717 | 0841 | 8965 | 2089 | 9213 | 9337 | 236 | 60 | 5 6257 |
| 108 | 51 | | 7635 | 7752 | 7883 | 8006 | 8130 | 8253 | 8377 | 8501 | 8624 | 8748 | 8872 | 8995 | 9119 | 9243 | 9357 | 9421 | 9614 | 240 | 51 | 5532 |
| 110 | 52 | | 7915 | 8038 | 8152 | 8285 | 8409 | 8532 | 8656 | 8779 | 8903 | 9026 | 2150 | 9274 | 2397 | 2521 | 9644 | 9768 | 9892 | 244 | 62 | 5821 |
| 112 | 53 | 5 (6) | 8195 | 8318 | 8441 | 8565 | 8580 | 8811 | 8935 | 9068 | 9181 | 9305 | 9428 | 9552 | 9675 | 2792 | 9922 | 0046 | 0169 | 249 | 53 | 6103 |
| 114 | 54 | | 8475 | 8598 | 8721 | 8044 | 8967 | 9020 | 9213 | 9337 | 9460 | 9583 | 9706 | 9830 | 9953 | 0076 | 0200 | 0323 | 0447 | 254 | 64 | 5385 |
| 116 | 55 | 5 (6) | 8754 | 8877 | 9000 | 9123 | 9246 | 9369 | 9492 | 9615 | 9738 | 9862 | 9986 | 0108 | 0231 | 0354 | 0477 | 0601 | 0724 | 258 | 55 | 5 6667 |
| 118 | 56 | | 2034 | 9157 | 9280 | 9402 | 9525 | 9648 | 9771 | 9894 | 0017 | 0140 | 0263 | 0386 | 0502 | 0632 | 0755 | 0878 | 1001 | 263 | 56 | 6249 |
| 120 | 57 | | 9314 | 9436 | 9659 | 9682 | 2804 | 9927 | 0050 | 0173 | 0296 | 0418 | 0541 | 0664 | 0787 | 0910 | 1033 | 1156 | 1272 | 268 | 57 | 7231 |
| 122 | 58 | | 2624 | 9716 | 9839 | 9961 | 0084 | 0206 | 0329 | 0452 | 0574 | 0697 | 0820 | 0942 | 1065 | 1188 | 1311 | 1434 | 1556 | 273 | 58 | 7514 |
| 124 | 59 | | 2873 | 9296 | 0118 | 0241 | 0363 | 0485 | 0608 | 0730 | 0853 | 0975 | 1028 | 1221 | 1343 | 1466 | 1689 | 1711 | 1834 | 277 | 59 | 7796 |

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**TABLA X.** Número I para la suma de alturas aparentes / y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 76° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 18′ | Partes para segundos. | 76° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 5 (6) 8078 | 8200 | 8322 | 8444 | 8566 | 8688 | 8810 | 8932 | 9054 | 9176 | 9298 | 9420 | 9542 | 9664 | 9787 | 9909 | 0031 | 282 | 0′ | 5 8538 |
| 2 | 1 | 8360 | 8482 | 8604 | 8726 | 8847 | 8969 | 9091 | 9213 | 9335 | 9457 | 9579 | 9701 | 9823 | 9945 | 0067 | 0189 | 0311 | 277 | 1 | 8257 |
| 4 | 2 | 8643 | 8764 | 8886 | 9008 | 9129 | 9251 | 9373 | 9494 | 9616 | 9738 | 9860 | 9981 | 0103 | 0225 | 0347 | 0469 | 0591 | 273 | 2 | 7976 |
| 6 | 3 | 8925 | 9046 | 9168 | 9289 | 9411 | 9532 | 9654 | 9776 | 9897 | 0019 | 0140 | 0262 | 0384 | 0506 | 0627 | 0749 | 0871 | 268 | 3 | 7695 |
| 8 | 4 | 9207 | 9328 | 9450 | 9571 | 9693 | 9814 | 9935 | 0057 | 0178 | 0300 | 0421 | 0543 | 0665 | 0786 | 0908 | 1029 | 1151 | 263 | 4 | 7414 |
| 10 | 5 | 5 (6) 9490 | 9610 | 9732 | 9853 | 9974 | 0096 | 0217 | 0338 | 0460 | 0581 | 0702 | 0824 | 0945 | 1067 | 1188 | 1310 | 1431 | 258 | 5 | 5 7133 |
| 12 | 6 | 9772 | 9893 | 0014 | 0135 | 0256 | 0377 | 0498 | 0620 | 0741 | 0862 | 0983 | 1104 | 1226 | 1347 | 1468 | 1590 | 1711 | 254 | 6 | 6852 |
| 14 | 7 | 6 0054 | 0175 | 0296 | 0417 | 0538 | 0659 | 0780 | 0901 | 1022 | 1143 | 1264 | 1385 | 1506 | 1628 | 1749 | 1870 | 1991 | 249 | 7 | 6571 |
| 16 | 8 | 0337 | 0457 | 0578 | 0699 | 0820 | 0941 | 1062 | 1182 | 1303 | 1424 | 1545 | 1666 | 1787 | 1908 | 2029 | 2150 | 2271 | 244 | 8 | 6289 |
| 18 | 9 | 0619 | 0740 | 0860 | 0981 | 1102 | 1222 | 1343 | 1464 | 1585 | 1705 | 1826 | 1947 | 2068 | 2189 | 2310 | 2431 | 2551 | 240 | 9 | 6008 |
| 20 | 10 | 6 0902 | 1022 | 1142 | 1263 | 1384 | 1504 | 1626 | 1745 | 1866 | 1987 | 2107 | 2228 | 2349 | 2469 | 2590 | 2711 | 2832 | 235 | 10 | 5 5727 |
| 22 | 11 | 1184 | 1304 | 1425 | 1545 | 1666 | 1786 | 1906 | 2027 | 2147 | 2268 | 2388 | 2509 | 2629 | 2750 | 2870 | 2991 | 3112 | 230 | 11 | 5446 |
| 24 | 12 | 1466 | 1587 | 1707 | 1827 | 1947 | 2068 | 2188 | 2308 | 2429 | 2549 | 2669 | 2790 | 2910 | 3031 | 3151 | 3271 | 3392 | 226 | 12 | 5164 |
| 26 | 13 | 1749 | 1869 | 1989 | 2109 | 2229 | 2349 | 2470 | 2590 | 2710 | 2830 | 2950 | 3071 | 3191 | 3311 | 3432 | 3552 | 3672 | 221 | 13 | 4883 |
| 27 | 14 | 2032 | 2151 | 2271 | 2391 | 2511 | 2631 | 2751 | 2871 | 2991 | 3111 | 3232 | 3352 | 3472 | 3592 | 3712 | 3832 | 3952 | 216 | 14 | 4602 |
| 29 | 15 | 6 2314 | 2434 | 2554 | 2673 | 2793 | 2913 | 3033 | 3153 | 3273 | 3393 | 3513 | 3633 | 3753 | 3873 | 3993 | 4113 | 4233 | 211 | 15 | 5 4321 |
| 31 | 16 | 2597 | 2716 | 2836 | 2956 | 3075 | 3195 | 3315 | 3434 | 3554 | 3674 | 3794 | 3914 | 4033 | 4153 | 4273 | 4393 | 4513 | 207 | 16 | 4039 |
| 33 | 17 | 2879 | 2999 | 3118 | 3238 | 3357 | 3477 | 3596 | 3716 | 3836 | 3955 | 4075 | 4195 | 4314 | 4434 | 4554 | 4673 | 4793 | 202 | 17 | 3758 |
| 35 | 18 | 3162 | 3281 | 3401 | 3520 | 3639 | 3759 | 3878 | 3998 | 4117 | 4237 | 4356 | 4476 | 4595 | 4715 | 4834 | 4954 | 5074 | 197 | 18 | 3477 |
| 37 | 19 | 3444 | 3564 | 3683 | 3802 | 3921 | 4041 | 4160 | 4279 | 4399 | 4518 | 4637 | 4757 | 4876 | 4995 | 5116 | 5234 | 5354 | 193 | 19 | 3195 |
| 39 | 20 | 6 3727 | 3846 | 3965 | 4084 | 4203 | 4322 | 4442 | 4561 | 4680 | 4799 | 4919 | 5038 | 5157 | 5276 | 5395 | 5515 | 5634 | 188 | 20 | 5 2914 |
| 41 | 21 | 4010 | 4129 | 4248 | 4367 | 4485 | 4604 | 4723 | 4843 | 4962 | 5081 | 5200 | 5319 | 5438 | 5557 | 5676 | 5795 | 5915 | 183 | 21 | 2632 |
| 43 | 22 | 4292 | 4411 | 4530 | 4649 | 4768 | 4886 | 5005 | 5124 | 5243 | 5362 | 5481 | 5600 | 5719 | 5838 | 5957 | 6076 | 6195 | 179 | 22 | 2351 |
| 45 | 23 | 4575 | 4694 | 4812 | 4931 | 5050 | 5168 | 5287 | 5406 | 5525 | 5643 | 5762 | 5881 | 6000 | 6119 | 6238 | 6357 | 6476 | 174 | 23 | 2069 |
| 47 | 24 | 4858 | 4976 | 5095 | 5213 | 5332 | 5450 | 5569 | 5688 | 5806 | 5925 | 6044 | 6162 | 6281 | 6400 | 6518 | 6638 | 6756 | 169 | 24 | 1788 |
| 49 | 25 | 6 5141 | 5259 | 5377 | 5496 | 5614 | 5733 | 5851 | 5969 | 6088 | 6206 | 6325 | 6443 | 6562 | 6681 | 6799 | 6918 | 7036 | 164 | 25 | 5 1506 |
| 51 | 26 | 5423 | 5542 | 5660 | 5778 | 5896 | 6015 | 6133 | 6251 | 6369 | 6488 | 6606 | 6725 | 6843 | 6961 | 7080 | 7198 | 7317 | 160 | 26 | 1225 |
| 53 | 27 | 5706 | 5824 | 5942 | 6060 | 6178 | 6297 | 6415 | 6533 | 6651 | 6769 | 6888 | 7006 | 7124 | 7242 | 7361 | 7479 | 7597 | 155 | 27 | 0943 |
| 55 | 28 | 5989 | 6107 | 6225 | 6343 | 6461 | 6579 | 6697 | 6815 | 6933 | 7051 | 7169 | 7287 | 7405 | 7523 | 7642 | 7760 | 7878 | 150 | 28 | 0662 |
| 57 | 29 | 6272 | 6390 | 6507 | 6625 | 6743 | 7861 | 6979 | 7097 | 7214 | 7332 | 7450 | 7568 | 7686 | 7804 | 7922 | 8040 | 8158 | 146 | 29 | 0380 |
| 59 | 30 | 6 6555 | 6672 | 6790 | 6908 | 7025 | 7143 | 7261 | 7378 | 7496 | 7614 | 7732 | 7850 | 7967 | 8085 | 8203 | 8321 | 8439 | 141 | 30 | 5 0098 |
| 61 | 31 | 6837 | 6955 | 7072 | 7190 | 7308 | 7425 | 7543 | 7660 | 7778 | 7895 | 8013 | 8131 | 8249 | 8366 | 8484 | 8602 | 8720 | 136 | 31 | 4 9816 |
| 63 | 32 | 7120 | 7238 | 7355 | 7472 | 7590 | 7707 | 7825 | 7942 | 8060 | 8177 | 8295 | 8412 | 8530 | 8647 | 8765 | 8883 | 9000 | 132 | 32 | 9534 |
| 65 | 33 | 7403 | 7520 | 7638 | 7755 | 7872 | 7989 | 8107 | 8224 | 8341 | 8459 | 8576 | 8693 | 8811 | 8928 | 9046 | 9163 | 9281 | 127 | 33 | 9253 |
| 67 | 34 | 7686 | 7803 | 7920 | 8037 | 8155 | 8272 | 8389 | 8506 | 8623 | 8740 | 8858 | 8975 | 9092 | 9209 | 9327 | 9444 | 9561 | 122 | 34 | 8972 |
| 69 | 35 | 6 7959 | 8086 | 8203 | 8320 | 8437 | 8554 | 8671 | 8788 | 8905 | 9022 | 9139 | 9256 | 9373 | 9490 | 9608 | 9725 | 9842 | 117 | 35 | 4 8690 |
| 71 | 36 | 6 (7) 8252 | 8369 | 8486 | 8602 | 8719 | 8836 | 8953 | 9070 | 9187 | 9304 | 9421 | 9538 | 9655 | 9772 | 9889 | 0006 | 0123 | 113 | 36 | 8408 |
| 73 | 37 | 8535 | 8652 | 8768 | 8886 | 9002 | 9118 | 9235 | 9352 | 9469 | 9585 | 9702 | 9819 | 9936 | 0053 | 0170 | 0286 | 0403 | 108 | 37 | 8126 |
| 74 | 38 | 8818 | 8935 | 9051 | 9168 | 9284 | 9401 | 9517 | 9634 | 9751 | 9867 | 9984 | 0100 | 0217 | 0334 | 0451 | 0567 | 0684 | 103 | 38 | 7845 |
| 76 | 39 | 9101 | 9217 | 9334 | 9450 | 9567 | 9683 | 9799 | 9916 | 0032 | 0149 | 0265 | 0382 | 0498 | 0615 | 0732 | 0848 | 0965 | 99 | 39 | 7563 |
| 78 | 40 | 6 (7) 9384 | 9500 | 9617 | 9733 | 9849 | 9965 | 0082 | 0198 | 0314 | 0431 | 0547 | 0663 | 0780 | 0896 | 1013 | 1129 | 1246 | 94 | 40 | 4 7281 |
| 80 | 41 | 9667 | 9783 | 9899 | 0015 | 0132 | 0248 | 0364 | 0480 | 0596 | 0712 | 0829 | 0945 | 1061 | 1177 | 1294 | 1410 | 1526 | 89 | 41 | 6999 |
| 82 | 42 | 9950 | 0066 | 0182 | 0298 | 0414 | 0530 | 0646 | 0762 | 0878 | 0994 | 1110 | 1226 | 1343 | 1459 | 1575 | 1691 | 1807 | 85 | 42 | 6717 |
| 84 | 43 | 7 0233 | 0349 | 0465 | 0581 | 0697 | 0812 | 0928 | 1044 | 1160 | 1276 | 1392 | 1508 | 1624 | 1740 | 1856 | 1972 | 2088 | 80 | 43 | 6435 |
| 86 | 44 | 0516 | 0632 | 0748 | 0863 | 0979 | 1095 | 1211 | 1326 | 1442 | 1558 | 1674 | 1789 | 1905 | 2021 | 2137 | 2253 | 2369 | 75 | 44 | 6153 |
| 88 | 45 | 7 0800 | 0915 | 1031 | 1146 | 1262 | 1377 | 1493 | 1608 | 1724 | 1840 | 1955 | 2071 | 2187 | 2302 | 2418 | 2534 | 2650 | 70 | 45 | 4 5871 |
| 90 | 46 | 1083 | 1198 | 1313 | 1429 | 1544 | 1660 | 1775 | 1891 | 2006 | 2122 | 2237 | 2353 | 2468 | 2584 | 2699 | 2815 | 2931 | 66 | 46 | 5589 |
| 92 | 47 | 1366 | 1481 | 1596 | 1712 | 1827 | 1942 | 2057 | 2173 | 2288 | 2403 | 2519 | 2634 | 2750 | 2866 | 2981 | 3096 | 3211 | 61 | 47 | 5307 |
| 94 | 48 | 1649 | 1764 | 1879 | 1994 | 2109 | 2225 | 2340 | 2455 | 2570 | 2685 | 2801 | 2916 | 3031 | 3146 | 3262 | 3377 | 3492 | 56 | 48 | 5025 |
| 96 | 49 | 1932 | 2047 | 2162 | 2277 | 2392 | 2507 | 2622 | 2737 | 2852 | 2967 | 3082 | 3197 | 3313 | 3428 | 3543 | 3658 | 3773 | 52 | 49 | 4743 |
| 98 | 50 | 7 2216 | 2330 | 2445 | 2560 | 2675 | 2790 | 2904 | 3019 | 3134 | 3249 | 3364 | 3479 | 3594 | 3709 | 3824 | 3939 | 4054 | 47 | 50 | 4 4461 |
| 100 | 51 | 2498 | 2613 | 2728 | 2843 | 2957 | 3072 | 3187 | 3302 | 3416 | 3531 | 3646 | 3761 | 3876 | 3990 | 4105 | 4220 | 4335 | 42 | 51 | 4179 |
| 102 | 52 | 2782 | 2897 | 3011 | 3126 | 3240 | 3355 | 3469 | 3584 | 3698 | 3813 | 3928 | 4043 | 4157 | 4272 | 4387 | 4501 | 4616 | 38 | 52 | 3897 |
| 104 | 53 | 3065 | 3180 | 3294 | 3408 | 3523 | 3637 | 3752 | 3866 | 3981 | 4095 | 4210 | 4324 | 4439 | 4553 | 4668 | 4783 | 4897 | 33 | 53 | 3615 |
| 106 | 54 | 3349 | 3463 | 3577 | 3691 | 3806 | 3920 | 4034 | 4149 | 4263 | 4377 | 4491 | 4606 | 4721 | 4835 | 4949 | 5064 | 5178 | 28 | 54 | 3333 |
| 108 | 55 | 7 3632 | 3746 | 3860 | 3974 | 4088 | 4202 | 4317 | 4431 | 4545 | 4659 | 4773 | 4888 | 5002 | 5116 | 5231 | 5345 | 5459 | 23 | 55 | 4 3051 |
| 110 | 56 | 3915 | 4029 | 4143 | 4257 | 4371 | 4485 | 4599 | 4713 | 4827 | 4941 | 5055 | 5169 | 5284 | 5398 | 5512 | 5626 | 5740 | 19 | 56 | 2769 |
| 112 | 57 | 4199 | 4312 | 4426 | 4540 | 4654 | 4768 | 4882 | 4995 | 5109 | 5223 | 5337 | 5451 | 5565 | 5679 | 5793 | 5907 | 6021 | 14 | 57 | 2486 |
| 114 | 58 | 4482 | 4596 | 4709 | 4823 | 4937 | 5050 | 5164 | 5278 | 5392 | 5505 | 5619 | 5733 | 5847 | 5961 | 6075 | 6189 | 6302 | 9 | 58 | 2204 |
| 116 | 59 | 4765 | 4879 | 4993 | 5106 | 5220 | 5333 | 5447 | 5560 | 5674 | 5788 | 5901 | 6015 | 6129 | 6242 | 6356 | 6470 | 6584 | 5 | 59 | 1922 |

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**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 76° | Argumento Auxiliar. 17' | 18' | 12' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 76° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 0153 | 0275 | 0397 | 0520 | 0642 | 0764 | 0887 | 1009 | 1131 | 1254 | 1376 | 1499 | 1621 | 1744 | 1866 | 1909 | 2111 | 0 | 0' | 6 8078 |
| 2 | 1 | 0433 | 0555 | 0677 | 0799 | 0921 | 1014 | 1166 | 1288 | 1410 | 1533 | 1655 | 1777 | 1900 | 2022 | 2144 | 2267 | 2389 | 6 | 1 | 8360 |
| 4 | 2 | 0713 | 0836 | 0957 | 1079 | 1201 | 1323 | 1445 | 1567 | 1689 | 1811 | 1933 | 2055 | 2178 | 2300 | 2422 | 2544 | 2667 | 9 | 2 | 8613 |
| 5 | 3 | 0293 | 1115 | 1236 | 1358 | 1480 | 1602 | 1724 | 1846 | 1968 | 2020 | 2212 | 2331 | 2156 | 2578 | 2700 | 2822 | 2944 | 14 | 3 | 8925 |
| 8 | 4 | 1273 | 1394 | 1516 | 1630 | 1752 | 1881 | 2003 | 2125 | 2217 | 2368 | 2490 | 2612 | 2734 | 2856 | 2978 | 3100 | 3222 | 19 | 4 | 9207 |
| 10 | 5 | 6 1552 | 1674 | 1796 | 1917 | 2039 | 2160 | 2282 | 2104 | 2525 | 2617 | 2769 | 2890 | 3012 | 3131 | 3256 | 3378 | 3199 | 24 | 5 | 6 2490 |
| 12 | 6 | 1832 | 1954 | 2075 | 2197 | 2318 | 2140 | 2561 | 2683 | 2804 | 2926 | 3047 | 3169 | 3290 | 3412 | 3534 | 3655 | 3777 | 28 | 6 | 9772 |
| 14 | 7 | 2112 | 2234 | 2355 | 2476 | 2598 | 2719 | 2810 | 2962 | 3083 | 3204 | 3326 | 3447 | 3569 | 3690 | 3812 | 3933 | 4055 | 33 | 7 | 6 0054 |
| 16 | 8 | 2392 | 2513 | 2635 | 2756 | 2877 | 2998 | 3119 | 3241 | 3362 | 3403 | 3604 | 3726 | 3847 | 3968 | 4090 | 4211 | 4332 | 38 | 8 | 0337 |
| 18 | 9 | 2672 | 2793 | 2914 | 3035 | 3156 | 3277 | 3398 | 3526 | 3611 | 3762 | 3883 | 4004 | 4125 | 4216 | 4368 | 4489 | 4610 | 42 | 9 | 0619 |
| 20 | 10 | 6 2952 | 3073 | 3194 | 3315 | 3136 | 3557 | 3678 | 3799 | 3920 | 1040 | 4161 | 4283 | 4404 | 4525 | 4646 | 4767 | 4888 | 47 | 10 | 6 0902 |
| 22 | 11 | 3232 | 3353 | 3474 | 3595 | 3715 | 3836 | 3957 | 4078 | 4198 | 4319 | 4440 | 4561 | 4682 | 4803 | 4921 | 5045 | 5166 | 62 | 11 | 1184 |
| 24 | 12 | 3512 | 3533 | 3754 | 3874 | 3995 | 1115 | 4236 | 4357 | 4477 | 4598 | 4719 | 4839 | 4960 | 5081 | 5202 | 6323 | 5443 | 57 | 12 | 1467 |
| 26 | 13 | 3793 | 3913 | 1033 | 4154 | 4274 | 4395 | 4515 | 4636 | 4756 | 4877 | 4997 | 5118 | 5239 | 5359 | 5480 | 5601 | 5721 | 61 | 13 | 1749 |
| 28 | 14 | 4073 | 4193 | 4313 | 4433 | 4554 | 4674 | 4794 | 4915 | 5035 | 5156 | 5276 | 5397 | 5517 | 5637 | 5758 | 5879 | 5999 | 66 | 14 | 2032 |
| 30 | 15 | 6 4353 | 4473 | 4593 | 4713 | 4833 | 4953 | 5074 | 5194 | 5314 | 5434 | 5555 | 5675 | 5796 | 5916 | 6036 | 6157 | 6277 | 71 | 15 | 6 2314 |
| 32 | 16 | 4633 | 4753 | 4873 | 4993 | 5113 | 5233 | 5353 | 5473 | 6593 | 5713 | 5033 | 5954 | 6071 | 6194 | 6314 | 6435 | 6555 | 75 | 16 | 2597 |
| 34 | 17 | 4913 | 5033 | 5153 | 5273 | 5392 | 5512 | 5632 | 5752 | 5872 | 5992 | 6112 | 6232 | 6352 | 6472 | 6592 | 6713 | 6833 | 80 | 17 | 2879 |
| 36 | 18 | 5193 | 5313 | 5133 | 5552 | 5672 | 5792 | 5912 | 6031 | 6151 | 6271 | 6391 | 6511 | 6631 | 6751 | 6870 | 6991 | 7111 | 85 | 18 | 3162 |
| 38 | 19 | 5473 | 5593 | 5713 | 5832 | 5952 | 6071 | 6191 | 6311 | 6430 | 6550 | 6670 | 6789 | 6909 | 7022 | 7148 | 7269 | 7389 | 90 | 19 | 3444 |
| 39 | 20 | 6 5754 | 5873 | 5992 | 6112 | 6231 | 6351 | 6470 | 6590 | 6709 | 6829 | 6948 | 7068 | 7188 | 7307 | 7426 | 7547 | 7666 | 94 | 20 | 6 3727 |
| 41 | 21 | 6034 | 6153 | 6272 | 6392 | 6511 | 6630 | 6750 | 6869 | 6988 | 7108 | 7227 | 7347 | 7466 | 7586 | 7705 | 7825 | 7944 | 99 | 21 | 4010 |
| 43 | 22 | 6314 | 6433 | 6552 | 6672 | 6791 | 6910 | 7029 | 7148 | 7268 | 7387 | 7506 | 7625 | 7715 | 7064 | 7983 | 8103 | 8222 | 104 | 22 | 4292 |
| 46 | 23 | 6594 | 6713 | 6832 | 6951 | 7070 | 7189 | 7309 | 7428 | 7547 | 7666 | 7785 | 7904 | 8023 | 8142 | 8262 | 8381 | 8508 | 108 | 23 | 4575 |
| 47 | 24 | 6875 | 6994 | 7112 | 7231 | 7350 | 7469 | 7588 | 7707 | 7826 | 7945 | 8064 | 8183 | 8302 | 8421 | 8510 | 8659 | 8778 | 113 | 24 | 4858 |
| 49 | 25 | 6 7155 | 7274 | 7392 | 7511 | 7630 | 7749 | 7867 | 7986 | 8105 | 8224 | 8343 | 8462 | 8580 | 8699 | 8818 | 8937 | 9056 | 118 | 25 | 6 5141 |
| 51 | 26 | 7435 | 7554 | 7673 | 7791 | 7910 | 8028 | 8147 | 8266 | 8384 | 8503 | 8622 | 8740 | 8869 | 8978 | 9097 | 9216 | 9334 | 123 | 26 | 6423 |
| 53 | 27 | 7716 | 7834 | 7953 | 8071 | 8189 | 8308 | 8426 | 8545 | 8663 | 8782 | 8901 | 9019 | 9138 | 9256 | 9375 | 9194 | 9612 | 127 | 27 | 5706 |
| 55 | 28 | 7996 | 8114 | 8233 | 8351 | 8469 | 8588 | 8706 | 8824 | 8943 | 9061 | 9179 | 9298 | 9416 | 9635 | 9653 | 9772 | 9890 | 132 | 28 | 5989 |
| 57 | 29 | 6 (7) 8277 | 8395 | 8513 | 8631 | 8749 | 8867 | 8985 | 9104 | 9222 | 9340 | 9458 | 9577 | 9695 | 9813 | 9932 | 0050 | 0168 | 137 | 29 | 6272 |
| 59 | 30 | 6 (7) 8557 | 8675 | 8793 | 8911 | 9029 | 9147 | 9265 | 9383 | 9501 | 9619 | 9737 | 9855 | 9974 | 0092 | 0210 | 0328 | 0447 | 141 | 30 | 6 6555 |
| 61 | 31 | 8837 | 8955 | 9073 | 9191 | 9309 | 9427 | 9545 | 9663 | 2780 | 9898 | 0016 | 0134 | 0252 | 0371 | 0489 | 0607 | 0725 | 146 | 31 | 6837 |
| 63 | 32 | 9118 | 9236 | 9353 | 9471 | 9589 | 9706 | 9824 | 9942 | 0060 | 0178 | 0295 | 0413 | 0531 | 0649 | 0767 | 0885 | 1003 | 151 | 32 | 7120 |
| 65 | 33 | 9398 | 9516 | 9633 | 9751 | 9869 | 9986 | 0104 | 0221 | 0339 | 0457 | 0574 | 0692 | 0810 | 0928 | 1045 | 1163 | 1281 | 156 | 33 | 7403 |
| 67 | 34 | 9679 | 9796 | 9914 | 0031 | 0148 | 0266 | 0383 | 0501 | 0618 | 0736 | 0854 | 0971 | 1089 | 1206 | 1324 | 1442 | 1659 | 160 | 34 | 7686 |
| 69 | 35 | 6 (7) 9959 | 0077 | 0124 | 0311 | 0428 | 0546 | 0663 | 0780 | 0098 | 1015 | 1133 | 1250 | 1367 | 1485 | 1602 | 1720 | 1838 | 165 | 35 | 6 7969 |
| 71 | 36 | 7 0240 | 0357 | 0474 | 0591 | 0708 | 0826 | 0943 | 1060 | 1177 | 1294 | 1412 | 1529 | 1616 | 1764 | 1881 | 1998 | 2116 | 170 | 36 | 0252 |
| 73 | 37 | 0520 | 0637 | 0754 | 0871 | 0988 | 1105 | 1222 | 1340 | 1467 | 1574 | 1691 | 1808 | 1925 | 2042 | 2160 | 2277 | 2394 | 174 | 37 | 8535 |
| 75 | 38 | 0801 | 0918 | 1035 | 1151 | 1268 | 1385 | 1502 | 1619 | 1736 | 1853 | 1970 | 2087 | 2204 | 2321 | 2438 | 2555 | 2672 | 179 | 38 | 8818 |
| 77 | 39 | 1082 | 1198 | 1315 | 1432 | 1548 | 1665 | 1782 | 1899 | 2015 | 2132 | 2249 | 2366 | 2483 | 2600 | 2717 | 2834 | 2951 | 184 | 39 | 9101 |
| 79 | 40 | 7 1362 | 1479 | 1595 | 1712 | 1828 | 1945 | 2062 | 2178 | 2295 | 2412 | 2528 | 2645 | 2762 | 2879 | 2995 | 3112 | 3229 | 189 | 40 | 6 9384 |
| 81 | 41 | 1643 | 1759 | 1876 | 1992 | 2108 | 2225 | 2341 | 2458 | 2574 | 2691 | 2808 | 2921 | 3041 | 3157 | 3274 | 3391 | 3507 | 193 | 41 | 9667 |
| 83 | 42 | 1923 | 2640 | 2156 | 2272 | 2389 | 2506 | 2621 | 2738 | 2854 | 2970 | 3087 | 3203 | 3320 | 3436 | 3553 | 3669 | 3786 | 198 | 42 | 9950 |
| 86 | 43 | 2204 | 2320 | 2436 | 2552 | 2669 | 2785 | 2901 | 3017 | 3133 | 3250 | 3366 | 3482 | 3599 | 3715 | 3831 | 3948 | 4064 | 203 | 43 | 7 0233 |
| 87 | 44 | 2485 | 2601 | 2717 | 2833 | 2949 | 3065 | 3101 | 3297 | 3113 | 3529 | 3645 | 3761 | 3878 | 3994 | 4110 | 4226 | 4342 | 207 | 44 | 0616 |
| 89 | 45 | 7 2765 | 2881 | 2997 | 3113 | 3229 | 3345 | 3461 | 3577 | 3693 | 3809 | 3925 | 4041 | 4157 | 4273 | 4389 | 4605 | 4621 | 212 | 45 | 7 0800 |
| 91 | 46 | 3046 | 3162 | 3278 | 3393 | 3509 | 3625 | 3741 | 3856 | 3972 | 4088 | 4204 | 4320 | 1436 | 4561 | 4667 | 4783 | 4899 | 217 | 46 | 1083 |
| 93 | 47 | 3327 | 3443 | 3558 | 3674 | 3789 | 3905 | 4020 | 4136 | 4252 | 4367 | 4483 | 4599 | 4715 | 4830 | 4946 | 5062 | 5178 | 222 | 47 | 1366 |
| 95 | 48 | 3608 | 3723 | 3839 | 3954 | 4069 | 4185 | 4300 | 4416 | 4531 | 4647 | 4762 | 4878 | 4994 | 5109 | 5225 | 5341 | 5456 | 226 | 40 | 1649 |
| 97 | 42 | 3889 | 4004 | 4119 | 4234 | 4350 | 4465 | 4680 | 4696 | 4811 | 1926 | 5042 | 5167 | 5273 | 5388 | 5604 | 5619 | 6735 | 231 | 49 | 1932 |
| 99 | 60 | 7 4169 | 4284 | 4400 | 4615 | 4630 | 4745 | 4860 | 4975 | 5091 | 5206 | 5321 | 5436 | 5562 | 5667 | 5782 | 5898 | 6013 | 236 | 50 | 7 2216 |
| 101 | 51 | 4450 | 4566 | 4680 | 4795 | 4910 | 5025 | 5140 | 5255 | 5370 | 5485 | 5601 | 5716 | 5831 | 5946 | 6061 | 6177 | 6292 | 241 | 61 | 2499 |
| 103 | 62 | 4731 | 4816 | 4961 | 5076 | 5190 | 5305 | 5420 | 5535 | 5650 | 5765 | 5880 | 5995 | 6110 | 6225 | 6340 | 6465 | 6570 | 246 | 62 | 2702 |
| 105 | 53 | 6012 | 5127 | 5241 | 5366 | 5471 | 5585 | 5700 | 5815 | 5930 | 6045 | 6159 | 6274 | 6389 | 6504 | 6619 | 6734 | 6849 | 250 | 53 | 3065 |
| 107 | 64. | 6293 | 6407 | 6522 | 5636 | 6751 | 5866 | 5980 | 6095 | 6209 | 6324 | 6439 | 6554 | 6668 | 6783 | 6898 | 7013 | 7127 | 255 | 54 | 3349 |
| 109 | 55 | 7 6574 | 5688 | 5802 | 5917 | 6031 | 6146 | 6260 | 6375 | 6489 | 6604 | 6718 | 6833 | 6947 | 7062 | 7177 | 7291 | 7406 | 259 | 65 | 7 3632 |
| 111 | 56 | 6855 | 5969 | 6083 | 6197 | 6312 | 6426 | 6540 | 6655 | 6769 | 6883 | 6998 | 7112 | 7227 | 7341 | 7456 | 7570 | 7685 | 264 | 56 | 3916 |
| 113 | 57 | 6135 | 6250 | 6364 | 6478 | 6592 | 6706 | 6820 | 6935 | 7049 | 7163 | 7277 | 7392 | 7506 | 7620 | 7736 | 7849 | 7963 | 269 | 57 | 4199 |
| 115 | 58 | 6416 | 6530 | 5644 | 6758 | 6872 | 6986 | 7100 | 7215 | 7329 | 7443 | 7567 | 7671 | 7785 | 7899 | 8014 | 8128 | 8242 | 274 | 58 | 4482 |
| 116 | 59 | 6697 | 6811 | 6925 | 7039 | 7153 | 7267 | 7381 | 7495 | 7608 | 7722 | 7836 | 7950 | 8064 | 8178 | 8292 | 8407 | 8521 | 278 | 59 | 4766 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente . . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 77° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 77° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 | 5049 | 5162 | 5276 | 5389 | 5509 | 6616 | 5729 | 5843 | 5956 | 6070 | 6183 | 6297 | 6110 | 6524 | 6637 | 6751 | 6863 | 283 | 0' | 4 1640 |
| 9 | 1 | | 6339 | 5445 | 5559 | 5679 | 5785 | 5899 | 6012 | 6125 | 6239 | 6352 | 6465 | 6579 | 6692 | 6805 | 6919 | 7032 | 7146 | 278 | 1 | 1357 |
| 4 | 2 | | 5616 | 5729 | 5842 | 5965 | 6068 | 6181 | 6294 | 6408 | 6521 | 6631 | 6747 | 6861 | 6974 | 7087 | 7200 | 7313 | 7427 | 274 | 2 | 1075 |
| 6 | 3 | | 5899 | 6012 | 6125 | 6238 | 6351 | 6464 | 6577 | 6690 | 6803 | 6916 | 7029 | 7142 | 7256 | 7369 | 7482 | 7595 | 7708 | 269 | 3 | 0793 |
| 7 | 4 | | 6183 | 6296 | 6408 | 6591 | 6634 | 6747 | 6860 | 6973 | 7086 | 7198 | 7311 | 7424 | 7537 | 7650 | 7763 | 7876 | 7989 | 964 | 4 | 0510 |
| 9 | 5 | 7 | 6466 | 6579 | 6692 | 6804 | 6917 | 7030 | 7142 | 7955 | 7368 | 7481 | 7593 | 7706 | 7819 | 7932 | 8045 | 8158 | 8971 | 269 | 5 | 4 0298 |
| 11 | 6 | | 6750 | 6862 | 6975 | 7087 | 7200 | 7312 | 7425 | 7538 | 7650 | 7763 | 7876 | 7988 | 8181 | 8214 | 8326 | 8439 | 8552 | 255 | 6 | 3 9946 |
| 13 | 7 | | 7033 | 7146 | 7958 | 7371 | 7483 | 7595 | 7708 | 7820 | 7933 | 8045 | 8158 | 8270 | 8383 | 8495 | 8608 | 8721 | 8833 | 250 | 7 | 9663 |
| 15 | 8 | | 7317 | 7499 | 7541 | 7654 | 7766 | 7878 | 7990 | 8103 | 8215 | 8397 | 8440 | 8552 | 8665 | 8777 | 8890 | 9002 | 9115 | 245 | 8 | 9381 |
| 16 | 9 | | 7601 | 7713 | 7825 | 7937 | 8049 | 8161 | 8973 | 8385 | 8498 | 8610 | 8722 | 8834 | 8947 | 9059 | 9171 | 9283 | 9396 | 241 | 9 | 9098 |
| 18 | 10 | 7 | 7884 | 7996 | 8108 | 8920 | 8332 | 8444 | 8556 | 8668 | 8780 | 8892 | 9001 | 9116 | 9228 | 9341 | 9453 | 9565 | 9677 | 236 | 18 | 3 6816 |
| 90 | 11 | | 8168 | 8980 | 8391 | 8503 | 8615 | 8727 | 8839 | 8951 | 9063 | 9174 | 9986 | 9398 | 9610 | 9629 | 9734 | 9846 | 9958 | 231 | 11 | 8533 |
| 92 | 12 | 7 (8) | 8451 | 8563 | 8675 | 8786 | 8898 | 9010 | 9129 | 9933 | 9345 | 9457 | 9569 | 9680 | 9799 | 9904 | 0016 | 0128 | 0240 | 928 | 12 | 8951 |
| 94 | 13 | | 8735 | 8847 | 8958 | 9078 | 9181 | 9293 | 9404 | 9516 | 9698 | 9739 | 9851 | 9963 | 0074 | 0186 | 0298 | 0409 | 0591 | 299 | 13 | 7968 |
| 26 | 14 | | 9019 | 9130 | 9241 | 9353 | 9464 | 9576 | 9687 | 9729 | 9910 | 0022 | 0133 | 0245 | 0356 | 0468 | 0579 | 0691 | 0803 | 217 | 14 | 7686 |
| 27 | 15 | 7 (8) | 9303 | 9414 | 9595 | 9636 | 9747 | 9859 | 9970 | 0081 | 0193 | 0304 | 0415 | 0527 | 0638 | 0750 | 0861 | 8972 | 1084 | 212 | 15 | 3 7403 |
| 99 | 16 | | 9586 | 9697 | 9808 | 9919 | 0031 | 0142 | 0953 | 0364 | 0475 | 0587 | 0698 | 0809 | 0920 | 1032 | 1143 | 1254 | 1365 | 207 | 16 | 7120 |
| 31 | 17 | | 9870 | 9981 | 0092 | 0903 | 0314 | 0425 | 0336 | 0647 | 0758 | 0869 | 0980 | 1091 | 1202 | 1313 | 1425 | 1536 | 1647 | 203 | 17 | 6838 |
| 33 | 18 | 8 | 8154 | 0264 | 0375 | 0486 | 0697 | 0708 | 0819 | 0930 | 1040 | 1161 | 1269 | 1373 | 1484 | 1595 | 1706 | 1817 | 1928 | 198 | 18 | 6556 |
| 35 | 19 | | 8437 | 0548 | 0659 | 0778 | 0880 | 0991 | 1109 | 1212 | 1323 | 1434 | 1545 | 1655 | 1766 | 1877 | 1988 | 2099 | 2210 | 193 | 19 | 6973 |
| 36 | 20 | 8 | 0721 | 0832 | 0942 | 1053 | 1163 | 1274 | 1385 | 1495 | 1606 | 1716 | 1827 | 1938 | 2048 | 2159 | 2270 | 2381 | 2491 | 189 | 20 | 3 5990 |
| 38 | 21 | | 1005 | 1116 | 1226 | 1336 | 1447 | 1557 | 1668 | 1778 | 1888 | 1999 | 2109 | 2220 | 2330 | 2141 | 2552 | 2662 | 2773 | 184 | 21 | 5708 |
| 40 | 22 | | 1289 | 1399 | 1509 | 1620 | 1730 | 1840 | 1951 | 2061 | 2171 | 2281 | 2392 | 2502 | 2613 | 2793 | 2833 | 2944 | 3054 | 179 | 92 | 5425 |
| 42 | 93 | | 1573 | 1683 | 1793 | 1903 | 2013 | 9123 | 2934 | 2344 | 2454 | 2564 | 2674 | 2784 | 2895 | 3005 | 3115 | 3296 | 3336 | 174 | 23 | 5142 |
| 44 | 24 | | 1857 | 1967 | 9077 | 2187 | 2297 | 9406 | 2517 | 2626 | 2737 | 2817 | 2957 | 3067 | 3177 | 3287 | 3397 | 3507 | 3618 | 170 | 24 | 4859 |
| 46 | 95 | 8 | 9141 | 2250 | 2360 | 2470 | 2580 | 2690 | 2800 | 9909 | 3019 | 3199 | 3939 | 3349 | 3459 | 3569 | 3679 | 3789 | 3899 | 165 | 25 | 3 4577 |
| 47 | 26 | | 9425 | 2534 | 2644 | 2753 | 2863 | 2973 | 3083 | 3192 | 3302 | 3412 | 3522 | 3632 | 3741 | 3851 | 3961 | 4071 | 4181 | 160 | 26 | 4224 |
| 49 | 27 | | 9708 | 2818 | 2997 | 3037 | 3146 | 3256 | 3366 | 3475 | 3585 | 3694 | 3804 | 3914 | 1094 | 4133 | 4243 | 4353 | 4462 | 156 | 27 | 4011 |
| 51 | 98 | | 2992 | 3109 | 3211 | 3320 | 3430 | 3539 | 3642 | 3758 | 3868 | 3977 | 4087 | 4196 | 4306 | 4415 | 4595 | 4634 | 4744 | 151 | 28 | 3728 |
| 53 | 29 | | 3976 | 3386 | 3495 | 3604 | 3713 | 3823 | 3939 | 4041 | 4151 | 4260 | 4369 | 4479 | 4588 | 4697 | 4807 | 4916 | 5026 | 146 | 29 | 3445 |
| 55 | 30 | 8 | 3560 | 3669 | 3779 | 3888 | 3997 | 4106 | 4215 | 4394 | 4433 | 4543 | 4659 | 4761 | 1870 | 1979 | 5089 | 5198 | 5307 | 141 | 38 | 3 3163 |
| 57 | 31 | | 3844 | 3953 | 4062 | 4171 | 4280 | 4389 | 4498 | 4607 | 4716 | 4895 | 4934 | 5043 | 5152 | 5262 | 5371 | 5480 | 5589 | 137 | 31 | 2880 |
| 68 | 39 | | 4198 | 4237 | 4346 | 4455 | 4564 | 4672 | 4781 | 4890 | 4999 | 5108 | 5217 | 5326 | 5435 | 5544 | 5653 | 5762 | 5871 | 132 | 32 | 2597 |
| 60 | 33 | | 4412 | 4521 | 4630 | 4738 | 4847 | 4956 | 5064 | 5173 | 5282 | 5391 | 5499 | 5608 | 5717 | 5896 | 5935 | 6044 | 6153 | 127 | 33 | 2314 |
| 62 | 34 | | 4696 | 4805 | 4913 | 5022 | 5130 | 5239 | 5348 | 5456 | 5665 | 5673 | 5782 | 5891 | 6000 | 6108 | 6217 | 6326 | 6434 | 123 | 34 | 2031 |
| 61 | 35 | 8 | 4981 | 5089 | 5197 | 5306 | 5414 | 6599 | 5631 | 5739 | 5848 | 5936 | 6065 | 6173 | 6282 | 6390 | 6499 | 6608 | 6716 | 118 | 35 | 3 1748 |
| 66 | 36 | | 5265 | 5373 | 5481 | 5589 | 6698 | 5806 | 5914 | 6029 | 6131 | 6239 | 6347 | 6466 | 6564 | 6673 | 6781 | 6890 | 6998 | 113 | 36 | 1465 |
| 67 | 37 | | 5549 | 5657 | 5765 | 5873 | 6981 | 6089 | 6197 | 6305 | 6414 | 6522 | 6630 | 6738 | 6847 | 6955 | 7063 | 7172 | 7280 | 108 | 37 | 1182 |
| 69 | 38 | | 5833 | 5941 | 6049 | 6157 | 6265 | 6373 | 6481 | 6588 | 6697 | 6805 | 6913 | 7091 | 7129 | 7237 | 7346 | 7454 | 7562 | 104 | 38 | 0899 |
| 71 | 39 | | 6117 | 6225 | 6333 | 6440 | 6548 | 6656 | 6764 | 6879 | 6980 | 7088 | 7196 | 7304 | 7411 | 7519 | 7697 | 7736 | 7843 | 99 | 39 | 0616 |
| 73 | 40 | 8 | 6401 | 6509 | 6616 | 6724 | 6839 | 6939 | 7047 | 7153 | 7963 | 7371 | 7478 | 7586 | 7694 | 7802 | 7910 | 8018 | 8125 | 94 | 40 | 3 0333 |
| 75 | 41 | | 6685 | 6793 | 6900 | 7088 | 7115 | 7223 | 7331 | 7438 | 7646 | 7653 | 7761 | 7869 | 7976 | 8084 | 8199 | 8300 | 8407 | 90 | 41 | 0050 |
| 77 | 42 | | 6970 | 7077 | 7184 | 7992 | 7399 | 7506 | 7614 | 7721 | 7829 | 7936 | 8044 | 8161 | 8959 | 8366 | 8474 | 8582 | 8689 | 85 | 49 | 2 9767 |
| 78 | 43 | | 7254 | 7361 | 7468 | 7576 | 7683 | 7790 | 7897 | 8005 | 8119 | 8219 | 8397 | 8434 | 8541 | 8649 | 8756 | 8864 | 8971 | 80 | 43 | 9484 |
| 80 | 44 | | 7538 | 7645 | 7762 | 7859 | 7966 | 8074 | 8181 | 8988 | 8395 | 8502 | 8609 | 8717 | 8824 | 8931 | 9038 | 9146 | 9253 | 75 | 44 | 9900 |
| 82 | 46 | 8 | 7893 | 7999 | 8036 | 8143 | 8250 | 8357 | 8464 | 8571 | 8678 | 8785 | 8899 | 8999 | 9106 | 9914 | 9391 | 9498 | 9535 | 71 | 45 | 2 8917 |
| 84 | 46 | | 8107 | 8213 | 8320 | 8427 | 8534 | 8641 | 8747 | 8854 | 8961 | 9068 | 9175 | 9282 | 9389 | 9496 | 9603 | 9710 | 9817 | 66 | 46 | 8634 |
| 86 | 47 | 8 (9) | 8391 | 8497 | 8604 | 8711 | 8817 | 8924 | 9031 | 9138 | 9244 | 9351 | 9458 | 9665 | 9679 | 9778 | 9885 | 9992 | 0099 | 61 | 47 | 8351 |
| 88 | 48 | | 8675 | 8782 | 8888 | 8995 | 9101 | 9208 | 9314 | 9491 | 9528 | 9634 | 9741 | 9847 | 9954 | 0061 | 0168 | 0274 | 0381 | 57 | 48 | 8068 |
| 89 | 49 | | 8960 | 9066 | 9172 | 9279 | 9385 | 9491 | 9598 | 9704 | 9811 | 9917 | 0024 | 0130 | 0237 | 0343 | 0450 | 0556 | 0663 | 52 | 49 | 7784 |
| 91 | 50 | 8 (9) | 9944 | 9350 | 9456 | 9562 | 9669 | 9776 | 9881 | 9988 | 0094 | 0200 | 0307 | 0413 | 0519 | 0626 | 0732 | 0839 | 0945 | 47 | 50 | 2 7501 |
| 93 | 51 | | 9528 | 9634 | 9740 | 9846 | 9959 | 0059 | 0165 | 0971 | 0377 | 0483 | 0589 | 0696 | 0802 | 0908 | 1015 | 1121 | 1297 | 42 | 51 | 7218 |
| 95 | 52 | | 9813 | 9918 | 0094 | 0130 | 8236 | 0342 | 0448 | 0554 | 0660 | 0766 | 0872 | 0979 | 1085 | 1191 | 1997 | 1403 | 1509 | 38 | 52 | 6935 |
| 97 | 63 | 9 | 0097 | 0203 | 0308 | 0414 | 8520 | 0696 | 0732 | 0838 | 0944 | 1050 | 1155 | 1261 | 1367 | 1473 | 1679 | 1686 | 1791 | 33 | 63 | 6651 |
| 99 | 54 | | 0381 | 0487 | 0593 | 0698 | 0804 | 0910 | 1015 | 1121 | 1227 | 1333 | 1438 | 1544 | 1650 | 1766 | 1869 | 1968 | 2073 | 28 | 54 | 6368 |
| 180 | 66 | 9 | 0666 | 8771 | 0877 | 0982 | 1088 | 1193 | 1299 | 1405 | 1510 | 1616 | 1721 | 1827 | 1933 | 2038 | 2144 | 2250 | 2356 | 24 | 55 | 2 6085 |
| 109 | 56 | | 0958 | 1056 | 1161 | 1266 | 1379 | 1477 | 1583 | 1688 | 1793 | 1899 | 2005 | 2111 | 2216 | 2391 | 2427 | 2532 | 2638 | 19 | 56 | 5801 |
| 104 | 57 | | 1235 | 1348 | 1445 | 1550 | 1656 | 1761 | 1866 | 1971 | 2077 | 2182 | 9287 | 2393 | 2499 | 2604 | 2709 | 9814 | 9920 | 14 | 57 | 5518 |
| 106 | 68 | | 1519 | 1624 | 1799 | 1834 | 1940 | 2045 | 2150 | 2255 | 2360 | 2465 | 9570 | 2676 | 2781 | 2886 | 2992 | 3097 | 3902 | 9 | 58 | 5934 |
| 108 | 59 | | 1804 | 1909 | 2014 | 2119 | 2294 | 2399 | 9434 | 2539 | 2644 | 2749 | 2854 | 2969 | 3064 | 3169 | 3274 | 3379 | 3484 | 5 | 59 | 4951 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 77° | Argumento Auxiliar. 17' | 18' | 29' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 20' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 77° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 6978 | 7092 | 7206 | 7319 | 7433 | 7547 | 7661 | 7774 | 7888 | 8002 | 8116 | 8230 | 8314 | 8458 | 6572 | 8665 | 8799 | 0 | 0' | 7 5049 |
| 2 | 1 | 7259 | 7373 | 7486 | 7600 | 7714 | 7827 | 7941 | 8055 | 8168 | 8282 | 8396 | 8509 | 8623 | 8737 | 8851 | 8964 | 9078 | 5 | 1 | 5332 |
| 4 | 2 | 7540 | 7664 | 7767 | 7081 | 7994 | 8108 | 8221 | 8335 | 8448 | 8562 | 8675 | 8789 | 8902 | 9016 | 9130 | 9243 | 9357 | 9 | 2 | 5616 |
| 6 | 3 | 7821 | 7935 | 8048 | 8161 | 8275 | 8388 | 8501 | 8615 | 8728 | 8841 | 8955 | 9068 | 9182 | 9295 | 9409 | 9522 | 9636 | 14 | 3 | 6899 |
| 7 | 4 | 8103 | 6216 | 8329 | 8442 | 8555 | 8668 | 8781 | 8896 | 9008 | 9121 | 9234 | 9348 | 9461 | 9574 | 9688 | 9801 | 9914 | 19 | 4 | 6183 |
| 9 | 5 | 7 (8) 8384 | 8497 | 8610 | 8723 | 8836 | 8949 | 9062 | 9175 | 9288 | 9401 | 9514 | 9627 | 9740 | 9854 | 9967 | 0080 | 0193 | 24 | 5 | 7 6166 |
| 11 | 6 | 8665 | 8778 | 8890 | 9003 | 9116 | 9229 | 9342 | 9455 | 9568 | 9681 | 9794 | 9907 | 0020 | 0133 | 0246 | 0359 | 0472 | 28 | 6 | 6750 |
| 13 | 7 | 8946 | 9059 | 9171 | 9284 | 9397 | 9509 | 9622 | 9735 | 9848 | 9961 | 0073 | 0186 | 0299 | 0412 | 0525 | 0638 | 0751 | 33 | 7 | 7033 |
| 16 | 8 | 9227 | 9340 | 9452 | 9565 | 9677 | 9790 | 9902 | 0015 | 0128 | 0240 | 0353 | 0466 | 0579 | 0691 | 0804 | 0917 | 1030 | 38 | 8 | 7317 |
| 16 | 9 | 9568 | 9621 | 9733 | 9845 | 9958 | 0070 | 0183 | 0295 | 0408 | 0520 | 0633 | 0745 | 0858 | 0971 | 1083 | 1196 | 1308 | 43 | 9 | 7601 |
| 18 | 10 | 7 (8) 9789 | 9902 | 0014 | 0126 | 0238 | 0351 | 0463 | 0575 | 0688 | 0800 | 0913 | 1025 | 1137 | 1250 | 1362 | 1475 | 1587 | 47 | 10 | 7 7884 |
| 20 | 11 | 8 0071 | 0183 | 0295 | 0407 | 0519 | 0631 | 0743 | 0856 | 0968 | 1080 | 1192 | 1305 | 1417 | 1529 | 1642 | 1754 | 1866 | 52 | 11 | 6168 |
| 22 | 12 | 0352 | 0464 | 0576 | 0688 | 0800 | 0912 | 1024 | 1136 | 1248 | 1360 | 1472 | 1584 | 1696 | 1809 | 1921 | 2033 | 2145 | 57 | 12 | 8452 |
| 24 | 13 | 0633 | 0745 | 0857 | 0968 | 1080 | 1192 | 1304 | 1416 | 1628 | 1610 | 1752 | 1864 | 1976 | 2088 | 2200 | 2312 | 2124 | 61 | 13 | 8735 |
| 26 | 14 | 0914 | 1026 | 1138 | 1249 | 1361 | 1473 | 1585 | 1696 | 1808 | 1920 | 2032 | 2144 | 2266 | 2367 | 2479 | 2591 | 2703 | 66 | 14 | 9019 |
| 27 | 16 | 8 1196 | 1307 | 1419 | 1530 | 1642 | 1753 | 1865 | 1977 | 2088 | 2200 | 2312 | 2423 | 2535 | 2647 | 2758 | 2870 | 2982 | 71 | 15 | 7 9303 |
| 29 | 16 | 1477 | 1588 | 1700 | 1811 | 1922 | 2034 | 2145 | 2257 | 2368 | 2460 | 2591 | 2703 | 2815 | 2926 | 3038 | 3149 | 3261 | 76 | 16 | 9587 |
| 31 | 17 | 1758 | 1869 | 1981 | 2092 | 2203 | 2314 | 2426 | 2537 | 2649 | 2760 | 2871 | 2983 | 3094 | 3206 | 3317 | 3429 | 3540 | 80 | 17 | 9870 |
| 33 | 18 | 2039 | 2150 | 2262 | 2373 | 2484 | 2595 | 2706 | 2817 | 2929 | 3040 | 3151 | 3262 | 3374 | 3485 | 3596 | 3708 | 3819 | 85 | 18 | 8 0154 |
| 35 | 19 | 2321 | 2432 | 2543 | 2654 | 2765 | 2876 | 2987 | 3098 | 3209 | 3320 | 3431 | 3542 | 3653 | 3765 | 3876 | 3987 | 4098 | 90 | 19 | 0438 |
| 36 | 20 | 8 2602 | 2713 | 2024 | 2935 | 3045 | 3156 | 3267 | 3378 | 3489 | 3600 | 3711 | 3822 | 3933 | 4044 | 4155 | 4266 | 4377 | 95 | 20 | 8 0721 |
| 38 | 21 | 2884 | 2994 | 3105 | 3216 | 3326 | 3437 | 3548 | 3659 | 3769 | 3880 | 3991 | 4102 | 4213 | 1324 | 4434 | 4545 | 4656 | 99 | 21 | 1005 |
| 40 | 22 | 3165 | 3275 | 3386 | 3197 | 3607 | 3718 | 3828 | 3939 | 4050 | 4160 | 4271 | 4382 | 4492 | 4603 | 4714 | 4825 | 4935 | 104 | 22 | 1289 |
| 42 | 23 | 3446 | 3567 | 3667 | 3778 | 3888 | 3998 | 4109 | 4219 | 4330 | 4440 | 4551 | 4661 | 4772 | 4883 | 4993 | 5101 | 5215 | 109 | 23 | 1673 |
| 44 | 24 | 3728 | 3838 | 3948 | 4059 | 4169 | 4279 | 4389 | 4500 | 4610 | 4721 | 4831 | 4941 | 5052 | 5162 | 5273 | 5383 | 5494 | 114 | 24 | 1857 |
| 46 | 25 | 8 4009 | 4119 | 4229 | 4340 | 4450 | 4560 | 4670 | 4780 | 4890 | 6001 | 5111 | 5221 | 5331 | 5442 | 5552 | 5662 | 5773 | 116 | 25 | 8 2141 |
| 47 | 26 | 4291 | 4401 | 4511 | 4621 | 4731 | 4841 | 4961 | 5061 | 5171 | 5281 | 5391 | 5501 | 5611 | 5721 | 6832 | 5942 | 6052 | 123 | 26 | 2425 |
| 49 | 27 | 4572 | 4682 | 4792 | 4902 | 5012 | 6121 | 5231 | 5341 | 5451 | 5661 | 5671 | 5781 | 5891 | 6001 | 6111 | 6221 | 6331 | 128 | 27 | 2708 |
| 51 | 28 | 4854 | 4963 | 5073 | 5183 | 5293 | 5402 | 5512 | 5622 | 6732 | 6811 | 5951 | 6061 | 6171 | 6281 | 6391 | 6500 | 6610 | 132 | 28 | 2992 |
| 53 | 29 | 5136 | 5245 | 5354 | 5464 | 5573 | 5683 | 5793 | 5902 | 6012 | 6122 | 6231 | 6341 | 6451 | 6560 | 6670 | 6780 | 6890 | 137 | 29 | 3276 |
| 56 | 30 | 8 5417 | 5526 | 6636 | 5745 | 5854 | 5964 | 6073 | 6183 | 6292 | 6402 | 6511 | 6621 | 6730 | 6840 | 6950 | 7069 | 7169 | 142 | 30 | 8 3560 |
| 57 | 31 | 5696 | 5808 | 5917 | 6026 | 6135 | 6245 | 6364 | 6463 | 6573 | 6682 | 6791 | 6901 | 7010 | 7120 | 7229 | 7339 | 7448 | 147 | 31 | 3844 |
| 56 | 32 | 5980 | 6089 | 6198 | 6307 | 6416 | 6526 | 6635 | 6744 | 6853 | 6962 | 7072 | 7181 | 7290 | 7399 | 7509 | 7618 | 7727 | 151 | 32 | 4128 |
| 60 | 33 | 6262 | 6371 | 6479 | 6588 | 6697 | 6806 | 6916 | 7024 | 7134 | 7243 | 7352 | 7461 | 7570 | 7679 | 7788 | 7898 | 8007 | 156 | 33 | 4412 |
| 62 | 34 | 6543 | 6652 | 6761 | 6870 | 6978 | 7087 | 7196 | 7305 | 7414 | 7523 | 7632 | 7741 | 7850 | 7969 | 8068 | 8177 | 8286 | 161 | 34 | 4697 |
| 64 | 35 | 8 6825 | 6933 | 7042 | 7151 | 7260 | 7368 | 7477 | 7586 | 7695 | 7803 | 7912 | 8021 | 8130 | 8239 | 8348 | 8457 | 8565 | 166 | 35 | 8 4981 |
| 66 | 36 | 7106 | 7215 | 7323 | 7432 | 7541 | 7649 | 7768 | 7866 | 7976 | 8084 | 8192 | 8301 | 8410 | 6518 | 6627 | 8736 | 8645 | 170 | 36 | 5265 |
| 67 | 37 | 7388 | 7496 | 7605 | 7713 | 7822 | 7930 | 8039 | 8147 | 8256 | 8364 | 8173 | 8581 | 8690 | 8798 | 8907 | 9016 | 9124 | 175 | 37 | 5549 |
| 69 | 38 | 7670 | 7778 | 7886 | 7996 | 8103 | 8211 | 8319 | 8428 | 8536 | 8644 | 8763 | 8861 | 8970 | 9078 | 9187 | 9295 | 9404 | 180 | 36 | 5833 |
| 71 | 39 | 7962 | 8060 | 6166 | 8276 | 8384 | 9192 | 8600 | 8709 | 8817 | 8925 | 9033 | 9141 | 9250 | 9368 | 9466 | 9575 | 9683 | 185 | 39 | 6117 |
| 73 | 40 | 8 0233 | 8341 | 8449 | 6567 | 6665 | 8773 | 8881 | 8989 | 9097 | 9205 | 9313 | 9421 | 9530 | 9638 | 9746 | 9864 | 9962 | 189 | 40 | 8 6401 |
| 75 | 41 | 8 (9) 6515 | 8623 | 8731 | 8836 | 8946 | 9054 | 9162 | 9270 | 9378 | 9486 | 9594 | 9702 | 9810 | 9918 | 0026 | 0134 | 0242 | 194 | 41 | 6685 |
| 77 | 42 | 8797 | 8904 | 9012 | 9120 | 9228 | 9335 | 9443 | 9551 | 9668 | 9766 | 9874 | 9982 | 0090 | 0198 | 0306 | 0413 | 0521 | 199 | 42 | 6970 |
| 78 | 43 | 9079 | 9186 | 9294 | 9401 | 9509 | 9616 | 9724 | 9831 | 9939 | 0047 | 0154 | 0262 | 0370 | 0478 | 0585 | 0693 | 0801 | 203 | 43 | 7254 |
| 80 | 44 | 9360 | 9468 | 9575 | 9683 | 9790 | 9897 | 0005 | 0112 | 0220 | 0327 | 0435 | 0542 | 0650 | 0757 | 0866 | 0973 | 1080 | 208 | 44 | 7538 |
| 82 | 45 | 8 (9) 9642 | 9749 | 9857 | 9964 | 0071 | 0178 | 0286 | 0393 | 0600 | 0608 | 0715 | 0823 | 0930 | 1037 | 1145 | 1252 | 1360 | 213 | 45 | 8 7822 |
| 84 | 46 | 9924 | 0031 | 0136 | 0246 | 0352 | 0460 | 0567 | 0674 | 0781 | 0888 | 0996 | 1103 | 1210 | 1317 | 1426 | 1532 | 1639 | 218 | 46 | 0107 |
| 86 | 47 | 9 0206 | 0313 | 0420 | 0527 | 0634 | 0741 | 0848 | 0955 | 1062 | 1169 | 1276 | 1383 | 1490 | 1597 | 1706 | 1812 | 1919 | 222 | 47 | 8391 |
| 88 | 48 | 0486 | 0594 | 0701 | 0808 | 0915 | 1022 | 1129 | 1236 | 1343 | 1449 | 1566 | 1663 | 1770 | 1877 | 1984 | 2091 | 2198 | 227 | 48 | 8675 |
| 89 | 49 | 0770 | 0876 | 0983 | 1090 | 1196 | 1303 | 1410 | 1517 | 1623 | 1730 | 1837 | 1944 | 2051 | 2157 | 2264 | 2371 | 2478 | 232 | 49 | 8960 |
| 91 | 56 | 9 1052 | 1158 | 1265 | 1371 | 1478 | 1584 | 1691 | 1797 | 1904 | 2011 | 2117 | 2224 | 2331 | 2437 | 2541 | 2651 | 2758 | 237 | 50 | 6 9244 |
| 93 | 51 | 1333 | 1440 | 1646 | 1663 | 1759 | 1866 | 1972 | 2078 | 2185 | 2291 | 2398 | 2604 | 2611 | 2717 | 2824 | 2931 | 3037 | 241 | 51 | 9528 |
| 95 | 52 | 1616 | 1721 | 1828 | 1934 | 2040 | 2147 | 2253 | 2359 | 2465 | 2672 | 2678 | 2785 | 2891 | 2998 | 3104 | 3210 | 3317 | 246 | 52 | 9813 |
| 97 | 53 | 1897 | 2003 | 2110 | 2216 | 2322 | 2428 | 2534 | 2640 | 2746 | 2853 | 2959 | 3065 | 3171 | 3278 | 3384 | 3490 | 3697 | 251 | 53 | 9 0097 |
| 99 | 54 | 2179 | 2285 | 2391 | 2497 | 2603 | 2709 | 2815 | 2921 | 3027 | 3133 | 3239 | 3345 | 3452 | 3558 | 3664 | 3770 | 3876 | 256 | 54 | 0301 |
| 100 | 55 | 9 2161 | 2567 | 2673 | 2779 | 2885 | 2990 | 3096 | 3202 | 3308 | 3414 | 3520 | 3626 | 3732 | 3838 | 3944 | 4050 | 4156 | 260 | 55 | 9 0686 |
| 102 | 56 | 2743 | 2849 | 2955 | 3060 | 3166 | 3272 | 3377 | 3483 | 3589 | 3695 | 3800 | 3906 | 4012 | 4118 | 4224 | 4330 | 4436 | 265 | 56 | 0950 |
| 104 | 57 | 3025 | 3131 | 3236 | 3342 | 3447 | 3553 | 3659 | 3764 | 3870 | 3975 | 4081 | 4187 | 4292 | 4398 | 4504 | 4610 | 4716 | 270 | 57 | 1235 |
| 106 | 58 | 3307 | 3413 | 3518 | 3624 | 3729 | 3834 | 3940 | 4045 | 4151 | 4256 | 4362 | 4467 | 4573 | 4678 | 4784 | 4889 | 4996 | 274 | 58 | 1519 |
| 108 | 59 | 3589 | 3695 | 3600 | 3905 | 4010 | 4116 | 4221 | 1326 | 4432 | 4537 | 4642 | 4748 | 4853 | 4958 | 5064 | 5169 | 5275 | 279 | 59 | 1604 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 78° | Argumento Auxiliar. 0′ | | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 78° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 2 | 2088 | 2193 | 2298 | 2403 | 2507 | 2612 | 2717 | 2822 | 2927 | 3032 | 3137 | 3242 | 3347 | 3452 | 3557 | 3062 | 3767 | 284 | 0′ | 2 4668 |
| 2 | 1 | | 2373 | 2477 | 2582 | 2687 | 2791 | 2896 | 3001 | 3105 | 3210 | 3315 | 3420 | 3525 | 3629 | 3734 | 3839 | 3944 | 4049 | 279 | 1 | 4384 |
| 3 | 2 | | 2657 | 2762 | 2866 | 2971 | 3075 | 3180 | 3284 | 3389 | 3424 | 3598 | 3703 | 3808 | 3912 | 1017 | 4122 | 4226 | 4331 | 274 | 2 | 4101 |
| 5 | 3 | | 2942 | 3046 | 3151 | 3255 | 3359 | 3164 | 3568 | 3673 | 3777 | 3882 | 3986 | 4091 | 4195 | 4300 | 4404 | 4509 | 4613 | 270 | 3 | 3817 |
| 7 | 4 | | 3227 | 3331 | 3435 | 3539 | 3643 | 3748 | 3852 | 3956 | 4061 | 4165 | 4269 | 4374 | 4478 | 4582 | 4687 | 4791 | 4896 | 265 | 4 | 3534 |
| 8 | 5 | 9 | 3511 | 3615 | 3719 | 3823 | 3927 | 4032 | 4136 | 4240 | 4344 | 4448 | 4552 | 4657 | 4761 | 4865 | 4969 | 5074 | 5178 | 260 | 5 | 2 3250 |
| 10 | 6 | | 3796 | 3900 | 4004 | 4108 | 1211 | 4315 | 4419 | 4523 | 1627 | 4732 | 4836 | 4940 | 5044 | 5148 | 5252 | 5356 | 5460 | 256 | 6 | 2967 |
| 12 | 7 | | 4080 | 4184 | 4288 | 4392 | 4496 | 4599 | 4703 | 4807 | 4911 | 5015 | 5119 | 5223 | 5327 | 5131 | 5535 | 5639 | 5743 | 251 | 7 | 2683 |
| 13 | 8 | | 4365 | 4462 | 4572 | 4676 | 4780 | 4883 | 4987 | 5091 | 5194 | 5298 | 5402 | 5506 | 5610 | 5713 | 5817 | 5921 | 6025 | 246 | 8 | 2399 |
| 15 | 9 | | 4650 | 1753 | 4857 | 4960 | 5064 | 5167 | 5271 | 5374 | 5478 | 5582 | 5685 | 5789 | 5893 | 5996 | 6100 | 6204 | 6307 | 241 | 9 | 2116 |
| 17 | 10 | 9 | 4934 | 5038 | 5141 | 5245 | 5348 | 5451 | 5555 | 5658 | 5762 | 5865 | 5969 | 6072 | 6176 | 6279 | 6383 | 6486 | 6590 | 237 | 10 | 2 1832 |
| 18 | 11 | | 5219 | 5322 | 5426 | 5529 | 5632 | 5735 | 5838 | 5942 | 6045 | 6148 | 6252 | 6355 | 6459 | 6562 | 6665 | 6769 | 6872 | 232 | 11 | 1548 |
| 20 | 12 | | 5504 | 5607 | 5710 | 5813 | 5916 | 6012 | 6122 | 6226 | 6329 | 6432 | 6535 | 6638 | 6742 | 6845 | 6948 | 7051 | 7155 | 227 | 12 | 1263 |
| 22 | 13 | | 5789 | 5891 | 5994 | 6097 | 6200 | 6303 | 6106 | 6309 | 6612 | 6715 | 6818 | 6921 | 7025 | 7128 | 7231 | 7331 | 7437 | 222 | 13 | 0981 |
| 23 | 14 | | 6073 | 6176 | 6279 | 6382 | 6485 | 6587 | 6690 | 6793 | 6896 | 6999 | 7102 | 7205 | 7308 | 7411 | 7514 | 7616 | 7720 | 218 | 14 | 0697 |
| 25 | 15 | 9 | 6358 | 6461 | 6563 | 6666 | 6769 | 6871 | 6974 | 7077 | 7180 | 7282 | 7385 | 7488 | 7591 | 7693 | 7796 | 7899 | 8002 | 213 | 15 | 2 0413 |
| 27 | 16 | | 6643 | 6743 | 6840 | 6950 | 7053 | 7155 | 7258 | 7361 | 7463 | 7566 | 7668 | 7771 | 7874 | 7976 | 8079 | 8182 | 8285 | 208 | 16 | 0130 |
| 28 | 17 | | 6928 | 7030 | 7133 | 7235 | 7337 | 7440 | 7542 | 7644 | 7747 | 7849 | 7952 | 8054 | 8157 | 8259 | 8362 | 8464 | 8567 | 203 | 17 | 1 9846 |
| 30 | 18 | | 7213 | 7315 | 7417 | 7519 | 7621 | 7724 | 7826 | 7928 | 8031 | 8133 | 8235 | 8338 | 8440 | 8542 | 8643 | 8747 | 8850 | 199 | 18 | 9562 |
| 32 | 19 | | 7498 | 7600 | 7702 | 7804 | 7906 | 8008 | 8110 | 8212 | 8314 | 8416 | 0519 | 8621 | 8723 | 8825 | 8928 | 9030 | 9132 | 194 | 19 | 9279 |
| 33 | 20 | 9 | 7782 | 7884 | 7986 | 8088 | 8190 | 8292 | 8394 | 8496 | 8598 | 8700 | 8802 | 8904 | 9006 | 9108 | 9210 | 9313 | 9415 | 189 | 20 | 1 8995 |
| 35 | 21 | | 8067 | 8169 | 8271 | 8373 | 8474 | 8576 | 8678 | 8780 | 8882 | 8984 | 9085 | 9187 | 9289 | 9391 | 9493 | 9595 | 9697 | 185 | 21 | 8711 |
| 37 | 22 | | 0352 | 8454 | 8555 | 8657 | 8759 | 8860 | 8962 | 9064 | 9165 | 9267 | 9369 | 9471 | 9573 | 9674 | 9776 | 9878 | 9980 | 180 | 22 | 8427 |
| 38 | 23 | 9 (6) | 8637 | 8739 | 8840 | 8942 | 9043 | 9145 | 9246 | 9348 | 9449 | 9551 | 9652 | 9754 | 9856 | 9957 | 0059 | 0161 | 0263 | 175 | 23 | 8143 |
| 40 | 24 | | 8922 | 2023 | 9125 | 9226 | 9327 | 9429 | 9530 | 9632 | 2733 | 9835 | 9936 | 0037 | 0139 | 0240 | 0342 | 0444 | 0545 | 170 | 24 | 7859 |
| 42 | 25 | 9 (0) | 9207 | 9308 | 9409 | 9511 | 9612 | 9713 | 9814 | 9916 | 0017 | 0118 | 0220 | 0321 | 0422 | 0524 | 0625 | 0726 | 0828 | 166 | 25 | 1 7575 |
| 44 | 26 | | 9492 | 9593 | 9694 | 9795 | 9896 | 9997 | 0098 | 0200 | 0301 | 0402 | 0503 | 0604 | 0705 | 0807 | 0908 | 1009 | 1110 | 161 | 26 | 7292 |
| 45 | 27 | | 9777 | 9878 | 9979 | 0080 | 0181 | 0282 | 0383 | 0484 | 0585 | 0686 | 0787 | 0888 | 0989 | 1090 | 1191 | 1292 | 1393 | 155 | 27 | 7008 |
| 47 | 28 | 0 | 0062 | 0163 | 0263 | 0364 | 0165 | 0566 | 0667 | 0768 | 0868 | 0969 | 1070 | 1171 | 1272 | 1373 | 1474 | 1575 | 1676 | 151 | 28 | 6724 |
| 49 | 29 | | 0347 | 0448 | 0548 | 0649 | 0749 | 0850 | 0951 | 1052 | 1152 | 1253 | 1354 | 1454 | 1555 | 1656 | 1757 | 1858 | 1959 | 147 | 29 | 6440 |
| 50 | 30 | 0 | 0632 | 0732 | 0833 | 0933 | 1034 | 1134 | 1235 | 1336 | 1436 | 1537 | 1637 | 1738 | 1839 | 1939 | 2040 | 2141 | 2241 | 142 | 30 | 1 6156 |
| 52 | 31 | | 0917 | 1017 | 1118 | 1218 | 1318 | 1419 | 1519 | 1620 | 1720 | 1820 | 1921 | 2021 | 2122 | 2222 | 2323 | 2424 | 2524 | 137 | 31 | 5872 |
| 54 | 32 | | 1202 | 1302 | 1402 | 1503 | 1603 | 1703 | 1803 | 1904 | 2004 | 2104 | 2205 | 2305 | 2406 | 2506 | 2606 | 2706 | 2807 | 132 | 32 | 5588 |
| 55 | 33 | | 1487 | 1587 | 1687 | 1787 | 1887 | 1988 | 2088 | 2188 | 2288 | 2388 | 2488 | 2588 | 2689 | 2789 | 2889 | 2982 | 3090 | 128 | 33 | 5303 |
| 57 | 34 | | 1772 | 1872 | 1972 | 2072 | 2172 | 2272 | 2372 | 2472 | 2572 | 2672 | 2772 | 2872 | 2972 | 3072 | 3172 | 3272 | 3372 | 123 | 34 | 5019 |
| 59 | 35 | 0 | 2057 | 2157 | 2257 | 2357 | 2437 | 2556 | 2656 | 2756 | 2856 | 2956 | 3056 | 3156 | 3255 | 3355 | 3156 | 3555 | 3655 | 118 | 35 | 1 4735 |
| 60 | 36 | | 2343 | 2442 | 2542 | 2641 | 2741 | 2841 | 2940 | 3040 | 3140 | 3240 | 3339 | 3439 | 3539 | 3639 | 3738 | 3838 | 3938 | 114 | 36 | 4451 |
| 62 | 37 | | 2628 | 2727 | 2827 | 2926 | 3026 | 3125 | 3225 | 3324 | 3424 | 3523 | 3623 | 3723 | 3822 | 3922 | 4022 | 4121 | 4221 | 109 | 37 | 4167 |
| 64 | 38 | | 2913 | 3012 | 3112 | 3211 | 3310 | 3410 | 3509 | 3608 | 3708 | 3807 | 3907 | 4006 | 4106 | 4205 | 4305 | 4404 | 4504 | 104 | 30 | 3883 |
| 65 | 39 | | 3198 | 3297 | 3396 | 3495 | 3596 | 3694 | 3793 | 3893 | 3992 | 4091 | 4191 | 4290 | 4389 | 4489 | 4588 | 4687 | 4787 | 99 | 39 | 3599 |
| 67 | 40 | 0 | 3483 | 3582 | 3681 | 3780 | 3880 | 3979 | 4078 | 4177 | 4276 | 4375 | 4474 | 4573 | 4673 | 1772 | 1871 | 1970 | 5070 | 95 | 40 | 1 3315 |
| 69 | 41 | | 3769 | 3867 | 3966 | 4065 | 4164 | 4263 | 4362 | 4461 | 4560 | 4659 | 4758 | 4857 | 1956 | 5055 | 5154 | 5253 | 5353 | 90 | 41 | 3030 |
| 70 | 42 | | 4054 | 4153 | 4251 | 4350 | 4449 | 4548 | 4646 | 4745 | 4814 | 4943 | 5042 | 5141 | 5240 | 5339 | 5438 | 5537 | 5636 | 65 | 42 | 2746 |
| 72 | 43 | | 4339 | 4438 | 4536 | 4635 | 4734 | 4832 | 4931 | 5030 | 5128 | 5227 | 5326 | 5424 | 5523 | 5622 | 5721 | 5820 | 5918 | 00 | 43 | 2462 |
| 74 | 44 | | 4624 | 4793 | 4821 | 4920 | 5018 | 5117 | 5215 | 5314 | 5412 | 5511 | 5610 | 5708 | 5807 | 5905 | 6004 | 6103 | 6201 | 76 | 44 | 2178 |
| 75 | 45 | 0 | 4910 | 5008 | 5106 | 5205 | 5303 | 5401 | 5500 | 5598 | 5696 | 5795 | 5893 | 5992 | 6090 | 6109 | 6287 | 6386 | 6484 | 71 | 45 | 1 1893 |
| 77 | 46 | | 5195 | 5293 | 5391 | 5490 | 5588 | 5686 | 5784 | 5882 | 5981 | 6079 | 6177 | 6276 | 6374 | 6472 | 6571 | 6669 | 6767 | 66 | 46 | 1609 |
| 79 | 47 | | 5480 | 5578 | 5676 | 5774 | 5872 | 5970 | 6069 | 6167 | 6265 | 6363 | 6461 | 6559 | 6657 | 6756 | 6854 | 6952 | 7050 | 61 | 47 | 1326 |
| 80 | 48 | | 5766 | 5863 | 5961 | 6059 | 6157 | 6255 | 6353 | 6451 | 6519 | 6647 | 6745 | 6843 | 6941 | 7039 | 7137 | 7235 | 7333 | 67 | 48 | 1040 |
| 82 | 46 | | 6051 | 6149 | 6246 | 6344 | 6442 | 6540 | 6638 | 6735 | 6833 | 6931 | 7029 | 7127 | 7225 | 7323 | 7421 | 7519 | 7616 | 62 | 49 | 0736 |
| 84 | 56 | 0 | 6336 | 6434 | 6531 | 6629 | 6727 | 6824 | 6922 | 7020 | 7117 | 7215 | 7313 | 7411 | 7508 | 7606 | 7704 | 7802 | 7900 | 47 | 50 | 1 0472 |
| 85 | 51 | | 6622 | 6719 | 6817 | 6914 | 7012 | 7109 | 7207 | 7304 | 7402 | 7499 | 7597 | 7694 | 7792 | 7890 | 7987 | 8085 | 8183 | 43 | 51 | 0107 |
| 87 | 52 | | 6907 | 7004 | 7102 | 7199 | 7296 | 7394 | 7491 | 7589 | 7686 | 7783 | 7881 | 7978 | 8076 | 8173 | 8271 | 8368 | 8466 | 38 | 52 | 0 2903 |
| 89 | 53 | | 7193 | 7290 | 7387 | 7484 | 7581 | 7678 | 7776 | 7873 | 7970 | 8067 | 8165 | 8262 | 8360 | 8457 | 8554 | 8652 | 8749 | 33 | 53 | 9619 |
| 60 | 54 | | 7470 | 7575 | 7672 | 7769 | 7866 | 7963 | 8060 | 8157 | 8254 | 8352 | 8449 | 8546 | 8643 | 8740 | 8838 | 0935 | 2032 | 28 | 54 | 9334 |
| 92 | 55 | 0 | 7763 | 7860 | 7957 | 8054 | 8151 | 8248 | 8345 | 8442 | 8539 | 8636 | 8733 | 8830 | 8927 | 9024 | 9121 | 9218 | 9315 | 24 | 55 | 0 9050 |
| 94 | 56 | | 8049 | 0146 | 8242 | 8339 | 8436 | 8533 | 8629 | 8726 | 8823 | 8920 | 9017 | 9114 | 9211 | 9308 | 9404 | 6501 | 9598 | 19 | 56 | 0765 |
| 65 | 57 | | 8334 | 8431 | 8528 | 8624 | 8721 | 8817 | 8914 | 9011 | 9107 | 9204 | 9301 | 9398 | 9494 | 9591 | 9688 | 9785 | 9882 | 14 | 57 | 8401 |
| 67 | 68 | 0 (1) | 8620 | 8716 | 8813 | 8909 | 9005 | 9102 | 9199 | 9295 | 9392 | 9488 | 9585 | 9682 | 9778 | 9875 | 9971 | 0068 | 0165 | 9 | 58 | 8196 |
| 68 | 59 | | 0905 | 9002 | 9098 | 9194 | 9291 | 9387 | 9483 | 9580 | 9576 | 9773 | 9869 | 9965 | 0062 | 0158 | 0255 | 0351 | 0448 | 5 | 59 | 7612 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . .

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 78° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 78° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0′ | 2 | 3872 | 3977 | 4682 | 4187 | 4299 | 4397 | 4602 | 4607 | 4713 | 4818 | 4923 | 5028 | 5133 | 5239 | 5344 | 5449 | 5555 | 0 | 0′ | 9 2088 |
| 2 | 1 | | 4154 | 4259 | 4364 | 4468 | 4573 | 4678 | 4783 | 4888 | 4993 | 5099 | 5204 | 5309 | 5414 | 5519 | 5624 | 5799 | 5834 | 5 | 1 | 2373 |
| 3 | 2 | | 4436 | 4541 | 4645 | 4756 | 4855 | 4960 | 5065 | 5170 | 5274 | 5379 | 5484 | 5589 | 5694 | 5799 | 5904 | 6009 | 6114 | 9 | 2 | 2657 |
| 5 | 3 | | 4718 | 4823 | 4927 | 5032 | 5137 | 5241 | 5346 | 5451 | 5555 | 5660 | 5765 | 5870 | 5975 | 6079 | 6184 | 6289 | 6394 | 14 | 3 | 2942 |
| 7 | 4 | | 5000 | 5105 | 5209 | 5314 | 5418 | 5523 | 5627 | 5732 | 5836 | 5941 | 6046 | 6150 | 6265 | 6360 | 6464 | 6569 | 6674 | 19 | 4 | 3227 |
| 8 | 5 | 9 | 5282 | 5387 | 5491 | 5595 | 5700 | 5804 | 5909 | 6013 | 6117 | 6222 | 6326 | 6431 | 6535 | 6640 | 6745 | 6849 | 6954 | 24 | 5 | 9 3511 |
| 10 | 5 | | 6564 | 5669 | 5773 | 5877 | 5982 | 6086 | 6190 | 6294 | 6398 | 6503 | 6607 | 6712 | 6816 | 6920 | 7025 | 7129 | 7234 | 28 | 6 | 3796 |
| 12 | 7 | | 5847 | 5951 | 6055 | 6159 | 6263 | 6368 | 6471 | 6575 | 6680 | 6784 | 6888 | 6992 | 7096 | 7201 | 7305 | 7409 | 7514 | 33 | 7 | 4080 |
| 14 | 8 | | 6129 | 6233 | 6337 | 6441 | 6545 | 6649 | 6753 | 6857 | 6961 | 7065 | 7169 | 7273 | 7377 | 7481 | 7585 | 7689 | 7793 | 38 | 8 | 4365 |
| 15 | 2 | | 6411 | 6515 | 6619 | 6722 | 6826 | 6930 | 7034 | 7130 | 7242 | 7346 | 7450 | 7553 | 7657 | 7761 | 7865 | 7969 | 8073 | 43 | 9 | 4650 |
| 17 | 10 | 9 | 6693 | 6797 | 6901 | 7004 | 7108 | 7212 | 7315 | 7419 | 7523 | 7627 | 7730 | 7834 | 7938 | 8042 | 8146 | 8249 | 8353 | 47 | 10 | 9 4935 |
| 12 | 11 | | 6976 | 7079 | 7183 | 7286 | 7390 | 7193 | 7597 | 7700 | 7804 | 7908 | 8011 | 8115 | 8218 | 8322 | 8426 | 8530 | 8633 | 62 | 11 | 6219 |
| 20 | 12 | | 7258 | 7361 | 7465 | 7568 | 7671 | 7775 | 7878 | 7982 | 8085 | 8189 | 8292 | 8396 | 8499 | 8603 | 8706 | 8810 | 8913 | 57 | 12 | 6504 |
| 22 | 13 | | 7540 | 7613 | 7747 | 7850 | 7953 | 8056 | 8160 | 8263 | 8466 | 8470 | 8573 | 8677 | 8780 | 8883 | 0986 | 9090 | 9193 | 62 | 13 | 5789 |
| 24 | 14 | | 7823 | 7926 | 8029 | 8132 | 8235 | 8338 | 8441 | 8544 | 8647 | 8751 | 8854 | 8957 | 9060 | 9164 | 9267 | 9370 | 9473 | 66 | 14 | 6073 |
| 25 | 15 | 9 | 0105 | 0208 | 8311 | 8414 | 8517 | 8626 | 0723 | 8826 | 0929 | 9032 | 9135 | 9238 | 9341 | 9444 | 9547 | 9650 | 9753 | 71 | 15 | 9 6358 |
| 27 | 16 | 9 (0) | 8387 | 8490 | 8593 | 8696 | 8798 | 8901 | 9004 | 9107 | 9210 | 9313 | 9416 | 9519 | 9621 | 9724 | 9827 | 9930 | 0033 | 76 | 16 | 6643 |
| 29 | 17 | | 0670 | 8772 | 8875 | 8978 | 9080 | 9183 | 9286 | 9388 | 9191 | 9594 | 9697 | 9799 | 9902 | 0005 | 0108 | 0211 | 0313 | 81 | 17 | 6928 |
| 30 | 18 | | 8952 | 9055 | 9157 | 9260 | 9362 | 9465 | 9567 | 9670 | 9772 | 9875 | 9977 | 0080 | 0183 | 0285 | 0388 | 0491 | 0594 | 85 | 18 | 7213 |
| 32 | 12 | | 9234 | 9337 | 9439 | 9541 | 9641 | 9746 | 9849 | 9951 | 0054 | 0156 | 0258 | 0361 | 0463 | 0566 | 0669 | 0771 | 0874 | 20 | 19 | 7498 |
| 34 | 20 | 2 (0) | 9517 | 9619 | 9721 | 9823 | 9926 | 0028 | 6130 | 0233 | 0335 | 0437 | 6539 | 0642 | 0744 | 0847 | 0949 | 1051 | 1154 | 95 | 20 | 9 7782 |
| 35 | 21 | | 9799 | 9901 | 0003 | 0105 | 0208 | 0310 | 0412 | 0514 | 0616 | 0718 | 0820 | 0923 | 1025 | 1197 | 1229 | 1332 | 1434 | 100 | 21 | 8067 |
| 37 | 22 | 0 | 0082 | 0184 | 0286 | 0387 | 0489 | 0591 | 0693 | 0795 | 0897 | 0999 | 1101 | 1204 | 1306 | 1408 | 1510 | 1612 | 1714 | 104 | 22 | 8352 |
| 32 | 23 | | 0364 | 0466 | 0568 | 0670 | 0771 | 0873 | 0975 | 1077 | 1179 | 1281 | 1383 | 1481 | 1586 | 1688 | 1790 | 1892 | 1994 | 109 | 23 | 8637 |
| 46 | 24 | | 0647 | 0748 | 0850 | 0952 | 1053 | 1155 | 1957 | 1358 | 1460 | 1562 | 1664 | 1765 | 1867 | 1969 | 2071 | 2173 | 2274 | 114 | 24 | 8922 |
| 42 | 25 | 0 | 0929 | 1031 | 1132 | 1231 | 1335 | 1437 | 1538 | 1640 | 1741 | 1843 | 1945 | 2046 | 2148 | 2250 | 2351 | 2453 | 2555 | 119 | 25 | 9 9207 |
| 44 | 26 | | 1212 | 1313 | 1414 | 1516 | 1617 | 1719 | 1820 | 1921 | 2023 | 2124 | 2226 | 2327 | 2429 | 2530 | 2632 | 2733 | 2835 | 123 | 26 | 9492 |
| 46 | 27 | | 1494 | 1595 | 1697 | 1798 | 1899 | 2000 | 2102 | 2203 | 2304 | 2405 | 2507 | 2608 | 2710 | 2811 | 2912 | 3014 | 3115 | 128 | 27 | 9777 |
| 47 | 28 | | 1777 | 1878 | 1979 | 2080 | 2181 | 2282 | 2383 | 2484 | 2586 | 2687 | 2788 | 2889 | 2990 | 3099 | 3193 | 3294 | 3395 | 133 | 28 | 0 0062 |
| 42 | 29 | | 2059 | 2160 | 2261 | 2362 | 2463 | 2564 | 2665 | 2766 | 2867 | 2968 | 3069 | 3170 | 3271 | 3372 | 3473 | 3575 | 3676 | 138 | 29 | 0347 |
| 51 | 30 | 0 | 2342 | 2443 | 2544 | 2644 | 2745 | 2846 | 2947 | 3048 | 3148 | 3249 | 3356 | 3451 | 3552 | 3653 | 3754 | 3855 | 3956 | 142 | 30 | 0 6632 |
| 52 | 31 | | 2625 | 2725 | 2826 | 2926 | 3027 | 3128 | 3229 | 3329 | 3430 | 3531 | 3631 | 3732 | 3833 | 3934 | 4035 | 4135 | 4236 | 147 | 31 | 0917 |
| 54 | 32 | | 2907 | 3008 | 3108 | 3209 | 3309 | 3410 | 3510 | 3611 | 3711 | 3812 | 3913 | 4013 | 4114 | 4214 | 4315 | 1416 | 4517 | 152 | 32 | 1202 |
| 56 | 33 | | 3190 | 3290 | 3391 | 3491 | 3591 | 3699 | 3792 | 3892 | 3993 | 4093 | 4194 | 4294 | 4395 | 4495 | 4596 | 4696 | 4797 | 157 | 33 | 1487 |
| 57 | 31 | | 3473 | 3573 | 3673 | 3773 | 3873 | 3974 | 4074 | 4174 | 4274 | 4375 | 4475 | 4575 | 4676 | 4776 | 4876 | 4977 | 5077 | 161 | 34 | 1772 |
| 59 | 35 | 0 | 3755 | 3855 | 3955 | 4055 | 4155 | 4256 | 4356 | 4456 | 4556 | 4656 | 4756 | 4856 | 4957 | 5057 | 5157 | 5257 | 5358 | 166 | 35 | 0 2058 |
| 61 | 36 | | 4038 | 4138 | 4238 | 4338 | 4438 | 4538 | 4637 | 4737 | 4837 | 4937 | 5037 | 5138 | 5238 | 5338 | 5438 | 5530 | 5638 | 171 | 36 | 2343 |
| 62 | 37 | | 4321 | 4420 | 4520 | 4620 | 4720 | 4820 | 4919 | 5019 | 5119 | 5219 | 5319 | 5419 | 5519 | 5619 | 5719 | 5818 | 5918 | 176 | 37 | 2628 |
| 64 | 38 | | 4603 | 4703 | 4803 | 4902 | 5002 | 5102 | 5201 | 5301 | 5401 | 5500 | 5600 | 5700 | 5800 | 5899 | 5999 | 6099 | 6199 | 180 | 38 | 2913 |
| 66 | 39 | | 4886 | 4986 | 5085 | 5185 | 5284 | 5384 | 5483 | 5583 | 5682 | 5782 | 5881 | 5981 | 6081 | 6180 | 6280 | 6380 | 6479 | 185 | 39 | 3198 |
| 67 | 10 | 0 | 5169 | 5268 | 5368 | 5467 | 5566 | 5666 | 5765 | 5864 | 5964 | 6063 | 6162 | 6262 | 6362 | 6461 | 6561 | 6660 | 6760 | 190 | 40 | 0 3483 |
| 69 | 41 | | 5452 | 5551 | 5650 | 5749 | 5848 | 5918 | 6047 | 6146 | 6245 | 6345 | 6444 | 6543 | 6643 | 6742 | 6841 | 6941 | 7040 | 195 | 41 | 3769 |
| 71 | 42 | | 5734 | 5834 | 5933 | 6032 | 6131 | 6230 | 6329 | 6428 | 6527 | 6626 | 6725 | 6825 | 6924 | 7023 | 7122 | 7221 | 7321 | 199 | 42 | 4054 |
| 72 | 43 | | 6017 | 6116 | 6215 | 6314 | 6413 | 6512 | 6611 | 6716 | 6809 | 6908 | 7007 | 7106 | 7205 | 7304 | 7403 | 7509 | 7601 | 204 | 43 | 4339 |
| 74 | 44 | | 6300 | 6329 | 6490 | 6596 | 6695 | 6794 | 6893 | 6992 | 7090 | 7189 | 7288 | 7387 | 7486 | 7585 | 7684 | 7783 | 7882 | 209 | 44 | 4624 |
| 76 | 45 | 0 | 6583 | 6682 | 6780 | 6879 | 6977 | 7076 | 7175 | 7273 | 7372 | 7471 | 7576 | 7668 | 7767 | 7866 | 7965 | 0063 | 8162 | 214 | 45 | 0 4910 |
| 77 | 46 | | 6866 | 6264 | 7063 | 7161 | 7260 | 7358 | 7457 | 7555 | 7654 | 7752 | 7851 | 7950 | 8048 | 8147 | 8245 | 8344 | 8443 | 218 | 46 | 5195 |
| 72 | 47 | | 7149 | 7247 | 7345 | 7444 | 7542 | 7640 | 7739 | 7837 | 7936 | 8034 | 8132 | 8231 | 8329 | 0428 | 8526 | 8625 | 0723 | 223 | 47 | 5480 |
| 81 | 48 | | 7432 | 7530 | 7628 | 7726 | 7821 | 7923 | 0621 | 0119 | 8217 | 8316 | 8414 | 8512 | 8610 | 8709 | 8807 | 8906 | 9004 | 228 | 40 | 5766 |
| 83 | 49 | | 7715 | 7613 | 7911 | 8609 | 8107 | 8205 | 8303 | 8401 | 8499 | 8597 | 8695 | 8793 | 8892 | 8990 | 9088 | 9186 | 9285 | 233 | 49 | 6051 |
| 84 | 50 | 0 | 7297 | 6095 | 8193 | 8291 | 8389 | 0487 | 0585 | 8683 | 8781 | 8879 | 8977 | 9075 | 9173 | 9271 | 9369 | 9467 | 9565 | 237 | 50 | 6 6336 |
| 86 | 51 | | 0280 | 8378 | 8476 | 8574 | 8671 | 8769 | 8867 | 0965 | 9063 | 9161 | 9258 | 9356 | 9454 | 9552 | 9650 | 9748 | 9846 | 242 | 51 | 6622 |
| 80 | 52 | 0 (1) | 0563 | 8661 | 6759 | 8856 | 8254 | 9051 | 9149 | 9247 | 9344 | 2442 | 9540 | 9638 | 9735 | 9833 | 9931 | 0029 | 0126 | 247 | 52 | 6907 |
| 89 | 53 | | 6846 | 8944 | 9041 | 9139 | 9236 | 9334 | 9431 | 9529 | 9626 | 9724 | 2821 | 9919 | 0017 | 6114 | 0212 | 0369 | 0407 | 252 | 53 | 7193 |
| 91 | 54 | | 9129 | 9227 | 9324 | 9421 | 9519 | 9616 | 9713 | 9811 | 9908 | 0005 | 0103 | 0200 | 0290 | 0325 | 6493 | 0590 | 0688 | 256 | 54 | 7478 |
| 93 | 55 | 0 (1) | 9412 | 9569 | 9667 | 9704 | 9001 | 9898 | 9995 | 0093 | 0190 | 0287 | 6384 | 0482 | 0572 | 0676 | 0774 | 0871 | 0968 | 261 | 55 | 0 7763 |
| 94 | 56 | | 9695 | 2792 | 9889 | 2986 | 0683 | 0100 | 0278 | 0375 | 0472 | 0569 | 0666 | 0763 | 0860 | 0958 | 1055 | 1152 | 1242 | 266 | 56 | 8049 |
| 96 | 57 | | 9970 | 6075 | 0172 | 6262 | 0366 | 0462 | 0560 | 0657 | 0754 | 0851 | 0948 | 1045 | 1142 | 1239 | 1336 | 1433 | 1530 | 271 | 67 | 8334 |
| 98 | 58 | | 0261 | 0358 | 0455 | 0552 | 6640 | 6745 | 0042 | 0239 | 1036 | 1132 | 1229 | 1326 | 1423 | 1526 | 1617 | 1714 | 1811 | 275 | 58 | 8620 |
| 99 | 59 | | 0544 | 0641 | 0738 | 0834 | 0931 | 1627 | 1124 | 1221 | 1317 | 1414 | 1511 | 1608 | 1704 | 1861 | 1298 | 1995 | 2091 | 200 | 52 | 8905 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 79° | Argumento Auxiliar. | 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 79° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 0 (1) | 9191 | 9287 | 9383 | 9479 | 9576 | 9672 | 9768 | 2864 | 9961 | 0057 | 0163 | 0249 | 0346 | 0442 | 0538 | 0635 | 0731 | 285 | 0′ | 0 7627 |
| 2 | 1 | | 9477 | 9572 | 9669 | 9765 | 9861 | 9957 | 0053 | 0149 | 0245 | 0341 | 0437 | 0533 | 0630 | 0726 | 0822 | 0918 | 1014 | 280 | 1 | 7343 |
| 3 | 2 | | 9762 | 2858 | 9954 | 0050 | 0146 | 0242 | 0337 | 0433 | 0529 | 0626 | 0721 | 0817 | 0913 | 1009 | 1105 | 1202 | 1298 | 275 | 2 | 7058 |
| 5 | 3 | 1 | 0048 | 0143 | 0239 | 0335 | 0431 | 0526 | 0622 | 0718 | 0814 | 0910 | 1006 | 1101 | 1197 | 1293 | 1389 | 1485 | 1581 | 271 | 3 | 6773 |
| 6 | 4 | | 0333 | 0429 | 0524 | 0620 | 0716 | 0811 | 0907 | 1003 | 1098 | 1194 | 1290 | 1385 | 1481 | 1577 | 1673 | 1768 | 1864 | 266 | 4 | 6482 |
| 8 | 5 | 1 | 0619 | 0714 | 0810 | 0205 | 1001 | 1096 | 1192 | 1287 | 1383 | 1470 | 1574 | 1669 | 1765 | 1861 | 1956 | 2062 | 2148 | 461 | 5 | 0 6204 |
| 9 | 6 | | 0906 | 1000 | 1095 | 1190 | 1286 | 1381 | 1476 | 1572 | 1667 | 1763 | 1858 | 1953 | 2049 | 2144 | 2240 | 2335 | 2431 | 256 | 6 | 6920 |
| 11 | 7 | | 1120 | 1286 | 1380 | 1476 | 1571 | 1666 | 1761 | 1856 | 1952 | 2047 | 2142 | 2237 | 2333 | 2428 | 2524 | 2619 | 2714 | 252 | 7 | 5635 |
| 12 | 8 | | 1476 | 1571 | 1666 | 1761 | 1856 | 1961 | 2046 | 2141 | 2236 | 2331 | 2426 | 2522 | 2617 | 2712 | 2807 | 2902 | 2998 | 247 | 8 | 5350 |
| 14 | 9 | | 1762 | 1856 | 1951 | 2046 | 2141 | 2236 | 2331 | 2426 | 2521 | 2616 | 2711 | 2806 | 2201 | 2926 | 3021 | 3186 | 3281 | 242 | 9 | 6065 |
| 15 | 10 | 1 | 2047 | 2142 | 2237 | 2331 | 2426 | 2521 | 2616 | 2710 | 2805 | 2900 | 2995 | 3090 | 3185 | 3280 | 3374 | 3469 | 3564 | 237 | 10 | 0 4781 |
| 17 | 11 | | 2333 | 2428 | 2522 | 2617 | 2711 | 2806 | 2900 | 2995 | 3090 | 3186 | 3279 | 3374 | 3469 | 3563 | 3658 | 3753 | 3848 | 233 | 11 | 4496 |
| 18 | 12 | | 2619 | 2713 | 2808 | 2902 | 2996 | 3091 | 3185 | 3280 | 3374 | 3469 | 3564 | 3658 | 3753 | 3847 | 3942 | 4037 | 4131 | 228 | 12 | 4211 |
| 20 | 13 | | 2904 | 2999 | 3093 | 3187 | 3282 | 3376 | 3470 | 3565 | 3659 | 3753 | 3848 | 3942 | 4037 | 1131 | 4226 | 4320 | 4415 | 223 | 13 | 3927 |
| 21 | 14 | | 3190 | 3284 | 3378 | 3473 | 3567 | 3661 | 3755 | 3849 | 3944 | 4038 | 4132 | 4226 | 1391 | 4415 | 4509 | 4604 | 4698 | 218 | 14 | 3649 |
| 23 | 15 | 1 | 3476 | 3570 | 3664 | 3758 | 3852 | 3946 | 4040 | 4134 | 4228 | 4322 | 4416 | 4511 | 4605 | 4699 | 4793 | 4887 | 4982 | 214 | 15 | 0 3357 |
| 24 | 16 | | 3762 | 3856 | 3949 | 4043 | 4137 | 4231 | 4325 | 4419 | 4513 | 4607 | 4701 | 4795 | 4889 | 4983 | 5077 | 5171 | 6265 | 209 | 16 | 3072 |
| 26 | 17 | | 4047 | 4141 | 4235 | 4329 | 4422 | 4516 | 4610 | 4704 | 4798 | 4891 | 4985 | 6079 | 5173 | 5267 | 5361 | 5455 | 5549 | 204 | 17 | 2787 |
| 28 | 18 | | 4333 | 4427 | 4520 | 4614 | 4708 | 4801 | 4895 | 4989 | 5082 | 5176 | 5270 | 5363 | 5457 | 5551 | 5645 | 6738 | 5832 | 129 | 18 | 2502 |
| 29 | 19 | | 4619 | 4713 | 4806 | 4899 | 4993 | 5086 | 5180 | 5273 | 5367 | 6460 | 5554 | 5648 | 5741 | 5835 | 6928 | 6022 | 6116 | 195 | 19 | 2218 |
| 31 | 20 | 1 | 4905 | 4998 | 5092 | 5185 | 5278 | 5379 | 5465 | 5658 | 5652 | 5745 | 5838 | 5932 | 6025 | 6119 | 6212 | 6306 | 6399 | 190 | 20 | 0 1933 |
| 32 | 21 | | 5191 | 6284 | 5377 | 5470 | 5563 | 5657 | 5750 | 5843 | 5936 | 6030 | 6123 | 6216 | 6309 | 6403 | 6496 | 6589 | 6683 | 185 | 21 | 1648 |
| 34 | 22 | | 6477 | 6570 | 5663 | 5756 | 5849 | 5942 | 6035 | 6128 | 6221 | 6314 | 6407 | 6500 | 6524 | 6687 | 6780 | 6873 | 6966 | 180 | 22 | 1363 |
| 35 | 23 | | 5703 | 5856 | 5948 | 6041 | 6134 | 6227 | 6320 | 6413 | 6506 | 6599 | 6692 | 6785 | 6878 | 6971 | 7064 | 7157 | 7250 | 176 | 23 | 1078 |
| 37 | 24 | | 6049 | 6141 | 6234 | 6327 | 6419 | 6512 | 6606 | 6698 | 6791 | 6883 | 6976 | 7069 | 7162 | 7255 | 7348 | 7441 | 7633 | 171 | 24 | 0723 |
| 38 | 26 | 1 | 6335 | 6427 | 6520 | 6612 | 6705 | 6797 | 6890 | 6983 | 7075 | 7168 | 7261 | 7353 | 7446 | 7539 | 7632 | 7724 | 7817 | 166 | 25 | 0 0508 |
| 40 | 26 | | 6620 | 6713 | 6806 | 6898 | 6990 | 7083 | 7176 | 7268 | 7360 | 7453 | 7545 | 7638 | 7730 | 7823 | 7915 | 8008 | 8101 | 161 | 26 | 0223 |
| 41 | 27 | | 6906 | 6992 | 7091 | 7183 | 7276 | 7368 | 7460 | 7553 | 7645 | 7737 | 7830 | 7922 | 8015 | 8107 | 8199 | 8292 | 8384 | 167 | 27 | 9 9938 |
| 43 | 28 | | 7122 | 7285 | 7377 | 7469 | 7561 | 7663 | 7745 | 7838 | 7930 | 8022 | 8114 | 8206 | 8299 | 8391 | 8483 | 8576 | 8668 | 152 | 28 | 9653 |
| 44 | 29 | | 7478 | 7570 | 7662 | 7754 | 7846 | 7938 | 8030 | 8123 | 8215 | 8307 | 8399 | 8491 | 8583 | 8675 | 8767 | 8860 | 8962 | 147 | 29 | 9368 |
| 46 | 30 | 1 | 7764 | 7856 | 7948 | 8040 | 8132 | 8224 | 8316 | 8408 | 8499 | 8591 | 8683 | 8775 | 8867 | 8959 | 2051 | 9143 | 9235 | 142 | 30 | 9 9083 |
| 47 | 31 | | 8050 | 8142 | 8234 | 8326 | 8417 | 8509 | 8601 | 8693 | 8784 | 8876 | 8968 | 9060 | 9152 | 9243 | 2335 | 9127 | 2519 | 138 | 31 | 8798 |
| 49 | 32 | | 8337 | 8128 | 8520 | 8611 | 8703 | 8794 | 8886 | 8978 | 9069 | 9161 | 2253 | 9344 | 9436 | 9528 | 9619 | 9711 | 9803 | 133 | 32 | 8513 |
| 51 | 33 | 1 (2) | 8623 | 8714 | 8805 | 8897 | 8988 | 9080 | 2171 | 9263 | 9354 | 2446 | 2537 | 9629 | 9720 | 9812 | 2903 | 9295 | 0087 | 198 | 33 | 8228 |
| 52 | 34 | | 8909 | 2000 | 9091 | 9182 | 9274 | 9365 | 2456 | 9548 | 9639 | 9730 | 2822 | 9913 | 0005 | 0096 | 0187 | 0279 | 0370 | 123 | 34 | 7942 |
| 64 | 35 | 1 (2) | 9195 | 9286 | 9377 | 9468 | 9559 | 2650 | 9742 | 9833 | 9224 | 0015 | 0106 | 0198 | 0289 | 0380 | 0472 | 0563 | 0654 | 119 | 35 | 9 7657 |
| 65 | 36 | | 9481 | 9572 | 9663 | 9754 | 9845 | 9936 | 0027 | 0118 | 0209 | 0300 | 0391 | 0482 | 0573 | 0665 | 0756 | 0847 | 0938 | 114 | 36 | 7372 |
| 57 | 37 | | 9767 | 9858 | 9942 | 0039 | 0130 | 0221 | 0312 | 0403 | 0494 | 0585 | 0676 | 0767 | 0858 | 0949 | 1040 | 1131 | 1222 | 109 | 37 | 7087 |
| 68 | 38 | 2 | 0053 | 0144 | 0234 | 0325 | 0416 | 0507 | 0597 | 0688 | 0779 | 0870 | 0961 | 1051 | 1142 | 1233 | 1324 | 1415 | 1506 | 104 | 38 | 6802 |
| 60 | 39 | | 0339 | 0430 | 0520 | 0611 | 0701 | 0792 | 0883 | 0973 | 1064 | 1154 | 1245 | 1336 | 1427 | 1517 | 1608 | 1692 | 1789 | 100 | 39 | 6617 |
| 61 | 40 | 2 | 0625 | 0716 | 0806 | 0897 | 0987 | 1077 | 1168 | 1258 | 1349 | 1439 | 1530 | 1620 | 1711 | 1802 | 1892 | 1983 | 2073 | 95 | 40 | 9 6231 |
| 63 | 41 | | 0912 | 1002 | 1092 | 1182 | 1273 | 1363 | 1453 | 1543 | 1634 | 1724 | 1815 | 1905 | 1995 | 2086 | 2176 | 2267 | 2357 | 90 | 41 | 5946 |
| 64 | 42 | | 1198 | 1288 | 1378 | 1468 | 1558 | 1648 | 1738 | 1829 | 1919 | 2009 | 2029 | 2190 | 2280 | 2370 | 2460 | 2551 | 2641 | 86 | 42 | 5661 |
| 66 | 43 | | 1484 | 1574 | 1664 | 1754 | 1844 | 1934 | 2024 | 2114 | 2204 | 2224 | 2384 | 2174 | 2564 | 2654 | 2745 | 2835 | 2925 | 81 | 43 | 5376 |
| 67 | 44 | | 1770 | 1860 | 1950 | 2040 | 2129 | 2219 | 2309 | 2399 | 2489 | 2579 | 2662 | 2759 | 2819 | 2939 | 3029 | 3119 | 3209 | 76 | 44 | 5090 |
| 62 | 45 | 2 | 2056 | 2146 | 2236 | 2325 | 2415 | 2505 | 2595 | 2684 | 2774 | 2864 | 2954 | 3043 | 3133 | 3223 | 3313 | 3403 | 3423 | 71 | 45 | 9 4805 |
| 70 | 46 | | 2343 | 2432 | 2522 | 2611 | 2701 | 2720 | 2880 | 2970 | 3059 | 3149 | 3238 | 3328 | 3418 | 3508 | 3597 | 3687 | 3777 | 66 | 46 | 4520 |
| 72 | 47 | | 2629 | 2718 | 2808 | 2897 | 9987 | 3076 | 3165 | 3255 | 3344 | 3434 | 3523 | 3613 | 3702 | 3722 | 3882 | 3971 | 4061 | 62 | 47 | 4234 |
| 74 | 48 | | 2915 | 3004 | 3094 | 3183 | 3272 | 3362 | 3451 | 3540 | 3629 | 3719 | 3808 | 3898 | 3987 | 4076 | 4166 | 4955 | 4345 | 57 | 48 | 3949 |
| 75 | 49 | | 3202 | 3291 | 3380 | 3469 | 3558 | 3647 | 3730 | 3825 | 3915 | 4004 | 4023 | 4182 | 4272 | 4361 | 4450 | 4532 | 4629 | 52 | 49 | 3664 |
| 77 | 50 | 2 | 3488 | 3577 | 3666 | 3755 | 3844 | 3933 | 4022 | 4111 | 4200 | 4289 | 4378 | 4467 | 4556 | 4645 | 4734 | 4823 | 4913 | 47 | 50 | 9 3378 |
| 78 | 51 | | 3774 | 3863 | 3952 | 4041 | 4129 | 4218 | 4307 | 4396 | 4485 | 4574 | 4663 | 4751 | 4841 | 4930 | 5019 | 5108 | 5127 | 43 | 51 | 3093 |
| 80 | 52 | | 4060 | 4149 | 4238 | 4326 | 4415 | 4504 | 4593 | 4681 | 4770 | 4859 | 4948 | 6036 | 6125 | 5214 | 5303 | 5392 | 5481 | 38 | 52 | 2807 |
| 81 | 63 | | 4347 | 4435 | 4524 | 4619 | 4701 | 4790 | 4878 | 4967 | 5065 | 5144 | 5233 | 5321 | 5410 | 5199 | 5587 | 5676 | 5765 | 33 | 53 | 2522 |
| 83 | 54 | | 4633 | 4721 | 4810 | 4898 | 4987 | 5075 | 5164 | 5252 | 5341 | 5429 | 5517 | 5606 | 5695 | 5783 | 5872 | 5960 | 6049 | 28 | 54 | 9237 |
| 84 | 65 | 2 | 4920 | 5008 | 5096 | 5184 | 5273 | 5361 | 6449 | 5537 | 6626 | 5714 | 5802 | 5891 | 5979 | 6068 | 6156 | 6244 | 6333 | 21 | 55 | 9 1961 |
| 86 | 56 | | 5206 | 5294 | 5382 | 5470 | 5558 | 5647 | 5735 | 5823 | 6911 | 5999 | 6087 | 6176 | 6264 | 6352 | 6440 | 6522 | 6617 | 19 | 56 | 1666 |
| 87 | 57 | | 5492 | 5580 | 5668 | 5756 | 5844 | 5932 | 6020 | 6108 | 6196 | 6284 | 6372 | 6460 | 6549 | 6637 | 6725 | 6813 | 6901 | 14 | 57 | 1380 |
| 89 | 68 | | 5779 | 5867 | 5954 | 6042 | 6130 | 6218 | 6306 | 6394 | 6482 | 6569 | 6657 | 6745 | 6833 | 6921 | 7009 | 7097 | 7185 | 9 | 58 | 1025 |
| 91 | 59 | | 6065 | 6153 | 6211 | 6329 | 6417 | 6504 | 6591 | 6679 | 6767 | 6855 | 6942 | 7030 | 7118 | 7206 | 7294 | 7381 | 7469 | 6 | 52 | 0809 |

**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

**Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 79° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 79° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 | 0828 | 0924 | 1020 | 1117 | 1213 | 1310 | 1406 | 1503 | 1599 | 1696 | 1792 | 1889 | 1986 | 2082 | 2179 | 2276 | 2372 | 0 | 0' | 0 9191 |
| 2 | 1 | | 1111 | 1207 | 1303 | 1400 | 1496 | 1592 | 1689 | 1785 | 1881 | 1978 | 2074 | 2171 | 2267 | 2364 | 2460 | 2557 | 2653 | 5 | 1 | 9477 |
| 3 | 2 | | 1394 | 1490 | 1586 | 1682 | 1778 | 1875 | 1971 | 2067 | 2163 | 2260 | 2356 | 2452 | 2548 | 2645 | 2741 | 2837 | 2934 | 9 | 2 | 9762 |
| 5 | 3 | | 1677 | 1773 | 1869 | 1965 | 2061 | 2157 | 2253 | 2349 | 2445 | 2541 | 2638 | 2731 | 2830 | 2926 | 3022 | 3118 | 3215 | 14 | 3 | 1 0048 |
| 6 | 4 | | 1960 | 2056 | 2152 | 2248 | 2344 | 2439 | 2535 | 2631 | 2727 | 2823 | 2919 | 3015 | 3111 | 3207 | 3303 | 3399 | 3495 | 19 | 4 | 0333 |
| 8 | 5 | 1 | 2243 | 2339 | 2435 | 2530 | 2626 | 2722 | 2818 | 2913 | 3009 | 3105 | 3201 | 3297 | 3393 | 3488 | 3584 | 3680 | 3776 | 24 | 5 | 1 0619 |
| 9 | 6 | | 2526 | 2622 | 2718 | 2813 | 2909 | 3004 | 3100 | 3196 | 3291 | 3387 | 3483 | 3578 | 3674 | 3770 | 3866 | 3961 | 4057 | 29 | 6 | 0905 |
| 11 | 7 | | 2810 | 2905 | 3000 | 3096 | 3191 | 3287 | 3382 | 3478 | 3573 | 3669 | 3764 | 3860 | 3956 | 4051 | 4147 | 4242 | 4338 | 33 | 7 | 1190 |
| 12 | 8 | | 3093 | 3188 | 3283 | 3379 | 3474 | 3569 | 3665 | 3760 | 3855 | 3951 | 4046 | 4142 | 4237 | 4332 | 4428 | 4523 | 4619 | 38 | 8 | 1476 |
| 14 | 9 | | 3376 | 3471 | 3566 | 3661 | 3757 | 3052 | 3947 | 4049 | 4137 | 1233 | 1328 | 4423 | 4519 | 4611 | 4709 | 4805 | 4900 | 43 | 9 | 1762 |
| 15 | 10 | 1 | 3659 | 3754 | 3849 | 3944 | 4039 | 4134 | 1229 | 4324 | 4420 | 4515 | 4610 | 4705 | 4800 | 4895 | 4990 | 5086 | 5181 | 48 | 10 | 1 2047 |
| 17 | 11 | | 3943 | 4037 | 4132 | 4227 | 4322 | 4417 | 1512 | 4607 | 4702 | 4797 | 4891 | 4987 | 5082 | 5177 | 5272 | 5367 | 5462 | 52 | 11 | 2333 |
| 19 | 12 | | 4226 | 4321 | 4415 | 4510 | 4605 | 4699 | 4794 | 4889 | 4984 | 5079 | 5173 | 5268 | 5363 | 5458 | 5553 | 5648 | 5743 | 57 | 12 | 2619 |
| 20 | 13 | | 4509 | 4604 | 4698 | 4793 | 4887 | 4982 | 5077 | 5171 | 5266 | 5361 | 5455 | 5550 | 5645 | 5739 | 5834 | 5929 | 6024 | 62 | 13 | 2904 |
| 22 | 14 | | 4793 | 4087 | 4981 | 5076 | 5170 | 5265 | 5359 | 5454 | 5548 | 5643 | 5737 | 5832 | 5926 | 6021 | 6115 | 6210 | 6305 | 67 | 14 | 3190 |
| 23 | 15 | 1 | 5076 | 5170 | 5264 | 5359 | 5453 | 5547 | 5642 | 5736 | 5830 | 5925 | 6019 | 6113 | 6208 | 6302 | 6397 | 6491 | 6586 | 71 | 15 | 1 3476 |
| 25 | 16 | | 5359 | 5453 | 5547 | 5641 | 5736 | 5830 | 5921 | 6018 | 6112 | 6207 | 6301 | 6395 | 6489 | 6584 | 6678 | 6772 | 6867 | 76 | 16 | 3762 |
| 26 | 17 | | 5642 | 5736 | 5830 | 5924 | 6018 | 6112 | 6206 | 6301 | 6395 | 6489 | 6583 | 6677 | 6771 | 6865 | 6959 | 7054 | 7148 | 81 | 17 | 4048 |
| 28 | 18 | | 5926 | 6020 | 6114 | 6207 | 6301 | 6395 | 6489 | 6583 | 6677 | 6771 | 6865 | 6959 | 7053 | 7147 | 7211 | 7335 | 7429 | 86 | 18 | 4333 |
| 29 | 19 | | 6209 | 6303 | 6397 | 6490 | 6584 | 6678 | 6771 | 6865 | 6959 | 7053 | 7147 | 7240 | 7334 | 7428 | 7522 | 7616 | 7710 | 91 | 19 | 4619 |
| 31 | 20 | 1 | 6493 | 6586 | 6680 | 6773 | 6867 | 6960 | 7054 | 7148 | 7241 | 7335 | 7429 | 7522 | 7616 | 7710 | 7803 | 7897 | 7991 | 95 | 20 | 1 4905 |
| 32 | 21 | | 6776 | 6869 | 6963 | 7056 | 7150 | 7243 | 7337 | 7430 | 7524 | 7617 | 7711 | 7804 | 7898 | 7991 | 8085 | 8178 | 8272 | 100 | 21 | 5191 |
| 34 | 22 | | 7059 | 7153 | 7246 | 7339 | 7433 | 7526 | 7619 | 7713 | 7806 | 7899 | 7993 | 8086 | 8179 | 8273 | 8366 | 8460 | 8553 | 105 | 22 | 5477 |
| 35 | 23 | | 7343 | 7436 | 7529 | 7622 | 7715 | 7809 | 7902 | 7995 | 8088 | 8181 | 8275 | 8368 | 8461 | 8554 | 8618 | 8741 | 8834 | 110 | 23 | 6763 |
| 37 | 24 | | 7626 | 7719 | 7812 | 7905 | 7998 | 8091 | 8184 | 8277 | 8371 | 8464 | 8557 | 8650 | 8743 | 8836 | 8929 | 9022 | 9115 | 114 | 24 | 6049 |
| 39 | 25 | 1 | 7910 | 8003 | 8096 | 8188 | 8281 | 8374 | 8467 | 8560 | 8653 | 8746 | 8839 | 8932 | 9025 | 9118 | 9211 | 9304 | 9397 | 119 | 25 | 1 6335 |
| 40 | 26 | | 0193 | 8286 | 8379 | 8471 | 8564 | 8657 | 8750 | 8842 | 8935 | 9028 | 9121 | 9214 | 9306 | 9399 | 9492 | 9585 | 9678 | 124 | 26 | 6621 |
| 42 | 27 | | 8477 | 8569 | 8662 | 8754 | 8847 | 8940 | 9032 | 9125 | 9217 | 9310 | 9103 | 9496 | 9588 | 9681 | 9774 | 9866 | 9959 | 129 | 27 | 6906 |
| 43 | 28 | 1 (2) | 8760 | 8853 | 8945 | 9038 | 9130 | 9222 | 9315 | 9407 | 9500 | 9592 | 9685 | 9778 | 9870 | 9963 | 0055 | 0148 | 0240 | 133 | 28 | 7192 |
| 45 | 29 | | 9044 | 9136 | 9228 | 9321 | 9413 | 9505 | 9598 | 9690 | 9782 | 9875 | 9967 | 0060 | 0152 | 0244 | 0337 | 0429 | 0521 | 138 | 29 | 7478 |
| 46 | 30 | 1 (2) | 9327 | 9420 | 9512 | 9604 | 9696 | 9788 | 9880 | 9972 | 0065 | 0157 | 0249 | 0341 | 0434 | 0526 | 0618 | 0710 | 0803 | 143 | 30 | 1 7764 |
| 48 | 31 | | 9611 | 9703 | 9795 | 9887 | 9979 | 0071 | 0163 | 0255 | 0347 | 0439 | 0531 | 0623 | 0715 | 0808 | 0900 | 0992 | 1084 | 148 | 31 | 8050 |
| 49 | 32 | | 9895 | 9986 | 0078 | 0170 | 0262 | 0354 | 0446 | 0538 | 0629 | 0721 | 0813 | 0905 | 0997 | 1089 | 1181 | 1273 | 1365 | 152 | 32 | 8337 |
| 51 | 33 | 2 | 0178 | 0270 | 0362 | 0453 | 0545 | 0637 | 0728 | 0820 | 0912 | 1004 | 1095 | 1187 | 1279 | 1371 | 1463 | 1565 | 1647 | 157 | 33 | 8623 |
| 52 | 34 | | 0462 | 0553 | 0645 | 0736 | 0828 | 0920 | 1011 | 1103 | 1194 | 1286 | 1378 | 1469 | 1561 | 1653 | 1744 | 1836 | 1928 | 162 | 34 | 8909 |
| 64 | 35 | 2 | 0745 | 0837 | 0928 | 1020 | 1111 | 1202 | 1294 | 1385 | 1477 | 1568 | 1660 | 1751 | 1843 | 1934 | 2026 | 2118 | 2209 | 167 | 35 | 1 9195 |
| 56 | 36 | | 1029 | 1120 | 1212 | 1303 | 1394 | 1485 | 1577 | 1668 | 1759 | 1851 | 1942 | 2033 | 2125 | 2216 | 2308 | 2399 | 2490 | 172 | 36 | 9481 |
| 57 | 37 | | 1313 | 1404 | 1495 | 1586 | 1677 | 1768 | 1860 | 1951 | 2042 | 2133 | 2224 | 2315 | 2407 | 2498 | 2589 | 2680 | 2772 | 176 | 37 | 9767 |
| 59 | 38 | | 1596 | 1687 | 1778 | 1869 | 1960 | 2051 | 2142 | 2233 | 2324 | 2415 | 2506 | 2598 | 2689 | 2780 | 2871 | 2962 | 3053 | 181 | 38 | 2 0053 |
| 60 | 39 | | 1880 | 1971 | 2062 | 2153 | 2243 | 2334 | 2425 | 2516 | 2607 | 2698 | 2789 | 2880 | 2971 | 3062 | 3153 | 3244 | 3335 | 186 | 39 | 0339 |
| 62 | 40 | 2 | 2164 | 2255 | 2345 | 2436 | 2527 | 2617 | 2708 | 2799 | 2889 | 2980 | 3071 | 3162 | 3253 | 3343 | 3434 | 3525 | 3616 | 191 | 40 | 2 0625 |
| 53 | 41 | | 2448 | 2538 | 2629 | 2719 | 2810 | 2900 | 2991 | 3081 | 3172 | 3263 | 3353 | 3444 | 3535 | 3625 | 3716 | 3807 | 3897 | 195 | 41 | 0912 |
| 65 | 42 | | 2731 | 2822 | 2912 | 3003 | 3093 | 3183 | 3274 | 3364 | 3455 | 3545 | 3636 | 3726 | 3817 | 3907 | 3998 | 4088 | 4179 | 200 | 42 | 1198 |
| 66 | 43 | | 3015 | 3105 | 3196 | 3286 | 3376 | 3466 | 3557 | 3647 | 3737 | 3827 | 3918 | 4008 | 4099 | 4189 | 1279 | 4370 | 4460 | 205 | 43 | 1484 |
| 68 | 44 | | 3299 | 3389 | 3479 | 3569 | 3659 | 3749 | 3839 | 3930 | 4020 | 4110 | 4200 | 4290 | 4381 | 4471 | 4561 | 4651 | 4742 | 210 | 44 | 1770 |
| 69 | 45 | 2 | 3583 | 3673 | 3762 | 3852 | 3942 | 4032 | 4122 | 4212 | 4302 | 4392 | 4482 | 4573 | 4663 | 4753 | 4843 | 4933 | 5023 | 214 | 45 | 2 2056 |
| 71 | 46 | | 3866 | 3956 | 4046 | 4136 | 4226 | 4315 | 4405 | 4495 | 1585 | 4675 | 4765 | 4855 | 4945 | 5035 | 5125 | 5215 | 5305 | 219 | 46 | 2343 |
| 72 | 47 | | 4150 | 4240 | 4330 | 4119 | 4509 | 4599 | 4688 | 1778 | 4868 | 1957 | 5047 | 5137 | 6227 | 5317 | 5406 | 5496 | 5586 | 224 | 47 | 2629 |
| 74 | 48 | | 4434 | 4524 | 4613 | 4703 | 1792 | 4082 | 4971 | 5061 | 5160 | 5240 | 5330 | 5419 | 5509 | 5599 | 5688 | 5778 | 5868 | 229 | 48 | 2915 |
| 76 | 49 | | 4718 | 4807 | 4897 | 4986 | 5076 | 5165 | 5254 | 5344 | 5433 | 5523 | 5612 | 5701 | 5791 | 5881 | 5970 | 6060 | 6150 | 234 | 49 | 3202 |
| 77 | 60 | 2 | 5002 | 5091 | 5180 | 6269 | 5359 | 5448 | 5537 | 5626 | 5716 | 5805 | 5894 | 5984 | 6073 | 6163 | 6252 | 6341 | 6431 | 238 | 60 | 2 3488 |
| 79 | 61 | | 5286 | 5375 | 5461 | 5553 | 5642 | 5731 | 5020 | 5909 | 5998 | 6088 | 6177 | 6266 | 6355 | 6445 | 6534 | 6623 | 6712 | 243 | 61 | 3774 |
| 80 | 52 | | 5570 | 5658 | 5747 | 5836 | 5925 | 6014 | 6103 | 6192 | 6281 | 6370 | 6459 | 6548 | 6637 | 6727 | 6016 | 6905 | 6994 | 248 | 62 | 4061 |
| 82 | 53 | | 5853 | 5942 | 6031 | 6120 | 6209 | 6297 | 6386 | 6475 | 6564 | 6653 | 6742 | 6831 | 6920 | 7009 | 7097 | 7186 | 7275 | 253 | 53 | 4347 |
| 83 | 54 | | 6137 | 6226 | 6315 | 6403 | 6492 | 6581 | 6569 | 6768 | 6847 | 6935 | 7024 | 7113 | 7202 | 7291 | 7379 | 7468 | 7557 | 257 | 54 | 4633 |
| 85 | 56 | 2 | 6421 | 6510 | 6598 | 6687 | 6775 | 6854 | 6952 | 7041 | 7129 | 7218 | 7307 | 7395 | 7484 | 7573 | 7661 | 7750 | 7839 | 262 | 55 | 2 4920 |
| 86 | 56 | | 6785 | 6794 | 6882 | 6970 | 7059 | 7147 | 7235 | 7324 | 7412 | 7501 | 7589 | 7678 | 7766 | 7855 | 7943 | 8032 | 8120 | 267 | 56 | 5206 |
| 88 | 57 | | 6989 | 7077 | 7166 | 7253 | 7342 | 7430 | 7518 | 7607 | 7695 | 7783 | 7872 | 7960 | 8048 | 8137 | 8225 | 8313 | 8402 | 272 | 57 | 5492 |
| 89 | 58 | | 7273 | 7361 | 7449 | 7537 | 7625 | 7713 | 7802 | 7890 | 7978 | 8066 | 8154 | 8242 | 8331 | 8419 | 8507 | 8595 | 8684 | 276 | 68 | 5779 |
| 91 | 59 | | 7557 | 7645 | 7733 | 7821 | 7909 | 7997 | 8085 | 8173 | 8261 | 8349 | 8437 | 8525 | 8613 | 8701 | 8789 | 8877 | 8965 | 281 | 59 | 6065 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 80° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 80° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 8 | 6' | 2 | 6352 | 6439 | 6527 | 6614 | 6702 | 6789 | 6877 | 6260 | 7852 | 7140 | 7227 | 7316 | 7463 | 7490 | 7570 | 7666 | 7753 | 286 | 0' | 2 0523 |
| 1 | 1 | | 6638 | 6726 | 6813 | 6900 | 6988 | 7075 | 7163 | 7250 | 7337 | 7425 | 7512 | 7600 | 7687 | 7775 | 7862 | 7950 | 8038 | 201 | 1 | 6238 |
| 3 | 2 | | 6925 | 7012 | 7099 | 7186 | 7274 | 7361 | 7448 | 7535 | 7623 | 7710 | 7727 | 7885 | 7972 | 8060 | 8147 | 8234 | 8322 | 276 | 2 | 0 9252 |
| 4 | 3 | | 7211 | 7298 | 7385 | 7473 | 7560 | 7647 | 7734 | 7821 | 7900 | 7925 | 8083 | 8170 | 8257 | 8344 | 8431 | 8519 | 8686 | 272 | 3 | 9067 |
| 6 | 4 | | 7498 | 7585 | 7672 | 7752 | 7046 | 7932 | 8020 | 8167 | 8194 | 8281 | 8368 | 8455 | 8542 | 8629 | 8716 | 8803 | 8890 | 267 | 4 | 2381 |
| 7 | 5 | 2 | 7784 | 7871 | 7258 | 8045 | 8131 | 8218 | 8305 | 8392 | 8472 | 8566 | 8653 | 8740 | 8827 | 8914 | 9000 | 9087 | 2174 | 262 | 5 | 8 9095 |
| 8 | 6 | | 8071 | 8157 | 8244 | 8331 | 8417 | 8504 | 8591 | 8678 | 8764 | 8851 | 8238 | 2025 | 9111 | 9198 | 9285 | 9372 | 9452 | 257 | 6 | 8810 |
| 10 | 7 | | 8357 | 8444 | 8530 | 8617 | 8703 | 8790 | 8877 | 8963 | 2050 | 9136 | 2223 | 2310 | 9326 | 9483 | 9570 | 2656 | 2743 | 253 | 7 | 8524 |
| 11 | 8 | 2 (3) | 8644 | 8730 | 8817 | 8903 | 8989 | 9076 | 9162 | 9249 | 9335 | 9422 | 9508 | 9595 | 9681 | 9768 | 9854 | 9941 | 0027 | 248 | 8 | 8238 |
| 13 | 9 | | 8931 | 2017 | 9103 | 9189 | 9275 | 2362 | 9448 | 9534 | 9621 | 9707 | 2793 | 9880 | 9966 | 0052 | 0139 | 0225 | 0311 | 243 | 9 | 7953 |
| 14 | 10 | 2 (3) | 9217 | 9303 | 9389 | 9475 | 9561 | 9648 | 9734 | 9820 | 9906 | 9992 | 0078 | 0165 | 0251 | 0337 | 0423 | 0509 | 0596 | 238 | 10 | 0 7667 |
| 15 | 11 | | 9504 | 9520 | 2676 | 9762 | 9848 | 9933 | 6019 | 6186 | 0121 | 0277 | 0364 | 0450 | 0536 | 0622 | 6708 | 0794 | 0880 | 234 | 11 | 7381 |
| 17 | 12 | | 9790 | 2876 | 9962 | 0048 | 0134 | 0219 | 0305 | 0391 | 0477 | 0563 | 0642 | 0735 | 0821 | 0906 | 0993 | 1078 | 1164 | 229 | 12 | 7096 |
| 18 | 13 | 3 | 0077 | 0163 | 0248 | 0334 | 0420 | 0505 | 0591 | 0677 | 0752 | 0848 | 0934 | 1020 | 1105 | 1191 | 1277 | 1363 | 1449 | 224 | 13 | 6810 |
| 19 | 14 | | 0364 | 0442 | 0535 | 0620 | 0706 | 0721 | 0077 | 0962 | 1648 | 1134 | 1219 | 1305 | 1396 | 1476 | 1562 | 1647 | 1733 | 219 | 14 | 6524 |
| 21 | 15 | 3 | 0650 | 0736 | 0821 | 0907 | 6992 | 1077 | 1163 | 1248 | 1334 | 1419 | 1504 | 1520 | 1675 | 1761 | 1846 | 1932 | 2017 | 214 | 15 | 8 6238 |
| 22 | 16 | | 0237 | 1022 | 1108 | 1193 | 1278 | 1363 | 1448 | 1534 | 1619 | 1704 | 1790 | 1875 | 1966 | 2046 | 2131 | 2216 | 2302 | 210 | 16 | 3252 |
| 24 | 17 | | 1224 | 1309 | 1324 | 1479 | 1564 | 1642 | 1734 | 1819 | 1205 | 1990 | 2075 | 2160 | 2245 | 2331 | 2416 | 2501 | 2586 | 205 | 17 | 5667 |
| 25 | 18 | | 1511 | 1595 | 1680 | 1765 | 1851 | 1935 | 2620 | 2105 | 2190 | 2275 | 2360 | 2445 | 2530 | 2615 | 2700 | 2786 | 2871 | 200 | 18 | 5381 |
| 26 | 19 | | 1797 | 1882 | 1967 | 2052 | 2137 | 2221 | 2306 | 2391 | 2476 | 2561 | 2645 | 2730 | 2815 | 2908 | 2985 | 3070 | 3155 | 195 | 12 | 5095 |
| 28 | 20 | 3 | 2084 | 2169 | 2253 | 2338 | 2423 | 2507 | 2592 | 2677 | 2761 | 2846 | 2931 | 3016 | 3100 | 3185 | 3270 | 3355 | 3440 | 191 | 28 | 8 4809 |
| 29 | 21 | | 2371 | 2455 | 2540 | 2624 | 2709 | 2723 | 2878 | 2962 | 3047 | 3132 | 3216 | 3301 | 3385 | 3470 | 3555 | 3639 | 3724 | 186 | 21 | 4523 |
| 31 | 22 | | 2658 | 2742 | 2826 | 2911 | 2995 | 3079 | 3164 | 3248 | 3333 | 3417 | 3501 | 3586 | 3670 | 3755 | 3839 | 3924 | 4008 | 181 | 22 | 4237 |
| 32 | 23 | | 2944 | 3029 | 3113 | 3197 | 3281 | 3365 | 3450 | 3534 | 3618 | 3702 | 3787 | 3871 | 3955 | 4040 | 4124 | 4208 | 4293 | 176 | 23 | 3951 |
| 33 | 24 | | 3231 | 3315 | 3399 | 3483 | 3567 | 3651 | 3736 | 3820 | 3904 | 3988 | 4072 | 4156 | 4241 | 4328 | 4409 | 4493 | 4577 | 172 | 24 | 3665 |
| 35 | 25 | 3 | 3518 | 3602 | 3686 | 3770 | 3854 | 3938 | 4022 | 4106 | 4190 | 4274 | 4358 | 4442 | 4526 | 4610 | 4694 | 4778 | 4862 | 167 | 25 | 8 3379 |
| 36 | 26 | | 3805 | 3889 | 3972 | 4056 | 4140 | 4224 | 4308 | 4391 | 4475 | 4559 | 4643 | 4727 | 4811 | 4895 | 4979 | 5062 | 5146 | 162 | 26 | 3094 |
| 38 | 27 | | 4092 | 4175 | 4259 | 4343 | 4426 | 4510 | 4594 | 4677 | 4761 | 4845 | 4928 | 5012 | 5026 | 5180 | 5263 | 8347 | 5431 | 157 | 27 | 2808 |
| 32 | 28 | | 4379 | 4462 | 4546 | 4622 | 4712 | 4796 | 4880 | 4963 | 5047 | 5130 | 5214 | 5227 | 5381 | 5468 | 5548 | 5632 | 8710 | 152 | 28 | 2522 |
| 40 | 22 | | 4665 | 4749 | 4832 | 4915 | 4999 | 5082 | 5166 | 5249 | 5332 | 5416 | 5499 | 5583 | 5606 | 5750 | 5833 | 5917 | 6000 | 148 | 29 | 2236 |
| 42 | 30 | 3 | 4952 | 5036 | 5112 | 5202 | 5285 | 5368 | 5452 | 5535 | 5618 | 5701 | 5785 | 5868 | 5951 | 6035 | 6118 | 6201 | 6285 | 143 | 30 | 8 1950 |
| 43 | 31 | | 5232 | 5322 | 5405 | 5488 | 5571 | 5655 | 5738 | 5821 | 5904 | 5987 | 6070 | 6153 | 6236 | 6326 | 6403 | 6486 | 6569 | 138 | 31 | 1663 |
| 45 | 32 | | 5526 | 5609 | 5622 | 5775 | 5858 | 5941 | 6024 | 6107 | 6190 | 6273 | 6356 | 6439 | 6522 | 6605 | 6688 | 6771 | 6854 | 133 | 32 | 1377 |
| 46 | 33 | | 5813 | 5896 | 5979 | 6061 | 6144 | 6227 | 6310 | 6393 | 6475 | 6558 | 6641 | 6724 | 6807 | 6890 | 6973 | 7056 | 7138 | 129 | 33 | 1021 |
| 47 | 34 | | 6160 | 6183 | 6265 | 6348 | 6430 | 6513 | 6596 | 5678 | 6761 | 6844 | 6927 | 7009 | 7092 | 7175 | 7258 | 7340 | 7423 | 124 | 34 | 8805 |
| 49 | 35 | 3 | 6387 | 6469 | 6552 | 6634 | 6717 | 6799 | 6882 | 6964 | 7047 | 7130 | 7212 | 7224 | 7377 | 7460 | 7542 | 7625 | 7708 | 119 | 35 | 0 0512 |
| 50 | 36 | | 6674 | 6756 | 6839 | 6921 | 7003 | 7086 | 7168 | 7250 | 7333 | 7415 | 7498 | 7580 | 7662 | 7740 | 7827 | 7910 | 7992 | 114 | 36 | 8233 |
| 51 | 37 | | 6961 | 7643 | 7125 | 7207 | 7290 | 7372 | 7454 | 7536 | 7619 | 7701 | 7783 | 7865 | 7948 | 8030 | 8112 | 8195 | 8277 | 110 | 37 | 7 9947 |
| 53 | 38 | | 7248 | 7330 | 7412 | 7494 | 7576 | 7658 | 7740 | 7822 | 7904 | 7987 | 8068 | 8151 | 8233 | 8318 | 8397 | 8488 | 8502 | 105 | 38 | 9601 |
| 54 | 39 | | 7535 | 7617 | 7699 | 7781 | 7863 | 7944 | 8026 | 8108 | 8190 | 8272 | 8354 | 8436 | 8518 | 8600 | 8682 | 8764 | 8846 | 100 | 39 | 9375 |
| 56 | 40 | 3 | 7822 | 7904 | 7285 | 8067 | 8142 | 8231 | 8313 | 8394 | 8476 | 8558 | 8640 | 8722 | 8804 | 8885 | 8267 | 9049 | 9131 | 95 | 48 | 7 9088 |
| 67 | 41 | | 8109 | 8191 | 8272 | 8354 | 8435 | 8517 | 8529 | 8680 | 8762 | 8844 | 8225 | 9007 | 9089 | 9171 | 9252 | 2334 | 9416 | 21 | 41 | 8802 |
| 58 | 42 | | 8396 | 8478 | 8559 | 8640 | 8722 | 8803 | 8885 | 8966 | 9048 | 9129 | 9211 | 2293 | 9374 | 9456 | 2537 | 9612 | 9701 | 86 | 42 | 8516 |
| 60 | 43 | | 8683 | 8765 | 8846 | 8927 | 9008 | 9090 | 2171 | 9253 | 9334 | 2415 | 9496 | 9578 | 9659 | 9741 | 9822 | 2904 | 9285 | 81 | 43 | 8230 |
| 61 | 44 | 3 (4) | 8270 | 9051 | 9133 | 9214 | 9295 | 9376 | 9457 | 9539 | 9620 | 2701 | 9782 | 9064 | 9945 | 0026 | 0107 | 0189 | 0270 | 76 | 44 | 7944 |
| 63 | 45 | 3 (4) | 9257 | 9338 | 9419 | 2500 | 9581 | 2663 | 9744 | 9825 | 9906 | 9987 | 6068 | 0149 | 0230 | 0311 | 0393 | 0474 | 0555 | 71 | 45 | 7 7657 |
| 64 | 46 | | 2545 | 9625 | 9706 | 9787 | 9868 | 9249 | 0030 | 0111 | 0192 | 0273 | 0354 | 0435 | 6516 | 0597 | 0678 | 0759 | 0840 | 67 | 46 | 7371 |
| 65 | 47 | | 2832 | 2212 | 2293 | 0074 | 0154 | 0238 | 0316 | 0397 | 0478 | 0558 | 0639 | 8720 | 0801 | 0882 | 0263 | 1644 | 1125 | 62 | 47 | 7088 |
| 67 | 40 | 4 | 8119 | 0199 | 0280 | 0360 | 0441 | 0522 | 0602 | 0683 | 0764 | 0844 | 0925 | 1006 | 1086 | 1167 | 1248 | 1322 | 1409 | 57 | 48 | 6798 |
| 68 | 49 | | 0406 | 0486 | 0567 | 0647 | 0728 | 0808 | 0889 | 0969 | 1850 | 1130 | 1211 | 1291 | 1372 | 1452 | 1533 | 1614 | 1694 | 52 | 42 | 6512 |
| 70 | 00 | 4 | 8693 | 0773 | 0854 | 0934 | 1014 | 1095 | 1175 | 1255 | 1336 | 1410 | 1426 | 1577 | 1657 | 1738 | 1818 | 1899 | 1979 | 40 | 58 | 7 6226 |
| 71 | 61 | | 8980 | 1050 | 1141 | 1221 | 1301 | 1381 | 1461 | 1541 | 1622 | 1702 | 1782 | 1862 | 1943 | 2023 | 2103 | 2184 | 2264 | 43 | 81 | 5939 |
| 72 | 82 | | 1267 | 1347 | 1427 | 1507 | 1587 | 1668 | 1748 | 1828 | 1908 | 1908 | 2068 | 2140 | 2228 | 2308 | 2388 | 2469 | 2549 | 38 | 52 | 5653 |
| 74 | 53 | | 1555 | 1634 | 1714 | 1794 | 1874 | 1954 | 2034 | 2114 | 2194 | 2274 | 2354 | 2434 | 2514 | 2594 | 2674 | 2754 | 2834 | 33 | 53 | 5367 |
| 75 | 54 | | 1842 | 1922 | 2001 | 2081 | 2161 | 2241 | 2320 | 2400 | 2480 | 2560 | 2639 | 2719 | 2799 | 2872 | 2959 | 3039 | 3119 | 29 | 54 | 5080 |
| 77 | 55 | 4 | 2129 | 2209 | 2288 | 2368 | 2447 | 2527 | 2607 | 2686 | 2766 | 2846 | 2225 | 3005 | 3085 | 3164 | 3244 | 3324 | 3404 | 24 | 55 | 7 4794 |
| 78 | 56 | | 2416 | 2496 | 2575 | 2655 | 2734 | 2814 | 2893 | 2973 | 3052 | 3131 | 3211 | 3291 | 3370 | 3450 | 3529 | 3609 | 3688 | 19 | 86 | 4508 |
| 72 | 57 | | 2704 | 2783 | 2862 | 2941 | 3021 | 3100 | 3172 | 3259 | 3338 | 3417 | 3497 | 3576 | 3656 | 3735 | 3814 | 3894 | 3973 | 14 | 87 | 4221 |
| 81 | 58 | | 2991 | 3070 | 3149 | 3228 | 3307 | 3387 | 3466 | 3545 | 3624 | 3703 | 3783 | 3862 | 3941 | 4020 | 4100 | 4179 | 4258 | 9 | 88 | 3935 |
| 82 | 89 | | 3278 | 3357 | 3436 | 3515 | 3594 | 3673 | 3752 | 3831 | 3910 | 3989 | 4069 | 4148 | 4227 | 4306 | 4385 | 4464 | 4543 | 5 | 89 | 3648 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

| Partes para segundos del Arg. Auxiliar | 80° | | Argumento Auxiliar. 17' | 18' | 19' | 26' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 2 | 7841 | 7929 | 8917 | 6104 | 8192 | 8299 | 8368 | 8456 | 8514 | 6631 | 8719 | 8807 | 8895 | 8983 | 0071 | 9159 | 9247 |
| 1 | 1 | | 8125 | 8213 | 8396 | 6388 | 8476 | 8563 | 8551 | 8739 | 8826 | 8914 | 9002 | 9090 | 9177 | 9265 | 9353 | 9441 | 9529 |
| 3 | 2 | | 8409 | 8197 | 8584 | 8672 | 8759 | 8847 | 8934 | 9022 | 9109 | 9197 | 9284 | 9372 | 9450 | 9547 | 9635 | 9723 | 9810 |
| 4 | 3 | 2 (3) | 8693 | 8781 | 8868 | 8955 | 9043 | 9130 | 9217 | 9305 | 9392 | 9480 | 9567 | 9655 | 9742 | 9830 | 9917 | 0004 | 0092 |
| 6 | 4 | | 8977 | 9065 | 9152 | 9239 | 9326 | 9413 | 9501 | 9588 | 9675 | 9762 | 9850 | 9937 | 0021 | 0112 | 0199 | 0286 | 0374 |
| 7 | 5 | 2 (3) | 9261 | 9348 | 9436 | 9523 | 9519 | 9697 | 9784 | 9871 | 9958 | 0045 | 0132 | 0220 | 0307 | 0391 | 0481 | 9568 | 0656 |
| 8 | 6 | | 9546 | 9632 | 9719 | 9806 | 9893 | 9980 | 0057 | 0154 | 0241 | 0328 | 0415 | 0502 | 0589 | 0676 | 9763 | 9850 | 0937 |
| 10 | 7 | | 9830 | 9916 | 0003 | 0999 | 0177 | 0263 | 0350 | 0437 | 0524 | 0611 | 0698 | 0784 | 6871 | 0958 | 1045 | 1132 | 1219 |
| 11 | 8 | 3 | 0114 | 0200 | 6287 | 0374 | 0460 | 0547 | 0634 | 0720 | 9897 | 0894 | 0980 | 1057 | 1154 | 1211 | 1327 | 1414 | 1501 |
| 13 | 9 | | 0398 | 0484 | 6571 | 6657 | 0744 | 0830 | 0917 | 1003 | 1090 | 1176 | 1253 | 1350 | 1436 | 1523 | 1609 | 1696 | 1783 |
| 14 | 10 | 3 | 0682 | 0768 | 9855 | 0941 | 1027 | 1114 | 1200 | 1286 | 1373 | 1459 | 1516 | 1632 | 1719 | 1805 | 1891 | 1978 | 2065 |
| 15 | 11 | | 0966 | 1052 | 1139 | 1225 | 1311 | 1397 | 1483 | 1570 | 1656 | 1742 | 1828 | 1915 | 2001 | 2087 | 2174 | 2260 | 2346 |
| 17 | 12 | | 1250 | 1336 | 1422 | 1508 | 1595 | 1681 | 1767 | 1853 | 1939 | 2025 | 2111 | 2197 | 2283 | 2370 | 2156 | 2512 | 2628 |
| 18 | 13 | | 1535 | 1620 | 1706 | 1792 | 1878 | 1964 | 2650 | 2136 | 2222 | 2308 | 2394 | 2480 | 2566 | 2652 | 2738 | 2824 | 2910 |
| 19 | 14 | | 1819 | 1905 | 1999 | 2976 | 2162 | 2218 | 2333 | 2419 | 2505 | 2591 | 2577 | 2762 | 2848 | 2934 | 3020 | 3106 | 3192 |
| 21 | 16 | 3 | 2103 | 2189 | 2274 | 2369 | 2445 | 2531 | 2617 | 2702 | 2788 | 2874 | 2959 | 3045 | 3131 | 3217 | 3302 | 3388 | 3474 |
| 22 | 16 | | 2387 | 2473 | 2558 | 2644 | 2729 | 2815 | 2900 | 2986 | 3071 | 3157 | 3242 | 3328 | 3413 | 3499 | 3585 | 3670 | 3756 |
| 24 | 17 | | 2672 | 2757 | 2842 | 2927 | 3013 | 3098 | 3183 | 3269 | 3351 | 3440 | 3525 | 3610 | 3696 | 3781 | 3867 | 3952 | 4038 |
| 25 | 18 | | 2956 | 3941 | 3126 | 3211 | 3296 | 3382 | 3467 | 3552 | 3637 | 3723 | 3808 | 3893 | 3978 | 4064 | 4149 | 4234 | 4320 |
| 26 | 19 | | 3246 | 3325 | 3410 | 3495 | 3580 | 3665 | 3759 | 3835 | 3920 | 4006 | 4091 | 4176 | 4261 | 4316 | 4431 | 4516 | 4602 |
| 28 | 20 | 3 | 3524 | 3609 | 3694 | 3779 | 3864 | 3919 | 4034 | 4119 | 4203 | 4289 | 4373 | 4458 | 4543 | 4629 | 4713 | 4799 | 4884 |
| 29 | 21 | | 3809 | 3893 | 3978 | 4063 | 4148 | 4232 | 4317 | 4402 | 4487 | 4572 | 4656 | 4741 | 4825 | 4911 | 4996 | 5081 | 5166 |
| 31 | 22 | | 4093 | 4176 | 4262 | 4347 | 4431 | 4516 | 4500 | 4685 | 4770 | 4855 | 1939 | 5924 | 5109 | 5193 | 5278 | 5363 | 5448 |
| 32 | 23 | | 4377 | 4462 | 4546 | 4631 | 4715 | 4799 | 4884 | 4968 | 5953 | 5138 | 5222 | 5307 | 5391 | 5476 | 5560 | 5643 | 5730 |
| 33 | 24 | | 4662 | 4746 | 4836 | 4915 | 4999 | 5083 | 5167 | 5252 | 5336 | 5421 | 5505 | 5589 | 5674 | 5758 | 5843 | 5927 | 6012 |
| 35 | 25 | 3 | 4916 | 5030 | 5114 | 5198 | 5283 | 5367 | 5451 | 5535 | 5619 | 5704 | 5788 | 5872 | 5957 | 6041 | 6125 | 6209 | 6294 |
| 36 | 26 | | 5230 | 5314 | 5398 | 5482 | 5566 | 5650 | 5734 | 5819 | 5903 | 5987 | 6071 | 6155 | 6239 | 5323 | 6407 | 6492 | 6576 |
| 38 | 27 | | 5515 | 5599 | 5682 | 5766 | 5850 | 5934 | 6918 | 6102 | 6186 | 6270 | 6354 | 6438 | 6522 | 6506 | 6590 | 6774 | 6858 |
| 39 | 28 | | 5799 | 5883 | 5967 | 6036 | 6134 | 6218 | 6301 | 6385 | 6469 | 6553 | 6637 | 6721 | 6894 | 6888 | 5972 | 7036 | 7140 |
| 40 | 29 | | 6084 | 6167 | 6251 | 6334 | 6418 | 6501 | 6585 | 6669 | 6752 | 6836 | 6920 | 7093 | 7087 | 7171 | 7255 | 7338 | 7422 |
| 42 | 30 | 3 | 6368 | 6451 | 6535 | 6618 | 6702 | 6785 | 6869 | 6952 | 7036 | 7119 | 7203 | 7286 | 7370 | 7453 | 7537 | 7621 | 7704 |
| 43 | 31 | | 6652 | 6736 | 6819 | 6902 | 6986 | 7069 | 7152 | 7236 | 7319 | 7492 | 7486 | 7569 | 7652 | 7736 | 7819 | 7903 | 7986 |
| 45 | 32 | | 6937 | 7920 | 7103 | 7186 | 7269 | 7353 | 7436 | 7519 | 7602 | 7685 | 7769 | 7852 | 7935 | 8018 | 8192 | 8185 | 8268 |
| 46 | 33 | | 7221 | 7304 | 7387 | 7470 | 7553 | 7636 | 7719 | 7802 | 7885 | 7969 | 8052 | 8135 | 8218 | 8391 | 8384 | 8467 | 8550 |
| 47 | 34 | | 7506 | 7589 | 7672 | 7754 | 7837 | 7920 | 8903 | 8086 | 8169 | 8252 | 8335 | 8118 | 8561 | 8584 | 8667 | 8750 | 8833 |
| 49 | 35 | 3 | 7790 | 7873 | 7956 | 8038 | 8121 | 8294 | 8287 | 8369 | 8452 | 8535 | 8618 | 8701 | 8783 | 8866 | 8949 | 9032 | 9115 |
| 50 | 36 | | 6075 | 8157 | 8240 | 6322 | 6405 | 8488 | 8579 | 8653 | 8736 | 8818 | 8901 | 8983 | 9066 | 9149 | 9232 | 9314 | 9397 |
| 51 | 37 | | 8339 | 8442 | 8524 | 8697 | 8689 | 8772 | 6854 | 8936 | 9019 | 9101 | 9184 | 9266 | 9349 | 9432 | 9514 | 9597 | 9679 |
| 53 | 38 | | 8644 | 8726 | 8808 | 8891 | 8973 | 9953 | 9138 | 9220 | 9302 | 9385 | 9467 | 9549 | 9632 | 9714 | 9797 | 9879 | 9951 |
| 54 | 39 | 3 (4) | 8929 | 9011 | 9093 | 9175 | 9257 | 9339 | 9421 | 9504 | 9586 | 9668 | 9750 | 9832 | 9915 | 9997 | 0079 | 0151 | 0214 |
| 56 | 40 | 3 (4) | 9213 | 9295 | 9377 | 9159 | 9511 | 9623 | 9795 | 9787 | 9869 | 9951 | 0033 | 0115 | 0197 | 0279 | 0362 | 0444 | 0526 |
| 57 | 41 | | 9498 | 9580 | 9661 | 9743 | 9825 | 9907 | 9989 | 0071 | 0152 | 0234 | 0316 | 0398 | 0480 | 0562 | 0641 | 0726 | 0808 |
| 58 | 42 | | 9782 | 9864 | 9945 | 0027 | 0109 | 0191 | 0272 | 0354 | 0436 | 0518 | 0600 | 0681 | 0763 | 0845 | 0927 | 1009 | 1090 |
| 60 | 43 | 4 | 0067 | 0148 | 0230 | 0312 | 9393 | 0473 | 0555 | 0638 | 0719 | 0801 | 9883 | 0964 | 1046 | 1128 | 1209 | 1291 | 1373 |
| 61 | 44 | | 0352 | 0433 | 6514 | 0596 | 0577 | 9758 | 0840 | 0921 | 1003 | 1084 | 1166 | 1247 | 1329 | 1410 | 1492 | 1573 | 1653 |
| 63 | 45 | 4 | 0636 | 9717 | 9799 | 0880 | 0961 | 1942 | 1124 | 1265 | 1285 | 1368 | 1449 | 1530 | 1612 | 1693 | 1774 | 1856 | 1937 |
| 64 | 46 | | 9921 | 1992 | 1083 | 1164 | 1245 | 1326 | 1408 | 1489 | 1570 | 1651 | 1732 | 1813 | 1893 | 1976 | 2057 | 2138 | 2220 |
| 65 | 47 | | 1293 | 1286 | 1367 | 1448 | 1529 | 1610 | 1691 | 1772 | 1853 | 1934 | 2015 | 2096 | 2178 | 2259 | 2340 | 2421 | 2502 |
| 67 | 48 | | 1499 | 1571 | 1652 | 1733 | 1813 | 1894 | 1975 | 2956 | 2137 | 2218 | 2299 | 2380 | 2460 | 2541 | 2622 | 2703 | 2784 |
| 68 | 49 | | 1775 | 1855 | 1936 | 2617 | 2097 | 2178 | 2259 | 2340 | 2420 | 2591 | 2582 | 2663 | 2743 | 2824 | 2996 | 2986 | 3067 |
| 79 | 50 | 4 | 2960 | 2140 | 2221 | 2361 | 2382 | 2462 | 2543 | 2623 | 2704 | 2784 | 2865 | 2946 | 3926 | 3107 | 3188 | 3268 | 3349 |
| 71 | 51 | | 2344 | 2425 | 2505 | 2565 | 2666 | 2746 | 2827 | 2967 | 2987 | 3068 | 3148 | 3229 | 3309 | 3390 | 3470 | 3551 | 3632 |
| 72 | 52 | | 2629 | 2709 | 2789 | 2870 | 2956 | 3030 | 3110 | 3191 | 3271 | 3351 | 3432 | 3512 | 3592 | 3673 | 3753 | 3834 | 3914 |
| 74 | 53 | | 2914 | 2994 | 3074 | 3154 | 3234 | 3314 | 3394 | 3474 | 3555 | 3635 | 3715 | 3795 | 3875 | 3956 | 4636 | 4116 | 4196 |
| 75 | 54 | | 3199 | 3278 | 3358 | 3438 | 3518 | 3698 | 3678 | 3758 | 3838 | 3918 | 3996 | 4078 | 4158 | 4238 | 4319 | 4399 | 4479 |
| 77 | 55 | 4 | 3483 | 3563 | 3643 | 3723 | 3802 | 3882 | 3962 | 4042 | 4122 | 4202 | 4282 | 4362 | 4441 | 4521 | 4601 | 4661 | 4761 |
| 78 | 56 | | 3768 | 3848 | 3927 | 4607 | 4087 | 4166 | 4246 | 4326 | 4405 | 4485 | 4565 | 4645 | 4724 | 4804 | 4884 | 4964 | 5044 |
| 79 | 57 | | 4953 | 4132 | 4212 | 4291 | 4371 | 4450 | 4530 | 4609 | 4689 | 4769 | 4848 | 4928 | 6097 | 5067 | 5167 | 5246 | 5326 |
| 81 | 58 | | 4338 | 4417 | 4496 | 1576 | 4655 | 4731 | 4814 | 4893 | 4973 | 5032 | 5132 | 5211 | 5291 | 6370 | 5450 | 5529 | 5609 |
| 82 | 59 | | 4622 | 4702 | 4781 | 4860 | 4939 | 5019 | 5098 | 5177 | 5256 | 5336 | 5416 | 5494 | 6574 | 5653 | 6732 | 5812 | 5891 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 80° | Núm. |
|---|---|---|
| 0 | 0' | 2 6352 |
| 5 | 1 | 6638 |
| 10 | 2 | 6925 |
| 14 | 3 | 7211 |
| 19 | 4 | 7498 |
| 24 | 6 | 2 7784 |
| 29 | 6 | 8071 |
| 33 | 7 | 8357 |
| 38 | 8 | 8644 |
| 43 | 9 | 8931 |
| 48 | 19 | 2 9217 |
| 53 | 11 | 9504 |
| 57 | 12 | 9791 |
| 62 | 13 | 3 0077 |
| 67 | 14 | 0364 |
| 72 | 15 | 3 9650 |
| 76 | 16 | 0937 |
| 81 | 17 | 1224 |
| 86 | 18 | 1511 |
| 91 | 19 | 1797 |
| 96 | 29 | 3 2084 |
| 100 | 21 | 2371 |
| 105 | 22 | 2658 |
| 110 | 23 | 2944 |
| 115 | 24 | 3231 |
| 120 | 25 | 3 3518 |
| 124 | 26 | 3806 |
| 129 | 27 | 4092 |
| 134 | 28 | 4379 |
| 139 | 29 | 4666 |
| 143 | 30 | 3 4952 |
| 148 | 31 | 5239 |
| 153 | 32 | 6526 |
| 158 | 33 | 6813 |
| 163 | 34 | 6106 |
| 167 | 35 | 3 6387 |
| 172 | 36 | 6574 |
| 177 | 37 | 6961 |
| 182 | 38 | 7248 |
| 187 | 39 | 7635 |
| 191 | 40 | 3 7822 |
| 195 | 41 | 8109 |
| 201 | 42 | 8396 |
| 206 | 43 | 8683 |
| 210 | 44 | 8970 |
| 215 | 45 | 3 9257 |
| 220 | 46 | 9545 |
| 225 | 47 | 9832 |
| 230 | 48 | 4 0119 |
| 234 | 49 | 8166 |
| 239 | 59 | 4 0593 |
| 244 | 51 | 6989 |
| 219 | 52 | 1268 |
| 253 | 53 | 1555 |
| 258 | 54 | 1842 |
| 263 | 55 | 4 2129 |
| 268 | 56 | 2416 |
| 273 | 57 | 2704 |
| 277 | 58 | 2991 |
| 282 | 59 | 3278 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 81° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 81° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 3566 | 3644 | 3723 | 3802 | 3881 | 3960 | 4039 | 4118 | 4196 | 4275 | 4354 | 4433 | 4512 | 4591 | 4678 | 4749 | 1828 | 987 | 0' | 7 3362 |
| 1 | 1 | | 3853 | 3932 | 4010 | 4089 | 4168 | 4246 | 4325 | 4404 | 4483 | 4561 | 4640 | 4719 | 4798 | 4877 | 4955 | 5034 | 5113 | 282 | 1 | 3075 |
| 2 | 2 | | 4140 | 4212 | 4297 | 4376 | 4454 | 4533 | 4612 | 4690 | 4769 | 4847 | 4926 | 5005 | 5083 | 5162 | 5241 | 5320 | 5398 | 277 | 2 | 2782 |
| 4 | 3 | | 4428 | 4506 | 4584 | 4663 | 4741 | 4820 | 4898 | 4975 | 5055 | 5133 | 5212 | 5220 | 5369 | 5448 | 5526 | 5605 | 5683 | 273 | 3 | 2502 |
| 5 | 4 | | 4716 | 4793 | 4871 | 4950 | 5028 | 5106 | 5181 | 5263 | 5341 | 5419 | 5498 | 5676 | 5655 | 5733 | 5811 | 5890 | 5968 | 268 | 4 | 2216 |
| 6 | 5 | 4 | 5002 | 5080 | 5158 | 5237 | 5315 | 5323 | 5171 | 5512 | 5627 | 5706 | 5784 | 5862 | 5940 | 6018 | 6097 | 6175 | 6253 | 263 | 5 | 7 1222 |
| 7 | 6 | | 5290 | 5368 | 5446 | 5524 | 5601 | 5680 | 5758 | 5836 | 5914 | 5292 | 6070 | 6148 | 6226 | 6304 | 6382 | 6460 | 6538 | 258 | 6 | 1643 |
| 9 | 7 | | 5577 | 5655 | 5733 | 5810 | 5888 | 5966 | 5044 | 5122 | 6200 | 5278 | 6356 | 8434 | 6512 | 6589 | 6667 | 6745 | 6824 | 253 | 7 | 1356 |
| 10 | 8 | | 5864 | 5942 | 6020 | 6027 | 6175 | 6253 | 5331 | 6408 | 6486 | 6564 | 6642 | 6719 | 6727 | 6875 | 6953 | 7031 | 7109 | 249 | 8 | 1069 |
| 11 | 9 | | 6152 | 6229 | 6307 | 6384 | 6462 | 6540 | 6617 | 6695 | 5772 | 6850 | 6928 | 7005 | 7083 | 7161 | 7238 | 7316 | 7394 | 944 | 9 | 0783 |
| 12 | 10 | 4 | 6439 | 6517 | 6591 | 6671 | 6749 | 6826 | 6904 | 6981 | 7059 | 7136 | 7214 | 7291 | 7369 | 7446 | 7524 | 7601 | 7679 | 239 | 10 | 7 0496 |
| 14 | 11 | | 6727 | 6804 | 6881 | 6958 | 7036 | 7113 | 7120 | 7268 | 7345 | 7422 | 7500 | 7577 | 7654 | 7732 | 7809 | 7886 | 7964 | 234 | 11 | 0209 |
| 15 | 12 | | 7014 | 7091 | 7168 | 7245 | 7323 | 7400 | 7477 | 7554 | 7631 | 7708 | 7786 | 7863 | 7940 | 8017 | 8094 | 8172 | 8249 | 230 | 12 | 6 9923 |
| 16 | 13 | | 7302 | 7379 | 7455 | 7532 | 7609 | 7686 | 7763 | 7840 | 7217 | 7995 | 8072 | 8142 | 8226 | 8303 | 8380 | 8457 | 8534 | 225 | 13 | 9636 |
| 17 | 14 | | 7589 | 7866 | 7743 | 7812 | 7896 | 7973 | 8050 | 8127 | 8204 | 8281 | 8358 | 8435 | 8511 | 8588 | 8655 | 8742 | 8812 | 220 | 14 | 9350 |
| 19 | 15 | 4 | 7877 | 7953 | 8030 | 8107 | 8183 | 8260 | 8337 | 8413 | 8490 | 8567 | 8641 | 8720 | 8797 | 8874 | 8950 | 9028 | 9105 | 215 | 15 | 6 9063 |
| 20 | 16 | | 8164 | 8241 | 8317 | 8394 | 8470 | 8547 | 8623 | 8700 | 8777 | 8853 | 8230 | 9006 | 2083 | 9160 | 9236 | 9313 | 9390 | 210 | 16 | 8776 |
| 21 | 17 | | 8452 | 8528 | 8604 | 8681 | 8757 | 8834 | 8910 | 8986 | 9063 | 9139 | 9216 | 9222 | 9369 | 2445 | 9522 | 9598 | 9676 | 206 | 17 | 8489 |
| 22 | 18 | | 8740 | 8815 | 8892 | 8968 | 2044 | 9120 | 9197 | 9273 | 9349 | 9426 | 9502 | 9578 | 9655 | 9731 | 2807 | 9884 | 9960 | 901 | 18 | 8203 |
| 24 | 19 | 4 (5) | 9027 | 9103 | 2179 | 2255 | 2331 | 9407 | 9483 | 9559 | 2636 | 9712 | 9788 | 9864 | 9948 | 0017 | 0093 | 0169 | 0245 | 196 | 19 | 7216 |
| 25 | 20 | 4 (5) | 9314 | 9390 | 2466 | 9542 | 9618 | 9694 | 2770 | 9846 | 9922 | 9998 | 0074 | 0150 | 0226 | 0302 | 0378 | 0454 | 0531 | 191 | 20 | 6 7629 |
| 26 | 21 | | 9602 | 9678 | 2753 | 9829 | 9905 | 9981 | 0057 | 0133 | 0208 | 0284 | 0360 | 0436 | 0512 | 0588 | 0664 | 0740 | 0816 | 187 | 21 | 7342 |
| 27 | 22 | | 9889 | 9965 | 0041 | 0116 | 0192 | 0268 | 0343 | 0419 | 0495 | 0571 | 0646 | 0722 | 0798 | 0874 | 0950 | 1025 | 1101 | 182 | 22 | 7056 |
| 29 | 23 | 5 | 0177 | 0253 | 0328 | 0404 | 0479 | 0555 | 0630 | 0706 | 0781 | 0857 | 0932 | 1008 | 1084 | 1159 | 1235 | 1311 | 1386 | 177 | 23 | 6759 |
| 30 | 24 | | 0465 | 0540 | 0615 | 0691 | 0766 | 0841 | 0917 | 0992 | 1068 | 1143 | 1218 | 1294 | 1370 | 1445 | 1521 | 1596 | 1672 | 172 | 24 | 6482 |
| 31 | 25 | 5 | 0752 | 0827 | 0903 | 0978 | 1053 | 1128 | 1204 | 1279 | 1354 | 1430 | 1505 | 1580 | 1655 | 1731 | 1806 | 1882 | 1957 | 167 | 25 | 6 6195 |
| 32 | 26 | | 1040 | 1115 | 1190 | 1265 | 1340 | 1415 | 1490 | 1566 | 1641 | 1716 | 1791 | 1866 | 1941 | 2017 | 2092 | 2167 | 2242 | 163 | 26 | 5908 |
| 34 | 97 | | 1328 | 1402 | 1477 | 1552 | 1627 | 1702 | 1777 | 1852 | 1927 | 2002 | 2077 | 2152 | 2227 | 2302 | 2377 | 2453 | 2528 | 158 | 97 | 5621 |
| 35 | 28 | | 1615 | 1690 | 1765 | 1840 | 1914 | 1989 | 2064 | 2132 | 2214 | 2289 | 2363 | 2438 | 2513 | 2588 | 2663 | 2738 | 2813 | 153 | 28 | 5334 |
| 36 | 29 | | 1903 | 1978 | 2052 | 2127 | 2201 | 2276 | 2351 | 2426 | 2500 | 2575 | 2650 | 2724 | 2729 | 2874 | 2949 | 3023 | 3098 | 140 | 29 | 5048 |
| 37 | 30 | 5 | 2191 | 2265 | 2340 | 2414 | 2489 | 2563 | 2638 | 2712 | 2787 | 2861 | 2936 | 3011 | 3085 | 3160 | 3234 | 3309 | 3384 | 143 | 30 | 6 4761 |
| 38 | 31 | | 2478 | 2553 | 2627 | 2701 | 2776 | 2850 | 2924 | 2999 | 3073 | 3148 | 3222 | 3297 | 3371 | 3446 | 3520 | 3595 | 3662 | 139 | 31 | 4474 |
| 40 | 32 | | 2766 | 2840 | 2214 | 2989 | 3063 | 3137 | 3211 | 3286 | 3360 | 3434 | 3508 | 3583 | 3657 | 3731 | 3806 | 3880 | 3954 | 134 | 32 | 4187 |
| 41 | 33 | | 3054 | 3128 | 3202 | 3276 | 3350 | 3424 | 3428 | 3572 | 3646 | 3721 | 3795 | 3869 | 3943 | 4017 | 4091 | 4166 | 4240 | 129 | 33 | 3900 |
| 42 | 34 | | 3341 | 3115 | 3489 | 3563 | 3637 | 3711 | 3785 | 3859 | 3933 | 4007 | 4081 | 4155 | 4229 | 4303 | 4377 | 4451 | 4525 | 124 | 34 | 3613 |
| 43 | 35 | 5 | 3629 | 3703 | 3777 | 3850 | 3924 | 3928 | 4072 | 4146 | 4220 | 4293 | 4367 | 4441 | 4515 | 4589 | 4663 | 4737 | 4811 | 120 | 35 | 6 3326 |
| 45 | 36 | | 3217 | 3291 | 4064 | 4138 | 4211 | 4285 | 4352 | 4432 | 4506 | 4580 | 4654 | 4727 | 4801 | 4875 | 4949 | 5022 | 5096 | 115 | 36 | 3039 |
| 46 | 37 | | 4205 | 4278 | 4352 | 4425 | 4499 | 4572 | 4646 | 4719 | 4723 | 4866 | 4240 | 5013 | 5087 | 5161 | 5234 | 5308 | 5382 | 110 | 37 | 2752 |
| 47 | 38 | | 4492 | 4566 | 4639 | 4713 | 4786 | 4852 | 4933 | 5006 | 5079 | 5153 | 5226 | 5300 | 5373 | 5447 | 5520 | 5594 | 5667 | 105 | 38 | 2466 |
| 48 | 39 | | 4780 | 4853 | 4927 | 5000 | 5073 | 5146 | 5219 | 5293 | 5366 | 5439 | 5513 | 5586 | 5659 | 5732 | 5806 | 5879 | 5953 | 100 | 39 | 2178 |
| 50 | 40 | 5 | 5068 | 5141 | 5214 | 5287 | 5360 | 5433 | 5506 | 5580 | 5653 | 5726 | 5799 | 5872 | 5946 | 6018 | 6092 | 6165 | 6238 | 96 | 40 | 6 1891 |
| 51 | 41 | | 5356 | 5429 | 5502 | 5575 | 5647 | 5720 | 5723 | 5866 | 5939 | 6012 | 5085 | 6158 | 6231 | 6304 | 6377 | 6450 | 6524 | 91 | 41 | 1604 |
| 52 | 42 | | 5644 | 5716 | 5789 | 5862 | 5935 | 6008 | 5080 | 6153 | 6226 | 6299 | 6372 | 6445 | 6517 | 6590 | 6663 | 6736 | 6809 | 86 | 42 | 1317 |
| 53 | 43 | | 5932 | 6004 | 6077 | 6149 | 6222 | 6225 | 6367 | 6140 | 6513 | 6585 | 6658 | 6731 | 6804 | 6876 | 6949 | 7022 | 7095 | 81 | 43 | 1030 |
| 55 | 44 | | 6219 | 6292 | 6364 | 5437 | 6509 | 6582 | 6654 | 6727 | 6799 | 6872 | 6944 | 7017 | 7090 | 7162 | 7235 | 7307 | 7380 | 76 | 44 | 0743 |
| 56 | 45 | 5 | 6507 | 6580 | 6652 | 6724 | 6797 | 6869 | 6941 | 7014 | 7086 | 7158 | 7231 | 7303 | 7376 | 7448 | 7521 | 7593 | 7666 | 72 | 45 | 6 0455 |
| 57 | 46 | | 6795 | 6867 | 6940 | 7012 | 7084 | 7158 | 7228 | 7301 | 7373 | 7445 | 7517 | 7690 | 7662 | 7734 | 7807 | 7879 | 7951 | 67 | 46 | 0168 |
| 58 | 47 | | 7083 | 7155 | 7227 | 7299 | 7371 | 7443 | 7515 | 7587 | 7660 | 7732 | 7804 | 7876 | 7948 | 8020 | 8092 | 8165 | 8237 | 62 | 47 | 5 9881 |
| 60 | 48 | | 7371 | 7443 | 7515 | 7587 | 7659 | 7730 | 7802 | 7874 | 7946 | 8018 | 8020 | 8162 | 8234 | 8306 | 8378 | 8450 | 8522 | 57 | 48 | 9594 |
| 61 | 49 | | 7659 | 7731 | 7802 | 7874 | 7946 | 8018 | 8089 | 8161 | 8233 | 8305 | 8377 | 8449 | 8520 | 8592 | 8664 | 8736 | 8808 | 53 | 49 | 9307 |
| 62 | 50 | 5 | 7947 | 8018 | 8020 | 8162 | 8233 | 8305 | 8377 | 8448 | 8520 | 8591 | 8663 | 8735 | 8807 | 8878 | 8950 | 9022 | 9094 | 48 | 50 | 5 9020 |
| 63 | 51 | | 8235 | 8306 | 0378 | 8449 | 8521 | 8522 | 8664 | 8735 | 8807 | 8878 | 8950 | 9021 | 9023 | 9164 | 9236 | 9308 | 9379 | 43 | 51 | 8732 |
| 65 | 52 | | 8523 | 8594 | 8665 | 8737 | 8808 | 8879 | 8951 | 9022 | 9093 | 9165 | 9238 | 9308 | 9372 | 9450 | 9522 | 9593 | 9665 | 38 | 52 | 8445 |
| 66 | 53 | | 8811 | 8882 | 8953 | 9024 | 9095 | 9167 | 9238 | 9309 | 9380 | 9451 | 9523 | 2594 | 9665 | 9737 | 9808 | 9879 | 9950 | 33 | 53 | 8156 |
| 67 | 54 | 5 (6) | 9099 | 9170 | 9241 | 2312 | 9383 | 9454 | 9525 | 9596 | 9667 | 9738 | 9809 | 9880 | 9951 | 0023 | 0094 | 0165 | 0236 | 29 | 54 | 7871 |
| 68 | 55 | 5 (6) | 9387 | 9450 | 9528 | 9599 | 9670 | 9741 | 9812 | 9883 | 9954 | 0025 | 0096 | 0167 | 0238 | 0309 | 0380 | 0451 | 0522 | 24 | 55 | 5 7584 |
| 70 | 56 | | 9675 | 9745 | 9816 | 9887 | 9958 | 0028 | 0029 | 0170 | 0241 | 0312 | 0382 | 0453 | 0524 | 0595 | 0666 | 0737 | 0807 | 19 | 56 | 7295 |
| 71 | 67 | | 9963 | 0033 | 0104 | 0174 | 0245 | 0316 | 0386 | 0457 | 0528 | 0598 | 0669 | 0740 | 0810 | 0881 | 0252 | 1022 | 1023 | 14 | 57 | 7009 |
| 72 | 58 | 6 | 0251 | 0321 | 0392 | 0462 | 0532 | 0803 | 0673 | 0744 | 0814 | 0885 | 0955 | 1026 | 1097 | 1157 | 1238 | 1308 | 1372 | 10 | 58 | 8722 |
| 73 | 59 | | 0539 | 0502 | 0679 | 0750 | 0820 | 0890 | 0261 | 1031 | 1101 | 1172 | 1242 | 1312 | 1383 | 1453 | 1524 | 1594 | 1665 | 5 | 59 | 6434 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Num. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 81° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 81° | Ndm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 0 | 0′ | 4 4907 | 4986 | 5065 | 5144 | 5224 | 5303 | 5382 | 5461 | 5540 | 5619 | 5698 | 5778 | 5857 | 5936 | 6015 | 6094 | 6174 | 0 | 0′ | 4 3566 |
| 1 | 1 | 6192 | 5271 | 5350 | 5429 | 5508 | 5587 | 5666 | 5745 | 5824 | 5903 | 5982 | 6061 | 6140 | 6219 | 6298 | 6377 | 6456 | 6 | 1 | 3853 |
| 3 | 2 | 5477 | 5556 | 5634 | 5713 | 5792 | 5871 | 5950 | 6029 | 6107 | 6186 | 6265 | 6344 | 6423 | 6502 | 6581 | 6660 | 6739 | 10 | 2 | 4140 |
| 4 | 3 | 5762 | 5840 | 5919 | 5998 | 6076 | 6155 | 6234 | 6312 | 6391 | 6470 | 6549 | 6627 | 6706 | 6785 | 6864 | 6942 | 7021 | 14 | 3 | 4428 |
| 6 | 4 | 6047 | 6125 | 6204 | 6282 | 6361 | 6439 | 6518 | 6596 | 6675 | 6753 | 6832 | 6911 | 6989 | 7068 | 7146 | 7225 | 7304 | 19 | 4 | 4715 |
| 6 | 5 | 4 6332 | 6410 | 6486 | 6567 | 6645 | 6723 | 6802 | 6880 | 6959 | 7037 | 7115 | 7194 | 7272 | 7351 | 7429 | 7508 | 7586 | 24 | 5 | 4 6002 |
| 8 | 6 | 6617 | 6695 | 6773 | 6851 | 6929 | 7008 | 7086 | 7164 | 7242 | 7321 | 7399 | 7477 | 7556 | 7634 | 7712 | 7791 | 7869 | 29 | 6 | 5290 |
| 9 | 7 | 6902 | 6980 | 7058 | 7136 | 7214 | 7292 | 7370 | 7448 | 7526 | 7604 | 7682 | 7761 | 7839 | 7917 | 7995 | 8073 | 8152 | 34 | 7 | 6577 |
| 10 | 8 | 7186 | 7264 | 7342 | 7420 | 7498 | 7576 | 7654 | 7732 | 7810 | 7888 | 7966 | 8044 | 8122 | 8200 | 8278 | 8356 | 8434 | 38 | 8 | 6864 |
| 11 | 9 | 7471 | 7549 | 7627 | 7705 | 7782 | 7860 | 7938 | 8016 | 8094 | 8171 | 8249 | 8327 | 8405 | 8483 | 8561 | 8639 | 8717 | 43 | 9 | 6152 |
| 13 | 10 | 4 7756 | 7834 | 7912 | 7989 | 8067 | 8144 | 8222 | 8300 | 8377 | 8455 | 8533 | 8611 | 8688 | 8766 | 8844 | 8922 | 8999 | 48 | 10 | 4 6439 |
| 14 | 11 | 8041 | 8119 | 8196 | 8274 | 8351 | 8429 | 8506 | 8584 | 8661 | 8739 | 8816 | 8894 | 8972 | 9049 | 9127 | 9204 | 9282 | 53 | 11 | 6727 |
| 15 | 12 | 8326 | 8404 | 8481 | 8558 | 8636 | 8713 | 8790 | 8868 | 8945 | 9023 | 9100 | 9177 | 9255 | 9332 | 9410 | 9487 | 9565 | 57 | 12 | 7014 |
| 16 | 13 | 8611 | 8688 | 8766 | 8843 | 8920 | 8997 | 9075 | 9152 | 9229 | 9306 | 9384 | 9461 | 9538 | 9615 | 9693 | 9770 | 9847 | 62 | 13 | 7302 |
| 18 | 14 | 4 (5) 8896 | 8973 | 9050 | 9127 | 9204 | 9282 | 9359 | 9436 | 9513 | 9590 | 9667 | 9744 | 9821 | 9899 | 9976 | 0053 | 0130 | 67 | 14 | 7589 |
| 19 | 15 | 4 (5) 9181 | 9258 | 9335 | 9412 | 9489 | 9566 | 9643 | 9720 | 9797 | 9874 | 9951 | 0028 | 0105 | 0182 | 0259 | 0336 | 0413 | 72 | 15 | 4 7877 |
| 20 | 16 | 9466 | 9543 | 9620 | 9697 | 9773 | 9850 | 9927 | 0004 | 0081 | 0157 | 0234 | 0311 | 0388 | 0465 | 0542 | 0619 | 0695 | 77 | 16 | 8164 |
| 21 | 17 | 9752 | 9828 | 9905 | 9981 | 0058 | 0134 | 0211 | 0288 | 0364 | 0441 | 0518 | 0595 | 0671 | 0748 | 0825 | 0901 | 0978 | 81 | 17 | 8452 |
| 23 | 18 | 6 0037 | 0113 | 0189 | 0266 | 0342 | 0419 | 0495 | 0572 | 0648 | 0725 | 0801 | 0878 | 0955 | 1031 | 1108 | 1184 | 1261 | 86 | 18 | 8739 |
| 24 | 19 | 0322 | 0398 | 0474 | 0551 | 0627 | 0703 | 0780 | 0856 | 0932 | 1009 | 1085 | 1162 | 1238 | 1314 | 1391 | 1467 | 1544 | 91 | 19 | 9027 |
| 25 | 20 | 5 0607 | 0683 | 0759 | 0835 | 0911 | 0988 | 1064 | 1140 | 1216 | 1292 | 1369 | 1445 | 1521 | 1598 | 1674 | 1750 | 1827 | 96 | 20 | 4 9314 |
| 26 | 21 | 0892 | 0968 | 1044 | 1120 | 1196 | 1272 | 1348 | 1424 | 1500 | 1576 | 1652 | 1728 | 1805 | 1881 | 1957 | 2033 | 2109 | 101 | 21 | 9602 |
| 28 | 22 | 1177 | 1253 | 1329 | 1405 | 1480 | 1556 | 1632 | 1708 | 1781 | 1860 | 1936 | 2012 | 2088 | 2164 | 2240 | 2316 | 2392 | 105 | 22 | 9889 |
| 29 | 23 | 1462 | 1538 | 1614 | 1689 | 1765 | 1841 | 1917 | 1992 | 2068 | 2144 | 2220 | 2296 | 2371 | 2447 | 2523 | 2599 | 2675 | 110 | 23 | 5 0177 |
| 30 | 24 | 1747 | 1823 | 1898 | 1974 | 2050 | 2125 | 2201 | 2276 | 2352 | 2428 | 2503 | 2579 | 2655 | 2730 | 2806 | 2882 | 2958 | 115 | 24 | 0465 |
| 31 | 25 | 5 2032 | 2108 | 2183 | 2259 | 2334 | 2410 | 2485 | 2561 | 2636 | 2712 | 2787 | 2863 | 2938 | 3014 | 3089 | 3165 | 3240 | 120 | 25 | 5 0753 |
| 33 | 26 | 2318 | 2393 | 2468 | 2543 | 2619 | 2694 | 2769 | 2845 | 2920 | 2995 | 3071 | 3146 | 3222 | 3297 | 3372 | 3448 | 3523 | 125 | 26 | 1040 |
| 34 | 27 | 2603 | 2678 | 2753 | 2828 | 2903 | 2978 | 3054 | 3129 | 3204 | 3279 | 3355 | 3430 | 3505 | 3580 | 3656 | 3731 | 3806 | 129 | 27 | 1328 |
| 35 | 28 | 2888 | 2963 | 3038 | 3113 | 3188 | 3263 | 3338 | 3413 | 3488 | 3563 | 3638 | 3713 | 3789 | 3864 | 3939 | 4014 | 4089 | 134 | 28 | 1615 |
| 36 | 29 | 3173 | 3248 | 3323 | 3398 | 3473 | 3547 | 3622 | 3697 | 3772 | 3847 | 3922 | 3997 | 4072 | 4147 | 4222 | 4297 | 4372 | 139 | 29 | 1903 |
| 38 | 30 | 5 3458 | 3533 | 3608 | 3682 | 3757 | 3832 | 3907 | 3982 | 4056 | 4131 | 4206 | 4281 | 4355 | 4430 | 4505 | 4580 | 4655 | 144 | 30 | 5 2191 |
| 39 | 31 | 3744 | 3818 | 3893 | 3967 | 4042 | 4116 | 4191 | 4266 | 4340 | 4415 | 4490 | 4564 | 4639 | 4714 | 4788 | 4863 | 4938 | 149 | 31 | 2478 |
| 40 | 32 | 4029 | 4103 | 4178 | 4252 | 4326 | 4401 | 4475 | 4550 | 4624 | 4699 | 4773 | 4848 | 4922 | 4997 | 5072 | 5146 | 5221 | 153 | 32 | 2766 |
| 41 | 33 | 4314 | 4388 | 4463 | 4537 | 4611 | 4685 | 4760 | 4834 | 4908 | 4983 | 5057 | 5132 | 5206 | 5280 | 5355 | 5429 | 5504 | 158 | 33 | 3054 |
| 43 | 34 | 4599 | 4673 | 4748 | 4822 | 4896 | 4970 | 5044 | 5118 | 5193 | 5267 | 5341 | 5415 | 5489 | 5564 | 5638 | 5712 | 5787 | 163 | 34 | 3341 |
| 44 | 35 | 5 4885 | 4959 | 5033 | 5107 | 5181 | 5255 | 5329 | 5403 | 5477 | 5551 | 5625 | 5699 | 5773 | 5847 | 5921 | 5995 | 6069 | 168 | 35 | 5 3629 |
| 45 | 36 | 6170 | 5244 | 5318 | 5391 | 5465 | 5539 | 5613 | 5687 | 5761 | 5835 | 5909 | 5983 | 6057 | 6131 | 6204 | 6278 | 6352 | 172 | 36 | 3917 |
| 46 | 37 | 6455 | 5529 | 5603 | 5676 | 5750 | 5824 | 5897 | 5971 | 6045 | 6119 | 6193 | 6266 | 6340 | 6414 | 6488 | 6562 | 6635 | 177 | 37 | 4205 |
| 48 | 38 | 5741 | 5814 | 5888 | 5961 | 6035 | 6108 | 6182 | 6255 | 6329 | 6403 | 6476 | 6550 | 6624 | 6697 | 6771 | 6845 | 6918 | 182 | 38 | 4493 |
| 49 | 39 | 6026 | 6099 | 6173 | 6246 | 6320 | 6393 | 6466 | 6540 | 6613 | 6687 | 6760 | 6834 | 6907 | 6981 | 7054 | 7128 | 7201 | 187 | 39 | 4780 |
| 50 | 40 | 6 6311 | 6384 | 6458 | 6531 | 6604 | 6678 | 6751 | 6824 | 6897 | 6971 | 7044 | 7117 | 7191 | 7264 | 7338 | 7411 | 7484 | 192 | 40 | 5 5068 |
| 51 | 41 | 6597 | 6670 | 6743 | 6816 | 6889 | 6962 | 7035 | 7108 | 7182 | 7255 | 7328 | 7401 | 7474 | 7548 | 7621 | 7694 | 7768 | 196 | 41 | 5356 |
| 53 | 42 | 6882 | 6955 | 7028 | 7101 | 7174 | 7247 | 7320 | 7393 | 7466 | 7539 | 7612 | 7685 | 7768 | 7831 | 7904 | 7977 | 8051 | 201 | 42 | 5644 |
| 54 | 43 | 7167 | 7240 | 7313 | 7386 | 7459 | 7531 | 7604 | 7677 | 7750 | 7823 | 7896 | 7969 | 8042 | 8115 | 8188 | 8261 | 8334 | 206 | 43 | 5932 |
| 55 | 44 | 7452 | 7525 | 7598 | 7671 | 7743 | 7816 | 7889 | 7962 | 8034 | 8107 | 8180 | 8253 | 8325 | 8398 | 8471 | 8544 | 8617 | 211 | 44 | 6220 |
| 56 | 45 | 6 7738 | 7811 | 7883 | 7956 | 8028 | 8101 | 8173 | 8246 | 8319 | 8391 | 8464 | 8536 | 8609 | 8682 | 8754 | 8827 | 8900 | 216 | 45 | 5 6507 |
| 58 | 46 | 8023 | 8096 | 8168 | 8240 | 8313 | 8385 | 8458 | 8530 | 8603 | 8675 | 8748 | 8820 | 8893 | 8965 | 9038 | 9110 | 9183 | 220 | 46 | 6795 |
| 59 | 47 | 8309 | 8381 | 8453 | 8526 | 8598 | 8670 | 8742 | 8815 | 8887 | 8959 | 9032 | 9104 | 9176 | 9249 | 9321 | 9393 | 9466 | 225 | 47 | 7083 |
| 60 | 48 | 8594 | 8666 | 8739 | 8811 | 8883 | 8955 | 9027 | 9100 | 9171 | 9244 | 9316 | 9388 | 9460 | 9532 | 9604 | 9677 | 9749 | 230 | 48 | 7371 |
| 61 | 49 | 5 (6) 8880 | 8952 | 9024 | 9096 | 9168 | 9240 | 9312 | 9384 | 9456 | 9528 | 9600 | 9672 | 9744 | 9816 | 9888 | 9960 | 0032 | 235 | 49 | 7659 |
| 63 | 50 | 5 (6) 9165 | 9237 | 9309 | 9381 | 9453 | 9524 | 9596 | 9668 | 9740 | 9812 | 9884 | 9956 | 0027 | 0099 | 0171 | 0243 | 0315 | 240 | 50 | 5 7947 |
| 64 | 51 | 9451 | 9522 | 9594 | 9666 | 9737 | 9809 | 9881 | 9953 | 0024 | 0096 | 0168 | 0239 | 0311 | 0383 | 0455 | 0527 | 0598 | 244 | 51 | 8235 |
| 65 | 52 | 9736 | 9808 | 9879 | 9951 | 0022 | 0094 | 0165 | 0237 | 0309 | 0380 | 0452 | 0523 | 0595 | 0667 | 0738 | 0810 | 0882 | 249 | 52 | 8523 |
| 66 | 53 | 6 0022 | 0093 | 0164 | 0236 | 0307 | 0379 | 0450 | 0521 | 0593 | 0664 | 0736 | 0807 | 0879 | 0950 | 1022 | 1093 | 1165 | 254 | 53 | 8811 |
| 68 | 54 | 0307 | 0378 | 0450 | 0521 | 0592 | 0663 | 0735 | 0806 | 0877 | 0949 | 1020 | 1091 | 1162 | 1231 | 1305 | 1377 | 1448 | 259 | 54 | 9099 |
| 69 | 55 | 6 0593 | 0664 | 0735 | 0806 | 0877 | 0948 | 1019 | 1090 | 1162 | 1233 | 1304 | 1375 | 1446 | 1517 | 1589 | 1660 | 1731 | 264 | 55 | 6 9387 |
| 70 | 56 | 0878 | 0949 | 1020 | 1091 | 1162 | 1233 | 1304 | 1375 | 1446 | 1517 | 1588 | 1659 | 1730 | 1801 | 1872 | 1943 | 2014 | 268 | 56 | 9675 |
| 71 | 57 | 1164 | 1235 | 1305 | 1376 | 1447 | 1518 | 1589 | 1659 | 1730 | 1801 | 1872 | 1943 | 2814 | 2085 | 2156 | 2227 | 2297 | 273 | 57 | 9963 |
| 73 | 58 | 1449 | 1520 | 1591 | 1661 | 1732 | 1803 | 1873 | 1944 | 2015 | 2085 | 2156 | 2227 | 2298 | 2368 | 2439 | 2510 | 2581 | 278 | 58 | 6 0251 |
| 74 | 59 | 1735 | 1805 | 1876 | 1946 | 2017 | 2087 | 2158 | 2229 | 2299 | 2370 | 2440 | 2511 | 2581 | 2652 | 2723 | 2793 | 2864 | 283 | 59 | 0639 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. . | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 82° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 82° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 0827 | 0897 | 0967 | 1037 | 1107 | 1178 | 1248 | 1318 | 1388 | 1458 | 1529 | 1599 | 1669 | 1739 | 1810 | 1880 | 1950 | 287 | 0' | 5 6147 |
| 1 | 1 | 1115 | 1185 | 1255 | 1325 | 1395 | 1465 | 1535 | 1605 | 1675 | 1745 | 1815 | 1885 | 1255 | 2026 | 2096 | 2166 | 2236 | 283 | 1 | 5860 |
| 2 | 2 | 1403 | 1473 | 1543 | 1613 | 1682 | 1752 | 1822 | 1892 | 1962 | 2032 | 2102 | 2172 | 2242 | 2312 | 2382 | 2452 | 2522 | 278 | 2 | 5572 |
| 3 | 3 | 1691 | 1761 | 1831 | 1900 | 1970 | 2040 | 2109 | 2179 | 2249 | 2319 | 2389 | 2458 | 2528 | 2598 | 2668 | 2738 | 2808 | 273 | 3 | 5285 |
| 4 | 4 | 1979 | 2049 | 2118 | 2188 | 2257 | 2327 | 2397 | 2466 | 2536 | 2606 | 2675 | 2745 | 2814 | 2884 | 2954 | 3024 | 3093 | 268 | 4 | 4998 |
| 6 | 5 | 6 2267 | 2337 | 2406 | 2475 | 2545 | 2614 | 2684 | 2753 | 2823 | 2892 | 2962 | 3031 | 3101 | 3170 | 3240 | 3310 | 3379 | 264 | 5 | 5 4710 |
| 7 | 6 | 2555 | 2625 | 2694 | 2763 | 2832 | 2902 | 2971 | 3040 | 3110 | 3179 | 3248 | 3318 | 3387 | 3457 | 3526 | 3595 | 3665 | 259 | 6 | 4423 |
| 8 | 7 | 2843 | 2913 | 2982 | 3051 | 3120 | 3189 | 3258 | 3328 | 3397 | 3466 | 3535 | 3604 | 3674 | 3743 | 3812 | 3881 | 3951 | 254 | 7 | 4136 |
| 9 | 8 | 3132 | 3201 | 3270 | 3339 | 3408 | 3477 | 3546 | 3615 | 3684 | 3763 | 3822 | 3891 | 3260 | 1029 | 4098 | 4167 | 4236 | 249 | 8 | 3848 |
| 10 | 9 | 3420 | 3489 | 3567 | 3626 | 3695 | 3764 | 3833 | 3902 | 3971 | 4040 | 4109 | 4178 | 4216 | 4315 | 4384 | 4453 | 4522 | 244 | 9 | 3561 |
| 11 | 10 | 6 3708 | 3777 | 3845 | 3914 | 3983 | 4052 | 4120 | 4189 | 4258 | 1327 | 4395 | 1464 | 4533 | 4602 | 4670 | 4739 | 4808 | 246 | 10 | 5 3273 |
| 12 | 11 | 3996 | 4065 | 4133 | 4202 | 4270 | 4339 | 4408 | 4476 | 4515 | 4613 | 4682 | 1751 | 4819 | 4888 | 4957 | 6025 | 5094 | 235 | 11 | 2986 |
| 13 | 12 | 4284 | 4353 | 4421 | 4490 | 4558 | 4626 | 4695 | 4763 | 4832 | 1900 | 4969 | 5037 | 5106 | 5174 | 5243 | 5311 | 6380 | 230 | 12 | 2898 |
| 14 | 13 | 4573 | 4641 | 4709 | 4777 | 4846 | 4914 | 4982 | 5051 | 5119 | 5187 | 5255 | 5324 | 5392 | 5461 | 5529 | 5597 | 5666 | 225 | 13 | 2111 |
| 15 | 14 | 4861 | 4929 | 4997 | 5065 | 6133 | 5201 | 5270 | 5338 | 5406 | 5474 | 5512 | 5610 | 5679 | 5747 | 5815 | 5883 | 5952 | 220 | 14 | 2123 |
| 17 | 15 | 5 5149 | 5217 | 5285 | 5353 | 5421 | 5189 | 5557 | 5625 | 5693 | 5761 | 5829 | 5897 | 5965 | 6033 | 6101 | 6169 | 6238 | 216 | 15 | 5 1836 |
| 16 | 16 | 5437 | 5505 | 5573 | 5641 | 5709 | 5776 | 5844 | 5912 | 5980 | 6018 | 6116 | 6184 | 6252 | 6320 | 6387 | 6456 | 6623 | 211 | 16 | 1518 |
| 19 | 17 | 5725 | 5793 | 5861 | 5929 | 5996 | 6064 | 6132 | 6199 | 6267 | 6335 | 6103 | 6470 | 6538 | 6606 | 6674 | 6742 | 6809 | 206 | 17 | 1261 |
| 20 | 18 | 6014 | 6081 | 6149 | 6216 | 6284 | 6351 | 6119 | 6487 | 6551 | 6622 | 6689 | 6757 | 6825 | 6892 | 6960 | 7028 | 7095 | 201 | 18 | 0973 |
| 21 | 19 | 6309 | 6369 | 6437 | 6504 | 6572 | 6639 | 6706 | 6774 | 6841 | 6909 | 6976 | 7044 | 7111 | 7179 | 7246 | 7314 | 7381 | 196 | 19 | 0686 |
| 22 | 20 | 6 6590 | 6658 | 6725 | 6792 | 6859 | 6927 | 6994 | 7061 | 7128 | 7196 | 7263 | 7330 | 7398 | 7465 | 7532 | 7600 | 7667 | 192 | 20 | 5 0398 |
| 23 | 21 | 6879 | 6946 | 7013 | 7080 | 7147 | 7214 | 7281 | 7348 | 7416 | 7483 | 7550 | 7617 | 7681 | 7751 | 7819 | 7886 | 7253 | 187 | 21 | 0111 |
| 24 | 22 | 7167 | 7234 | 7301 | 7368 | 7435 | 7502 | 7562 | 7636 | 7703 | 7770 | 7837 | 7904 | 7971 | 8038 | 8105 | 8172 | 8239 | 182 | 22 | 4 2823 |
| 25 | 23 | 7455 | 7522 | 7589 | 7656 | 7722 | 7789 | 7856 | 7923 | 7990 | 8057 | 8124 | 8190 | 8257 | 8324 | 8391 | 8458 | 8525 | 177 | 23 | 2535 |
| 26 | 24 | 7744 | 7810 | 7877 | 7944 | 8010 | 8077 | 8144 | 8210 | 8277 | 8341 | 8410 | 8477 | 8544 | 8611 | 8678 | 8714 | 8811 | 172 | 24 | 9248 |
| 28 | 25 | 6 8032 | 8098 | 8165 | 8231 | 8298 | 8364 | 8431 | 8498 | 8564 | 8631 | 8697 | 8761 | 8831 | 8897 | 8964 | 9031 | 9097 | 168 | 25 | 4 8960 |
| 29 | 26 | 6320 | 8387 | 8453 | 8519 | 8586 | 8652 | 8719 | 8785 | 8851 | 8918 | 8981 | 9051 | 9117 | 9184 | 9250 | 9317 | 9383 | 163 | 26 | 8672 |
| 30 | 27 | 8609 | 8675 | 8741 | 8807 | 8874 | 8940 | 9006 | 9072 | 9139 | 9205 | 9271 | 9337 | 9404 | 9170 | 9537 | 9603 | 9669 | 158 | 27 | 8385 |
| 31 | 28 | 8897 | 8963 | 9029 | 9095 | 9161 | 9227 | 9293 | 9360 | 9426 | 9492 | 9558 | 9621 | 9690 | 9757 | 9823 | 9889 | 9955 | 153 | 28 | 8097 |
| 32 | 29 | 6 (7) 9185 | 9251 | 9317 | 9383 | 9449 | 9515 | 9581 | 9647 | 9713 | 9779 | 9845 | 9211 | 9277 | 0013 | 0109 | 0173 | 6241 | 149 | 99 | 7809 |
| 33 | 30 | 5 (7) 9474 | 9540 | 9605 | 9671 | 9737 | 9803 | 9869 | 9934 | 0000 | 0066 | 0132 | 0198 | 0264 | 0330 | 0396 | 0461 | 0527 | 144 | 30 | 4 7522 |
| 34 | 31 | 9762 | 9828 | 9893 | 9959 | 0025 | 0020 | 0156 | 0222 | 0288 | 0363 | 0419 | 0485 | 0550 | 0616 | 0682 | 0748 | 0813 | 139 | 31 | 7234 |
| 35 | 32 | 7 0051 | 0116 | 0182 | 0247 | 0313 | 0378 | 0444 | 0509 | 0576 | 0640 | 0706 | 0771 | 0837 | 0903 | 0968 | 1034 | 1100 | 134 | 32 | 6916 |
| 36 | 33 | 0339 | 0404 | 0470 | 0535 | 0600 | 0666 | 0731 | 0797 | 0862 | 0927 | 0921 | 1058 | 1124 | 1189 | 1255 | 1320 | 1386 | 129 | 33 | 6659 |
| 37 | 34 | 0697 | 0693 | 0758 | 0823 | 0888 | 0964 | 1019 | 1084 | 1149 | 1215 | 1280 | 1345 | 1410 | 1476 | 1541 | 1606 | 1672 | 125 | 34 | 6371 |
| 39 | 35 | 7 0916 | 0981 | 1046 | 1111 | 1175 | 1241 | 1308 | 1371 | 1437 | 1502 | 1567 | 1632 | 1697 | 1762 | 1828 | 1893 | 1958 | 120 | 35 | 4 6083 |
| 40 | 36 | 1204 | 1269 | 1334 | 1399 | 1464 | 1522 | 1594 | 1659 | 1724 | 1789 | 1854 | 1919 | 1984 | 2049 | 2114 | 2179 | 2244 | 115 | 36 | 5795 |
| 41 | 37 | 1493 | 1558 | 1622 | 1687 | 1752 | 1817 | 1881 | 1946 | 2011 | 2076 | 2141 | 2206 | 2271 | 2335 | 2400 | 2465 | 2530 | 110 | 37 | 6507 |
| 42 | 38 | 1781 | 1846 | 1911 | 1975 | 2040 | 2104 | 2169 | 2234 | 2228 | 2363 | 2428 | 2493 | 2557 | 2622 | 2687 | 2752 | 2816 | 105 | 38 | 5220 |
| 43 | 39 | 2070 | 2134 | 2192 | 2263 | 2326 | 2392 | 2457 | 2521 | 2586 | 2650 | 2715 | 2779 | 2814 | 2909 | 2973 | 3038 | 3103 | 101 | 39 | 4932 |
| 44 | 40 | 7 2358 | 2423 | 2487 | 2551 | 2615 | 2680 | 2744 | 2809 | 2873 | 2938 | 3002 | 3066 | 3131 | 3196 | 3260 | 3324 | 3389 | 96 | 40 | 4 4644 |
| 46 | 41 | 2617 | 2711 | 2770 | 2839 | 2204 | 2968 | 3032 | 3096 | 3161 | 3225 | 3289 | 3353 | 3418 | 3482 | 3546 | 3610 | 3675 | 91 | 41 | 4358 |
| 46 | 42 | 2935 | 2999 | 3063 | 3127 | 3191 | 3258 | 3320 | 3384 | 3448 | 3512 | 3576 | 3640 | 3704 | 3769 | 3833 | 3897 | 3961 | 86 | 42 | 4068 |
| 47 | 43 | 3224 | 3288 | 3352 | 3416 | 3472 | 3543 | 3607 | 3671 | 3735 | 3729 | 3663 | 3927 | 3921 | 4055 | 4119 | 4183 | 4247 | 81 | 43 | 3780 |
| 48 | 44 | 3512 | 3578 | 3640 | 3704 | 3767 | 3831 | 3895 | 3952 | 4023 | 4086 | 4150 | 4214 | 4278 | 1342 | 4406 | 4470 | 4533 | 77 | 44 | 3493 |
| 50 | 45 | 7 3801 | 3865 | 3928 | 3992 | 4056 | 4119 | 4183 | 4246 | 4310 | 4371 | 4437 | 4501 | 4565 | 4629 | 4692 | 4756 | 4890 | 72 | 45 | 4 3205 |
| 51 | 46 | 4090 | 4153 | 4216 | 4280 | 4343 | 4407 | 4470 | 4534 | 4597 | 4661 | 1724 | 4788 | 4862 | 4915 | 4279 | 5042 | 5106 | 67 | 46 | 2917 |
| 52 | 47 | 4378 | 4441 | 4505 | 4568 | 4631 | 4695 | 4758 | 4821 | 4883 | 4948 | 5012 | 5075 | 5138 | 5202 | 5265 | 6329 | 5392 | 62 | 47 | 2629 |
| 53 | 48 | 4667 | 4730 | 4793 | 4856 | 4912 | 4983 | 5046 | 5102 | 5172 | 5235 | 5299 | 5362 | 5425 | 5488 | 5552 | 6615 | 5678 | 57 | 48 | 2341 |
| 54 | 49 | 4955 | 5018 | 5081 | 5144 | 5207 | 5270 | 5334 | 5397 | 5460 | 5523 | 5586 | 5649 | 5712 | 5775 | 5838 | 5902 | 5965 | 53 | 49 | 2053 |
| 55 | 50 | 7 6244 | 5307 | 5370 | 6433 | 5495 | 5558 | 5621 | 5684 | 5747 | 5810 | 5873 | 5936 | 5999 | 6062 | 6125 | 6188 | 6251 | 46 | 50 | 4 1765 |
| 56 | 51 | 5533 | 5596 | 5658 | 5721 | 5784 | 5846 | 5209 | 5972 | 6035 | 6097 | 6160 | 6223 | 6286 | 6349 | 6412 | 6474 | 6537 | 43 | 51 | 1477 |
| 57 | 52 | 5821 | 5884 | 5946 | 6009 | 6072 | 6134 | 6197 | 6259 | 6322 | 6385 | 6447 | 6510 | 6573 | 6635 | 6698 | 6761 | 6824 | 38 | 52 | 1189 |
| 58 | 53 | 6110 | 6172 | 6235 | 6297 | 6360 | 6422 | 6185 | 6547 | 6609 | 6672 | 6735 | 6797 | 6860 | 5222 | 6985 | 7047 | 7110 | 34 | 53 | 0901 |
| 59 | 54 | 5398 | 6461 | 6523 | 6585 | 6648 | 6710 | 6772 | 6835 | 6897 | 6959 | 7022 | 7084 | 7147 | 7209 | 7271 | 7334 | 7396 | 29 | 54 | 0613 |
| 61 | 55 | 7 5687 | 6749 | 6811 | 6874 | 6936 | 6998 | 7060 | 7122 | 7185 | 7247 | 7309 | 7371 | 7433 | 7496 | 7558 | 7620 | 7683 | 24 | 55 | 4 0325 |
| 62 | 56 | 5976 | 7038 | 7100 | 7182 | 7224 | 7286 | 7348 | 7410 | 7472 | 7534 | 7596 | 7658 | 7720 | 7782 | 7845 | 7907 | 7969 | 19 | 56 | 0037 |
| 63 | 57 | 7264 | 7326 | 7388 | 7450 | 7512 | 7574 | 7636 | 7698 | 7760 | 7821 | 7883 | 7945 | 8007 | 8069 | 8131 | 8193 | 8255 | 14 | 57 | 3 9742 |
| 64 | 58 | 7553 | 7615 | 7677 | 7738 | 7800 | 7862 | 7924 | 7985 | 8047 | 8109 | 8171 | 8232 | 8294 | 8356 | 8418 | 8480 | 8542 | 10 | 58 | 9461 |
| 65 | 59 | 7842 | 7903 | 7965 | 8027 | 8088 | 8149 | 8211 | 8973 | 8335 | 8396 | 8458 | 8519 | 8581 | 6643 | 8705 | 8766 | 8828 | 5 | 52 | 9173 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III pora la distancia oparente. . . . . } y el Argumento Auxiliar. | Núm. IV pora hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 82° | | 17′ | 18′ | 19′ | 90′ | 91′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 82° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0′ | 6 | 9021 | 2091 | 2161 | 9239 | 2309 | 9379 | 2443 | 2513 | 2584 | 2654 | 2794 | 2795 | 2865 | 2930 | 3006 | 3077 | 3147 | 0 | 0′ | 6 0827 |
| 1 | 1 | | 2306 | 9376 | 2447 | 9517 | 2587 | 2657 | 2727 | 2798 | 2868 | 2938 | 3008 | 3079 | 3149 | 3219 | 3290 | 3360 | 3430 | 5 | 1 | 1115 |
| 2 | 2 | | 2592 | 2662 | 2732 | 2802 | 9872 | 9942 | 3012 | 3082 | 3152 | 3222 | 3293 | 3363 | 3433 | 3503 | 3573 | 3643 | 3714 | 10 | 2 | 1403 |
| 3 | 3 | | 9877 | 2248 | 3017 | 3087 | 3157 | 3227 | 3297 | 3367 | 3437 | 3507 | 3577 | 3647 | 3717 | 3787 | 3857 | 3997 | 3997 | 14 | 3 | 1691 |
| 4 | 4 | | 3103 | 3933 | 3309 | 3372 | 3442 | 3512 | 3582 | 3051 | 3721 | 3791 | 3061 | 3931 | 4001 | 4071 | 4140 | 4210 | 4280 | 19 | 4 | 1979 |
| 9 | 5 | 6 | 3449 | 3618 | 3588 | 3657 | 3727 | 3797 | 3866 | 3936 | 4006 | 4075 | 4145 | 4215 | 4283 | 4354 | 4424 | 4494 | 4564 | 94 | 5 | 6 2267 |
| 7 | 6 | | 3734 | 3804 | 3873 | 3943 | 4019 | 4082 | 4151 | 4221 | 4290 | 4360 | 4129 | 4499 | 4668 | 4638 | 4708 | 4777 | 4847 | 99 | 6 | 2555 |
| 8 | 7 | | 4020 | 4089 | 4159 | 4228 | 4297 | 4367 | 4436 | 4505 | 4575 | 4644 | 4714 | 4783 | 4852 | 4922 | 4991 | 5061 | 5130 | 34 | 7 | 2844 |
| 9 | 8 | | 4306 | 4376 | 4444 | 4513 | 4582 | 4652 | 4721 | 4790 | 4859 | 4928 | 4998 | 5067 | 5136 | 6206 | 5275 | 5344 | 5414 | 38 | 8 | 3132 |
| 10 | 9 | | 4591 | 4690 | 4729 | 4798 | 4867 | 4937 | 5006 | 5075 | 5144 | 5213 | 5282 | 5351 | 5420 | 5489 | 5559 | 5628 | 5697 | 43 | 9 | 3420 |
| 11 | 10 | 6 | 4877 | 4946 | 5015 | 5084 | 5153 | 5222 | 5290 | 5359 | 5128 | 5497 | 5566 | 5635 | 5704 | 5773 | 5842 | 5911 | 5980 | 48 | 10 | 6 3708 |
| 19 | 11 | | 0163 | 6231 | 5300 | 5369 | 5436 | 5507 | 5575 | 5644 | 5713 | 5782 | 5850 | 5919 | 5988 | 6057 | 6126 | 6195 | 6264 | 53 | 11 | 3996 |
| 13 | 19 | | 6448 | 5517 | 5586 | 5654 | 5723 | 5792 | 5860 | 5929 | 5997 | 6066 | 6135 | 6203 | 6272 | 6341 | 6110 | 6478 | 6547 | 58 | 12 | 4284 |
| 14 | 13 | | 9734 | 5803 | 5871 | 5940 | 6008 | 6077 | 6145 | 6213 | 6282 | 6351 | 6419 | 6488 | 6556 | 6625 | 6693 | 6762 | 6830 | 62 | 13 | 4573 |
| 15 | 14 | | 9020 | 6088 | 6157 | 6225 | 6293 | 6362 | 6130 | 6198 | 6567 | 6635 | 6703 | 6772 | 6810 | 6909 | 6977 | 7045 | 7114 | 67 | 14 | 4861 |
| 17 | 10 | 6 | 6306 | 6374 | 6449 | 6510 | 6578 | 6647 | 6715 | 6783 | 6851 | 6919 | 6988 | 7056 | 7124 | 7192 | 7261 | 7329 | 7397 | 72 | 15 | 0 5149 |
| 18 | 19 | | 9591 | 6669 | 6797 | 6795 | 6861 | 6932 | 7000 | 7068 | 7136 | 7204 | 7272 | 7340 | 7408 | 7476 | 7544 | 7613 | 7681 | 77 | 16 | 5437 |
| 19 | 17 | | 6877 | 6945 | 7013 | 7081 | 7149 | 7217 | 7284 | 7352 | 7420 | 7488 | 7556 | 7624 | 7692 | 7760 | 7828 | 7896 | 7961 | 82 | 17 | 5726 |
| 20 | 18 | | 7193 | 7231 | 7298 | 7366 | 7434 | 7502 | 7569 | 7637 | 7705 | 7773 | 7841 | 7908 | 7976 | 8044 | 8112 | 8180 | 8248 | 87 | 18 | 6014 |
| 21 | 19 | | 7442 | 7516 | 7584 | 7952 | 7719 | 7787 | 7854 | 7922 | 7990 | 8057 | 8125 | 8193 | 8260 | 8328 | 8396 | 8463 | 8531 | 91 | 19 | 6302 |
| 22 | 20 | 6 | 7735 | 7802 | 7869 | 7937 | 8004 | 8072 | 8139 | 8207 | 8274 | 8342 | 0409 | 8477 | 8514 | 8612 | 8679 | 8747 | 8815 | 96 | 20 | 6 6590 |
| 23 | 21 | | 8090 | 8088 | 8155 | 8222 | 8290 | 8357 | 8424 | 8492 | 8559 | 8626 | 8694 | 8761 | 8828 | 8896 | 8963 | 9031 | 9098 | 101 | 21 | 6879 |
| 24 | 22 | | 8306 | 8373 | 8441 | 8508 | 8575 | 8642 | 8709 | 8776 | 8844 | 8911 | 8978 | 9045 | 9112 | 9180 | 9247 | 9314 | 9382 | 106 | 22 | 7167 |
| 25 | 23 | | 8399 | 8659 | 8726 | 8793 | 8860 | 8927 | 8994 | 9061 | 9128 | 9195 | 9262 | 9329 | 9397 | 9464 | 9531 | 9598 | 9665 | 111 | 23 | 7455 |
| 26 | 94 | | 8870 | 8945 | 9012 | 9078 | 9145 | 9212 | 9279 | 9346 | 9413 | 9480 | 9547 | 9614 | 9681 | 9748 | 9815 | 9882 | 9949 | 115 | 24 | 7744 |
| 28 | 99 | 6 (7) | 9164 | 9230 | 9297 | 9364 | 9431 | 9497 | 2564 | 9631 | 9698 | 9764 | 9831 | 9898 | 9965 | 0032 | 0098 | 0165 | 0232 | 120 | 25 | 6 8032 |
| 29 | 26 | | 9450 | 9510 | 9583 | 9649 | 9716 | 9782 | 9849 | 9916 | 9982 | 0049 | 0116 | 0182 | 0249 | 0316 | 0382 | 0449 | 0516 | 125 | 26 | 8320 |
| 30 | 27 | | 9736 | 9802 | 9868 | 9935 | 0001 | 0068 | 0134 | 0201 | 0267 | 0334 | 0400 | 0467 | 0533 | 0600 | 0666 | 0733 | 0799 | 130 | 27 | 8609 |
| 31 | 28 | 7 | 0021 | 0088 | 0154 | 0220 | 0287 | 0353 | 0419 | 0485 | 0552 | 0618 | 0685 | 0751 | 0817 | 0884 | 0950 | 1016 | 1083 | 135 | 28 | 8897 |
| 32 | 22 | | 0307 | 0373 | 0440 | 0506 | 0572 | 0638 | 0704 | 0770 | 0836 | 0903 | 0969 | 1035 | 1101 | 1168 | 1234 | 1300 | 1366 | 139 | 29 | 9185 |
| 33 | 30 | 7 | 0593 | 0659 | 0725 | 0791 | 0857 | 0923 | 0989 | 1055 | 1121 | 1187 | 1253 | 1319 | 1386 | 1452 | 1518 | 1584 | 1650 | 144 | 30 | 6 9474 |
| 34 | 31 | | 0879 | 0945 | 1011 | 1077 | 1143 | 1208 | 1274 | 1340 | 1406 | 1479 | 1538 | 1604 | 1670 | 1736 | 1802 | 1868 | 1934 | 149 | 31 | 9762 |
| 35 | 32 | | 1165 | 1931 | 1297 | 1362 | 1428 | 1494 | 1559 | 1625 | 1691 | 1757 | 1822 | 1888 | 1954 | 2020 | 9086 | 2151 | 9217 | 154 | 32 | 7 0051 |
| 36 | 33 | | 1451 | 1617 | 1582 | 1648 | 1713 | 1779 | 1844 | 1910 | 1976 | 2041 | 2107 | 2172 | 2238 | 2304 | 2369 | 2435 | 2501 | 169 | 33 | 0339 |
| 37 | 34 | | 1737 | 1803 | 1868 | 1233 | 1999 | 2064 | 9129 | 2195 | 2260 | 2326 | 2391 | 2467 | 2522 | 2588 | 2653 | 2712 | 9784 | 163 | 34 | 0627 |
| 39 | 35 | 7 | 2023 | 2088 | 2154 | 2219 | 9284 | 2349 | 2415 | 2480 | 2545 | 2610 | 2676 | 2741 | 2807 | 2879 | 2937 | 3003 | 3068 | 168 | 35 | 7 0916 |
| 40 | 36 | | 2302 | 2374 | 2439 | 2504 | 2569 | 2635 | 2700 | 2765 | 2830 | 2895 | 2960 | 3026 | 3091 | 3156 | 3221 | 3286 | 3352 | 173 | 36 | 1204 |
| 41 | 37 | | 2595 | 2660 | 2725 | 2790 | 2855 | 2920 | 2985 | 3050 | 3115 | 3180 | 3245 | 3310 | 3375 | 3440 | 3505 | 3570 | 3635 | 178 | 37 | 1493 |
| 49 | 38 | | 2881 | 2946 | 3011 | 3076 | 3140 | 3205 | 3270 | 3335 | 3400 | 3465 | 3529 | 3594 | 3659 | 3724 | 3789 | 3851 | 3919 | 183 | 38 | 1781 |
| 43 | 39 | | 3167 | 3239 | 3296 | 3361 | 3426 | 3420 | 3555 | 3620 | 3685 | 3749 | 3814 | 3879 | 3944 | 4008 | 4073 | 4138 | 4203 | 188 | 39 | 2070 |
| 44 | 40 | 7 | 3453 | 3518 | 3582 | 3647 | 3711 | 3776 | 3840 | 3905 | 3969 | 4034 | 4099 | 4163 | 4228 | 4292 | 4357 | 4422 | 4486 | 192 | 40 | 7 2358 |
| 45 | 41 | | 3739 | 3804 | 3868 | 3932 | 3997 | 4061 | 4125 | 4190 | 4254 | 4319 | 4383 | 4448 | 4612 | 4577 | 4641 | 4706 | 4770 | 197 | 41 | 9947 |
| 40 | 49 | | 4025 | 4089 | 4154 | 4218 | 4282 | 4346 | 4411 | 4475 | 4539 | 4603 | 4668 | 4732 | 4796 | 4861 | 4925 | 4989 | 5054 | 209 | 42 | 2933 |
| 47 | 43 | | 4311 | 4375 | 4432 | 4504 | 4568 | 4632 | 4626 | 4760 | 4824 | 4888 | 4952 | 5017 | 5081 | 5145 | 5209 | 5273 | 5338 | 207 | 43 | 3224 |
| 48 | 44 | | 4597 | 4661 | 4725 | 4789 | 4853 | 4917 | 4981 | 5045 | 5109 | 5173 | 5937 | 6301 | 5365 | 5429 | 5493 | 5557 | 5621 | 212 | 44 | 3512 |
| 60 | 45 | 7 | 4883 | 4947 | 5011 | 5076 | 5139 | 5202 | 5266 | 5330 | 5394 | 5468 | 6622 | 5585 | 5649 | 5713 | 5777 | 5841 | 5905 | 916 | 45 | 7 3801 |
| 61 | 46 | | 5170 | 5233 | 5297 | 5360 | 5424 | 5488 | 5551 | 6615 | 5679 | 5743 | 6806 | 5870 | 5934 | 5997 | 6061 | 6125 | 0189 | 921 | 49 | 4090 |
| 62 | 47 | | 5456 | 5512 | 5583 | 5646 | 5710 | 5773 | 6837 | 5900 | 5264 | 6027 | 6021 | 6134 | 6218 | 6282 | 6345 | 6409 | 6473 | 226 | 47 | 4378 |
| 93 | 49 | | 9749 | 5805 | 6868 | 5232 | 5996 | 6058 | 6122 | 6185 | 6249 | 6312 | 6376 | 6439 | 6502 | 6566 | 6629 | 6693 | 6756 | 231 | 49 | 4667 |
| 94 | 49 | | 6098 | 6091 | 6164 | 6217 | 6281 | 6344 | 0407 | 6470 | 6534 | 6597 | 6660 | 6724 | 6707 | 6850 | 6913 | 6977 | 7040 | 236 | 49 | 4955 |
| 55 | 50 | 7 | 6314 | 6377 | 6440 | 6503 | 6566 | 6629 | 6692 | 0755 | 6819 | 6882 | 6945 | 7008 | 7071 | 7134 | 7198 | 7961 | 7321 | 240 | 50 | 7 5244 |
| 66 | 91 | | 6600 | 6663 | 6726 | 6789 | 6862 | 0915 | 6978 | 7041 | 7104 | 7167 | 7230 | 7293 | 7356 | 7419 | 7482 | 7645 | 7608 | 245 | 61 | 6533 |
| 67 | 92 | | 9886 | 6242 | 7012 | 7076 | 7137 | 7200 | 7263 | 7326 | 7389 | 7451 | 7514 | 7577 | 7640 | 7703 | 7766 | 7829 | 7892 | 250 | 92 | 5891 |
| 58 | 93 | | 7172 | 7235 | 7298 | 7360 | 7493 | 7486 | 7548 | 7611 | 7074 | 7736 | 7792 | 7869 | 7924 | 7987 | 8050 | 8113 | 8175 | 955 | 93 | 6110 |
| 59 | 54 | | 7462 | 7621 | 7584 | 7646 | 7702 | 7771 | 7834 | 7896 | 7959 | 8021 | 8084 | 8146 | 8209 | 8971 | 0334 | 8397 | 0459 | 260 | 54 | 6399 |
| 91 | 65 | 7 | 7745 | 7807 | 7869 | 7232 | 7994 | 8057 | 8119 | 0181 | 8244 | 8306 | 8368 | 8431 | 8493 | 8556 | 8618 | 8681 | 8743 | 264 | 55 | 7 6687 |
| 62 | 66 | | 8031 | 8093 | 8155 | 8910 | 8280 | 8342 | 8404 | 0466 | 8529 | 8521 | 8653 | 8715 | 8776 | 8840 | 8902 | 8965 | 9027 | 269 | 56 | 6276 |
| 63 | 57 | | 9317 | 8379 | 8441 | 8503 | 8563 | 8627 | 8690 | 8752 | 8814 | 8876 | 8938 | 9000 | 9009 | 9194 | 9186 | 9249 | 9311 | 974 | 57 | 7265 |
| 64 | 58 | | 9903 | 8665 | 8797 | 8789 | 8851 | 8913 | 8975 | 9037 | 9099 | 9161 | 9223 | 9285 | 9347 | 9402 | 9471 | 9533 | 9595 | 979 | 58 | 7853 |
| 65 | 59 | | 8820 | 8951 | 9012 | 9075 | 9137 | 9198 | 9260 | 9329 | 9384 | 9446 | 9507 | 9562 | 9631 | 9993 | 2755 | 9817 | 9679 | 281 | 59 | 7042 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 83° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 83° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 7 | 8131 | 8192 | 8253 | 8315 | 8376 | 8438 | 8499 | 8561 | 8622 | 8684 | 8745 | 8807 | 8868 | 8939 | 8991 | 9053 | 9114 | 288 | 0' | 3 8885 |
| 1 | 1 | | 8419 | 8481 | 8542 | 8603 | 8664 | 8726 | 8787 | 8848 | 8910 | 8971 | 9932 | 9094 | 9155 | 9216 | 9278 | 9339 | 9401 | 284 | 1 | 8597 |
| 2 | 2 | | 8798 | 8769 | 8839 | 8891 | 8953 | 9914 | 9075 | 9136 | 9197 | 9258 | 9329 | 9381 | 9442 | 9503 | 9565 | 9626 | 9687 | 279 | 2 | 8392 |
| 3 | 3 | | 8997 | 9058 | 9119 | 9180 | 9241 | 9392 | 9363 | 9494 | 9485 | 9546 | 9607 | 9668 | 9729 | 2790 | 9851 | 9912 | 9974 | 274 | 3 | 8021 |
| 4 | 4 | 7 (8) | 9286 | 9346 | 9497 | 9468 | 9529 | 9590 | 9651 | 9712 | 9772 | 9833 | 9894 | 9955 | 0016 | 0977 | 9138 | 9192 | 0260 | 269 | 4 | 7733 |
| 5 | 5 | 7 (8) | 9574 | 9635 | 9696 | 9756 | 9817 | 9878 | 9939 | 9999 | 9069 | 0121 | 0182 | 0242 | 9303 | 0364 | 0425 | 0186 | 0546 | 264 | 5 | 3 7445 |
| 6 | 6 | | 9863 | 9924 | 9984 | 9045 | 9105 | 0166 | 0226 | 9287 | 0348 | 9408 | 9169 | 0530 | 0599 | 0651 | 0712 | 9772 | 0833 | 269 | 6 | 7156 |
| 7 | 7 | 8 | 0152 | 0212 | 0273 | 0333 | 0394 | 0454 | 0514 | 0575 | 9635 | 9696 | 9756 | 9817 | 0877 | 9938 | 0998 | 1059 | 1119 | 255 | 7 | 6868 |
| 8 | 8 | | 0441 | 0501 | 0561 | 0621 | 0682 | 0742 | 0802 | 9863 | 9923 | 9983 | 1044 | 1104 | 1164 | 1225 | 1285 | 1345 | 1406 | 250 | 8 | 6580 |
| 9 | 9 | | 0729 | 9790 | 0850 | 0919 | 0970 | 1930 | 1090 | 1150 | 1211 | 1271 | 1331 | 1391 | 1451 | 1519 | 1572 | 1632 | 1692 | 245 | 9 | 6292 |
| 10 | 10 | 8 | 1018 | 1078 | 1138 | 1198 | 1258 | 1318 | 1378 | 1438 | 1498 | 1558 | 1618 | 1678 | 1738 | 1798 | 1859 | 1919 | 1979 | 240 | 19 | 3 6004 |
| 11 | 11 | | 1307 | 1367 | 1427 | 1487 | 1546 | 1696 | 1666 | 1726 | 1786 | 1846 | 1906 | 1966 | 2925 | 2085 | 2145 | 2205 | 2265 | 236 | 11 | 5716 |
| 11 | 12 | | 1596 | 1656 | 1715 | 1775 | 1835 | 1891 | 1951 | 2014 | 2974 | 2133 | 2193 | 2253 | 2313 | 2372 | 2432 | 2492 | 2552 | 231 | 12 | 5427 |
| 12 | 13 | | 1885 | 1944 | 2004 | 2963 | 2123 | 2182 | 2242 | 2392 | 2361 | 2421 | 2189 | 2549 | 2600 | 2659 | 2719 | 2779 | 2838 | 226 | 13 | 5139 |
| 13 | 14 | | 2174 | 2233 | 2292 | 2352 | 2111 | 2171 | 2530 | 2590 | 2649 | 2798 | 2768 | 2827 | 2887 | 2946 | 3906 | 3065 | 3125 | 221 | 14 | 4851 |
| 14 | 15 | 8 | 2463 | 2522 | 2581 | 2640 | 2799 | 2759 | 2818 | 2877 | 2937 | 2996 | 3055 | 3115 | 3174 | 3233 | 3293 | 3352 | 3411 | 216 | 15 | 3 4563 |
| 15 | 16 | | 2751 | 2811 | 2879 | 2929 | 2988 | 3947 | 3106 | 3165 | 3224 | 3284 | 3343 | 3402 | 3461 | 3520 | 3579 | 3639 | 3698 | 212 | 16 | 4274 |
| 16 | 17 | | 3040 | 3099 | 3158 | 3217 | 3276 | 3335 | 3394 | 3453 | 3512 | 3571 | 3630 | 3689 | 3748 | 3897 | 3866 | 3925 | 3984 | 297 | 17 | 3986 |
| 17 | 18 | | 3329 | 3388 | 3447 | 3596 | 3564 | 3623 | 3682 | 3741 | 3800 | 3859 | 3918 | 3976 | 4035 | 4091 | 4153 | 4212 | 4271 | 202 | 18 | 3698 |
| 18 | 19 | | 3618 | 3677 | 3735 | 3794 | 3853 | 3911 | 3970 | 4929 | 4088 | 4146 | 4205 | 4261 | 4323 | 4381 | 4440 | 4499 | 4558 | 197 | 19 | 3412 |
| 19 | 20 | 8 | 3907 | 3966 | 4024 | 4083 | 4141 | 4200 | 4258 | 4317 | 4375 | 4434 | 4492 | 4551 | 4610 | 4668 | 4727 | 4785 | 4844 | 192 | 29 | 3 3121 |
| 29 | 21 | | 4196 | 4254 | 4312 | 4371 | 4429 | 4488 | 4546 | 4605 | 4663 | 4722 | 1780 | 4838 | 4897 | 4955 | 5014 | 5072 | 5131 | 188 | 21 | 2833 |
| 21 | 29 | | 4485 | 4543 | 4601 | 4669 | 4718 | 1776 | 4034 | 4893 | 4951 | 5099 | 5067 | 5126 | 5184 | 5242 | 5301 | 5359 | 5417 | 183 | 22 | 2545 |
| 92 | 93 | | 4774 | 4832 | 4890 | 4948 | 5206 | 5064 | 5122 | 5181 | 5239 | 5297 | 5355 | 5413 | 5471 | 5529 | 5588 | 5646 | 5704 | 178 | 23 | 2256 |
| 23 | 24 | | 5063 | 5121 | 5179 | 5237 | 5295 | 5352 | 5410 | 5468 | 5526 | 5584 | 5642 | 5700 | 5758 | 5816 | 5874 | 5932 | 5991 | 173 | 24 | 1968 |
| 24 | 25 | 8 | 5352 | 5410 | 5467 | 5525 | 5583 | 5641 | 5699 | 5756 | 5814 | 5872 | 5930 | 5988 | 6046 | 6194 | 6161 | 6219 | 6277 | 168 | 25 | 3 1682 |
| 25 | 96 | | 5641 | 5690 | 5756 | 5814 | 5871 | 5929 | 5987 | 6044 | 6102 | 6160 | 6217 | 6275 | 6333 | 6391 | 6448 | 6506 | 6564 | 163 | 26 | 1391 |
| 26 | 27 | | 5930 | 5987 | 6015 | 6192 | 6169 | 6217 | 6275 | 6332 | 6390 | 6447 | 6505 | 6563 | 6629 | 6678 | 6735 | 6793 | 6851 | 159 | 27 | 1103 |
| 27 | 98 | | 6219 | 6276 | 6333 | 6391 | 6448 | 6595 | 6563 | 6620 | 6678 | 6735 | 6792 | 6859 | 6998 | 6965 | 7022 | 7080 | 7137 | 154 | 28 | 0815 |
| 28 | 29 | | 6508 | 6565 | 6622 | 6679 | 6736 | 6724 | 6851 | 6998 | 6965 | 7923 | 7980 | 7137 | 7195 | 7252 | 7399 | 7367 | 7424 | 149 | 29 | 9526 |
| 29 | 30 | 8 | 6727 | 6834 | 6911 | 6968 | 7025 | 7982 | 7139 | 7196 | 7253 | 7310 | 7368 | 7425 | 7482 | 7539 | 7596 | 7653 | 7711 | 144 | 30 | 3 0238 |
| 30 | 31 | | 7086 | 7143 | 7299 | 7956 | 7313 | 7379 | 7427 | 7484 | 7541 | 7598 | 7655 | 7712 | 7769 | 7826 | 7883 | 7940 | 7997 | 139 | 31 | 2 9942 |
| 31 | 39 | | 7375 | 7432 | 7488 | 7545 | 7602 | 7659 | 7715 | 7772 | 7829 | 7886 | 7943 | 8900 | 8056 | 8113 | 8179 | 8227 | 8284 | 135 | 32 | 9661 |
| 32 | 33 | | 7661 | 7720 | 7777 | 7834 | 7890 | 7947 | 8001 | 8960 | 8117 | 8174 | 8239 | 8287 | 8344 | 8409 | 8457 | 8514 | 8571 | 139 | 33 | 9373 |
| 33 | 34 | | 7953 | 8902 | 8066 | 8192 | 8179 | 8235 | 8292 | 8348 | 8405 | 8461 | 8518 | 8574 | 8631 | 8688 | 8744 | 8801 | 8857 | 125 | 31 | 9984 |
| 34 | 35 | 8 | 8242 | 8298 | 8355 | 8411 | 8467 | 8524 | 8589 | 8636 | 8693 | 0749 | 8805 | 8862 | 8918 | 8975 | 9931 | 9088 | 2144 | 120 | 35 | 2 8796 |
| 34 | 36 | | 8531 | 8587 | 8643 | 8699 | 8756 | 8812 | 8868 | 8924 | 8981 | 9937 | 9093 | 9149 | 9296 | 9262 | 9318 | 9374 | 9431 | 115 | 36 | 8597 |
| 35 | 37 | | 8820 | 8876 | 8932 | 8988 | 9041 | 9100 | 9156 | 9212 | 9269 | 9325 | 9381 | 9437 | 9493 | 9549 | 9605 | 2661 | 9718 | 111 | 37 | 8219 |
| 36 | 38 | 8 (9) | 9109 | 9165 | 9221 | 9277 | 9333 | 9389 | 9445 | 9501 | 9556 | 9612 | 9668 | 9724 | 9780 | 9836 | 9892 | 9948 | 0994 | 196 | 38 | 7930 |
| 37 | 32 | | 9398 | 9154 | 9510 | 9566 | 9621 | 9677 | 9733 | 9789 | 9844 | 9990 | 9956 | 0012 | 0068 | 0124 | 9179 | 0235 | 0291 | 101 | 39 | 7642 |
| 38 | 40 | 8 (9) | 9687 | 9743 | 9799 | 9854 | 9910 | 9965 | 0021 | 0977 | 0132 | 0188 | 0214 | 0299 | 0355 | 9411 | 0466 | 0522 | 0578 | 96 | 40 | 2 7353 |
| 39 | 41 | | 9976 | 0032 | 0087 | 0143 | 0198 | 0254 | 0309 | 0365 | 9429 | 9476 | 9531 | 0587 | 0642 | 8698 | 9753 | 0808 | 0865 | 91 | 41 | 7065 |
| 49 | 42 | 9 | 0266 | 0321 | 9376 | 0432 | 0487 | 0549 | 9598 | 0653 | 0708 | 9764 | 0819 | 0874 | 0939 | 9985 | 1041 | 1996 | 1151 | 87 | 49 | 6776 |
| 41 | 43 | | 0555 | 0619 | 0665 | 9720 | 0775 | 0831 | 0886 | 0941 | 0996 | 1951 | 1197 | 1162 | 1217 | 1272 | 1328 | 1383 | 1438 | 82 | 43 | 6488 |
| 42 | 44 | | 0844 | 0899 | 9954 | 1009 | 1964 | 1119 | 1174 | 1229 | 1984 | 1339 | 1394 | 1449 | 1505 | 1560 | 1615 | 1670 | 1725 | 77 | 44 | 6199 |
| 43 | 45 | 9 | 1133 | 1188 | 1243 | 1298 | 1353 | 1407 | 1463 | 1517 | 1572 | 1627 | 1682 | 1737 | 1792 | 1847 | 1902 | 1957 | 2912 | 72 | 45 | 2 5919 |
| 44 | 46 | | 1422 | 1477 | 1532 | 1586 | 1641 | 1696 | 1751 | 1805 | 1860 | 1915 | 1970 | 2025 | 2079 | 2134 | 2189 | 2244 | 2299 | 67 | 46 | 5622 |
| 45 | 47 | | 1711 | 1766 | 1821 | 1875 | 1930 | 1984 | 2039 | 2994 | 2148 | 2203 | 2257 | 2312 | 2367 | 2491 | 2476 | 2531 | 2586 | 62 | 47 | 5333 |
| 46 | 48 | | 2001 | 2055 | 2199 | 2164 | 2218 | 2273 | 2327 | 2382 | 2436 | 2491 | 2545 | 2699 | 2654 | 2702 | 2763 | 2818 | 2872 | 58 | 40 | 5045 |
| 47 | 49 | | 9299 | 2344 | 2398 | 2453 | 2597 | 2561 | 2616 | 2670 | 2724 | 2779 | 9833 | 2887 | 2942 | 2926 | 3050 | 3105 | 3159 | 53 | 49 | 4756 |
| 48 | 59 | 9 | 2579 | 2633 | 2687 | 2741 | 2796 | 2859 | 9901 | 2958 | 3912 | 3966 | 3121 | 3175 | 3229 | 3283 | 3338 | 3392 | 3446 | 48 | 50 | 2 4467 |
| 49 | 51 | | 2868 | 2992 | 2976 | 3930 | 3984 | 3138 | 3192 | 3246 | 3390 | 3351 | 3408 | 3462 | 3517 | 3571 | 3625 | 3679 | 3733 | 43 | 61 | 4179 |
| 69 | 52 | | 3157 | 3211 | 3265 | 3319 | 3373 | 3427 | 3481 | 3534 | 3588 | 3642 | 3696 | 3759 | 3804 | 3658 | 3919 | 3966 | 4920 | 38 | 52 | 3899 |
| 61 | 53 | | 3447 | 3590 | 3554 | 3608 | 3661 | 3715 | 3769 | 3823 | 3876 | 3939 | 3984 | 4938 | 4991 | 4145 | 4199 | 4253 | 4307 | 34 | 53 | 3691 |
| 62 | 54 | | 3736 | 3789 | 3843 | 3896 | 3950 | 4091 | 4957 | 4111 | 4164 | 4918 | 4272 | 4325 | 4379 | 4433 | 4486 | 4540 | 4594 | 29 | 54 | 3313 |
| 53 | 55 | 9 | 4925 | 4078 | 4132 | 1185 | 4239 | 4292 | 4316 | 4399 | 4453 | 4506 | 4559 | 4613 | 4667 | 4722 | 4773 | 4827 | 4881 | 24 | 55 | 2 3024 |
| 54 | 56 | | 4314 | 4368 | 4421 | 4474 | 4527 | 4581 | 4634 | 4687 | 4741 | 4794 | 4847 | 4991 | 4954 | 5997 | 5961 | 5114 | 5167 | 19 | 56 | 2735 |
| 55 | 57 | | 4694 | 4657 | 4710 | 4763 | 4816 | 4869 | 4929 | 4976 | 5929 | 5089 | 5135 | 5188 | 5941 | 5295 | 5318 | 5491 | 5454 | 14 | 57 | 2447 |
| 66 | 58 | | 4893 | 4946 | 4999 | 5952 | 5105 | 5158 | 5211 | 5264 | 5317 | 5379 | 5423 | 5476 | 5529 | 5582 | 5635 | 5688 | 5741 | 19 | 58 | 2158 |
| 67 | 59 | | 5189 | 5235 | 5288 | 5341 | 5393 | 5446 | 5499 | 5552 | 5695 | 5658 | 5711 | 5764 | 5817 | 5869 | 5922 | 5975 | 6028 | 5 | 59 | 1862 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg Auxiliar. | 83° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 83° | Núm. |
| 0 | 0′ | 7 (8) 2176 | 2237 | 9292 | 2361 | 2422 | 2484 | 2546 | 9607 | 2669 | 9731 | 2792 | 9854 | 9916 | 2977 | 6032 | 0101 | 0162 | 0 | 0′ | 7 8131 |
| 1 | 1 | 9462 | 9524 | 9585 | 9647 | 9708 | 9769 | 9831 | 2022 | 9954 | 0015 | 0077 | 0139 | 0266 | 0262 | 0323 | 0385 | 0446 | 5 | 1 | 8419 |
| 2 | 2 | 9748 | 2010 | 2871 | 9932 | 2224 | 6055 | 0116 | 0178 | 0239 | 0306 | 0362 | 6423 | 0485 | 0546 | 6607 | 0669 | 0736 | 10 | 2 | 8768 |
| 3 | 3 | 8 0035 | 0026 | 0137 | 6218 | 0279 | 0341 | 0402 | 0463 | 0524 | 0585 | 0647 | 6708 | 0762 | 0830 | 0822 | 0953 | 1014 | 14 | 3 | 8997 |
| 4 | 4 | 0321 | 0302 | 0443 | 6504 | 0565 | 0626 | 0687 | 0748 | 0862 | 0870 | 0931 | 0223 | 1054 | 1115 | 1176 | 1237 | 1228 | 19 | 4 | 9286 |
| 5 | 5 | 8 0607 | 0668 | 0729 | 0790 | 0851 | 0212 | 0273 | 1033 | 1024 | 1155 | 1216 | 1277 | 1338 | 1329 | 1460 | 1521 | 1582 | 24 | 5 | 7 9574 |
| 6 | 6 | 0894 | 0254 | 1015 | 1076 | 1136 | 1197 | 1250 | 1319 | 1380 | 1440 | 1501 | 1562 | 1623 | 1684 | 1744 | 1005 | 1866 | 22 | 6 | 9863 |
| 7 | 7 | 1180 | 1240 | 1301 | 1362 | 1422 | 1483 | 1543 | 1604 | 1665 | 1725 | 1786 | 1047 | 1207 | 1968 | 2029 | 2089 | 2150 | 34 | 7 | 8 0152 |
| 8 | 8 | 1466 | 1527 | 1587 | 1647 | 1708 | 1768 | 1029 | 1889 | 1950 | 2010 | 2671 | 2131 | 2122 | 2252 | 2313 | 2373 | 2434 | 30 | 8 | 0441 |
| 2 | 2 | 1753 | 1813 | 1873 | 1933 | 1994 | 2054 | 2114 | 2175 | 2235 | 2295 | 2356 | 2416 | 2476 | 2537 | 2597 | 2658 | 2710 | 43 | 2 | 0730 |
| 10 | 10 | 8 2039 | 2092 | 2159 | 2212 | 2279 | 2340 | 2466 | 2460 | 2520 | 2586 | 2641 | 2701 | 2761 | 2821 | 2881 | 2942 | 3002 | 40 | 10 | 8 1018 |
| 11 | 11 | 2325 | 2385 | 2445 | 2505 | 2565 | 2625 | 2685 | 2745 | 2865 | 2865 | 2225 | 2985 | 3016 | 3106 | 3166 | 3226 | 3286 | 53 | 11 | 1307 |
| 11 | 12 | 2612 | 2671 | 2731 | 2791 | 2851 | 2211 | 2971 | 3031 | 3091 | 3150 | 3210 | 3270 | 3330 | 3390 | 3450 | 3510 | 3570 | 50 | 12 | 1596 |
| 12 | 13 | 2898 | 2950 | 3017 | 3077 | 3137 | 3196 | 3256 | 3316 | 3376 | 3435 | 3425 | 3555 | 3615 | 3675 | 3734 | 3794 | 3854 | 63 | 13 | 1885 |
| 13 | 14 | 3104 | 3244 | 3363 | 3363 | 3422 | 3482 | 3542 | 3661 | 3661 | 3720 | 3780 | 3840 | 3899 | 3952 | 4019 | 4078 | 4138 | 67 | 14 | 2174 |
| 14 | 15 | 8 3471 | 3530 | 3589 | 3642 | 3708 | 3760 | 3827 | 3887 | 3946 | 4006 | 4065 | 4125 | 4184 | 1244 | 4303 | 1363 | 4422 | 72 | 15 | 8 2163 |
| 13 | 16 | 3757 | 3816 | 3876 | 3935 | 3294 | 4053 | 4113 | 4172 | 4231 | 4221 | 4356 | 4409 | 4469 | 4528 | 1587 | 4647 | 4706 | 77 | 16 | 2751 |
| 16 | 17 | 4043 | 4103 | 4162 | 4221 | 4286 | 4339 | 4398 | 4457 | 4517 | 4576 | 4635 | 4694 | 4753 | 4813 | 1872 | 4911 | 4920 | 82 | 17 | 3040 |
| 17 | 18 | 4330 | 4389 | 4418 | 4507 | 4566 | 4625 | 4684 | 4743 | 1802 | 4861 | 4220 | 4279 | 5038 | 5097 | 5156 | 5215 | 5274 | 87 | 18 | 3329 |
| 18 | 12 | 4616 | 4675 | 4734 | 4793 | 4852 | 4910 | 4962 | 5028 | 5087 | 5146 | 5205 | 5264 | 5323 | 5302 | 5141 | 5500 | 5559 | 91 | 12 | 3618 |
| 19 | 20 | 8 4903 | 1961 | 5020 | 5079 | 5137 | 5196 | 5255 | 5314 | 5372 | 5431 | 5420 | 5542 | 5607 | 5666 | 5725 | 5784 | 5813 | 96 | 20 | 8 3207 |
| 20 | 21 | 5189 | 5240 | 5306 | 5365 | 5423 | 5402 | 5541 | 5592 | 5658 | 5716 | 5775 | 5833 | 5822 | 5951 | 6062 | 6068 | 6127 | 101 | 21 | 4196 |
| 21 | 22 | 5476 | 5534 | 5522 | 5651 | 5709 | 5768 | 5826 | 5885 | 5943 | 6001 | 6060 | 6118 | 6177 | 6235 | 6294 | 6352 | 6411 | 106 | 22 | 4485 |
| 22 | 23 | 5762 | 5820 | 5079 | 5237 | 5295 | 6053 | 6112 | 6170 | 6228 | 6287 | 6345 | 6163 | 6462 | 6520 | 6578 | 6637 | 6695 | 111 | 23 | 4774 |
| 23 | 24 | 6042 | 6107 | 6165 | 6223 | 6281 | 6339 | 6397 | 6455 | 6514 | 6572 | 6630 | 6600 | 6746 | 6804 | 6863 | 6221 | 6979 | 116 | 24 | 5063 |
| 24 | 25 | 8 6335 | 6393 | 6451 | 6509 | 6567 | 6625 | 6603 | 6741 | 6729 | 6057 | 6915 | 6973 | 7031 | 7089 | 7147 | 7205 | 7263 | 120 | 25 | 8 5352 |
| 25 | 26 | 6622 | 6679 | 6737 | 6795 | 6853 | 6911 | 6962 | 7026 | 7081 | 7142 | 7200 | 7258 | 7316 | 7374 | 7431 | 7489 | 7547 | 125 | 26 | 5641 |
| 26 | 27 | 6208 | 6966 | 7623 | 7681 | 7139 | 7196 | 7254 | 7312 | 7370 | 7427 | 7485 | 7543 | 7660 | 7658 | 7716 | 7774 | 7831 | 136 | 27 | 5936 |
| 27 | 28 | 7195 | 7252 | 7316 | 7367 | 7425 | 7482 | 7510 | 7597 | 7655 | 7712 | 7776 | 7828 | 7885 | 7243 | 8000 | 8058 | 8116 | 135 | 28 | 6219 |
| 28 | 22 | 7482 | 7539 | 7596 | 7653 | 7711 | 7768 | 7825 | 7883 | 7240 | 7998 | 8055 | 8112 | 0170 | 8227 | 8285 | 8342 | 8460 | 140 | 29 | 6500 |
| 29 | 30 | 8 7768 | 7025 | 7882 | 7239 | 7927 | 8054 | 8111 | 0168 | 8226 | 8283 | 8340 | 8397 | 8455 | 8512 | 8569 | 8627 | 8684 | 144 | 36 | 8 6797 |
| 30 | 31 | 8054 | 8111 | 8168 | 8225 | 8283 | 0340 | 8397 | 8454 | 0511 | 8568 | 8625 | 8682 | 8740 | 0727 | 8854 | 8911 | 8968 | 149 | 31 | 7006 |
| 31 | 32 | 8341 | 8398 | 8455 | 8512 | 8569 | 8625 | 8682 | 0739 | 8796 | 8853 | 8916 | 8967 | 9624 | 9081 | 9138 | 9125 | 9252 | 154 | 32 | 7375 |
| 32 | 33 | 8627 | 8684 | 8741 | 8798 | 8855 | 8211 | 8968 | 9025 | 9682 | 9132 | 9125 | 2252 | 9309 | 9366 | 9423 | 9480 | 2537 | 159 | 33 | 7664 |
| 33 | 34 | 8914 | 8271 | 9027 | 2084 | 2140 | 9197 | 9254 | 9310 | 9367 | 9424 | 2481 | 9537 | 9594 | 9651 | 9707 | 9764 | 9821 | 164 | 34 | 7253 |
| 34 | 35 | 8 (9) 2201 | 9257 | 9314 | 2370 | 2426 | 9483 | 9540 | 2596 | 9653 | 9709 | 9766 | 9822 | 9872 | 2935 | 9992 | 0049 | 0105 | 169 | 35 | 8 8242 |
| 35 | 36 | 2407 | 2543 | 2600 | 9656 | 9712 | 9762 | 9825 | 9882 | 9238 | 9924 | 0051 | 0107 | 0164 | 0220 | 0277 | 0333 | 0309 | 173 | 36 | 8531 |
| 35 | 37 | 9774 | 9830 | 9886 | 2942 | 9928 | 0055 | 0111 | 0167 | 0223 | 0280 | 0336 | 6392 | 0448 | 0505 | 0561 | 0617 | 6674 | 178 | 37 | 8820 |
| 36 | 38 | 9 0060 | 0116 | 0172 | 0228 | 0285 | 0341 | 6397 | 0453 | 0502 | 0563 | 0621 | 0677 | 0733 | 0789 | 0846 | 0982 | 0958 | 183 | 38 | 9109 |
| 37 | 39 | 0347 | 0403 | 0459 | 0515 | 0571 | 0626 | 6682 | 0738 | 0794 | 0850 | 6906 | 6262 | 1018 | 1674 | 1136 | 1186 | 1242 | 188 | 32 | 9398 |
| 38 | 40 | 9 0634 | 0689 | 0745 | 0801 | 0857 | 0912 | 0968 | 1624 | 1000 | 1136 | 1191 | 1247 | 1303 | 1359 | 1415 | 1471 | 1527 | 193 | 40 | 8 9687 |
| 39 | 41 | 0220 | 6976 | 1031 | 1007 | 1143 | 1198 | 1254 | 1316 | 1365 | 1421 | 1477 | 1532 | 1508 | 1644 | 1699 | 1755 | 1811 | 197 | 41 | 9977 |
| 40 | 42 | 1267 | 1262 | 1318 | 1373 | 1429 | 1484 | 1540 | 1595 | 1651 | 1706 | 1762 | 1817 | 1873 | 1928 | 1984 | 2640 | 2095 | 202 | 42 | 9 0266 |
| 41 | 43 | 1494 | 1549 | 1604 | 1659 | 1715 | 1770 | 1825 | 1881 | 1936 | 1992 | 2047 | 2102 | 2150 | 2213 | 2269 | 2324 | 2379 | 207 | 43 | 6555 |
| 42 | 44 | 1700 | 1835 | 1836 | 1946 | 2061 | 2056 | 2111 | 2166 | 2222 | 2277 | 2332 | 2387 | 2443 | 2498 | 2553 | 2609 | 2664 | 212 | 44 | 0844 |
| 43 | 45 | 9 2067 | 2122 | 2177 | 2232 | 2287 | 2342 | 2397 | 2452 | 2567 | 2562 | 2617 | 2672 | 2720 | 2783 | 2838 | 2893 | 2948 | 217 | 45 | 9 1133 |
| 44 | 46 | 2354 | 2408 | 2463 | 2510 | 2573 | 2628 | 2603 | 2738 | 2793 | 2818 | 2903 | 2958 | 3013 | 3068 | 3122 | 3177 | 3232 | 222 | 46 | 1422 |
| 45 | 47 | 2640 | 2695 | 2750 | 2804 | 2059 | 2214 | 2969 | 3023 | 3070 | 3133 | 3188 | 3243 | 3297 | 3352 | 3407 | 3462 | 3517 | 226 | 47 | 1711 |
| 46 | 48 | 2927 | 2981 | 3636 | 3091 | 3145 | 3200 | 3254 | 3309 | 3364 | 3418 | 3473 | 3528 | 3582 | 3637 | 3622 | 3747 | 3861 | 231 | 48 | 2000 |
| 47 | 42 | 3214 | 3268 | 3322 | 3377 | 3431 | 3486 | 3540 | 3595 | 3649 | 3704 | 3758 | 3813 | 3867 | 3922 | 3276 | 4031 | 4086 | 236 | 49 | 2290 |
| 48 | 50 | 2 3500 | 3555 | 3662 | 3663 | 3718 | 3772 | 3826 | 3001 | 3935 | 3982 | 4044 | 4698 | 4152 | 4207 | 4261 | 4316 | 4370 | 241 | 50 | 9 2579 |
| 49 | 51 | 3787 | 3841 | 3095 | 3956 | 4004 | 4058 | 4112 | 4166 | 4220 | 4275 | 4329 | 4383 | 4437 | 4492 | 4546 | 4606 | 4654 | 246 | 51 | 2068 |
| 50 | 52 | 4074 | 4128 | 4182 | 4236 | 4290 | 4344 | 4398 | 4452 | 4566 | 4560 | 4614 | 4668 | 4722 | 4776 | 4830 | 4885 | 4939 | 250 | 52 | 3157 |
| 51 | 53 | 4361 | 4414 | 4468 | 4522 | 4576 | 4630 | 4684 | 4738 | 4792 | 4845 | 4892 | 4953 | 5007 | 5061 | 5115 | 5169 | 5223 | 255 | 53 | 3447 |
| 52 | 54 | 4647 | 4701 | 4755 | 4809 | 4862 | 4916 | 4270 | 5023 | 5077 | 5131 | 5105 | 5238 | 5292 | 5346 | 5460 | 5454 | 5507 | 260 | 54 | 3736 |
| 53 | 55 | 2 4934 | 4988 | 5041 | 5095 | 5148 | 5202 | 5256 | 5309 | 5363 | 5416 | 5470 | 5524 | 5577 | 5631 | 5605 | 5738 | 5792 | 265 | 55 | 9 4025 |
| 54 | 56 | 5221 | 5274 | 5320 | 5381 | 5433 | 5488 | 5541 | 5595 | 5640 | 5702 | 5755 | 5809 | 5862 | 5916 | 5962 | 6623 | 6676 | 270 | 56 | 4314 |
| 55 | 57 | 5508 | 5561 | 5614 | 5667 | 5721 | 5774 | 5827 | 5881 | 5234 | 5987 | 6041 | 6094 | 6147 | 6201 | 6251 | 6307 | 6361 | 275 | 57 | 4604 |
| 56 | 58 | 5794 | 5048 | 5901 | 5954 | 6007 | 6060 | 6113 | 6166 | 6220 | 6273 | 6326 | 6379 | 6432 | 6486 | 6539 | 6592 | 6645 | 279 | 58 | 4693 |
| 57 | 59 | 6081 | 6134 | 6187 | 6240 | 6293 | 6346 | 6399 | 6452 | 6505 | 6558 | 6611 | 6664 | 6717 | 6771 | 6824 | 6877 | 6929 | 204 | 59 | 5182 |

TABLA X. Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 84° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 84° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 9 | 5471 | 5524 | 5577 | 0629 | 5682 | 5735 | 5788 | 5840 | 5893 | 5916 | 5999 | 6051 | 6104 | 6157 | 6210 | 6262 | 0315 | 209 | 0' | 2 1581 |
| 1 | 1 | | 5701 | 5813 | 5866 | 5918 | 5971 | 6023 | 6070 | 6129 | 0181 | 6234 | 0286 | 6339 | 6392 | 6444 | 6497 | 6550 | 6602 | 284 | 1 | 1292 |
| 2 | 2 | | 6050 | 0102 | 6155 | 6207 | 6260 | 6312 | 6364 | 6417 | 6469 | 6522 | 6574 | 6627 | 6679 | 6732 | 6784 | 6837 | 6889 | 279 | 2 | 1003 |
| 2 | 3 | | 6339 | 6392 | 6444 | 6496 | 6548 | 6601 | 6653 | 6705 | 6757 | 0810 | 6862 | 6914 | 6967 | 7019 | 7071 | 7124 | 7176 | 275 | 3 | 0714 |
| 3 | 4 | | 6629 | 6681 | 6733 | 6785 | 6837 | 6889 | 6941 | 6993 | 7046 | 7098 | 7150 | 7202 | 7954 | 7306 | 7359 | 7411 | 7453 | 270 | 4 | 0426 |
| 4 | 5 | 9 | 6918 | 6970 | 7022 | 7074 | 7126 | 7178 | 7230 | 7282 | 7334 | 7386 | 7438 | 7490 | 7542 | 7594 | 7646 | 7698 | 7750 | 265 | 5 | 2 0137 |
| 5 | 6 | | 7207 | 7259 | 7311 | 7363 | 7415 | 7460 | 7518 | 7570 | 7622 | 7674 | 7726 | 7778 | 7829 | 7881 | 7933 | 7985 | 8037 | 260 | 6 | 1 9848 |
| 6 | 7 | | 7497 | 7548 | 7600 | 7652 | 7703 | 7755 | 7807 | 7858 | 7910 | 7962 | 8014 | 8065 | 8117 | 8169 | 8221 | 8272 | 8324 | 255 | 7 | 9559 |
| 6 | 8 | | 7786 | 7838 | 7889 | 7941 | 7992 | 8041 | 8095 | 8147 | 8198 | 8250 | 8302 | 8353 | 8405 | 8456 | 8508 | 8560 | 8611 | 250 | 0 | 9270 |
| 7 | 9 | | 8075 | 8127 | 8178 | 8230 | 8281 | 8332 | 8384 | 8435 | 8487 | 8538 | 8589 | 8641 | 8092 | 8744 | 8795 | 8847 | 8898 | 246 | 9 | 8982 |
| 8 | 10 | 9 | 8365 | 8416 | 8467 | 8518 | 8570 | 8621 | 8072 | 8723 | 8775 | 8826 | 8877 | 8929 | 8980 | 9031 | 9083 | 9134 | 9185 | 241 | 10 | 1 8693 |
| 9 | 11 | | 8654 | 8705 | 8756 | 8807 | 8859 | 8910 | 8961 | 9012 | 9063 | 9114 | 9165 | 9216 | 9268 | 9319 | 9370 | 9421 | 9472 | 236 | 11 | 8404 |
| 10 | 12 | | 8944 | 8995 | 9046 | 9096 | 9147 | 9198 | 9249 | 9300 | 9351 | 9102 | 9453 | 9504 | 9555 | 9606 | 9657 | 9708 | 9759 | 231 | 12 | 8115 |
| 11 | 13 | 9 (0) | 9233 | 9284 | 9335 | 9385 | 9436 | 9487 | 9538 | 9589 | 9640 | 9690 | 9741 | 9792 | 9843 | 9894 | 9915 | 9996 | 0046 | 226 | 13 | 7826 |
| 11 | 14 | | 9522 | 9573 | 9624 | 9674 | 9725 | 9776 | 9826 | 9877 | 9928 | 9978 | 0029 | 0080 | 0131 | 0181 | 0232 | 0283 | 0334 | 222 | 14 | 7537 |
| 12 | 15 | 9 (0) | 9812 | 9862 | 9913 | 9963 | 0014 | 0064 | 0115 | 0165 | 0216 | 0267 | 0317 | 0368 | 0418 | 0469 | 0519 | 0570 | 0621 | 217 | 15 | 1 7249 |
| 13 | 16 | 0 | 0101 | 0152 | 0202 | 0252 | 0303 | 0353 | 0404 | 0154 | 0504 | 0555 | 0605 | 0655 | 0706 | 0756 | 0807 | 0857 | 0908 | 212 | 16 | 5960 |
| 14 | 17 | | 0391 | 0441 | 0491 | 0511 | 0592 | 0642 | 0692 | 0742 | 0793 | 0813 | 0893 | 0943 | 0994 | 1044 | 1094 | 1141 | 1195 | 207 | 17 | 6671 |
| 15 | 18 | | 0680 | 0730 | 0780 | 0830 | 0888 | 0931 | 0981 | 1031 | 1081 | 1131 | 1181 | 1231 | 1281 | 1331 | 1382 | 1432 | 1482 | 202 | 18 | 5382 |
| 15 | 19 | | 0970 | 1020 | 1070 | 1119 | 1169 | 1219 | 1269 | 1319 | 1369 | 1419 | 1469 | 1519 | 1569 | 1519 | 1669 | 1719 | 1769 | 197 | 19 | 6093 |
| 16 | 20 | 0 | 1259 | 1309 | 1359 | 1408 | 1458 | 1508 | 1558 | 1008 | 1657 | 1707 | 1757 | 1807 | 1857 | 1907 | 1956 | 2006 | 2056 | 193 | 20 | 1 5804 |
| 17 | 21 | | 1549 | 1598 | 1648 | 1697 | 1747 | 1797 | 1846 | 1896 | 1946 | 1995 | 2045 | 2095 | 2144 | 2194 | 2244 | 2294 | 2343 | 188 | 21 | 5515 |
| 18 | 22 | | 1838 | 1888 | 1937 | 1987 | 2036 | 2085 | 2135 | 2185 | 2234 | 2284 | 2333 | 9383 | 2432 | 2482 | 2531 | 2581 | 2630 | 183 | 22 | 5226 |
| 19 | 23 | | 2128 | 2177 | 2226 | 2270 | 2325 | 2374 | 2424 | 2473 | 2522 | 2572 | 2621 | 2670 | 2720 | 2769 | 2819 | 2868 | 2918 | 178 | 23 | 4937 |
| 19 | 24 | | 2417 | 2466 | 2515 | 2565 | 2614 | 2663 | 2712 | 2761 | 2811 | 2860 | 2909 | 2958 | 3008 | 3057 | 3106 | 3155 | 3205 | 173 | 24 | 4648 |
| 20 | 25 | 0 | 2707 | 2756 | 2805 | 2854 | 2903 | 2952 | 3001 | 3050 | 3099 | 3148 | 3197 | 3246 | 3295 | 3315 | 3394 | 3143 | 3492 | 169 | 25 | 1 4359 |
| 21 | 26 | | 2996 | 3045 | 3094 | 3143 | 3192 | 3241 | 3289 | 3338 | 3387 | 3436 | 3485 | 3534 | 3583 | 3632 | 3681 | 3730 | 3779 | 164 | 26 | 4070 |
| 22 | 27 | | 3286 | 3334 | 3383 | 3432 | 3481 | 3529 | 3578 | 3627 | 3676 | 3724 | 3773 | 3822 | 3871 | 3920 | 3969 | 4017 | 4066 | 159 | 27 | 3781 |
| 23 | 28 | | 3575 | 3624 | 3672 | 3721 | 3769 | 3818 | 3867 | 3915 | 3964 | 4013 | 4061 | 4110 | 4159 | 4207 | 4256 | 4305 | 4353 | 154 | 28 | 3492 |
| 23 | 29 | | 3865 | 3913 | 3962 | 4010 | 4058 | 4107 | 4155 | 4204 | 4252 | 4301 | 4349 | 4398 | 4447 | 4495 | 4544 | 4592 | 4641 | 149 | 29 | 3203 |
| 24 | 30 | 0 | 4154 | 4202 | 4251 | 4299 | 4347 | 4396 | 4444 | 4492 | 4541 | 4589 | 4638 | 4686 | 4734 | 4783 | 4831 | 4880 | 4928 | 144 | 30 | 1 2914 |
| 25 | 31 | | 4444 | 4492 | 4540 | 4588 | 4636 | 4685 | 4733 | 4781 | 4829 | 4877 | 4926 | 4974 | 5022 | 5070 | 5119 | 5167 | 5215 | 140 | 31 | 2625 |
| 26 | 32 | | 4733 | 4781 | 4829 | 4877 | 4925 | 4973 | 5021 | 5069 | 5118 | 5166 | 5214 | 5262 | 5310 | 5358 | 5406 | 5454 | 5502 | 135 | 32 | 2336 |
| 27 | 33 | | 5023 | 5071 | 5119 | 5166 | 5214 | 5262 | 5310 | 5358 | 5406 | 5454 | 5502 | 5550 | 5598 | 5646 | 5694 | 5742 | 5790 | 130 | 33 | 2047 |
| 27 | 34 | | 5312 | 5360 | 5408 | 5456 | 5503 | 5551 | 5599 | 5647 | 5694 | 5742 | 5790 | 5838 | 5886 | 5933 | 5981 | 6029 | 6077 | 125 | 34 | 1758 |
| 28 | 35 | 0 | 5602 | 5650 | 5697 | 5745 | 5792 | 5840 | 5888 | 5935 | 5983 | 6030 | 6078 | 6126 | 6173 | 6221 | 6269 | 6316 | 6364 | 120 | 35 | 1 1469 |
| 29 | 36 | | 5892 | 5939 | 5987 | 6034 | 6081 | 6129 | 6176 | 6224 | 6271 | 6319 | 6366 | 6414 | 6461 | 6509 | 6556 | 6604 | 6651 | 115 | 36 | 1180 |
| 30 | 37 | | 6181 | 0229 | 0270 | 6323 | 6370 | 6418 | 6465 | 6512 | 6560 | 6607 | 6654 | 6702 | 6749 | 6796 | 6844 | 6891 | 6939 | 111 | 37 | 0891 |
| 31 | 38 | | 6471 | 6518 | 6565 | 6612 | 6659 | 6707 | 6754 | 6801 | 6848 | 6895 | 6942 | 6990 | 7037 | 7084 | 7131 | 7179 | 7226 | 106 | 38 | 0602 |
| 32 | 39 | | 6760 | 6807 | 6854 | 6901 | 6948 | 6995 | 7043 | 7089 | 7137 | 7184 | 7231 | 7278 | 7325 | 7372 | 7419 | 7466 | 7513 | 101 | 39 | 0313 |
| 32 | 40 | 0 | 7050 | 7097 | 7144 | 7191 | 7237 | 7284 | 7331 | 7378 | 7425 | 7472 | 7519 | 7566 | 7613 | 7660 | 7706 | 7753 | 7800 | 96 | 40 | 1 0023 |
| 33 | 41 | | 7340 | 7386 | 7433 | 7480 | 7527 | 7573 | 7620 | 7667 | 7713 | 7760 | 7807 | 7854 | 7900 | 7947 | 7994 | 8041 | 8088 | 91 | 41 | 0 9734 |
| 34 | 42 | | 7629 | 7676 | 7722 | 7769 | 7816 | 7862 | 7909 | 7955 | 8002 | 8049 | 8095 | 8142 | 8188 | 8235 | 8282 | 8328 | 8375 | 87 | 42 | 9445 |
| 35 | 43 | | 7919 | 7965 | 8012 | 8058 | 8105 | 8151 | 8197 | 8244 | 8290 | 8337 | 8383 | 8430 | 8476 | 8523 | 8569 | 8616 | 8662 | 82 | 43 | 9156 |
| 36 | 44 | | 8209 | 8255 | 8301 | 8347 | 8394 | 8440 | 8486 | 8533 | 8579 | 8625 | 8672 | 8718 | 8764 | 8811 | 8857 | 8903 | 8950 | 77 | 44 | 8867 |
| 36 | 45 | 0 | 8498 | 8544 | 8591 | 8637 | 8683 | 8729 | 8775 | 8821 | 8867 | 8914 | 8960 | 9006 | 9052 | 9098 | 9145 | 9191 | 9237 | 72 | 45 | 0 8578 |
| 37 | 46 | | 8788 | 8834 | 8880 | 8926 | 8972 | 9018 | 9064 | 9110 | 9156 | 9202 | 9248 | 9294 | 9340 | 9386 | 9432 | 9478 | 9524 | 67 | 46 | 8289 |
| 38 | 47 | | 9078 | 9123 | 9169 | 9215 | 9261 | 9307 | 9353 | 9399 | 9444 | 9490 | 9536 | 9582 | 9628 | 9674 | 9720 | 9766 | 9812 | 63 | 47 | 8000 |
| 39 | 48 | 0 (1) | 9367 | 9413 | 9459 | 9504 | 9550 | 9596 | 9641 | 9687 | 9733 | 9779 | 9824 | 9870 | 9916 | 9962 | 0007 | 0053 | 0099 | 58 | 48 | 7710 |
| 40 | 49 | | 9657 | 9703 | 9748 | 9794 | 9839 | 9885 | 9930 | 9976 | 0021 | 0067 | 0113 | 0158 | 0204 | 0249 | 0295 | 0341 | 0386 | 63 | 49 | 7421 |
| 40 | 50 | 0 (1) | 9947 | 9992 | 0038 | 0083 | 0128 | 0174 | 0219 | 0265 | 0310 | 0355 | 0401 | 0446 | 0492 | 0537 | 0583 | 0698 | 0674 | 48 | 50 | 0 7132 |
| 41 | 51 | 1 | 0236 | 0282 | 0327 | 0372 | 0417 | 0463 | 0508 | 0553 | 0599 | 0644 | 0689 | 0734 | 0780 | 0825 | 0870 | 0916 | 0961 | 43 | 51 | 6843 |
| 42 | 52 | | 0526 | 0571 | 0616 | 0661 | 0707 | 0752 | 0797 | 0842 | 0887 | 0932 | 0977 | 1023 | 1068 | 1113 | 1158 | 1203 | 1248 | 38 | 52 | 6553 |
| 43 | 53 | | 0816 | 0861 | 0906 | 0951 | 0996 | 1041 | 1086 | 1131 | 1176 | 1221 | 1266 | 1311 | 1356 | 1401 | 1446 | 1491 | 1536 | 31 | 53 | 6264 |
| 44 | 54 | | 1106 | 1150 | 1195 | 1240 | 1285 | 1330 | 1374 | 1419 | 1464 | 1509 | 1554 | 1599 | 1644 | 1689 | 1733 | 1778 | 1823 | 29 | 54 | 5975 |
| 44 | 55 | 1 | 1395 | 1440 | 1485 | 1529 | 1574 | 1619 | 1663 | 1708 | 1753 | 1797 | 1812 | 1887 | 1932 | 1976 | 2021 | 2066 | 2111 | 24 | 55 | 0 5686 |
| 45 | 56 | | 1685 | 1730 | 1774 | 1819 | 1863 | 1908 | 1952 | 1997 | 2041 | 2086 | 2130 | 2175 | 2220 | 2264 | 2309 | 2353 | 2398 | 19 | 56 | 5396 |
| 46 | 57 | | 1975 | 9019 | 2064 | 2108 | 2152 | 2197 | 2241 | 2286 | 2330 | 2374 | 2419 | 2463 | 2508 | 2552 | 2597 | 2641 | 2685 | 14 | 57 | 5107 |
| 47 | 68 | | 2265 | 2309 | 2353 | 2397 | 2442 | 2486 | 2530 | 2574 | 2619 | 2653 | 2707 | 2761 | 2796 | 2840 | 2884 | 2929 | 2973 | 10 | 58 | 4818 |
| 48 | 59 | | 2554 | 2598 | 2643 | 2687 | 2731 | 2775 | 2819 | 2863 | 2907 | 2951 | 2995 | 3039 | 3084 | 3198 | 3172 | 3216 | 3260 | 5 | 59 | 4529 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar. | 84° | | 17′ | 18′ | 19′ | 96′ | 21′ | 92′ | 93′ | 24′ | 25′ | 26′ | 97′ | 20′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 0 | 6′ | 9 | 6368 | 6421 | 0474 | 6527 | 6579 | 0632 | 6685 | 0738 | 6791 | 0844 | 6897 | 0950 | 7003 | 7855 | 7188 | 7161 | 7214 |
| 1 | 1 | | 6650 | 0780 | 0760 | 0013 | 6868 | 0918 | 0971 | 7024 | 7077 | 7129 | 7182 | 7235 | 7288 | 7340 | 7393 | 7416 | 7499 |
| 2 | 2 | | 6942 | 6994 | 7047 | 7099 | 7102 | 7204 | 7207 | 7310 | 7362 | 7415 | 7467 | 7520 | 7573 | 7025 | 7678 | 7730 | 7783 |
| 9 | 3 | | 7229 | 7231 | 7333 | 7380 | 7438 | 7490 | 7543 | 7095 | 7648 | 7700 | 7753 | 7805 | 7056 | 7910 | 7963 | 8015 | 8068 |
| 3 | 4 | | 7510 | 7660 | 7020 | 7072 | 7724 | 7777 | 7029 | 7081 | 7234 | 7986 | 8038 | 8090 | 8143 | 8195 | 0247 | 8300 | 8352 |
| 4 | 6 | 9 | 7882 | 7854 | 7906 | 7959 | 8011 | 0963 | 8115 | 0167 | 0219 | 8271 | 0323 | 0376 | 8428 | 8480 | 0532 | 8584 | 8637 |
| 5 | 6 | | 6009 | 6141 | 8193 | 6245 | 0297 | 0342 | 0401 | 0453 | 0505 | 8557 | 8609 | 0661 | 8713 | 8765 | 8817 | 8869 | 8921 |
| 0 | 7 | | 0376 | 8428 | 8480 | 0031 | 8583 | 0035 | 8687 | 0739 | 0721 | 0042 | 0894 | 8940 | 8998 | 9050 | 9102 | 9154 | 9206 |
| 0 | 6 | | 0063 | 0715 | 8766 | 0010 | 8870 | 0221 | 8273 | 2025 | 2070 | 2128 | 9180 | 9231 | 9283 | 9335 | 9387 | 9139 | 9490 |
| 7 | 9 | | 6950 | 9301 | 9003 | 9184 | 9156 | 9207 | 9259 | 9310 | 9362 | 9411 | 9460 | 9517 | 2568 | 9620 | 9672 | 9723 | 9775 |
| 6 | 13 | 9 (0) | 9237 | 9288 | 9339 | 9391 | 9442 | 9193 | 9545 | 2590 | 9618 | 9699 | 9751 | 2802 | 9853 | 9905 | 9956 | 0008 | 0059 |
| 9 | 11 | | 9023 | 9570 | 9620 | 9677 | 9728 | 9780 | 9831 | 2882 | 9933 | 9985 | 0030 | 0087 | 0139 | 0190 | 0241 | 0293 | 0344 |
| 10 | 12 | | 9010 | 2001 | 2213 | 2964 | 0010 | 0060 | 0117 | 0168 | 0219 | 0270 | 0321 | 0373 | 0424 | 0475 | 0526 | 0577 | 0629 |
| 11 | 13 | 6 | 3097 | 0148 | 0129 | 0250 | 0301 | 0302 | 0103 | 0454 | 0505 | 0556 | 0607 | 0650 | 0709 | 0760 | 0811 | 8362 | 8913 |
| 11 | 14 | | 0384 | 0435 | 0400 | 0537 | 0587 | 0036 | 0682 | 0740 | 0791 | 0842 | 0892 | 0943 | 0994 | 1045 | 1096 | 1147 | 1198 |
| 12 | 16 | 8 | 0671 | 0722 | 0772 | 0823 | 0874 | 0924 | 0975 | 1820 | 1077 | 1127 | 1178 | 1229 | 1279 | 1330 | 1381 | 1432 | 1482 |
| 13 | 16 | | 0958 | 1002 | 1052 | 1110 | 1160 | 1211 | 1201 | 1312 | 1362 | 1413 | 1403 | 1514 | 1005 | 1615 | 1666 | 1710 | 1767 |
| 14 | 17 | | 1945 | 1290 | 1346 | 1320 | 1447 | 1497 | 1547 | 1590 | 1640 | 1698 | 1749 | 1799 | 1850 | 1908 | 1951 | 2001 | 2051 |
| 15 | 16 | | 1532 | 1582 | 1033 | 1083 | 1733 | 1703 | 1033 | 1884 | 1934 | 1984 | 2034 | 2085 | 2135 | 2185 | 2235 | 2286 | 2336 |
| 15 | 19 | | 1819 | 1869 | 1919 | 1909 | 2019 | 2069 | 2112 | 2169 | 2220 | 2270 | 2320 | 2370 | 2120 | 2170 | 2520 | 2571 | 2621 |
| 16 | 20 | 0 | 2100 | 2150 | 2280 | 2200 | 2300 | 2356 | 2405 | 2455 | 9505 | 2555 | 2605 | 2655 | 2705 | 2755 | 2805 | 2855 | 2905 |
| 17 | 21 | | 2393 | 9443 | 2423 | 2042 | 2592 | 2642 | 2692 | 2741 | 2791 | 2841 | 2891 | 2941 | 2991 | 3040 | 3090 | 3140 | 3190 |
| 18 | 22 | | 2086 | 2730 | 2779 | 2829 | 2870 | 2920 | 2970 | 3027 | 3077 | 3127 | 3176 | 3220 | 3270 | 3326 | 3375 | 3125 | 3175 |
| 19 | 23 | | 2967 | 3017 | 3666 | 3115 | 3166 | 3214 | 3204 | 3313 | 3363 | 3412 | 3462 | 3511 | 3561 | 3611 | 3660 | 3710 | 3759 |
| 19 | 24 | | 3254 | 3333 | 3353 | 3409 | 3451 | 3601 | 3550 | 3599 | 3649 | 3698 | 3747 | 3797 | 3016 | 3896 | 3945 | 3995 | 4644 |
| 20 | 25 | 6 | 3511 | 3590 | 3639 | 3039 | 3730 | 3707 | 3836 | 3805 | 3935 | 3984 | 4033 | 4082 | 4132 | 4181 | 4230 | 4279 | 4329 |
| 21 | 96 | | 3820 | 3877 | 3926 | 3975 | 4024 | 4073 | 4122 | 4171 | 4220 | 4270 | 4319 | 4368 | 4417 | 4466 | 4515 | 4561 | 4613 |
| 22 | 27 | | 4115 | 4164 | 4213 | 4262 | 4311 | 4360 | 4400 | 4457 | 4506 | 4555 | 4664 | 4653 | 4702 | 4751 | 4800 | 4849 | 5098 |
| 23 | 28 | | 4402 | 4401 | 1500 | 4548 | 4597 | 4046 | 4695 | 4743 | 4792 | 4841 | 4890 | 4939 | 4987 | 5836 | 5085 | 5134 | 5183 |
| 23 | 29 | | 4689 | 4738 | 1730 | 4030 | 4881 | 4232 | 4901 | 5029 | 5678 | 5127 | 5175 | 5224 | 5273 | 5321 | 5370 | 5419 | 5467 |
| 24 | 36 | 6 | 4976 | 5325 | 5073 | 0122 | 5170 | 5212 | 5267 | 5315 | 5364 | 5112 | 5161 | 5509 | 5558 | 5606 | 5655 | 5704 | 5752 |
| 20 | 31 | | 6263 | 5312 | 5360 | 5408 | 5457 | 5505 | 5553 | 5601 | 5650 | 5698 | 5747 | 5795 | 5843 | 5892 | 5940 | 5969 | 6037 |
| 20 | 32 | | 0550 | 5599 | 5647 | 5025 | 5743 | 5721 | 5839 | 5888 | 5936 | 5981 | 6032 | 6080 | 6129 | 6177 | 6225 | 6273 | 6322 |
| 27 | 33 | | 5038 | 5806 | 5934 | 5282 | 6030 | 6070 | 0126 | 6174 | 6222 | 6270 | 6318 | 6366 | 6414 | 6162 | 6510 | 0558 | 0606 |
| 27 | 34 | | 6125 | 6173 | 0220 | 6268 | 0316 | 6304 | 6412 | 6460 | 6508 | 6555 | 6603 | 6651 | 6699 | 6747 | 0795 | 0813 | 6891 |
| 28 | 36 | 0 | 6412 | 0159 | 6507 | 6555 | 6683 | 0050 | 6698 | 6746 | 6794 | 6841 | 0802 | 0937 | 6985 | 7032 | 7080 | 7128 | 7176 |
| 29 | 36 | | 6699 | 0746 | 6794 | 0042 | 0809 | 0937 | 0901 | 7032 | 7600 | 7127 | 7175 | 7222 | 7970 | 7318 | 7365 | 7413 | 7401 |
| 30 | 37 | | 6900 | 7333 | 7001 | 7128 | 7176 | 7223 | 7270 | 7318 | 7365 | 7413 | 7460 | 7508 | 7555 | 7603 | 7650 | 7098 | 7715 |
| 31 | 38 | | 7273 | 7320 | 7360 | 7415 | 7462 | 7509 | 7557 | 7604 | 7651 | 7699 | 7746 | 7793 | 7841 | 7888 | 7935 | 7983 | 8030 |
| 32 | 39 | | 7560 | 7607 | 7654 | 7702 | 7749 | 7796 | 7343 | 7890 | 7937 | 7985 | 8032 | 8079 | 6120 | 8173 | 8290 | 6260 | 8315 |
| 32 | 40 | 6 | 7047 | 7894 | 7941 | 7988 | 0035 | 0082 | 0129 | 8176 | 8223 | 8270 | 0317 | 0364 | 6412 | 8459 | 6506 | 0553 | 8600 |
| 33 | 41 | | 3134 | 3101 | 0223 | 3270 | 8322 | 8369 | 8416 | 0462 | 8509 | 8556 | 8603 | 0650 | 0697 | 6744 | 6791 | 8838 | 8885 |
| 34 | 42 | | 8422 | 8468 | 0516 | 8502 | 8608 | 8655 | 0702 | 8749 | 0795 | 0842 | 0889 | 0935 | 8282 | 9029 | 9070 | 9123 | 9169 |
| 35 | 43 | | 3709 | 8750 | 8832 | 8848 | 3895 | 0942 | 0988 | 9035 | 9001 | 9123 | 9174 | 2221 | 9208 | 9314 | 9361 | 9108 | 9454 |
| 36 | 44 | | 8996 | 9042 | 9089 | 9135 | 9182 | 9228 | 9274 | 9321 | 9367 | 9414 | 9460 | 9507 | 9553 | 9600 | 9640 | 9693 | 9739 |
| 36 | 45 | 0 (1) | 9283 | 9329 | 9376 | 9422 | 9460 | 9514 | 9561 | 9607 | 9653 | 2700 | 9746 | 9792 | 9839 | 9885 | 9931 | 9970 | 0024 |
| 37 | 46 | | 9570 | 9616 | 9663 | 9709 | 9755 | 9801 | 9847 | 9893 | 9939 | 9985 | 0032 | 0070 | 0124 | 0170 | 0216 | 0263 | 0309 |
| 38 | 47 | | 9856 | 9903 | 9949 | 9990 | 0041 | 0087 | 0133 | 0172 | 0225 | 0271 | 0317 | 0363 | 0109 | 0455 | 0501 | 0548 | 0594 |
| 39 | 43 | 1 | 0145 | 0191 | 0236 | 0282 | 0320 | 0374 | 0120 | 0465 | 0511 | 0557 | 0603 | 8649 | 0695 | 0741 | 0707 | 0833 | 0878 |
| 40 | 49 | | 0432 | 0478 | 0523 | 0569 | 0015 | 0660 | 0706 | 0752 | 0797 | 0043 | 8889 | 0935 | 0960 | 1026 | 1072 | 1110 | 1163 |
| 40 | 50 | 1 | 0719 | 0765 | 0810 | 0856 | 0901 | 8947 | 0992 | 1038 | 1083 | 1129 | 1175 | 1220 | 1266 | 1311 | 1357 | 1403 | 1448 |
| 41 | 01 | | 1006 | 1052 | 1097 | 1143 | 1188 | 1233 | 1279 | 1324 | 1309 | 1415 | 1400 | 1506 | 1551 | 1597 | 1649 | 1088 | 1733 |
| 42 | 59 | | 1294 | 1339 | 1384 | 1429 | 1475 | 1526 | 1565 | 1610 | 1656 | 1761 | 1746 | 1721 | 1837 | 1889 | 1927 | 1973 | 2018 |
| 43 | 53 | | 1581 | 1026 | 1671 | 1716 | 1761 | 1806 | 1851 | 1896 | 1942 | 1987 | 2032 | 2077 | 2122 | 2167 | 2213 | 2258 | 2303 |
| 44 | 54 | | 1868 | 1913 | 1958 | 2063 | 2048 | 2623 | 2138 | 2183 | 2228 | 2273 | 2318 | 2363 | 2463 | 2453 | 2493 | 9543 | 2588 |
| 44 | 66 | 1 | 9155 | 2200 | 9245 | 2290 | 2335 | 9379 | 2424 | 2469 | 2514 | 2559 | 2603 | 2640 | 2693 | 2738 | 9783 | 2828 | 2873 |
| 45 | 56 | | 2443 | 2487 | 2539 | 2677 | 2621 | 9666 | 2711 | 2755 | 2800 | 2845 | 2889 | 2934 | 2979 | 3023 | 3068 | 3113 | 3158 |
| 46 | 07 | | 2730 | 2774 | 2819 | 2863 | 2903 | 2952 | 2997 | 3041 | 3086 | 3131 | 3175 | 3220 | 3264 | 3309 | 3353 | 3398 | 3442 |
| 47 | 58 | | 3617 | 3602 | 3106 | 3150 | 3196 | 3239 | 3283 | 3328 | 3372 | 3416 | 3461 | 3565 | 3550 | 3594 | 3639 | 3683 | 3727 |
| 48 | 59 | | 3304 | 3349 | 3393 | 3437 | 3461 | 3525 | 3570 | 3614 | 3658 | 3702 | 3747 | 3791 | 3835 | 3879 | 3924 | 3968 | 4012 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 84° | Núm. |
|---|---|---|
| 0 | 0′ | 9 6472 |
| 5 | 1 | 5761 |
| 10 | 9 | 6050 |
| 14 | 3 | 6339 |
| 19 | 4 | 6629 |
| 94 | 6 | 9 6910 |
| 29 | 6 | 7207 |
| 34 | 7 | 7497 |
| 39 | 8 | 7786 |
| 43 | 9 | 0076 |
| 48 | 10 | 9 8365 |
| 53 | 11 | 8654 |
| 58 | 12 | 0944 |
| 63 | 13 | 9233 |
| 68 | 14 | 9523 |
| 72 | 15 | 2 9812 |
| 77 | 16 | 0 0101 |
| 82 | 17 | 0391 |
| 87 | 18 | 0683 |
| 92 | 19 | 0970 |
| 96 | 20 | 0 1259 |
| 101 | 21 | 1549 |
| 106 | 22 | 1838 |
| 111 | 23 | 9128 |
| 116 | 24 | 2117 |
| 121 | 25 | 0 2707 |
| 125 | 26 | 2996 |
| 130 | 27 | 3286 |
| 135 | 28 | 3575 |
| 140 | 29 | 3065 |
| 145 | 30 | 8 4154 |
| 150 | 31 | 4444 |
| 154 | 32 | 4733 |
| 159 | 33 | 5623 |
| 164 | 34 | 5313 |
| 169 | 35 | 0 5602 |
| 174 | 36 | 5892 |
| 178 | 37 | 6181 |
| 103 | 30 | 6171 |
| 188 | 39 | 6761 |
| 193 | 48 | 0 7050 |
| 198 | 41 | 7340 |
| 903 | 42 | 7629 |
| 207 | 43 | 7919 |
| 212 | 44 | 8209 |
| 217 | 45 | 3 0498 |
| 222 | 46 | 0788 |
| 227 | 47 | 9078 |
| 239 | 48 | 9367 |
| 236 | 49 | 9657 |
| 241 | 50 | 0 9947 |
| 246 | 51 | 1 6237 |
| 251 | 62 | 0526 |
| 256 | 53 | 0816 |
| 961 | 54 | 1106 |
| 965 | 55 | 1 1395 |
| 970 | 66 | 1685 |
| 275 | 67 | 1975 |
| 280 | 63 | 2265 |
| 285 | 69 | 2554 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 85° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 85° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 1 | 2844 | 2866 | 2932 | 2976 | 3620 | 3664 | 3168 | 3152 | 3196 | 3246 | 3284 | 3306 | 3372 | 3416 | 3460 | 3504 | 3548 | 289 | 0' | 0 4239 |
| 1 | 1 | | 3134 | 3178 | 3200 | 3265 | 3309 | 3363 | 3397 | 3441 | 3484 | 3528 | 3570 | 3616 | 3660 | 3704 | 3747 | 3791 | 3835 | 285 | 1 | 3956 |
| 1 | 2 | | 3404 | 3467 | 3511 | 3555 | 3596 | 3642 | 3686 | 3709 | 5773 | 3817 | 3860 | 3904 | 3948 | 3991 | 4035 | 4079 | 4103 | 280 | 2 | 3661 |
| 9 | 3 | | 3714 | 3767 | 3801 | 3844 | 3888 | 3931 | 3975 | 4018 | 4060 | 4165 | 4149 | 4190 | 4236 | 4279 | 4303 | 4366 | 4410 | 275 | 3 | 3371 |
| 3 | 4 | | 4003 | 4047 | 4000 | 4133 | 4177 | 4020 | 4263 | 4307 | 4350 | 4304 | 4437 | 4460 | 4504 | 4567 | 4611 | 4654 | 4608 | 270 | 4 | 3082 |
| 3 | 5 | 1 | 4293 | 4336 | 4386 | 4423 | 4466 | 4569 | 4550 | 4596 | 4639 | 4600 | 4725 | 4769 | 4810 | 4855 | 4898 | 4942 | 4085 | 265 | 5 | 0 2793 |
| 4 | 6 | | 4583 | 4606 | 4669 | 4719 | 4765 | 4798 | 4841 | 4884 | 4908 | 4971 | 5014 | 5657 | 5100 | 5143 | 5186 | 5229 | 5073 | 261 | 6 | 0503 |
| 5 | 7 | | 4873 | 4916 | 4959 | 5002 | 5045 | 5687 | 5130 | 5173 | 5216 | 6259 | 5302 | 5345 | 5388 | 5431 | 5474 | 5517 | 5500 | 256 | 7 | 9014 |
| 5 | 8 | | 6163 | 5065 | 5246 | 5091 | 6334 | 5377 | 5419 | 5460 | 5505 | 5548 | 5590 | 5633 | 5676 | 6712 | 5760 | 5665 | 5848 | 251 | 8 | 1924 |
| 6 | 9 | | 5453 | 6406 | 5538 | 5586 | 5603 | 6668 | 5708 | 5751 | 5704 | 5836 | 5879 | 5202 | 6264 | 6007 | 6060 | 6090 | 6135 | 246 | 9 | 1635 |
| 7 | 10 | 1 | 5740 | 5785 | 5827 | 5870 | 5919 | 6955 | 5997 | 8640 | 6680 | 6125 | 6167 | 6210 | 6050 | 6295 | 6337 | 6380 | 6403 | 241 | 10 | 0 1346 |
| 7 | 11 | | 6030 | 6075 | 6117 | 6159 | 8201 | 6244 | 8088 | 6329 | 6371 | 6413 | 6456 | 8498 | 6540 | 6583 | 6625 | 6668 | 6710 | 236 | 11 | 1056 |
| 8 | 12 | | 6320 | 6364 | 6406 | 6449 | 6491 | 6533 | 6575 | 6617 | 6660 | 6700 | 6744 | 6786 | 6029 | 6871 | 6213 | 6955 | 6998 | 230 | 12 | 0787 |
| 9 | 13 | | 6610 | 6654 | 6696 | 6738 | 6780 | 6802 | 6864 | 6966 | 6948 | 6996 | 7633 | 7675 | 7117 | 7152 | 7201 | 7243 | 7285 | 227 | 13 | 0477 |
| 9 | 14 | | 6909 | 6944 | 6986 | 7027 | 7069 | 7111 | 7153 | 7195 | 7037 | 7270 | 7301 | 7363 | 7406 | 7447 | 7489 | 7531 | 7573 | 220 | 14 | 0188 |
| 10 | 15 | 1 | 7190 | 7033 | 7275 | 7317 | 7359 | 7406 | 7442 | 7484 | 7506 | 7568 | 7609 | 7651 | 7693 | 7735 | 7777 | 7018 | 7860 | 217 | 15 | 9 9899 |
| 11 | 16 | | 7402 | 7503 | 7565 | 7606 | 7648 | 7690 | 7731 | 7773 | 7814 | 7856 | 7698 | 7939 | 7961 | 8003 | 8064 | 6106 | 8148 | 210 | 16 | 9609 |
| 11 | 17 | | 7772 | 7813 | 7854 | 7896 | 7937 | 7979 | 6020 | 8062 | 8103 | 8145 | 8186 | 8208 | 8269 | 8311 | 8350 | 8394 | 8435 | 207 | 17 | 9320 |
| 12 | 18 | | 8061 | 8103 | 8144 | 8185 | 8027 | 8268 | 8360 | 8361 | 8390 | 6433 | 8475 | 8516 | 8557 | 0522 | 8640 | 0682 | 0723 | 903 | 18 | 9030 |
| 13 | 19 | | 8351 | 8393 | 8434 | 8475 | 8516 | 8557 | 8698 | 8639 | 8681 | 8720 | 6763 | 8804 | 8846 | 8887 | 0920 | 8269 | 9010 | 190 | 19 | 8741 |
| 13 | 20 | 1 | 8641 | 8682 | 8793 | 8764 | 8805 | 8846 | 8887 | 0928 | 8969 | 9016 | 9052 | 9093 | 9134 | 9176 | 9016 | 9257 | 9098 | 193 | 20 | 9 8451 |
| 14 | 21 | | 8931 | 8972 | 9013 | 9054 | 9095 | 9136 | 9176 | 9917 | 9258 | 9299 | 9346 | 9381 | 9402 | 9463 | 9504 | 9545 | 2586 | 180 | 21 | 8169 |
| 14 | 22 | | 9021 | 9060 | 9363 | 2342 | 9384 | 9405 | 9465 | 9566 | 9547 | 9588 | 9608 | 9669 | 9710 | 9751 | 9792 | 9832 | 9873 | 163 | 22 | 7872 |
| 15 | 23 | 1 (2) | 9611 | 9550 | 9692 | 9633 | 9673 | 9714 | 9755 | 9795 | 9836 | 9876 | 9917 | 9958 | 9998 | 0032 | 6079 | 0100 | 0161 | 178 | 23 | 7583 |
| 16 | 24 | | 9801 | 9841 | 9882 | 9902 | 9963 | 0063 | 0044 | 0084 | 0105 | 0165 | 6005 | 0046 | 0266 | 0327 | 0367 | 0408 | 0448 | 174 | 24 | 7093 |
| 16 | 25 | 2 | 0691 | 6131 | 0172 | 0212 | 0952 | 0299 | 0333 | 0373 | 0413 | 0454 | 6494 | 6534 | 6575 | 0615 | 6655 | 6696 | 0736 | 169 | 25 | 9 7604 |
| 17 | 26 | | 0381 | 0401 | 0461 | 6561 | 0541 | 0580 | 0622 | 0660 | 6702 | 0742 | 0780 | 0623 | 6063 | 0903 | 0943 | 0983 | 1624 | 164 | 26 | 6714 |
| 18 | 27 | | 0671 | 0711 | 6751 | 0791 | 0831 | 0871 | 0911 | 0951 | 0991 | 1631 | 1071 | 1111 | 1151 | 1191 | 1231 | 1271 | 1311 | 159 | 27 | 6425 |
| 18 | 28 | | 0961 | 1661 | 1041 | 1680 | 1126 | 1160 | 1200 | 1250 | 1280 | 1320 | 1359 | 1399 | 1439 | 1479 | 1519 | 1550 | 1599 | 154 | 28 | 6135 |
| 19 | 29 | | 1251 | 1291 | 1330 | 1370 | 1416 | 1449 | 1489 | 1529 | 1588 | 1868 | 1648 | 1880 | 1727 | 1767 | 1807 | 1847 | 1086 | 160 | 29 | 5846 |
| 20 | 30 | 2 | 1541 | 1686 | 1620 | 1660 | 1899 | 1739 | 1778 | 1818 | 1857 | 1897 | 1936 | 1976 | 2016 | 0055 | 2095 | 2136 | 0174 | 146 | 30 | 9 5556 |
| 20 | 31 | | 1831 | 1876 | 1910 | 1949 | 1988 | 2028 | 2067 | 9107 | 2146 | 0186 | 2225 | 2064 | 2304 | 2343 | 2383 | 2422 | 0462 | 140 | 31 | 5267 |
| 21 | 32 | | 2121 | 0160 | 2129 | 2239 | 2978 | 9317 | 9356 | 2396 | 9435 | 2474 | 2514 | 2553 | 2590 | 0631 | 2671 | 2710 | 0750 | 135 | 32 | 4977 |
| 22 | 33 | | 2411 | 2450 | 2489 | 2528 | 0567 | 2608 | 2646 | 2685 | 2724 | 2763 | 2860 | 2841 | 2886 | 0920 | 2950 | 2990 | 3037 | 130 | 33 | 4687 |
| 22 | 34 | | 2701 | 2716 | 2779 | 2818 | 2857 | 9896 | 2935 | 2974 | 3013 | 3652 | 3091 | 3130 | 3169 | 3008 | 3247 | 3086 | 3305 | 126 | 34 | 4398 |
| 23 | 35 | 9 | 2991 | 3636 | 3069 | 3107 | 3146 | 3185 | 3224 | 3283 | 3302 | 3346 | 3379 | 3418 | 3457 | 3496 | 3535 | 3574 | 3613 | 121 | 35 | 9 4108 |
| 24 | 36 | | 3001 | 3396 | 3358 | 3397 | 3436 | 3474 | 3513 | 3552 | 3590 | 3609 | 3668 | 3706 | 3745 | 3784 | 3823 | 3861 | 3900 | 116 | 36 | 3819 |
| 24 | 37 | | 3571 | 3609 | 3648 | 3686 | 3725 | 3764 | 3802 | 3841 | 3879 | 3918 | 3956 | 3996 | 4033 | 4079 | 4111 | 4149 | 4188 | 111 | 37 | 3609 |
| 25 | 38 | | 3861 | 3899 | 3936 | 3976 | 4614 | 4053 | 4091 | 4130 | 4168 | 4266 | 4045 | 4263 | 4300 | 4360 | 4399 | 4437 | 4476 | 106 | 38 | 3239 |
| 96 | 39 | | 4151 | 4189 | 4227 | 4266 | 4304 | 4342 | 4380 | 4419 | 1457 | 4495 | 4533 | 4572 | 4610 | 4640 | 4687 | 4705 | 4763 | 101 | 39 | 2950 |
| 96 | 40 | 2 | 4441 | 4479 | 4517 | 4555 | 4593 | 4631 | 4670 | 4708 | 4746 | 4784 | 4822 | 4860 | 4898 | 4937 | 4975 | 5013 | 5061 | 96 | 40 | 9 2660 |
| 27 | 41 | | 4731 | 4769 | 4807 | 4845 | 4883 | 4991 | 4959 | 4997 | 5035 | 5673 | 5111 | 5149 | 5167 | 5205 | 5063 | 5361 | 5339 | 92 | 41 | 2371 |
| 28 | 49 | | 6001 | 5059 | 5097 | 5135 | 5170 | 5010 | 5248 | 5286 | 5324 | 5389 | 5399 | 5437 | 5476 | 5513 | 5551 | 5589 | 6606 | 87 | 40 | 2081 |
| 28 | 43 | | 5311 | 5349 | 5387 | 5404 | 5462 | 5500 | 5537 | 5575 | 5613 | 5650 | 5688 | 5706 | 5763 | 5801 | 5839 | 5676 | 5914 | 82 | 43 | 1791 |
| 29 | 44 | | 5601 | 5639 | 5676 | 5714 | 5751 | 5789 | 5826 | 5864 | 5901 | 5939 | 5976 | 6614 | 6050 | 6069 | 6127 | 6164 | 6069 | 77 | 44 | 1502 |
| 30 | 45 | 2 | 5891 | 5909 | 5966 | 6664 | 6041 | 6078 | 8116 | 6153 | 6196 | 6208 | 6285 | 6303 | 6340 | 6377 | 6415 | 6452 | 6490 | 72 | 45 | 9 1212 |
| 30 | 46 | | 6180 | 6219 | 6256 | 6293 | 6330 | 6368 | 6405 | 6442 | 6479 | 6517 | 6554 | 6591 | 6628 | 6666 | 6703 | 6740 | 6777 | 68 | 46 | 0922 |
| 31 | 47 | | 6479 | 6509 | 6546 | 6583 | 6690 | 6657 | 6694 | 8731 | 6768 | 6805 | 6842 | 6880 | 6917 | 6954 | 6991 | 7028 | 7065 | 63 | 47 | 0633 |
| 32 | 48 | | 6762 | 6799 | 6836 | 6873 | 6909 | 6946 | 6983 | 7020 | 7057 | 7094 | 7131 | 7168 | 7205 | 7242 | 7279 | 7316 | 7363 | 58 | 48 | 0343 |
| 32 | 49 | | 7052 | 7089 | 7125 | 7162 | 7199 | 7236 | 7273 | 7309 | 7346 | 7383 | 7420 | 7457 | 7493 | 7530 | 7667 | 7604 | 7641 | 53 | 49 | 0053 |
| 33 | 50 | 2 | 7342 | 7379 | 7415 | 7452 | 7488 | 7525 | 7569 | 7598 | 7635 | 7672 | 7708 | 7745 | 7789 | 7818 | 7856 | 7890 | 7928 | 48 | 50 | 8 9763 |
| 34 | 51 | | 7632 | 7869 | 7705 | 7741 | 7778 | 7815 | 7851 | 7887 | 7904 | 7981 | 7997 | 8034 | 8070 | 8107 | 8143 | 8180 | 8216 | 43 | 51 | 9474 |
| 34 | 52 | | 7920 | 7959 | 7995 | 8031 | 8068 | 8104 | 8140 | 8177 | 8913 | 8249 | 8286 | 8392 | 8358 | 8395 | 8431 | 8488 | 6504 | 39 | 52 | 9184 |
| 35 | 53 | | 8210 | 8249 | 8285 | 8321 | 8357 | 8393 | 8430 | 8466 | 8502 | 8538 | 8574 | 8611 | 8647 | 8683 | 8719 | 8756 | 8722 | 34 | 53 | 8894 |
| 36 | 54 | | 8502 | 8539 | 8575 | 8611 | 8647 | 8683 | 8719 | 8755 | 8791 | 8827 | 8863 | 8899 | 8935 | 8971 | 9007 | 9644 | 9080 | 29 | 54 | 8605 |
| 36 | 55 | 2 | 8793 | 8829 | 8864 | 8906 | 8936 | 8972 | 9008 | 9044 | 9080 | 9116 | 9152 | 9188 | 9224 | 9960 | 9096 | 9331 | 9367 | 24 | 55 | 8 8315 |
| 37 | 56 | | 9083 | 9119 | 9154 | 9190 | 2296 | 9262 | 9297 | 9333 | 9369 | 2405 | 9440 | 9476 | 9612 | 9548 | 9584 | 9619 | 9655 | 19 | 56 | 8025 |
| 38 | 57 | | 9373 | 9409 | 9444 | 9480 | 9515 | 9551 | 9587 | 9629 | 9658 | 9693 | 9729 | 9765 | 9800 | 9836 | 9872 | 9907 | 9943 | 14 | 57 | 7735 |
| 38 | 58 | 2 (3) | 9683 | 9699 | 9734 | 9769 | 9805 | 9840 | 9876 | 9211 | 9947 | 9982 | 6018 | 0053 | 0089 | 0124 | 0160 | 6195 | 0231 | 10 | 58 | 7416 |
| 39 | 59 | | 9953 | 9989 | 0024 | 0059 | 0094 | 0130 | 0165 | 0901 | 0236 | 0271 | 0307 | 0342 | 0377 | 0413 | 0446 | 0483 | 0519 | 6 | 59 | 7156 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . .} y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar | 85° | | Argumento Auxiliar. 17' | 16' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 1 | 3592 | 3636 | 3680 | 3724 | 3768 | 3012 | 3055 | 3900 | 3944 | 3988 | 4033 | 4877 | 4121 | 4165 | 4209 | 4253 | 4297 |
| 1 | 1 | | 3879 | 3923 | 3967 | 4011 | 4055 | 4099 | 4143 | 4186 | 4230 | 4274 | 4318 | 4362 | 4406 | 4450 | 4494 | 4538 | 1582 |
| 1 | 2 | | 4155 | 4210 | 4254 | 4298 | 4341 | 4385 | 4429 | 4473 | 4517 | 4560 | 4604 | 4648 | 4692 | 4736 | 4780 | 4823 | 4867 |
| 2 | 3 | | 4454 | 4427 | 4541 | 4585 | 4628 | 4572 | 4715 | 4759 | 1803 | 4846 | 4890 | 4934 | 4977 | 6021 | 5065 | 5108 | 5152 |
| 3 | 4 | | 4741 | 4784 | 4828 | 4871 | 4915 | 4958 | 5002 | 5045 | 5089 | 5132 | 5176 | 5219 | 5263 | 5307 | 5350 | 5394 | 5437 |
| 3 | 5 | 1 | 5028 | 5072 | 5115 | 5158 | 5202 | 5245 | 5280 | 5332 | 5375 | 5418 | 5462 | 5505 | 5549 | 5592 | 5635 | 5679 | 5722 |
| 4 | 6 | | 5316 | 5359 | 5482 | 5445 | 5488 | 5532 | 5575 | 5618 | 5661 | 5704 | 5748 | 5791 | 5834 | 5877 | 5921 | 5964 | 6007 |
| 5 | 7 | | 5603 | 5646 | 5689 | 5732 | 5775 | 5818 | 5861 | 5904 | 5947 | 5990 | 6034 | 6077 | 6120 | 6163 | 6206 | 6249 | 6292 |
| 5 | 6 | | 5890 | 5933 | 5976 | 6019 | 6062 | 6105 | 5148 | 5191 | 6234 | 6276 | 6319 | 6362 | 6405 | 6418 | 6491 | 6534 | 6577 |
| 6 | 9 | | 6175 | 6220 | 5263 | 6306 | 6349 | 6391 | 6434 | 6477 | 6520 | 6562 | 6605 | 6648 | 6691 | 6734 | 6776 | 6819 | 6862 |
| 7 | 10 | 1 | 6465 | 6508 | 6550 | 6593 | 6535 | 6678 | 6721 | 6763 | 6806 | 6849 | 6891 | 6934 | 6976 | 7019 | 7062 | 7104 | 7147 |
| 7 | 11 | | 6752 | 5795 | 6837 | 6880 | 6922 | 6965 | 7007 | 7050 | 7092 | 7135 | 7177 | 7220 | 7262 | 7305 | 7347 | 7390 | 7432 |
| 0 | 12 | | 7040 | 7082 | 7124 | 7167 | 7285 | 7251 | 7294 | 7336 | 7378 | 7421 | 7463 | 7505 | 7548 | 7590 | 7632 | 7675 | 7717 |
| 9 | 13 | | 7327 | 7369 | 7412 | 7454 | 7496 | 7538 | 7580 | 7622 | 7664 | 7707 | 7749 | 7791 | 7833 | 7876 | 7910 | 7960 | 8002 |
| 9 | 14 | | 7615 | 7657 | 7699 | 7741 | 7783 | 7825 | 7867 | 7982 | 7951 | 7993 | 8835 | 0077 | 8119 | 8161 | 8203 | 8245 | 8287 |
| 10 | 15 | 1 | 7902 | 7944 | 7286 | 5028 | 0069 | 8111 | 8153 | 8195 | 8237 | 5279 | 8321 | 8363 | 8405 | 8446 | 8488 | 8530 | 8572 |
| 11 | 16 | | 6189 | 8231 | 8273 | 8315 | 8356 | 8398 | 8440 | 8481 | 8523 | 8565 | 8607 | 8648 | 8690 | 8732 | 8774 | 8816 | 8857 |
| 11 | 17 | | 8477 | 8518 | 8560 | 8602 | 8643 | 8685 | 8726 | 0768 | 8809 | 8851 | 8893 | 8934 | 8976 | 9017 | 9059 | 9101 | 9142 |
| 12 | 10 | | 8764 | 8806 | 8847 | 8080 | 8930 | 8971 | 9013 | 9051 | 9096 | 9137 | 9179 | 9220 | 9262 | 9303 | 9344 | 9386 | 9428 |
| 13 | 15 | | 9052 | 9093 | 9134 | 9175 | 9217 | 9250 | 9299 | 9341 | 9382 | 9123 | 9465 | 9506 | 9547 | 9589 | 9630 | 9671 | 9713 |
| 13 | 28 | 1 | 9339 | 9380 | 9421 | 5462 | 9504 | 9545 | 9586 | 9627 | 9668 | 9709 | 9751 | 9792 | 9833 | 9874 | 9915 | 9956 | 9998 |
| 14 | 21 | 1 (2) | 2627 | 9668 | 9708 | 9749 | 9790 | 9831 | 9872 | 9913 | 9954 | 9995 | 0037 | 0077 | 0119 | 0160 | 0201 | 0242 | 0283 |
| 14 | 22 | | 9914 | 5955 | 9996 | 0036 | 0077 | 0110 | 0159 | 0200 | 0241 | 0282 | 0323 | 0363 | 0484 | 0445 | 0486 | 0527 | 0568 |
| 15 | 23 | 2 | 0201 | 0242 | 0283 | 0324 | 0364 | 0405 | 0446 | 8186 | 0527 | 0568 | 0609 | 0649 | 0690 | 0731 | 0771 | 0812 | 0853 |
| 16 | 24 | | 5489 | 0529 | 0570 | 0611 | 0651 | 0692 | 8732 | 0773 | 0813 | 0854 | 0895 | 0935 | 8976 | 1016 | 1857 | 1098 | 1138 |
| 16 | 25 | 2 | 0776 | 0817 | 0857 | 0898 | 0938 | 0970 | 1019 | 1059 | 1100 | 1140 | 1180 | 1221 | 1261 | 1302 | 1342 | 1383 | 1423 |
| 17 | 25 | | 1054 | 1104 | 1144 | 1185 | 1225 | 1265 | 1305 | 1346 | 1386 | 1426 | 1466 | 1507 | 1547 | 1587 | 1528 | 1668 | 1708 |
| 18 | 27 | | 1351 | 1391 | 1431 | 1472 | 1512 | 1552 | 1592 | 1632 | 1672 | 1712 | 1752 | 1793 | 1033 | 1873 | 1913 | 1953 | 1994 |
| 18 | 28 | | 1639 | 1679 | 1719 | 1759 | 1799 | 1839 | 1879 | 1919 | 1959 | 1998 | 2839 | 2079 | 2119 | 2159 | 2199 | 2239 | 2279 |
| 19 | 29 | | 1926 | 1966 | 2806 | 2846 | 2085 | 2125 | 2165 | 2205 | 2245 | 2285 | 2325 | 2364 | 2404 | 2444 | 2484 | 2524 | 2564 |
| 20 | 30 | 2 | 2214 | 2253 | 2293 | 2333 | 2372 | 2412 | 2452 | 2491 | 2531 | 2571 | 2611 | 2650 | 2690 | 2730 | 2769 | 2889 | 2849 |
| 20 | 31 | | 2601 | 2541 | 2580 | 2620 | 2659 | 2699 | 2738 | 2778 | 2818 | 2857 | 2897 | 2936 | 2976 | 3015 | 3855 | 3094 | 3135 |
| 21 | 32 | | 2789 | 2828 | 2868 | 2987 | 2946 | 2986 | 3025 | 3064 | 3104 | 3143 | 3183 | 3222 | 3262 | 3301 | 3340 | 3380 | 3119 |
| 22 | 33 | | 3076 | 3116 | 3155 | 3194 | 3233 | 3272 | 3312 | 3351 | 3390 | 3429 | 3469 | 3508 | 3547 | 3587 | 3626 | 3665 | 3704 |
| 22 | 34 | | 3364 | 3403 | 3442 | 3481 | 3520 | 3552 | 3598 | 3637 | 3677 | 3716 | 3755 | 3794 | 3833 | 3872 | 3911 | 3950 | 3990 |
| 23 | 35 | 2 | 3651 | 3690 | 3722 | 3768 | 3807 | 3816 | 3885 | 3924 | 3963 | 4002 | 4041 | 4000 | 4119 | 4158 | 4197 | 4236 | 4275 |
| 24 | 36 | | 3939 | 3978 | 4017 | 4055 | 4094 | 4133 | 4172 | 1210 | 4249 | 4288 | 4327 | 4366 | 4405 | 4443 | 4482 | 4521 | 4560 |
| 24 | 37 | | 4226 | 4265 | 4384 | 4342 | 4381 | 4420 | 4458 | 4497 | 4536 | 4574 | 4613 | 4652 | 4690 | 4729 | 4768 | 4806 | 4845 |
| 25 | 38 | | 4614 | 4553 | 4591 | 4630 | 4668 | 4707 | 4745 | 4784 | 4822 | 4861 | 4899 | 4938 | 4976 | 5015 | 5053 | 5092 | 5130 |
| 26 | 32 | | 4802 | 4810 | 4878 | 4917 | 4955 | 4293 | 5032 | 5070 | 5108 | 5147 | 5105 | 5224 | 5262 | 5300 | 5339 | 5377 | 6416 |
| 26 | 45 | 2 | 5089 | 5127 | 5166 | 5204 | 5242 | 5288 | 5318 | 5357 | 5395 | 5433 | 5471 | 5509 | 5548 | 5586 | 5624 | 5663 | 5701 |
| 27 | 41 | | 5377 | 6416 | 5453 | 5491 | 5529 | 5667 | 5805 | 5643 | 5601 | 5719 | 5757 | 5795 | 5834 | 5872 | 5910 | 5948 | 5986 |
| 28 | 42 | | 6664 | 5702 | 5740 | 5778 | 5816 | 5854 | 5892 | 5938 | 5968 | 6806 | 6844 | 6081 | 6119 | 6157 | 5195 | 6233 | 6271 |
| 28 | 43 | | 5952 | 5998 | 6827 | 6065 | 6103 | 6141 | 6178 | 6216 | 6254 | 6292 | 6330 | 6367 | 6405 | 6443 | 6481 | 6519 | 6557 |
| 29 | 44 | | 6240 | 6277 | 6315 | 6352 | 6390 | 6428 | 6465 | 6583 | 6540 | 6578 | 6016 | 6653 | 6691 | 6729 | 6766 | 6004 | 6842 |
| 30 | 45 | 2 | 6527 | 6566 | 6602 | 6639 | 6677 | 6714 | 6752 | 6789 | 6827 | 6864 | 6902 | 6939 | 6977 | 7014 | 7852 | 7089 | 7127 |
| 30 | 46 | | 6815 | 6052 | 6889 | 6927 | 6964 | 7001 | 7839 | 7576 | 7113 | 7151 | 7108 | 7225 | 7263 | 7300 | 7338 | 7375 | 7412 |
| 31 | 47 | | 7102 | 7139 | 7177 | 7214 | 7251 | 7288 | 7325 | 7363 | 7480 | 7437 | 7474 | 7511 | 7549 | 7586 | 7623 | 7660 | 7698 |
| 32 | 45 | | 7390 | 7427 | 7464 | 7501 | 7538 | 7575 | 7612 | 7649 | 7686 | 7723 | 7700 | 7797 | 7834 | 7872 | 7909 | 7946 | 7983 |
| 32 | 42 | | 7670 | 7714 | 7761 | 7788 | 7825 | 7062 | 7089 | 7936 | 7973 | 0010 | 0046 | 8083 | 8120 | 8157 | 8194 | 8231 | 8268 |
| 33 | 50 | 2 | 7965 | 8002 | 8039 | 8076 | 8112 | 8149 | 8186 | 8222 | 8259 | 8296 | 8333 | 8369 | 8406 | 8443 | 8480 | 0517 | 8553 |
| 34 | 51 | | 6253 | 8289 | 8326 | 8363 | 8329 | 8436 | 8472 | 8509 | 8546 | 8582 | 8619 | 8656 | 8692 | 0729 | 8765 | 8802 | 8839 |
| 34 | 52 | | 0540 | 8577 | 8613 | 8650 | 8686 | 8723 | 8759 | 8796 | 8832 | 8868 | 8905 | 8941 | 8978 | 9014 | 9051 | 9087 | 9124 |
| 35 | 63 | | 6828 | 8864 | 8901 | 8937 | 8973 | 9010 | 9046 | 9882 | 9118 | 9155 | 9191 | 9227 | 9264 | 9300 | 9336 | 9373 | 9409 |
| 36 | 64 | | 9116 | 9152 | 9180 | 9224 | 9260 | 9296 | 9333 | 9369 | 9405 | 9441 | 9477 | 9513 | 9550 | 9586 | 9622 | 9658 | 9694 |
| 36 | 55 | 2 | 2403 | 9439 | 9475 | 9511 | 9547 | 9583 | 9619 | 9655 | 9691 | 9727 | 9763 | 9800 | 9836 | 9872 | 9908 | 9944 | 9980 |
| 37 | 55 | 2 (3) | 9691 | 9727 | 9763 | 9799 | 9834 | 9870 | 9986 | 9942 | 9978 | 8014 | 0050 | 0086 | 0122 | 6157 | 0193 | 5229 | 0265 |
| 38 | 57 | | 9979 | 0014 | 0550 | 0086 | 0122 | 0157 | 0193 | 8229 | 0264 | 8305 | 0336 | 0372 | 0407 | 6443 | 5479 | 0515 | 8550 |
| 38 | 58 | 3 | 5266 | 0302 | 8338 | 0373 | 0409 | 0444 | 0480 | 0515 | 0551 | 8586 | 0622 | 0658 | 0693 | 0729 | 0765 | 8800 | 0836 |
| 39 | 59 | | 5664 | 0590 | 0625 | 0660 | 0696 | 0731 | 0767 | 0802 | 0837 | 5873 | 0908 | 0944 | 0979 | 1015 | 1850 | 1586 | 1121 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 85° | | Núm. |
|---|---|---|---|
| 0 | 5' | 1 | 2844 |
| 5 | 1 | | 3134 |
| 18 | 2 | | 3424 |
| 11 | 3 | | 3714 |
| 19 | 4 | | 4003 |
| 24 | 6 | 1 | 4293 |
| 29 | 6 | | 4583 |
| 34 | 7 | | 4873 |
| 39 | 8 | | 5163 |
| 43 | 9 | | 5453 |
| 48 | 18 | 1 | 5742 |
| 53 | 11 | | 6032 |
| 58 | 12 | | 6322 |
| 63 | 13 | | 6612 |
| 68 | 14 | | 6902 |
| 72 | 15 | 1 | 7192 |
| 77 | 16 | | 7482 |
| 82 | 17 | | 7772 |
| 87 | 18 | | 8061 |
| 92 | 19 | | 8351 |
| 97 | 20 | 1 | 8641 |
| 101 | 21 | | 8931 |
| 106 | 22 | | 9221 |
| 111 | 23 | | 9511 |
| 116 | 21 | | 9801 |
| 121 | 25 | 2 | 0091 |
| 126 | 26 | | 0381 |
| 138 | 27 | | 0671 |
| 135 | 28 | | 0961 |
| 140 | 29 | | 1251 |
| 145 | 30 | 2 | 1511 |
| 150 | 31 | | 1831 |
| 155 | 32 | | 2121 |
| 159 | 33 | | 2411 |
| 164 | 31 | | 2701 |
| 169 | 35 | 2 | 2991 |
| 174 | 36 | | 3281 |
| 179 | 37 | | 3571 |
| 181 | 38 | | 3861 |
| 188 | 39 | | 4151 |
| 193 | 40 | 2 | 4411 |
| 198 | 41 | | 4731 |
| 203 | 42 | | 5021 |
| 208 | 43 | | 5311 |
| 213 | 44 | | 5601 |
| 217 | 45 | 2 | 5892 |
| 222 | 46 | | 6182 |
| 227 | 47 | | 6472 |
| 232 | 48 | | 6762 |
| 237 | 49 | | 7052 |
| 242 | 60 | 2 | 7342 |
| 246 | 61 | | 7632 |
| 251 | 62 | | 7922 |
| 256 | 53 | | 8212 |
| 261 | 54 | | 0503 |
| 266 | 55 | 2 | 8793 |
| 271 | 56 | | 9063 |
| 275 | 57 | | 9373 |
| 288 | 58 | | 5663 |
| 205 | 59 | | 5953 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 86° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 86° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0' | 3 6244 | 0279 | 0314 | 0349 | 0384 | 0419 | 0454 | 0490 | 0525 | 0560 | 0595 | 0630 | 0666 | 0701 | 0736 | 0774 | 0807 | 290 | 0' | 8 6866 |
| 1 | 1 | 0534 | 0569 | 0604 | 0639 | 0674 | 0709 | 0744 | 0779 | 0814 | 0849 | 0884 | 0919 | 0954 | 0989 | 1024 | 1059 | 1094 | 205 | 1 | 6576 |
| 1 | 2 | 6824 | 0859 | 0894 | 0928 | 0963 | 0998 | 1033 | 1068 | 1103 | 1130 | 1473 | 1200 | 1243 | 4277 | 1312 | 1347 | 1382 | 280 | 2 | 6286 |
| 2 | 3 | 4114 | 1149 | 1183 | 1218 | 1253 | 1288 | 1322 | 1357 | 1399 | 1427 | 1461 | 1496 | 1531 | 1566 | 1601 | 1635 | 1670 | 275 | 3 | 5997 |
| 2 | 4 | 1104 | 1439 | 1473 | 1508 | 1543 | 1577 | 1612 | 1646 | 1681 | 1716 | 1750 | 1785 | 1819 | 1854 | 1889 | 1923 | 1958 | 271 | 4 | 5707 |
| 3 | 9 | 3 4694 | 1729 | 1763 | 1798 | 1832 | 1867 | 1901 | 1936 | 4979 | 2004 | 2039 | 2073 | 2108 | 2142 | 2177 | 2211 | 2216 | 266 | 5 | 8 6417 |
| 3 | 6 | 4985 | 2019 | 2053 | 2087 | 2122 | 2156 | 2190 | 2225 | 2259 | 2293 | 2328 | 2362 | 2396 | 2431 | 2465 | 2499 | 2534 | 261 | 6 | 5127 |
| 4 | 7 | 2275 | 2309 | 2343 | 2377 | 9411 | 2446 | 2480 | 2514 | 2548 | 2582 | 2616 | 2651 | 2685 | 2719 | 2753 | 2787 | 2822 | 256 | 7 | 4837 |
| 4 | 8 | 2565 | 2599 | 9633 | 2667 | 2701 | 9735 | 2769 | 2803 | 2837 | 2871 | 2905 | 2939 | 2973 | 3007 | 3041 | 3075 | 3109 | 251 | 8 | 4547 |
| 9 | 9 | 2855 | 2889 | 2923 | 2957 | 2991 | 3825 | 3058 | 3099 | 3126 | 3160 | 3194 | 3228 | 3262 | 3296 | 3326 | 3363 | 3397 | 246 | 6 | 4250 |
| 9 | 10 | 3 3146 | 3179 | 3213 | 3247 | 3280 | 3314 | 3348 | 3381 | 3415 | 3449 | 3483 | 3516 | 3550 | 3584 | 3618 | 3651 | 3685 | 242 | 10 | 8 3968 |
| 6 | 11 | 3436 | 3469 | 3503 | 3536 | 3570 | 3604 | 3637 | 3671 | 3704 | 3738 | 3771 | 3805 | 3839 | 3872 | 3906 | 3939 | 3973 | 237 | 11 | 3678 |
| 6 | 19 | 3796 | 3759 | 3793 | 3826 | 3860 | 3893 | 3926 | 3960 | 3993 | 4027 | 4060 | 4094 | 4197 | 4161 | 4194 | 4227 | 4261 | 239 | 42 | 3388 |
| 7 | 13 | 4016 | 4050 | 4083 | 4116 | 4149 | 4183 | 4216 | 4249 | 4202 | 4316 | 4349 | 4382 | 4416 | 4449 | 4482 | 4516 | 4549 | 227 | 13 | 3090 |
| 7 | 14 | 4307 | 4340 | 4373 | 4406 | 4439 | 4472 | 4505 | 4538 | 4571 | 4605 | 4638 | 4671 | 4704 | 4737 | 4771 | 4804 | 4837 | 222 | 44 | 2008 |
| 8 | 15 | 3 4597 | 4630 | 4663 | 4696 | 4729 | 4762 | 4795 | 4828 | 4861 | 4894 | 4927 | 4960 | 4993 | 5026 | 5059 | 5092 | 5125 | 217 | 45 | 8 2518 |
| 8 | 19 | 4887 | 4920 | 4653 | 4989 | 5010 | 5051 | 5084 | 5117 | 5150 | 5183 | 5215 | 5248 | 5281 | 5314 | 5347 | 5380 | 5413 | 213 | 46 | 2228 |
| 9 | 17 | 5177 | 5210 | 5243 | 5275 | 5308 | 5341 | 5373 | 5406 | 5439 | 5471 | 5504 | 6537 | 5570 | 5609 | 5635 | 5668 | 5701 | 208 | 47 | 1939 |
| 9 | 18 | 5468 | 5500 | 5533 | 5565 | 5598 | 5630 | 5663 | 5695 | 5728 | 5760 | 5793 | 5829 | 5858 | 5891 | 5923 | 5956 | 5989 | 203 | 48 | 1649 |
| 10 | 19 | 5758 | 5790 | 5823 | 5855 | 5887 | 5920 | 5952 | 5985 | 6017 | 9049 | 6082 | 6114 | 6147 | 6179 | 6212 | 6214 | 6276 | 168 | 49 | 4359 |
| 10 | 20 | 3 6048 | 6080 | 6143 | 6145 | 6177 | 6909 | 6242 | 6274 | 6306 | 6338 | 6371 | 6403 | 6435 | 6460 | 6500 | 6532 | 6564 | 163 | 20 | 8 1069 |
| 11 | 21 | 6339 | 6371 | 6403 | 6435 | 6467 | 6499 | 6531 | 6563 | 6595 | 9627 | 6659 | 6692 | 6724 | 6756 | 6788 | 6820 | 6852 | 188 | 24 | 0779 |
| 11 | 22 | 6629 | 6661 | 6663 | 6725 | 6757 | 6788 | 6821 | 6852 | 6884 | 6916 | 6918 | 6980 | 7012 | 7044 | 7076 | 7108 | 7140 | 484 | 22 | 0489 |
| 19 | 23 | 6919 | 6951 | 6983 | 7014 | 7046 | 7078 | 7110 | 7142 | 7174 | 7205 | 7237 | 7269 | 7301 | 7333 | 7365 | 7396 | 7428 | 179 | 23 | 0199 |
| 12 | 24 | 7209 | 7241 | 7273 | 7304 | 7336 | 7368 | 7399 | 7431 | 7463 | 7494 | 7526 | 7550 | 7589 | 7621 | 7653 | 7685 | 7716 | 174 | 24 | 7 9909 |
| 13 | 25 | 3 7500 | 7531 | 7563 | 7594 | 7626 | 7657 | 7689 | 7720 | 7752 | 7783 | 7015 | 7846 | 7878 | 7910 | 7941 | 7973 | 8004 | 169 | 25 | 7 9619 |
| 13 | 26 | 7790 | 7091 | 7853 | 7884 | 7915 | 7947 | 7978 | 8010 | 8041 | 8079 | 8104 | 8135 | 8167 | 8198 | 8929 | 8261 | 8992 | 164 | 26 | 9329 |
| 14 | 27 | 8080 | 8119 | 8143 | 8174 | 8205 | 8236 | 8268 | 8299 | 8330 | 8361 | 8393 | 8424 | 0455 | 8486 | 8518 | 8549 | 8580 | 159 | 27 | 9039 |
| 14 | 98 | 8371 | 0402 | 8433 | 8464 | 8493 | 8526 | 8557 | 8588 | 8619 | 8650 | 8682 | 8713 | 8744 | 8775 | 8806 | 8837 | 8868 | 155 | 26 | 6749 |
| 45 | 29 | 8661 | 8692 | 8723 | 8754 | 8785 | 8816 | 8847 | 8878 | 8909 | 8939 | 8970 | 9001 | 9032 | 9063 | 9091 | 9195 | 9156 | 150 | 99 | 9459 |
| 16 | 30 | 3 8951 | 8982 | 9013 | 9044 | 9075 | 9105 | 9136 | 9167 | 9198 | 9228 | 9259 | 9290 | 9321 | 9352 | 9383 | 9413 | 9444 | 145 | 30 | 7 8169 |
| 16 | 31 | 9212 | 9272 | 9303 | 9334 | 9364 | 9395 | 9426 | 9456 | 9407 | 9517 | 9548 | 9579 | 9609 | 9640 | 9671 | 9702 | 9732 | 440 | 31 | 7876 |
| 17 | 32 | 3 (4) 9532 | 9563 | 9593 | 9624 | 9654 | 9685 | 9715 | 9745 | 9776 | 9806 | 9837 | 9868 | 9898 | 9929 | 9659 | 9990 | 0020 | 135 | 32 | 7589 |
| 17 | 33 | 9893 | 9863 | 9083 | 9913 | 9914 | 9974 | 0004 | 0035 | 0065 | 0096 | 0126 | 0156 | 0187 | 0217 | 0247 | 0270 | 0308 | 130 | 33 | 7999 |
| 18 | 34 | 4 0113 | 0143 | 0173 | 0903 | 0234 | 0264 | 0294 | 0324 | 0354 | 0385 | 0415 | 0445 | 0475 | 0506 | 0536 | 0566 | 0596 | 126 | 34 | 7009 |
| 18 | 35 | 4 0403 | 0433 | 0463 | 0493 | 0523 | 0553 | 0583 | 0614 | 0644 | 0674 | 0704 | 0734 | 0764 | 0794 | 0824 | 0854 | 0884 | 121 | 35 | 7 6719 |
| 19 | 36 | 0694 | 0794 | 0753 | 0783 | 0813 | 0843 | 0873 | 0903 | 0933 | 0963 | 0993 | 1023 | 1052 | 1082 | 1112 | 1142 | 1172 | 116 | 36 | 6429 |
| 19 | 37 | 0984 | 1014 | 1043 | 1073 | 1103 | 1133 | 1162 | 1192 | 1222 | 1252 | 1282 | 1311 | 1341 | 1371 | 1401 | 1431 | 1460 | 111 | 37 | 0139 |
| 90 | 38 | 1974 | 1304 | 1334 | 1363 | 1393 | 1422 | 1452 | 1482 | 1511 | 1541 | 1570 | 1600 | 1630 | 1659 | 1609 | 1719 | 1740 | 106 | 38 | 6849 |
| 20 | 39 | 1565 | 1594 | 1624 | 1653 | 1683 | 1719 | 1749 | 1771 | 1800 | 1030 | 1859 | 1889 | 1918 | 1948 | 1977 | 2007 | 2036 | 101 | 39 | 5559 |
| 21 | 40 | 4 1055 | 1884 | 1914 | 1943 | 1972 | 2002 | 2031 | 2060 | 2090 | 9119 | 2148 | 2178 | 2207 | 2236 | 2266 | 2295 | 2324 | 67 | 40 | 7 9269 |
| 21 | 41 | 2145 | 2175 | 2204 | 2233 | 2962 | 2261 | 2321 | 2350 | 2379 | 2408 | 2437 | 2466 | 2496 | 2525 | 2554 | 2583 | 2613 | 62 | 41 | 4979 |
| 22 | 42 | 2436 | 2465 | 2494 | 2523 | 2552 | 9581 | 2610 | 2639 | 2668 | 2697 | 2726 | 2755 | 2784 | 9813 | 9849 | 9872 | 2901 | 67 | 42 | 4689 |
| 22 | 43 | 2726 | 2755 | 2784 | 9813 | 2942 | 2871 | 2900 | 2928 | 2957 | 2986 | 3015 | 3044 | 3073 | 3102 | 3131 | 3160 | 3189 | 82 | 43 | 4399 |
| 23 | 44 | 3017 | 3046 | 3074 | 3103 | 3132 | 3160 | 3189 | 3218 | 3247 | 3975 | 3304 | 3333 | 3362 | 3390 | 3419 | 3448 | 3477 | 77 | 44 | 4169 |
| 23 | 45 | 4 3307 | 3336 | 3364 | 3393 | 3421 | 3450 | 3479 | 3507 | 3536 | 3564 | 3593 | 3622 | 3650 | 3679 | 3708 | 3736 | 3765 | 72 | 45 | 7 3818 |
| 24 | 46 | 3568 | 3626 | 3654 | 3683 | 3711 | 3740 | 3768 | 3797 | 3825 | 3053 | 3889 | 3911 | 3939 | 3967 | 3996 | 4024 | 4053 | 68 | 46 | 3520 |
| 24 | 47 | 3008 | 3916 | 3945 | 3973 | 4001 | 4029 | 4058 | 4086 | 4114 | 4143 | 4171 | 4199 | 4228 | 4256 | 4204 | 4313 | 4341 | 93 | 47 | 3236 |
| 25 | 46 | 4178 | 4207 | 4935 | 4263 | 4291 | 4319 | 4347 | 4375 | 4404 | 4432 | 4460 | 4480 | 4516 | 4545 | 4573 | 4601 | 4629 | 60 | 48 | 2948 |
| 25 | 46 | 4469 | 4497 | 4525 | 4553 | 4581 | 4609 | 4637 | 4665 | 4693 | 4721 | 4749 | 4777 | 4005 | 4833 | 4861 | 4889 | 4917 | 53 | 49 | 2658 |
| 29 | 59 | 4 4759 | 4707 | 4815 | 4843 | 4871 | 4899 | 4926 | 4954 | 4982 | 6010 | 5038 | 5066 | 5094 | 5191 | 5149 | 5177 | 5205 | 48 | 90 | 7 2368 |
| 26 | 51 | 6050 | 5077 | 6105 | 5133 | 5161 | 5188 | 5216 | 5244 | 6271 | 6299 | 5327 | 9355 | 5382 | 5410 | 5438 | 5466 | 9493 | 43 | 94 | 2078 |
| 27 | 52 | 9340 | 5368 | 5395 | 5423 | 5450 | 5478 | 5506 | 5533 | 5561 | 5588 | 5516 | 9643 | 5671 | 5699 | 5726 | 5754 | 5781 | 39 | 92 | 1789 |
| 27 | 63 | 9631 | 5658 | 5605 | 5713 | 5740 | 6760 | 5795 | 5823 | 5050 | 5077 | 9905 | 5932 | 5960 | 5987 | 6015 | 6042 | 6070 | 34 | 63 | 4497 |
| 28 | 54 | 9921 | 5648 | 5976 | 6093 | 6030 | 9057 | 6905 | 6112 | 6139 | 6167 | 9194 | 6221 | 6218 | 6276 | 6303 | 6330 | 6358 | 29 | 94 | 1207 |
| 29 | 95 | 4 6212 | 6239 | 6266 | 6293 | 6320 | 6347 | 6374 | 6401 | 6429 | 6456 | 6483 | 6518 | 6537 | 6564 | 6591 | 6619 | 6646 | 24 | 65 | 7 0917 |
| 29 | 96 | 6502 | 6629 | 6556 | 6583 | 6610 | 9937 | 6664 | 6691 | 6718 | 6745 | 6772 | 6799 | 6826 | 6853 | 6279 | 9907 | 6934 | 19 | 66 | 0627 |
| 29 | 57 | 6793 | 6819 | 6846 | 6873 | 9900 | 6927 | 6653 | 6980 | 7007 | 7934 | 7061 | 7088 | 7115 | 7141 | 7468 | 7195 | 7222 | 14 | 97 | 0337 |
| 30 | 58 | 7983 | 7110 | 7139 | 7193 | 7190 | 7216 | 7243 | 7270 | 7296 | 7323 | 7350 | 7377 | 7403 | 7430 | 7457 | 7483 | 7510 | 10 | 58 | 0047 |
| 39 | 99 | 7374 | 7400 | 7427 | 7453 | 7480 | 7506 | 7533 | 7599 | 7586 | 7612 | 7639 | 7666 | 7692 | 7716 | 7745 | 7772 | 7790 | 9 | 59 | 9 9759 |

**TABLA X.** Numero I para la suma de alturas aparentes y Numero III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 86° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 86° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 6′ | 3 6842 | 0877 | 0212 | 0940 | 0983 | 1018 | 1053 | 1009 | 1124 | 1159 | 1125 | 1230 | 1265 | 1300 | 1336 | 1371 | 1407 | 0 | 0′ | 3 0244 |
| 1 | 1 | 1129 | 1165 | 1200 | 1235 | 1270 | 1305 | 1340 | 1375 | 1410 | 1446 | 1481 | 1516 | 1551 | 1586 | 1621 | 1657 | 1692 | 5 | 1 | 0534 |
| 1 | 2 | 1417 | 1452 | 1487 | 1522 | 1557 | 1592 | 1627 | 1662 | 1697 | 1732 | 1767 | 1802 | 1837 | 1872 | 1907 | 1942 | 1977 | 10 | 2 | 0821 |
| 2 | 3 | 1705 | 1740 | 1774 | 1809 | 1844 | 1872 | 1914 | 1949 | 1984 | 2010 | 2053 | 2088 | 2123 | 2158 | 2193 | 2228 | 2263 | 15 | 3 | 1114 |
| 2 | 4 | 1923 | 2027 | 2062 | 2097 | 2131 | 2166 | 2201 | 2235 | 2270 | 2305 | 2332 | 2374 | 2409 | 2444 | 2478 | 2513 | 2548 | 19 | 4 | 1404 |
| 3 | 5 | 3 2280 | 2315 | 2349 | 2384 | 2418 | 2453 | 2488 | 2522 | 2557 | 2591 | 2626 | 2660 | 2695 | 2729 | 2764 | 2799 | 2833 | 24 | 6 | 3 1694 |
| 3 | 6 | 2568 | 2602 | 2637 | 2671 | 2705 | 2740 | 2774 | 2809 | 2843 | 2878 | 2912 | 2946 | 2981 | 3015 | 3050 | 3084 | 3119 | 29 | 6 | 1985 |
| 4 | 7 | 2056 | 2890 | 2924 | 2250 | 2923 | 3027 | 3061 | 3095 | 3130 | 3164 | 3128 | 3233 | 3267 | 3301 | 3335 | 3370 | 3104 | 31 | 7 | 2275 |
| 4 | 6 | 3144 | 3178 | 3212 | 3246 | 3280 | 3314 | 3348 | 3382 | 3416 | 3450 | 3485 | 3512 | 3553 | 3587 | 3621 | 3655 | 3689 | 39 | 8 | 2565 |
| 5 | 9 | 3431 | 3465 | 3492 | 3533 | 3567 | 3601 | 3635 | 3669 | 3703 | 3737 | 3771 | 3805 | 3832 | 3873 | 3907 | 3941 | 3975 | 44 | 2 | 2855 |
| 5 | 10 | 3 3712 | 3753 | 3787 | 3020 | 3854 | 3888 | 3922 | 3956 | 3989 | 4023 | 4057 | 4091 | 4125 | 4152 | 4192 | 4226 | 4260 | 48 | 10 | 3 3146 |
| 6 | 11 | 4007 | 4040 | 4074 | 4108 | 4141 | 4175 | 4209 | 4242 | 4276 | 4310 | 4343 | 4377 | 4411 | 4444 | 4478 | 4512 | 4546 | 53 | 11 | 3436 |
| 6 | 12 | 4294 | 4328 | 4361 | 4395 | 4429 | 4462 | 4496 | 4529 | 4563 | 4596 | 4630 | 4663 | 4697 | 1730 | 4764 | 4797 | 4831 | 58 | 12 | 3726 |
| 7 | 13 | 4582 | 4616 | 4649 | 4682 | 4716 | 4749 | 4782 | 4816 | 4849 | 4883 | 4916 | 4949 | 4983 | 5016 | 5050 | 5083 | 5116 | 63 | 13 | 4016 |
| 7 | 14 | 4870 | 4203 | 4236 | 4270 | 5003 | 5036 | 5062 | 5103 | 5136 | 5169 | 5202 | 5236 | 5259 | 5302 | 5335 | 5369 | 5402 | 68 | 14 | 4307 |
| 0 | 15 | 3 6158 | 5191 | 6224 | 5257 | 6290 | 5323 | 5356 | 5390 | 5422 | 5455 | 5489 | 5522 | 5555 | 5588 | 5621 | 5654 | 5687 | 73 | 15 | 3 4597 |
| 8 | 16 | 5446 | 5479 | 5511 | 5544 | 5577 | 5610 | 5643 | 5677 | 5709 | 6742 | 5775 | 5808 | 5841 | 5874 | 5907 | 5240 | 5973 | 77 | 16 | 4887 |
| 9 | 17 | 6733 | 5766 | 5799 | 5832 | 5864 | 5827 | 5930 | 5963 | 5996 | 6028 | 6061 | 6094 | 6127 | 6160 | 6192 | 6225 | 5258 | 82 | 17 | 5177 |
| 9 | 18 | 6021 | 6054 | 6086 | 6112 | 6152 | 6184 | 6217 | 6250 | 6282 | 6315 | 6348 | 6380 | 6413 | 6445 | 6478 | 6511 | 6544 | 87 | 18 | 5468 |
| 10 | 19 | 6302 | 6341 | 6374 | 6406 | 6432 | 6471 | 6504 | 6536 | 6569 | 6601 | 6634 | 6666 | 6692 | 6731 | 5754 | 6796 | 6829 | 92 | 19 | 6758 |
| 10 | 20 | 3 6527 | 6629 | 6661 | 6624 | 6726 | 6758 | 6791 | 6823 | 6855 | 6888 | 6920 | 6953 | 6986 | 7017 | 7050 | 7082 | 7114 | 97 | 20 | 3 6048 |
| 11 | 21 | 6885 | 6217 | 6249 | 5981 | 7013 | 7046 | 7078 | 7110 | 7142 | 7174 | 7206 | 7232 | 7271 | 7303 | 7335 | 7368 | 7400 | 102 | 21 | 5339 |
| 11 | 22 | 7172 | 7204 | 7235 | 7268 | 7300 | 7333 | 7365 | 7397 | 7429 | 7461 | 7493 | 7625 | 7557 | 7589 | 7621 | 7653 | 7685 | 106 | 22 | 6629 |
| 12 | 23 | 7460 | 7422 | 7524 | 7555 | 7588 | 7620 | 7652 | 7683 | 7715 | 7747 | 7772 | 7811 | 7843 | 7875 | 7207 | 7939 | 7971 | 111 | 23 | 6912 |
| 12 | 24 | 7748 | 7780 | 7811 | 7843 | 7874 | 7907 | 7238 | 7970 | 8002 | 8034 | 8065 | 8097 | 8129 | 8161 | 8123 | 8225 | 8256 | 116 | 21 | 7209 |
| 13 | 26 | 3 8036 | 8067 | 8099 | 8131 | 8162 | 8194 | 8225 | 8257 | 8289 | 8320 | 8352 | 8383 | 8115 | 8447 | 8478 | 8510 | 8542 | 121 | 25 | 3 7500 |
| 13 | 26 | 8324 | 8356 | 8387 | 8418 | 8449 | 8481 | 8512 | 8544 | 8575 | 8607 | 8638 | 8670 | 8701 | 8733 | 8764 | 8726 | 8827 | 126 | 26 | 7790 |
| 14 | 27 | 8611 | 8643 | 8674 | 8705 | 8737 | 8768 | 8799 | 8831 | 8862 | 0893 | 8925 | 8256 | 8987 | 9012 | 9050 | 9081 | 9113 | 131 | 27 | 8080 |
| 14 | 20 | 8899 | 0936 | 0962 | 8923 | 9024 | 9055 | 9086 | 9117 | 9149 | 9180 | 9211 | 9242 | 2273 | 9305 | 9336 | 2367 | 2398 | 136 | 28 | 8371 |
| 15 | 29 | 9187 | 9218 | 2249 | 9280 | 9311 | 9342 | 2373 | 9404 | 9435 | 2466 | 2427 | 9528 | 2550 | 9591 | 9622 | 9653 | 9684 | 140 | 29 | 8661 |
| 16 | 30 | 3 9476 | 9506 | 9537 | 2568 | 9598 | 9629 | 9660 | 9691 | 9722 | 2753 | 2784 | 9815 | 9846 | 9877 | 2907 | 9938 | 2969 | 145 | 30 | 3 8951 |
| 16 | 31 | 3 (4) 9763 | 9724 | 9824 | 9855 | 9886 | 9216 | 9947 | 2278 | 0002 | 0039 | 0070 | 0101 | 0132 | 0162 | 0193 | 0224 | 0255 | 150 | 31 | 9242 |
| 17 | 32 | 4 0051 | 0001 | 0112 | 0142 | 0173 | 0204 | 0234 | 0265 | 0295 | 0326 | 0357 | 0387 | 0410 | 0440 | 0479 | 0510 | 0540 | 155 | 32 | 9532 |
| 17 | 33 | 0332 | 0362 | 0322 | 0430 | 0450 | 0491 | 0521 | 0552 | 0582 | 0612 | 0643 | 0673 | 0704 | 0734 | 0765 | 0725 | 0826 | 160 | 33 | 9823 |
| 18 | 34 | 6625 | 0657 | 0687 | 0717 | 0748 | 0778 | 0808 | 0838 | 0869 | 0899 | 0222 | 0260 | 0990 | 1020 | 1051 | 1081 | 1111 | 165 | 34 | 4 0113 |
| 10 | 35 | 4 0914 | 0244 | 0975 | 1005 | 1035 | 1065 | 1095 | 1125 | 1155 | 1186 | 1216 | 1246 | 1276 | 1306 | 1336 | 1367 | 1327 | 162 | 35 | 4 0403 |
| 12 | 36 | 1202 | 1232 | 1262 | 1222 | 1322 | 1352 | 1382 | 1412 | 1442 | 1472 | 1502 | 1532 | 1562 | 1592 | 1622 | 1652 | 1682 | 174 | 36 | 0694 |
| 19 | 37 | 1490 | 1520 | 1550 | 1500 | 1610 | 1639 | 1662 | 1692 | 1722 | 1752 | 1782 | 1818 | 1840 | 1878 | 1200 | 1938 | 1968 | 172 | 37 | 0984 |
| 20 | 38 | 1778 | 1808 | 1837 | 1067 | 1897 | 1927 | 1966 | 1986 | 2016 | 2046 | 2075 | 2105 | 2134 | 2164 | 2124 | 2224 | 2253 | 184 | 38 | 1274 |
| 20 | 39 | 2066 | 2096 | 2125 | 2155 | 2104 | 2214 | 2243 | 2273 | 2302 | 2332 | 2361 | 2321 | 2421 | 2460 | 2480 | 2502 | 2532 | 189 | 39 | 1565 |
| 21 | 40 | 4 2354 | 2383 | 2413 | 2442 | 2471 | 2501 | 2530 | 2560 | 2682 | 2610 | 2640 | 2677 | 2707 | 2735 | 2766 | 2795 | 2024 | 194 | 40 | 4 1855 |
| 21 | 41 | 2542 | 2671 | 2700 | 2730 | 2759 | 2788 | 2817 | 2846 | 2876 | 2905 | 2934 | 2964 | 2293 | 3022 | 3051 | 3081 | 3110 | 129 | 41 | 2146 |
| 22 | 42 | 2230 | 2269 | 2988 | 3017 | 3046 | 3075 | 3104 | 3133 | 3162 | 3122 | 3221 | 3250 | 3272 | 3300 | 3337 | 3366 | 3326 | 203 | 42 | 2436 |
| 22 | 43 | 3218 | 3247 | 3275 | 3304 | 3333 | 3352 | 3391 | 3420 | 3449 | 3478 | 3507 | 3536 | 3555 | 3524 | 3623 | 3652 | 3601 | 208 | 43 | 2726 |
| 23 | 44 | 3505 | 3534 | 3563 | 3622 | 3621 | 3660 | 3570 | 3707 | 3736 | 3765 | 3794 | 3823 | 3851 | 3880 | 3909 | 3938 | 3967 | 213 | 44 | 3017 |
| 23 | 46 | 4 3793 | 3822 | 3851 | 3879 | 3200 | 3937 | 3255 | 3924 | 4023 | 4051 | 4000 | 4102 | 4130 | 4166 | 4195 | 4224 | 4252 | 218 | 45 | 4 3307 |
| 24 | 46 | 4081 | 4110 | 4130 | 4167 | 4195 | 4224 | 4252 | 4281 | 4310 | 4330 | 4357 | 4395 | 4424 | 4452 | 4481 | 4502 | 4538 | 223 | 46 | 3528 |
| 24 | 47 | 4362 | 4328 | 4426 | 4454 | 4483 | 4511 | 4639 | 4558 | 4626 | 4625 | 4653 | 4681 | 4710 | 4738 | 4757 | 4725 | 4823 | 228 | 47 | 3888 |
| 25 | 46 | 4657 | 4685 | 4714 | 4742 | 4770 | 4798 | 4827 | 4855 | 4883 | 4211 | 4940 | 4268 | 4926 | 5024 | 5653 | 5081 | 5109 | 232 | 48 | 4178 |
| 25 | 49 | 4245 | 4973 | 5001 | 5029 | 5057 | 5006 | 5114 | 5142 | 5170 | 5128 | 5226 | 5254 | 5282 | 5310 | 5338 | 5367 | 5325 | 237 | 49 | 4469 |
| 25 | 60 | 4 6233 | 5261 | 5282 | 5317 | 5345 | 5373 | 5401 | 6422 | 5457 | 5404 | 5612 | 5540 | 5568 | 5525 | 6624 | 5652 | 5600 | 242 | 50 | 4 4762 |
| 25 | 51 | 6521 | 5542 | 5577 | 5604 | 5632 | 5660 | 5688 | 5716 | 5743 | 6771 | 6799 | 5827 | 5855 | 5082 | 5910 | 5938 | 5255 | 247 | 51 | 6050 |
| 27 | 52 | 5809 | 5037 | 5054 | 5822 | 5920 | 5947 | 5975 | 6002 | 6030 | 6050 | 6085 | 6113 | 6141 | 6168 | 6126 | 6224 | 6252 | 252 | 52 | 5340 |
| 27 | 53 | 6097 | 6125 | 6152 | 6172 | 6207 | 6234 | 6262 | 6289 | 6317 | 6344 | 5372 | 6399 | 6427 | 6454 | 6482 | 6510 | 6537 | 257 | 53 | 5631 |
| 28 | 54 | 6385 | 6412 | 6440 | 6467 | 5494 | 6622 | 6542 | 6576 | 6604 | 6631 | 6658 | 6686 | 6713 | 6741 | 6768 | 6795 | 6823 | 261 | 54 | 5221 |
| 28 | 55 | 4 6673 | 6700 | 6727 | 6765 | 6782 | 6809 | 6836 | 6863 | 6090 | 6218 | 6945 | 6972 | 6999 | 7027 | 7054 | 7081 | 7108 | 266 | 65 | 4 6212 |
| 29 | 56 | 6951 | 6988 | 7016 | 7042 | 7062 | 7096 | 7123 | 7150 | 7177 | 7204 | 7231 | 7252 | 7285 | 7313 | 7340 | 7367 | 7324 | 271 | 55 | 6502 |
| 30 | 57 | 7249 | 7276 | 7303 | 7330 | 7357 | 7383 | 7410 | 7437 | 7464 | 7491 | 7518 | 7646 | 7672 | 7699 | 7626 | 7653 | 7680 | 276 | 57 | 6793 |
| 30 | 58 | 7537 | 7564 | 7590 | 7517 | 7544 | 7571 | 7597 | 7724 | 7751 | 7778 | 7805 | 7631 | 7858 | 7805 | 7912 | 7930 | 7965 | 201 | 50 | 7083 |
| 31 | 59 | 7825 | 7861 | 7878 | 7905 | 7931 | 7258 | 7986 | 0011 | 0038 | 0064 | 0091 | 8118 | 8144 | 8171 | 8198 | 8224 | 8251 | 285 | 59 | 7374 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 87° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 87° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5' | 4 | 7664 | 7695 | 7717 | 7743 | 7769 | 7796 | 7822 | 7849 | 7875 | 7902 | 7228 | 7954 | 7281 | 8057 | 8034 | 8060 | 8585 | 295 | 0' | 6 9406 |
| 0 | 1 | | 7955 | 7981 | 8067 | 8033 | 8059 | 8060 | 6112 | 8138 | 6164 | 6191 | 8217 | 8243 | 8259 | 6295 | 6322 | 8348 | 8375 | 286 | 1 | 9175 |
| 1 | 2 | | 8245 | 8271 | 8297 | 8323 | 8349 | 8375 | 8401 | 8428 | 8454 | 8480 | 8506 | 8532 | 8558 | 8584 | 8018 | 8537 | 8663 | 281 | 2 | 8885 |
| 1 | 3 | | 8535 | 8501 | 8587 | 8013 | 8539 | 8065 | 8691 | 8717 | 8743 | 8709 | 8795 | 6821 | 8647 | 8873 | 8699 | 8925 | 8251 | 270 | 3 | 8595 |
| 2 | 4 | | 8826 | 8852 | 8878 | 8963 | 8929 | 8955 | 8981 | 9907 | 9032 | 2858 | 9084 | 9110 | 9136 | 9162 | 9187 | 9213 | 9239 | 271 | 4 | 8305 |
| 2 | 5 | 4 | 9115 | 9142 | 9168 | 9193 | 9219 | 9245 | 9276 | 9296 | 9322 | 9347 | 9373 | 9399 | 9424 | 9450 | 2475 | 2501 | 2527 | 206 | 6 | 6 8915 |
| 2 | 6 | | 9407 | 9432 | 9458 | 9484 | 9509 | 9535 | 9560 | 9586 | 9611 | 9637 | 9652 | 9588 | 9713 | 9732 | 2764 | 2790 | 9615 | 251 | 6 | 7725 |
| 3 | 7 | 4 (6) | 9697 | 9723 | 9748 | 9774 | 9799 | 9824 | 9850 | 9875 | 9900 | 9926 | 9951 | 9977 | 8802 | 0027 | 0053 | 8678 | 0104 | 257 | 7 | 7435 |
| 3 | 8 | | 9988 | 6913 | 0038 | 0064 | 0089 | 8114 | 0139 | 0105 | 0190 | 0215 | 0240 | 0205 | 0291 | 0310 | 0341 | 0356 | 0392 | 252 | 8 | 7145 |
| 3 | 9 | 5 | 0279 | 0304 | 0329 | 0354 | 6379 | 0404 | 0429 | 0454 | 0479 | 0504 | 0529 | 0554 | 9579 | 0605 | 0530 | 0655 | 0689 | 247 | 9 | 6854 |
| 4 | 10 | 5 | 0569 | 0594 | 8019 | 0644 | 8569 | 9094 | 8719 | 0744 | 0769 | 8793 | 0818 | 0843 | 0868 | 0893 | 8918 | 0943 | 0968 | 242 | 15 | 6 6564 |
| 4 | 11 | | 0866 | 0884 | 0909 | 0934 | 0959 | 0983 | 1008 | 1033 | 1058 | 1083 | 1107 | 1132 | 1157 | 1182 | 1200 | 1231 | 1255 | 237 | 11 | 5274 |
| 4 | 12 | | 1150 | 1175 | 1199 | 1224 | 1249 | 1273 | 1298 | 1323 | 1347 | 1372 | 1396 | 1421 | 1440 | 1471 | 1495 | 1520 | 1544 | 232 | 12 | 5984 |
| 5 | 13 | | 1441 | 1405 | 1490 | 1514 | 1539 | 1563 | 1588 | 1612 | 1637 | 1661 | 1686 | 1710 | 1735 | 1759 | 1784 | 1808 | 1833 | 228 | 13 | 5693 |
| 5 | 14 | | 1731 | 1756 | 1780 | 1864 | 1629 | 1853 | 1877 | 1902 | 1926 | 1950 | 1975 | 1999 | 2023 | 2048 | 2072 | 2097 | 2121 | 223 | 14 | 6403 |
| 6 | 15 | 5 | 2822 | 2045 | 2076 | 2094 | 2119 | 2143 | 2107 | 2191 | 2215 | 2240 | 2264 | 2288 | 2312 | 2330 | 2361 | 2385 | 2409 | 218 | 15 | 5 6113 |
| 6 | 16 | | 2312 | 2336 | 2300 | 2384 | 2408 | 2433 | 2457 | 2481 | 2595 | 2529 | 2553 | 2577 | 2081 | 2625 | 2549 | 2073 | 2697 | 213 | 16 | 4823 |
| 6 | 17 | | 2603 | 2627 | 2651 | 2675 | 2698 | 2722 | 2746 | 2770 | 2794 | 2818 | 2642 | 2860 | 2890 | 2914 | 2938 | 2952 | 2986 | 268 | 17 | 4532 |
| 7 | 18 | | 2894 | 2917 | 2941 | 2965 | 2988 | 3012 | 3036 | 3900 | 3683 | 3107 | 3131 | 3155 | 3179 | 3202 | 3226 | 3250 | 3274 | 203 | 18 | 4242 |
| 7 | 19 | | 3184 | 3268 | 3231 | 3255 | 3278 | 3302 | 3326 | 3349 | 3373 | 3396 | 3420 | 3444 | 3467 | 3491 | 3515 | 3536 | 3562 | 199 | 12 | 3952 |
| 7 | 20 | 5 | 3475 | 3498 | 3522 | 3545 | 3568 | 3592 | 3615 | 3639 | 3662 | 3586 | 3709 | 3733 | 3756 | 3780 | 3803 | 3827 | 3850 | 194 | 25 | 0 3001 |
| 8 | 21 | | 3765 | 3788 | 3812 | 3835 | 3858 | 3882 | 3905 | 3928 | 3952 | 3975 | 3998 | 4022 | 4045 | 4068 | 4892 | 4115 | 4138 | 189 | 21 | 3371 |
| 8 | 22 | | 4056 | 4079 | 4192 | 4125 | 4148 | 4172 | 4195 | 4218 | 4242 | 4264 | 4287 | 4311 | 4334 | 4357 | 4380 | 4403 | 4427 | 184 | 22 | 3081 |
| 8 | 23 | | 4346 | 4369 | 4392 | 4415 | 4438 | 4401 | 4484 | 4507 | 4531 | 4554 | 4577 | 4609 | 4623 | 4546 | 4069 | 4022 | 4715 | 179 | 23 | 2791 |
| 9 | 24 | | 4637 | 4660 | 4683 | 4756 | 4728 | 4751 | 4774 | 4797 | 4829 | 4843 | 4866 | 4889 | 4911 | 4934 | 4957 | 4980 | 5003 | 174 | 24 | 2505 |
| 9 | 25 | 5 | 4928 | 4950 | 4973 | 4996 | 5018 | 5041 | 5064 | 5087 | 5109 | 5132 | 5155 | 5178 | 5260 | 5223 | 5246 | 5259 | 5291 | 169 | 25 | 6 2210 |
| 10 | 26 | | 5218 | 5241 | 5263 | 5280 | 5306 | 5331 | 5354 | 5370 | 5399 | 5421 | 5444 | 5467 | 5489 | 5512 | 5534 | 5557 | 5580 | 165 | 26 | 1920 |
| 10 | 27 | | 5502 | 5531 | 5554 | 5576 | 5598 | 5621 | 5643 | 5666 | 5088 | 5711 | 5733 | 5756 | 5778 | 5800 | 5823 | 5845 | 5868 | 160 | 27 | 1622 |
| 10 | 28 | | 5799 | 5822 | 5844 | 5806 | 5888 | 5911 | 5933 | 5955 | 5978 | 0005 | 6922 | 6045 | 0007 | 6089 | 0111 | 6134 | 6156 | 155 | 26 | 1332 |
| 11 | 29 | | 0990 | 6112 | 6134 | 6156 | 6178 | 6261 | 6223 | 6245 | 6267 | 6289 | 6311 | 6334 | 0356 | 6378 | 6400 | 6422 | 6444 | 150 | 29 | 1049 |
| 11 | 30 | 5 | 5381 | 6493 | 6425 | 6447 | 6409 | 6490 | 6512 | 6535 | 6556 | 6579 | 6000 | 6623 | 6645 | 6607 | 6089 | 6711 | 6733 | 145 | 35 | 6 0758 |
| 11 | 31 | | 6571 | 0093 | 6715 | 6737 | 6759 | 6780 | 6862 | 0824 | 0846 | 6668 | 6890 | 6912 | 0933 | 0955 | 6977 | 6999 | 7021 | 148 | 31 | 0408 |
| 12 | 32 | | 6962 | 6983 | 7005 | 7027 | 7649 | 7070 | 7092 | 7114 | 7135 | 7157 | 7179 | 7201 | 7222 | 7244 | 7200 | 7287 | 7309 | 130 | 32 | 0177 |
| 12 | 33 | | 7252 | 7274 | 7295 | 7317 | 7339 | 7360 | 7382 | 7403 | 7425 | 7446 | 7468 | 7490 | 7511 | 7533 | 7554 | 7576 | 7597 | 131 | 33 | 5 2887 |
| 13 | 34 | | 7543 | 7564 | 7586 | 7607 | 7629 | 7650 | 7671 | 7093 | 7714 | 7735 | 7757 | 7779 | 7806 | 7821 | 7843 | 7864 | 7880 | 126 | 34 | 9597 |
| 13 | 35 | 5 | 7834 | 7855 | 7870 | 7897 | 7919 | 7940 | 7961 | 7982 | 8004 | 8025 | 8046 | 8058 | 8689 | 8110 | 8131 | 8153 | 8174 | 121 | 35 | 5 9305 |
| 13 | 36 | | 8124 | 8145 | 8160 | 8187 | 8209 | 8230 | 8251 | 8272 | 8293 | 8314 | 8335 | 6357 | 8378 | 8399 | 8420 | 8441 | 8452 | 116 | 35 | 2010 |
| 14 | 37 | | 8415 | 8436 | 8457 | 8478 | 8499 | 8520 | 8541 | 5502 | 8583 | 8604 | 8625 | 5646 | 8667 | 8688 | 8709 | 8730 | 8751 | 111 | 37 | 8725 |
| 14 | 38 | | 8706 | 8720 | 8747 | 8708 | 8789 | 8810 | 8831 | 8851 | 8872 | 8823 | 8914 | 8935 | 8955 | 8970 | 8997 | 9018 | 9039 | 106 | 38 | 8435 |
| 14 | 39 | | 8990 | 9017 | 9038 | 9058 | 9079 | 9100 | 9120 | 9141 | 9162 | 9182 | 9203 | 9224 | 9244 | 9205 | 9286 | 9306 | 9327 | 102 | 39 | 8145 |
| 15 | 40 | 5 | 2287 | 9307 | 9328 | 9348 | 9359 | 9389 | 9410 | 9431 | 9451 | 9472 | 9492 | 2513 | 9533 | 9554 | 9574 | 9595 | 9015 | 97 | 48 | 5 7854 |
| 15 | 41 | | 2578 | 9598 | 9618 | 9639 | 9059 | 9679 | 9700 | 9720 | 9741 | 9761 | 9781 | 9802 | 9822 | 9843 | 9863 | 9883 | 9904 | 92 | 41 | 7504 |
| 15 | 42 | 5 (6) | 2808 | 9885 | 9989 | 9929 | 9949 | 9909 | 9990 | 0810 | 0038 | 0050 | 0071 | 0091 | 0111 | 0131 | 8152 | 0172 | 8192 | 87 | 42 | 7274 |
| 15 | 43 | 6 | 0159 | 0179 | 0199 | 0219 | 6239 | 0259 | 0279 | 0299 | 0320 | 0340 | 5365 | 0388 | 8400 | 0420 | 0440 | 8400 | 0480 | 82 | 43 | 5983 |
| 10 | 44 | | 0450 | 0409 | 0489 | 0509 | 6529 | 0549 | 0509 | 0589 | 0609 | 0629 | 0649 | 8609 | 0089 | 0709 | 0729 | 8749 | 0769 | 77 | 44 | 6593 |
| 17 | 45 | 6 | 0740 | 0700 | 0780 | 0860 | 0819 | 0839 | 8859 | 0879 | 0898 | 0918 | 6938 | 0958 | 0978 | 0998 | 1817 | 1037 | 1057 | 73 | 45 | 6 6402 |
| 17 | 46 | | 1831 | 1050 | 1870 | 1090 | 1109 | 1129 | 1149 | 1168 | 1188 | 1208 | 1227 | 1247 | 1207 | 1280 | 1306 | 1326 | 1345 | 68 | 46 | 6112 |
| 17 | 47 | | 1321 | 1341 | 1360 | 1380 | 1399 | 1419 | 1438 | 1458 | 1478 | 1497 | 1516 | 1535 | 1556 | 1575 | 1595 | 1614 | 1034 | 63 | 47 | 5822 |
| 18 | 48 | | 1612 | 1631 | 1051 | 1070 | 1696 | 1709 | 1728 | 1748 | 1707 | 1786 | 1806 | 1825 | 1844 | 1804 | 1883 | 1903 | 1922 | 58 | 48 | 6531 |
| 18 | 49 | | 1983 | 1922 | 1941 | 1960 | 1980 | 1999 | 2018 | 2037 | 2057 | 2076 | 2095 | 2114 | 2133 | 2153 | 2172 | 2191 | 2210 | 53 | 49 | 5241 |
| 18 | 50 | 0 | 2193 | 2213 | 2232 | 2251 | 2270 | 2289 | 2308 | 2327 | 2345 | 2305 | 2384 | 2403 | 2422 | 2441 | 2408 | 2480 | 2499 | 48 | 50 | 5 4958 |
| 12 | 51 | | 2484 | 2503 | 2522 | 2541 | 2560 | 2579 | 2598 | 2017 | 2630 | 2654 | 2673 | 2092 | 2711 | 2730 | 2749 | 2708 | 2787 | 44 | 51 | 4000 |
| 19 | 52 | | 2775 | 2794 | 2812 | 2831 | 2850 | 2869 | 2887 | 2906 | 2925 | 2944 | 2963 | 2981 | 3000 | 3819 | 3038 | 3057 | 3075 | 39 | 52 | 4362 |
| 12 | 63 | | 3000 | 3084 | 3103 | 3121 | 3140 | 3159 | 3177 | 3196 | 3215 | 3233 | 3252 | 3270 | 3289 | 3388 | 3320 | 3345 | 3304 | 34 | 53 | 4072 |
| 28 | 54 | | 3356 | 3375 | 3393 | 3412 | 3430 | 3442 | 3467 | 3486 | 3504 | 3523 | 3541 | 3559 | 3578 | 3597 | 3015 | 3534 | 3652 | 29 | 54 | 3788 |
| 20 | 55 | 0 | 3647 | 3005 | 3084 | 3702 | 3720 | 3739 | 3757 | 3775 | 3794 | 3812 | 3830 | 3849 | 3867 | 3885 | 3904 | 3922 | 3940 | 24 | 65 | 5 3428 |
| 21 | 56 | | 3938 | 3950 | 3974 | 3992 | 4018 | 4029 | 4047 | 4005 | 4083 | 4101 | 4119 | 4138 | 4150 | 4174 | 4192 | 4211 | 4222 | 19 | 66 | 3207 |
| 21 | 57 | | 4228 | 4240 | 4204 | 4282 | 4300 | 4318 | 4337 | 4355 | 4373 | 4391 | 4409 | 4427 | 4445 | 4403 | 4481 | 4499 | 4517 | 15 | 57 | 2917 |
| 21 | 58 | | 4519 | 4537 | 4555 | 4573 | 4591 | 4008 | 4626 | 4044 | 4602 | 4580 | 4698 | 4716 | 4734 | 4752 | 4770 | 4787 | 4805 | 10 | 55 | 2025 |
| 22 | 59 | | 4810 | 4827 | 4845 | 4863 | 4881 | 4898 | 4910 | 4934 | 4952 | 4909 | 4987 | 5805 | 5023 | 5840 | 5058 | 5076 | 5094 | 6 | 58 | 2335 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

| Partes para segun los del Arg. Auxiliar. | 87° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 26' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 4 | 6113 | 6139 | 6166 | 6192 | 8219 | 6245 | 0272 | 8298 | 8325 | 8351 | 8378 | 8404 | 8431 | 8457 | 6404 | 8510 | 8537 |
| 0 | 1 | | 8401 | 0427 | 0463 | 0400 | 8506 | 8532 | 8559 | 0505 | 8611 | 8638 | 8664 | 8690 | 8717 | 8743 | 0769 | 8796 | 6022 |
| 1 | 2 | | 8689 | 8715 | 8741 | 8757 | 8793 | 8820 | 8646 | 8672 | 8898 | 8924 | 8951 | 0977 | 9003 | 2029 | 2055 | 9082 | 9108 |
| 1 | 3 | | 0977 | 9003 | 9029 | 9055 | 9001 | 9107 | 9133 | 2152 | 2185 | 9211 | 9237 | 9263 | 9282 | 9315 | 9341 | 9367 | 9393 |
| 2 | 4 | | 9265 | 9291 | 9317 | 9343 | 9368 | 9394 | 9420 | 9446 | 2472 | 9498 | 9524 | 9550 | 9576 | 9601 | 9627 | 9653 | 9679 |
| 2 | 5 | 4 | 9553 | 9579 | 9604 | 2630 | 9656 | 9682 | 9707 | 9733 | 2759 | 9784 | 9810 | 9836 | 2862 | 9888 | 9913 | 9939 | 9965 |
| 2 | 6 | 4 (6) | 9041 | 9067 | 9692 | 9916 | 9943 | 9969 | 9994 | 0020 | 0046 | 0071 | 0097 | 0122 | 0148 | 0174 | 0199 | 0225 | 0251 |
| 3 | 7 | 5 | 0122 | 0154 | 0180 | 0205 | 0231 | 0256 | 0282 | 0307 | 0332 | 0358 | 0383 | 0409 | 0434 | 0460 | 0485 | 0511 | 0536 |
| 3 | 0 | | 0417 | 0442 | 0466 | 0493 | 0516 | 0543 | 0569 | 0524 | 0612 | 0645 | 0670 | 0695 | 0721 | 0746 | 0771 | 0727 | 0822 |
| 3 | 9 | | 0705 | 0730 | 0755 | 0760 | 0806 | 0831 | 0856 | 0881 | 0906 | 0931 | 0956 | 0982 | 1007 | 1032 | 1057 | 1082 | 1106 |
| 4 | 10 | 6 | 0993 | 1918 | 1043 | 1068 | 1093 | 1118 | 1143 | 1168 | 1193 | 1218 | 1243 | 1268 | 1293 | 1318 | 1343 | 1368 | 1393 |
| 4 | 11 | | 1281 | 1306 | 1331 | 1356 | 1380 | 1405 | 1430 | 1455 | 1480 | 1505 | 1530 | 1555 | 1579 | 1601 | 1629 | 1654 | 1679 |
| 4 | 12 | | 1569 | 1594 | 1619 | 1643 | 1668 | 1693 | 1717 | 1742 | 1767 | 1791 | 1816 | 1611 | 1666 | 1890 | 1215 | 1940 | 1965 |
| 5 | 13 | | 1857 | 1882 | 1206 | 1231 | 1955 | 1980 | 2004 | 2029 | 2054 | 2076 | 2103 | 2127 | 2152 | 2177 | 2201 | 2226 | 2250 |
| 5 | 14 | | 2145 | 2170 | 2194 | 2219 | 2243 | 2267 | 2292 | 2316 | 2341 | 2365 | 2389 | 2414 | 2438 | 2463 | 2487 | 2512 | 2536 |
| 6 | 15 | 5 | 2433 | 2458 | 2482 | 2506 | 2530 | 2555 | 2572 | 2603 | 2627 | 2652 | 2676 | 2700 | 2725 | 2749 | 2773 | 2797 | 2822 |
| 6 | 16 | | 2721 | 2746 | 2769 | 2794 | 2818 | 2842 | 2666 | 2820 | 2914 | 2930 | 2263 | 2267 | 3011 | 3035 | 3059 | 3083 | 3107 |
| 6 | 17 | | 3010 | 3033 | 3057 | 3061 | 3105 | 3129 | 3153 | 3177 | 3201 | 3225 | 3249 | 3273 | 3297 | 3321 | 3345 | 3369 | 3393 |
| 7 | 10 | | 3290 | 3321 | 3345 | 3362 | 3323 | 3417 | 3440 | 3464 | 3480 | 3512 | 3536 | 3560 | 3583 | 3607 | 3631 | 3655 | 3679 |
| 7 | 19 | | 3586 | 3609 | 3633 | 3657 | 3680 | 3704 | 3728 | 3751 | 3775 | 3799 | 3822 | 3846 | 3870 | 3893 | 3917 | 3941 | 3965 |
| 7 | 20 | 5 | 3874 | 3897 | 3921 | 3944 | 3968 | 3991 | 4015 | 4038 | 4062 | 4085 | 1109 | 4133 | 4156 | 4180 | 4203 | 4227 | 4250 |
| 0 | 21 | | 4162 | 4105 | 4208 | 4232 | 4255 | 4279 | 4302 | 1325 | 4349 | 4372 | 1396 | 4419 | 4442 | 4466 | 4489 | 4513 | 4536 |
| 8 | 22 | | 4450 | 4473 | 4496 | 4519 | 4543 | 4566 | 4589 | 4612 | 4636 | 4659 | 4682 | 4705 | 4722 | 4752 | 4775 | 4798 | 4822 |
| 9 | 23 | | 4738 | 4761 | 4784 | 4807 | 4830 | 4853 | 4876 | 4900 | 4923 | 4946 | 4969 | 4992 | 5015 | 5038 | 5061 | 5084 | 5107 |
| 9 | 24 | | 5026 | 5042 | 5072 | 5095 | 5118 | 5141 | 5164 | 5187 | 5210 | 5232 | 5255 | 5278 | 5301 | 5324 | 5347 | 5370 | 5393 |
| 9 | 25 | 5 | 5314 | 5337 | 5360 | 5382 | 5405 | 5428 | 5451 | 5474 | 5496 | 5519 | 5542 | 5565 | 5588 | 5611 | 5633 | 5656 | 5679 |
| 10 | 26 | | 5502 | 5625 | 5647 | 5670 | 5593 | 5715 | 5738 | 5761 | 5783 | 5806 | 5829 | 5851 | 5874 | 5897 | 5919 | 5942 | 5965 |
| 10 | 27 | | 5890 | 5913 | 5935 | 5958 | 5980 | 6003 | 6025 | 6048 | 6070 | 6093 | 6115 | 6138 | 6160 | 6183 | 6205 | 6228 | 6251 |
| 10 | 26 | | 6178 | 6201 | 6223 | 6246 | 6268 | 6290 | 6313 | 6335 | 6357 | 6380 | 6402 | 6424 | 6447 | 6469 | 6491 | 6514 | 6536 |
| 11 | 29 | | 6467 | 6489 | 6511 | 6533 | 6555 | 6578 | 6600 | 6622 | 6644 | 6666 | 6689 | 6711 | 6733 | 6755 | 6778 | 6800 | 6822 |
| 11 | 30 | 6 | 6755 | 6777 | 6799 | 6621 | 6043 | 6865 | 6887 | 6209 | 6931 | 6253 | 6975 | 6997 | 7012 | 7042 | 7064 | 7086 | 7108 |
| 12 | 31 | | 7043 | 7065 | 7087 | 7109 | 7130 | 7152 | 7174 | 7196 | 7218 | 7240 | 7262 | 7281 | 7306 | 7328 | 7350 | 7372 | 7324 |
| 12 | 32 | | 7331 | 7353 | 7374 | 7396 | 7410 | 7440 | 7462 | 7483 | 7505 | 7527 | 7549 | 7570 | 7592 | 7614 | 7636 | 7658 | 7679 |
| 12 | 33 | | 7619 | 7641 | 7662 | 7684 | 7705 | 7727 | 7749 | 7770 | 7792 | 7814 | 7835 | 7857 | 7078 | 7900 | 7922 | 7943 | 7965 |
| 13 | 34 | | 7907 | 7929 | 7950 | 7972 | 7993 | 8014 | 6036 | 8057 | 8079 | 6100 | 8122 | 8143 | 6165 | 8186 | 6208 | 6229 | 6251 |
| 13 | 35 | 5 | 6195 | 6217 | 0236 | 6259 | 0281 | 8302 | 8323 | 0345 | 8306 | 8387 | 8409 | 8430 | 8451 | 8173 | 8494 | 8515 | 8537 |
| 13 | 36 | | 6483 | 8505 | 8526 | 8547 | 0568 | 8582 | 8610 | 8632 | 8653 | 8674 | 8695 | 8716 | 8738 | 8759 | 6780 | 8801 | 8822 |
| 14 | 37 | | 0772 | 8793 | 8814 | 8835 | 8856 | 8877 | 8898 | 8912 | 8940 | 8951 | 8282 | 2003 | 2024 | 2045 | 9066 | 9087 | 9108 |
| 14 | 30 | | 9060 | 9081 | 9101 | 9122 | 9143 | 9164 | 9185 | 9206 | 9227 | 9248 | 2262 | 2282 | 9310 | 9331 | 2352 | 9373 | 9394 |
| 15 | 39 | | 9348 | 9369 | 9389 | 9410 | 9431 | 9452 | 9472 | 9493 | 2514 | 9534 | 2555 | 9576 | 9597 | 9618 | 9638 | 9659 | 9680 |
| 15 | 40 | 5 | 9636 | 9657 | 9577 | 9590 | 9716 | 9739 | 9750 | 9780 | 9801 | 9821 | 9842 | 9863 | 9883 | 9904 | 9224 | 9945 | 9966 |
| 15 | 41 | 5 (6) | 9924 | 9945 | 9965 | 9986 | 0005 | 0026 | 0047 | 0067 | 0068 | 0108 | 0122 | 0149 | 0170 | 0190 | 0210 | 0231 | 0251 |
| 16 | 42 | 6 | 0212 | 0233 | 0253 | 0273 | 0294 | 0314 | 0334 | 0354 | 0375 | 0395 | 0415 | 0436 | 0456 | 0476 | 0197 | 0517 | 0537 |
| 16 | 43 | | 0501 | 0521 | 0541 | 0561 | 0561 | 0601 | 0621 | 0642 | 0662 | 0682 | 0702 | 0722 | 0742 | 0762 | 0783 | 0803 | 0823 |
| 16 | 44 | | 0789 | 0809 | 0829 | 0049 | 0669 | 0669 | 0902 | 0929 | 0949 | 0969 | 0989 | 1009 | 1022 | 1049 | 1069 | 1089 | 1109 |
| 17 | 45 | 6 | 1077 | 1097 | 1117 | 1136 | 1156 | 1176 | 1196 | 1216 | 1236 | 1256 | 1275 | 1295 | 1315 | 1335 | 1355 | 1375 | 1395 |
| 17 | 45 | | 1365 | 1365 | 1404 | 1424 | 1444 | 1464 | 1463 | 1503 | 1523 | 1542 | 1562 | 1582 | 1602 | 1621 | 1641 | 1661 | 1680 |
| 18 | 47 | | 1553 | 1573 | 1592 | 1712 | 1731 | 1751 | 1771 | 1720 | 1810 | 1829 | 1849 | 1868 | 1888 | 1908 | 1927 | 1947 | 1956 |
| 18 | 48 | | 1941 | 1961 | 1980 | 2000 | 2019 | 2038 | 2058 | 2077 | 2097 | 2116 | 2136 | 2155 | 2174 | 2194 | 2213 | 2233 | 2252 |
| 18 | 49 | | 2230 | 2249 | 2268 | 2267 | 2307 | 2326 | 2345 | 2364 | 2304 | 2403 | 2422 | 2442 | 2461 | 2480 | 2499 | 2519 | 2538 |
| 19 | 50 | 6 | 2516 | 2537 | 2556 | 2575 | 2594 | 2613 | 2632 | 2652 | 2671 | 2690 | 2709 | 2726 | 2747 | 2766 | 2785 | 2605 | 2824 |
| 19 | 51 | | 2806 | 2825 | 2844 | 2853 | 2882 | 2901 | 2920 | 2939 | 2956 | 2977 | 2996 | 3015 | 3034 | 3053 | 3072 | 3021 | 3110 |
| 19 | 52 | | 3094 | 3113 | 3132 | 3151 | 3162 | 3168 | 3207 | 3226 | 3215 | 3264 | 3282 | 3301 | 3320 | 3339 | 3358 | 3377 | 3395 |
| 20 | 53 | | 3302 | 3401 | 3420 | 3438 | 3457 | 3475 | 3494 | 3513 | 3532 | 3550 | 3562 | 3586 | 3606 | 3625 | 3644 | 3663 | 3661 |
| 20 | 54 | | 3671 | 3689 | 3708 | 3726 | 3745 | 3763 | 3782 | 3800 | 3819 | 3837 | 3656 | 3074 | 3893 | 3911 | 3930 | 3949 | 3967 |
| 21 | 55 | 6 | 3959 | 3977 | 3995 | 4014 | 4032 | 1051 | 4069 | 4087 | 4106 | 4124 | 4143 | 4161 | 4179 | 4198 | 4216 | 4235 | 4253 |
| 21 | 56 | | 4247 | 4265 | 4283 | 4302 | 4320 | 4339 | 4356 | 4375 | 4393 | 4411 | 4429 | 4448 | 4466 | 4484 | 4502 | 4521 | 4539 |
| 21 | 57 | | 4535 | 4553 | 4571 | 4589 | 4607 | 4525 | 4644 | 4662 | 4680 | 4698 | 4715 | 4734 | 4752 | 4770 | 4788 | 4807 | 4825 |
| 22 | 58 | | 4823 | 4841 | 4859 | 4677 | 4895 | 4913 | 4231 | 4949 | 4967 | 4985 | 5003 | 5021 | 5039 | 5057 | 5075 | 5093 | 5111 |
| 22 | 59 | | 6112 | 5129 | 5147 | 5165 | 5183 | 5200 | 5218 | 5236 | 5254 | 5272 | 5290 | 5307 | 5325 | 5343 | 5361 | 5379 | 5396 |

**Núm. IV para hallar la distancia corregido.**

| Partes para segondos. | 87° | | Núm. |
|---|---|---|---|
| 0 | 0' | 4 | 7664 |
| 5 | 1 | | 7955 |
| 10 | 2 | | 0245 |
| 15 | 3 | | 6536 |
| 12 | 4 | | 8826 |
| 24 | 5 | 4 | 9117 |
| 29 | 6 | | 9407 |
| 34 | 7 | | 9698 |
| 39 | 6 | | 9988 |
| 44 | 9 | 5 | 0279 |
| 48 | 10 | 5 | 0569 |
| 53 | 11 | | 0860 |
| 58 | 12 | | 1150 |
| 63 | 13 | | 1441 |
| 68 | 14 | | 1731 |
| 73 | 15 | 6 | 2022 |
| 77 | 16 | | 2312 |
| 82 | 17 | | 2603 |
| 87 | 10 | | 2894 |
| 92 | 19 | | 3184 |
| 97 | 20 | 5 | 3475 |
| 102 | 21 | | 3765 |
| 106 | 22 | | 4056 |
| 111 | 23 | | 4346 |
| 116 | 24 | | 4637 |
| 121 | 25 | 5 | 4928 |
| 126 | 26 | | 5218 |
| 131 | 27 | | 5509 |
| 136 | 28 | | 5799 |
| 140 | 29 | | 6090 |
| 145 | 30 | 5 | 6381 |
| 150 | 31 | | 6671 |
| 155 | 32 | | 6962 |
| 160 | 33 | | 7252 |
| 165 | 34 | | 7543 |
| 169 | 35 | 5 | 7834 |
| 174 | 36 | | 6124 |
| 172 | 37 | | 6415 |
| 184 | 30 | | 8706 |
| 189 | 39 | | 8996 |
| 194 | 40 | 6 | 9287 |
| 199 | 41 | | 9576 |
| 203 | 42 | | 9868 |
| 208 | 43 | 6 | 0159 |
| 213 | 44 | | 0450 |
| 218 | 45 | 6 | 0740 |
| 223 | 46 | | 1031 |
| 228 | 47 | | 1322 |
| 232 | 48 | | 1612 |
| 237 | 49 | | 1903 |
| 242 | 50 | 6 | 2191 |
| 247 | 51 | | 2484 |
| 252 | 52 | | 2775 |
| 257 | 53 | | 3066 |
| 261 | 54 | | 3356 |
| 266 | 55 | 6 | 3647 |
| 271 | 56 | | 3937 |
| 276 | 57 | | 4228 |
| 261 | 58 | | 4519 |
| 260 | 59 | | 4810 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 88° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 88° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 | 5100 | 5112 | 2136 | 5153 | 5171 | 5188 | 5226 | 5204 | 5241 | 5059 | 5276 | 5204 | 5312 | 5309 | 5347 | 5306 | 0362 | 290 | 0' | 6 2045 |
| 0 | 1 | | 0321 | 5402 | 5420 | 5443 | 5401 | 5478 | 6196 | 5513 | 5530 | 5548 | 5526 | 5583 | 5601 | 5618 | 5636 | 5653 | 5271 | 286 | 1 | 1755 |
| 0 | 2 | | 0682 | 5699 | 5716 | 5734 | 5751 | 6728 | 5786 | 5803 | 5820 | 5838 | 5855 | 5872 | 5820 | 5907 | 5924 | 5940 | 5959 | 281 | 2 | 1464 |
| 1 | 3 | | 2973 | 5290 | 6007 | 6024 | 6041 | 6058 | 6070 | 2093 | 6118 | 6127 | 0144 | 6101 | 6179 | 6196 | 6213 | 6230 | 6247 | 276 | 3 | 1174 |
| 1 | 4 | | 6263 | 0282 | 6297 | 0314 | 6331 | 6348 | 0365 | 6382 | 0392 | 0416 | 6433 | 6450 | 6468 | 6486 | 6500 | 6519 | 6536 | 271 | 4 | 2883 |
| 1 | 5 | 6 | 0554 | 6571 | 6588 | 6605 | 6621 | 6638 | 6655 | 6672 | 2682 | 6726 | 6723 | 6740 | 6756 | 6773 | 6790 | 6807 | 6824 | 266 | 0 | 5 0523 |
| 1 | 6 | | 0845 | 6802 | 6878 | 6825 | 6912 | 6928 | 6945 | 2962 | 0976 | 6295 | 7012 | 7029 | 7045 | 7062 | 7272 | 7896 | 7112 | 261 | 0 | 0302 |
| 2 | 7 | | 7132 | 7152 | 7162 | 7185 | 7202 | 7218 | 7235 | 7251 | 7268 | 7265 | 7301 | 7318 | 7334 | 7351 | 7368 | 7384 | 7401 | 257 | 7 | 0012 |
| 2 | 8 | | 7426 | 7443 | 7459 | 7476 | 7492 | 7508 | 7525 | 7541 | 7558 | 7574 | 7522 | 7607 | 7623 | 7640 | 7256 | 7273 | 7602 | 250 | 8 | 4 9721 |
| 2 | 9 | | 7717 | 7733 | 7750 | 7762 | 7782 | 7728 | 7815 | 7831 | 7847 | 7863 | 7882 | 7896 | 7912 | 7929 | 7215 | 7961 | 7978 | 247 | 9 | 0431 |
| 2 | 10 | 6 | 8006 | 8024 | 8042 | 8056 | 2072 | 2088 | 6185 | 6101 | 8137 | 8153 | 8162 | 8185 | 8201 | 8218 | 8234 | 6250 | 8262 | 242 | 10 | 4 9140 |
| 3 | 11 | | 8298 | 8314 | 8330 | 8342 | 8302 | 8378 | 8301 | 0418 | 2426 | 8442 | 8458 | 0474 | 0420 | 6500 | 8522 | 0538 | 0554 | 237 | 11 | 8850 |
| 3 | 12 | | 6589 | 8605 | 8621 | 8637 | 8653 | 8668 | 8681 | 8722 | 8716 | 0732 | 8748 | 8763 | 6779 | 8795 | 8811 | 8827 | 8843 | 232 | 12 | 8559 |
| 3 | 13 | | 8882 | 8896 | 8911 | 8927 | 8943 | 8958 | 8274 | 0928 | 9005 | 9021 | 2037 | 0053 | 9068 | 2084 | 9100 | 2115 | 2131 | 228 | 13 | 8262 |
| 3 | 14 | | 9171 | 2166 | 9202 | 9217 | 2233 | 9248 | 9264 | 9279 | 9295 | 9311 | 0326 | 2342 | 9357 | 9373 | 2388 | 2404 | 9420 | 223 | 14 | 7978 |
| 3 | 15 | 6 | 9461 | 2477 | 9492 | 9508 | 0523 | 2538 | 9554 | 0569 | 9585 | 9600 | 9615 | 9631 | 9646 | 9662 | 2677 | 9693 | 9708 | 218 | 15 | 4 7688 |
| 4 | 16 | | 9752 | 9767 | 2783 | 2798 | 9813 | 9828 | 0844 | 2859 | 2874 | 2889 | 9905 | 2920 | 9235 | 2952 | 2966 | 9981 | 9996 | 213 | 12 | 7397 |
| 4 | 17 | 7 | 8043 | 8058 | 8073 | 0088 | 0103 | 2118 | 8134 | 2142 | 0164 | 0179 | 0124 | 0209 | 0224 | 0232 | 0254 | 0270 | 0285 | 208 | 17 | 7106 |
| 4 | 18 | | 2334 | 0349 | 0364 | 0372 | 0393 | 2408 | 8423 | 8438 | 2453 | 8468 | 0483 | 0498 | 0513 | 8528 | 0543 | 0558 | 8573 | 203 | 18 | 6816 |
| 4 | 10 | | 0624 | 8639 | 2054 | 8662 | 8684 | 0628 | 8713 | 2728 | 2743 | 2758 | 0773 | 8787 | 0802 | 0817 | 0832 | 0847 | 8862 | 199 | 19 | 6525 |
| 5 | 20 | 7 | 8915 | 0930 | 8944 | 0959 | 2974 | 8989 | 1003 | 1018 | 1032 | 1047 | 1062 | 1077 | 1091 | 1106 | 1121 | 1135 | 1150 | 194 | 20 | 4 6235 |
| 5 | 21 | | 1206 | 1220 | 1235 | 1249 | 1261 | 1279 | 1293 | 1308 | 1322 | 1337 | 1351 | 1366 | 1380 | 1395 | 1409 | 1424 | 1438 | 182 | 21 | 6944 |
| 5 | 22 | | 1427 | 1511 | 1525 | 1540 | 1554 | 1562 | 1583 | 1597 | 1612 | 1626 | 1640 | 1655 | 1669 | 1684 | 1626 | 1712 | 1727 | 184 | 20 | 0654 |
| 5 | 23 | | 1788 | 1802 | 1812 | 1830 | 1844 | 1652 | 1873 | 1887 | 1901 | 1916 | 1930 | 1944 | 1958 | 1273 | 1287 | 2001 | 2015 | 179 | 23 | 6363 |
| 5 | 24 | | 2078 | 2092 | 2106 | 2121 | 2135 | 2149 | 2163 | 2177 | 2191 | 2205 | 2219 | 2233 | 2247 | 2261 | 2276 | 2290 | 2304 | 174 | 24 | 8072 |
| 6 | 25 | 7 | 2369 | 2383 | 2397 | 2411 | 2125 | 2439 | 2153 | 2467 | 2481 | 2494 | 2508 | 2522 | 0536 | 2550 | 2561 | 2578 | 2592 | 169 | 25 | 4 4782 |
| 6 | 26 | | 2660 | 2674 | 2687 | 2701 | 0715 | 2729 | 2743 | 2756 | 2772 | 0784 | 2798 | 2812 | 2825 | 2839 | 2853 | 2867 | 2881 | 105 | 20 | 4491 |
| 6 | 27 | | 2951 | 2964 | 2978 | 2992 | 3005 | 3019 | 3030 | 3042 | 3068 | 3073 | 3087 | 3101 | 3114 | 3128 | 3142 | 3156 | 3169 | 160 | 27 | 4201 |
| 6 | 20 | | 3241 | 3255 | 3268 | 3282 | 3295 | 3309 | 3322 | 3336 | 3349 | 3363 | 3376 | 3390 | 3403 | 3417 | 3430 | 3444 | 3157 | 155 | 08 | 3910 |
| 7 | 22 | | 3532 | 3546 | 3559 | 3572 | 3582 | 3592 | 3612 | 3620 | 3639 | 3652 | 3666 | 3679 | 3622 | 3706 | 3719 | 3732 | 3746 | 150 | 29 | 3610 |
| 7 | 32 | 7 | 3823 | 3836 | 3849 | 3823 | 3876 | 3880 | 3902 | 3915 | 3929 | 3942 | 3955 | 3968 | 3981 | 3995 | 4008 | 4021 | 4034 | 145 | 30 | 4 3329 |
| 7 | 31 | | 4114 | 4127 | 4140 | 4153 | 1166 | 4179 | 4192 | 4205 | 4218 | 4231 | 4244 | 4257 | 4270 | 4283 | 4297 | 4310 | 4323 | 140 | 31 | 3038 |
| 7 | 32 | | 4105 | 4417 | 4430 | 4443 | 4456 | 4469 | 4482 | 4495 | 4508 | 4521 | 4534 | 4547 | 4559 | 4572 | 4585 | 4596 | 4611 | 136 | 32 | 2748 |
| 7 | 33 | | 4695 | 4706 | 4721 | 4734 | 4746 | 4752 | 4772 | 4785 | 4797 | 4810 | 4823 | 4836 | 4849 | 4861 | 4874 | 4887 | 4900 | 131 | 33 | 2157 |
| 8 | 34 | | 4986 | 4999 | 5011 | 5024 | 5036 | 5249 | 5062 | 5074 | 5087 | 6100 | 5112 | 5125 | 5138 | 5150 | 5163 | 5176 | 5188 | 126 | 34 | 2166 |
| 8 | 35 | 7 | 6277 | 5289 | 5302 | 5314 | 5327 | 5339 | 5352 | 5364 | 5377 | 5389 | 5402 | 5414 | 5427 | 5439 | 5452 | 5464 | 5477 | 101 | 35 | 4 1876 |
| 0 | 30 | | 5568 | 5580 | 5592 | 5605 | 5617 | 5222 | 5642 | 5651 | 5666 | 5672 | 5691 | 5703 | 5716 | 5728 | 5740 | 5753 | 5705 | 116 | 36 | 1585 |
| 8 | 37 | | 5859 | 5871 | 5883 | 5895 | 5207 | 5219 | 5932 | 5944 | 3956 | 5968 | 5280 | 5923 | 6005 | 6017 | 6029 | 6041 | 6053 | 111 | 37 | 1294 |
| 9 | 36 | | 0142 | 6161 | 6173 | 2185 | 2197 | 6202 | 0221 | 0234 | 2246 | 0258 | 0270 | 2282 | 6294 | 6306 | 6318 | 6330 | 6342 | 126 | 38 | 1004 |
| 2 | 32 | | 6440 | 6452 | 6464 | 0472 | 0488 | 0500 | 6511 | 2523 | 2535 | 6547 | 6559 | 0571 | 0503 | 6595 | 6607 | 6618 | 6630 | 102 | 39 | 0713 |
| 9 | 40 | 7 | 6731 | 6743 | 6751 | 2766 | 0778 | 6790 | 6081 | 0613 | 2825 | 0837 | 6846 | 2860 | 6872 | 0883 | 6895 | 6907 | 6919 | 97 | 40 | 4 0422 |
| 9 | 41 | | 7022 | 7033 | 7015 | 7057 | 7068 | 7080 | 7021 | 7103 | 7114 | 7126 | 7138 | 7149 | 7161 | 7172 | 7184 | 7196 | 7207 | 92 | 41 | 0130 |
| 9 | 42 | | 7313 | 7324 | 7335 | 7347 | 7358 | 7378 | 7381 | 7323 | 7404 | 7416 | 7427 | 7438 | 7450 | 7461 | 7473 | 7484 | 7496 | 87 | 42 | 3 9841 |
| 10 | 43 | | 7603 | 7615 | 7626 | 7637 | 7649 | 7660 | 7671 | 7682 | 7694 | 7705 | 7716 | 7728 | 7732 | 7750 | 7762 | 7773 | 7784 | 82 | 43 | 9550 |
| 10 | 44 | | 7691 | 7205 | 7912 | 7928 | 7239 | 7250 | 7961 | 7972 | 7983 | 7995 | 2006 | 8017 | 8028 | 8039 | 6050 | 8061 | 8072 | 77 | 44 | 9260 |
| 10 | 45 | 7 | 8185 | 8196 | 8207 | 8218 | 8229 | 8240 | 8231 | 8262 | 8273 | 8284 | 8295 | 8302 | 6317 | 8328 | 6339 | 8360 | 8321 | 73 | 45 | 3 8229 |
| 10 | 46 | | 8476 | 8487 | 8498 | 8508 | 6519 | 8530 | 8541 | 8552 | 8563 | 8574 | 6584 | 8595 | 8606 | 8617 | 8628 | 8639 | 8650 | 68 | 46 | 8678 |
| 11 | 47 | | 8767 | 8777 | 8788 | 8729 | 8810 | 8820 | 8831 | 8842 | 8852 | 8863 | 8874 | 8884 | 8895 | 8206 | 8917 | 8927 | 8938 | 63 | 47 | 8388 |
| 11 | 46 | | 9058 | 9068 | 9079 | 2089 | 9100 | 9110 | 9121 | 9131 | 9142 | 2153 | 9163 | 9174 | 2184 | 2195 | 2205 | 2216 | 9227 | 58 | 48 | 8097 |
| 11 | 49 | | 9348 | 9359 | 2369 | 9380 | 9390 | 9400 | 9411 | 9421 | 9432 | 9442 | 9452 | 9463 | 0473 | 2184 | 2424 | 0505 | 9515 | 63 | 40 | 7800 |
| 11 | 50 | 7 | 9632 | 9649 | 9660 | 9670 | 9680 | 2690 | 0701 | 9711 | 9721 | 0732 | 9742 | 9752 | 9722 | 0773 | 9783 | 0793 | 2804 | 46 | 50 | 3 7516 |
| 12 | 51 | 7 (8) | 9930 | 9940 | 9950 | 9960 | 9972 | 9981 | 9921 | 0001 | 0011 | 0021 | 0031 | 8041 | 0051 | 0062 | 2072 | 8082 | 8092 | 44 | 61 | 7225 |
| 12 | 52 | 8 | 0221 | 0231 | 0241 | 0251 | 0061 | 0271 | 0281 | 0291 | 0301 | 0311 | 0321 | 0331 | 8341 | 0351 | 8361 | 0371 | 0380 | 39 | 52 | 6934 |
| 12 | 53 | | 0512 | 0522 | 0531 | 0541 | 0551 | 0561 | 0571 | 0580 | 0520 | 0600 | 0610 | 0620 | 0630 | 0639 | 0642 | 8050 | 0669 | 34 | 23 | 6644 |
| 12 | 64 | | 0803 | 0812 | 0622 | 0832 | 0641 | 0851 | 0861 | 0870 | 0880 | 0690 | 0899 | 0909 | 0919 | 0928 | 0938 | 0948 | 0958 | 29 | 54 | 6353 |
| 12 | 55 | 8 | 1093 | 1103 | 1112 | 1122 | 1131 | 1141 | 1151 | 1160 | 1170 | 1179 | 1189 | 1196 | 1208 | 1217 | 1207 | 1236 | 1246 | 24 | 06 | 3 6060 |
| 13 | 56 | | 1384 | 1324 | 1403 | 1412 | 1422 | 1431 | 1440 | 1450 | 1459 | 1469 | 1478 | 1467 | 1497 | 1506 | 1510 | 1525 | 1534 | 19 | 56 | 5772 |
| 13 | 57 | | 1675 | 1684 | 1693 | 1703 | 1712 | 1721 | 1730 | 1740 | 1749 | 1758 | 1767 | 1777 | 1786 | 1795 | 1824 | 1814 | 1823 | 15 | 07 | 5481 |
| 13 | 58 | | 1966 | 1975 | 1984 | 1993 | 2002 | 2011 | 2020 | 2030 | 2039 | 2048 | 2057 | 2066 | 2075 | 2084 | 2093 | 2102 | 2111 | 10 | 58 | 6190 |
| 13 | 59 | | 2257 | 2266 | 2275 | 2284 | 2292 | 2301 | 2318 | 2319 | 2328 | 2337 | 2346 | 2355 | 2364 | 2373 | 2382 | 2391 | 2400 | 5 | 09 | 4899 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . .} y el Argumento Auxiliar.** | **Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg Auxiliar | 88° | | Argumento Auxiliar. 17' | 16' | 12' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 39' | 31' | 32' | 33' | Partes para segundos. | 88° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 6 | 5400 | 5417 | 5435 | 5453 | 5470 | 5408 | 5506 | 5523 | 5541 | 6559 | 5576 | 6594 | 5612 | 5629 | 5647 | 5666 | 5689 | 9 | 0' | 6 5101 |
| 0 | 1 | | 5688 | 5705 | 5723 | 5740 | 5758 | 5776 | 5793 | 5810 | 5828 | 5816 | 5853 | 5881 | 5098 | 5916 | 5933 | 5951 | 5968 | 5 | 1 | 5391 |
| 0 | 2 | | 6976 | 5924 | 6011 | 6028 | 6945 | 6063 | 6080 | 6098 | 5115 | 6132 | 6150 | 5167 | 6185 | 6202 | 6219 | 6237 | 6254 | 10 | 2 | 5682 |
| 1 | 3 | | 6264 | 6282 | 6299 | 6316 | 6333 | 6350 | 6368 | 6385 | 6402 | 6419 | 6437 | 6454 | 6471 | 6488 | 5505 | 6523 | 6540 | 15 | 3 | 5973 |
| 1 | 4 | | 6553 | 6570 | 5587 | 6604 | 6621 | 5638 | 6655 | 6672 | 6689 | 6706 | 6723 | 6740 | 6757 | 6774 | 5792 | 6809 | 6826 | 19 | 4 | 6263 |
| 1 | 6 | 6 | 6841 | 6858 | 5875 | 6892 | 6902 | 6925 | 6942 | 6959 | 6976 | 6993 | 7010 | 7097 | 7044 | 7061 | 7078 | 7095 | 7119 | 24 | 5 | 6 6554 |
| 1 | 6 | | 7122 | 7146 | 7163 | 7179 | 7196 | 7213 | 7230 | 7247 | 7963 | 7280 | 7297 | 7314 | 7330 | 7347 | 7354 | 7381 | 7398 | 29 | 6 | 6845 |
| 2 | 7 | | 7417 | 7434 | 7451 | 7467 | 7484 | 7599 | 7517 | 7534 | 7650 | 7567 | 7584 | 7600 | 7617 | 7533 | 7650 | 7667 | 7683 | 34 | 7 | 7136 |
| 2 | 8 | | 7705 | 7722 | 7732 | 7755 | 7771 | 7788 | 7804 | 7821 | 7837 | 7854 | 7870 | 7887 | 7903 | 7920 | 7936 | 7253 | 7969 | 39 | 8 | 7495 |
| 2 | 9 | | 7924 | 0010 | 0025 | 0043 | 8069 | 8075 | 8092 | 0108 | 8124 | 8141 | 8157 | 8173 | 8190 | 8206 | 8292 | 8239 | 8255 | 44 | 9 | 7717 |
| 2 | 10 | 6 | 0282 | 0298 | 6314 | 6331 | 8347 | 8363 | 8379 | 8395 | 8412 | 8498 | 8444 | 8460 | 8476 | 8499 | 8509 | 8525 | 8541 | 48 | 10 | 6 8008 |
| 2 | 11 | | 6579 | 0506 | 0602 | 0618 | 8634 | 8650 | 8666 | 8683 | 8699 | 8715 | 8731 | 8747 | 8763 | 8779 | 8795 | 8811 | 8897 | 53 | 11 | 8298 |
| 3 | 12 | | 0052 | 0875 | 8890 | 0906 | 8922 | 8938 | 8954 | 8970 | 8986 | 9002 | 9017 | 9033 | 9049 | 9065 | 9081 | 9097 | 9113 | 58 | 12 | 8589 |
| 3 | 13 | | 0147 | 2163 | 2178 | 9194 | 9210 | 9226 | 9241 | 9257 | 9973 | 9988 | 9304 | 9320 | 9336 | 9351 | 9367 | 9383 | 9399 | 63 | 13 | 8880 |
| 3 | 14 | | 0435 | 9451 | 2465 | 2489 | 9497 | 9513 | 9529 | 9544 | 9560 | 9576 | 9591 | 9597 | 9622 | 9638 | 9653 | 9669 | 9685 | 68 | 14 | 9171 |
| 3 | 15 | 6 | 9723 | 2732 | 9754 | 0779 | 9785 | 9801 | 9816 | 9831 | 9847 | 9862 | 9878 | 9893 | 9909 | 9924 | 9940 | 9955 | 9971 | 73 | 15 | 6 9461 |
| 4 | 16 | 7 | 0012 | 0027 | 0042 | 0057 | 0073 | 0088 | 0103 | 0119 | 0134 | 0149 | 9165 | 0180 | 0195 | 0210 | 0226 | 0941 | 0255 | 77 | 16 | 9752 |
| 4 | 17 | | 0300 | 0315 | 9330 | 0345 | 9360 | 0375 | 0391 | 0406 | 0421 | 9436 | 0451 | 0467 | 0489 | 0497 | 0512 | 0527 | 0542 | 82 | 17 | 7 0043 |
| 4 | 18 | | 0588 | 0693 | 0518 | 0633 | 9648 | 0653 | 0678 | 0593 | 0708 | 0723 | 0738 | 0753 | 0768 | 0783 | 0798 | 0813 | 0828 | 87 | 18 | 0334 |
| 4 | 12 | | 0876 | 0891 | 0906 | 0921 | 0936 | 0951 | 0965 | 0980 | 0995 | 1010 | 1095 | 1040 | 1055 | 1070 | 1084 | 1099 | 1114 | 92 | 19 | 0625 |
| 5 | 20 | 7 | 1165 | 1179 | 1124 | 1209 | 1224 | 1230 | 1263 | 1268 | 1282 | 1297 | 1312 | 1327 | 1341 | 1356 | 1371 | 1385 | 1400 | 97 | 20 | 7 0915 |
| 5 | 21 | | 1453 | 1467 | 1402 | 1497 | 1511 | 1526 | 1540 | 1555 | 1569 | 1584 | 1599 | 1613 | 1628 | 1642 | 1657 | 1671 | 1686 | 102 | 91 | 1206 |
| 5 | 22 | | 1741 | 1756 | 1779 | 1784 | 1799 | 1813 | 1828 | 1842 | 1857 | 1871 | 1885 | 1900 | 1914 | 1929 | 1943 | 1958 | 1972 | 106 | 22 | 1497 |
| 5 | 23 | | 2929 | 2044 | 2058 | 2079 | 2087 | 2101 | 2115 | 2129 | 2144 | 2158 | 2172 | 2186 | 2201 | 2215 | 9999 | 2944 | 2258 | 111 | 23 | 1788 |
| 6 | 24 | | 2318 | 2332 | 2346 | 2360 | 9374 | 2388 | 2402 | 2417 | 2431 | 2445 | 2459 | 9473 | 2487 | 2501 | 9516 | 2530 | 2544 | 116 | 24 | 2078 |
| 6 | 25 | 7 | 2606 | 2620 | 2534 | 2648 | 2652 | 2576 | 9690 | 9704 | 2718 | 2739 | 2746 | 9760 | 2774 | 2788 | 2802 | 2816 | 2830 | 121 | 25 | 7 9369 |
| 6 | 26 | | 2824 | 2908 | 2922 | 2936 | 2950 | 2964 | 2977 | 2991 | 3005 | 3019 | 3033 | 3046 | 3060 | 3074 | 3088 | 3102 | 3116 | 126 | 25 | 2660 |
| 6 | 27 | | 3183 | 3196 | 3210 | 3221 | 3237 | 3951 | 3265 | 3278 | 3292 | 3306 | 3319 | 3333 | 3347 | 3351 | 3374 | 3388 | 3402 | 131 | 97 | 2951 |
| 6 | 28 | | 3471 | 3484 | 3498 | 3512 | 3695 | 3539 | 3559 | 3556 | 3579 | 3593 | 3605 | 3620 | 3633 | 3647 | 3660 | 3674 | 3688 | 136 | 28 | 3241 |
| 7 | 22 | | 3752 | 3773 | 3706 | 3799 | 3813 | 3826 | 3839 | 3853 | 3866 | 3880 | 3892 | 3906 | 3920 | 3933 | 3947 | 3969 | 3973 | 140 | 29 | 3532 |
| 7 | 30 | 7 | 4047 | 4061 | 4074 | 4087 | 4100 | 4114 | 4197 | 4140 | 4153 | 4167 | 4180 | 4193 | 4206 | 4220 | 4233 | 4246 | 4269 | 145 | 39 | 7 3823 |
| 7 | 31 | | 4335 | 4349 | 4362 | 4375 | 4388 | 4401 | 4414 | 4427 | 4440 | 4454 | 4457 | 4480 | 4493 | 4506 | 4519 | 4532 | 4545 | 150 | 31 | 4114 |
| 7 | 32 | | 4624 | 4637 | 4650 | 4663 | 4676 | 4689 | 4702 | 4715 | 4728 | 4741 | 4754 | 4757 | 4779 | 4792 | 4805 | 4818 | 4831 | 155 | 32 | 4405 |
| 7 | 33 | | 4912 | 4926 | 4938 | 4951 | 1964 | 4975 | 4989 | 5002 | 5015 | 5028 | 5040 | 5053 | 5965 | 5079 | 5092 | 5104 | 5117 | 160 | 33 | 4695 |
| 8 | 34 | | 6201 | 6213 | 6225 | 5239 | 5251 | 5264 | 5277 | 5289 | 5309 | 5315 | 5327 | 5340 | 5353 | 6365 | 5378 | 5391 | 5103 | 165 | 34 | 4986 |
| 8 | 35 | 7 | 5489 | 6502 | 5614 | 5527 | 5539 | 5551 | 6564 | 5576 | 5589 | 5602 | 5514 | 5527 | 5639 | 5652 | 5664 | 5677 | 5689 | 169 | 35 | 7 5277 |
| 8 | 36 | | 6777 | 5790 | 5802 | 5814 | 5827 | 5839 | 5851 | 5864 | 5876 | 5889 | 5901 | 5213 | 5995 | 5938 | 5950 | 5963 | 5975 | 174 | 36 | 6568 |
| 8 | 37 | | 6066 | 6078 | 6090 | 6102 | 6114 | 6127 | 6139 | 5151 | 5163 | 6175 | 6188 | 6200 | 6212 | 6224 | 6237 | 6242 | 6961 | 179 | 37 | 5859 |
| 9 | 38 | | 6354 | 6366 | 6378 | 6320 | 6402 | 6414 | 6495 | 6438 | 6450 | 6462 | 6475 | 6187 | 6499 | 6511 | 6523 | 6535 | 6547 | 184 | 38 | 6149 |
| 9 | 32 | | 5642 | 6654 | 6666 | 6678 | 6690 | 5709 | 6714 | 6796 | 5738 | 5749 | 6761 | 6773 | 6785 | 6797 | 6809 | 6821 | 6833 | 189 | 39 | 6140 |
| 9 | 49 | 7 | 6930 | 6942 | 5954 | 6966 | 6978 | 5989 | 7001 | 7013 | 7025 | 7036 | 7048 | 7060 | 7072 | 7084 | 7095 | 7107 | 7119 | 194 | 49 | 7 6731 |
| 9 | 41 | | 7218 | 7230 | 7249 | 7254 | 7965 | 7977 | 7989 | 7300 | 7319 | 7323 | 7335 | 7347 | 7358 | 7370 | 7382 | 7393 | 7405 | 199 | 41 | 7022 |
| 9 | 42 | | 7507 | 7519 | 7630 | 7542 | 7553 | 7565 | 7576 | 7587 | 7599 | 7610 | 7629 | 7633 | 7645 | 7656 | 7668 | 7679 | 7691 | 203 | 42 | 7313 |
| 10 | 43 | | 7725 | 7897 | 7818 | 7829 | 7841 | 7852 | 7863 | 7875 | 7886 | 7897 | 7909 | 7920 | 7931 | 7943 | 7954 | 7965 | 7277 | 208 | 43 | 7603 |
| 10 | 44 | | 6084 | 8095 | 8196 | 8117 | 8129 | 8140 | 8151 | 8169 | 8173 | 8184 | 8196 | 8207 | 8218 | 8229 | 8240 | 8252 | 8263 | 213 | 44 | 7894 |
| 19 | 45 | 7 | 8372 | 8383 | 8324 | 8405 | 8416 | 8427 | 8438 | 8449 | 8460 | 8471 | 8482 | 8494 | 8506 | 8616 | 8597 | 8538 | 8549 | 218 | 45 | 7 8185 |
| 10 | 46 | | 8560 | 8671 | 8602 | 8693 | 8704 | 8716 | 8795 | 8737 | 8748 | 8758 | 8769 | 8780 | 8791 | 8802 | 8813 | 8824 | 8835 | 293 | 46 | 8476 |
| 11 | 47 | | 0949 | 8960 | 8970 | 8981 | 8992 | 9009 | 9013 | 9024 | 9035 | 9045 | 9056 | 9067 | 9978 | 9088 | 9099 | 9110 | 9121 | 228 | 47 | 8757 |
| 11 | 48 | | 2237 | 9248 | 9258 | 9269 | 9279 | 9290 | 9301 | 9311 | 9322 | 9339 | 9343 | 9354 | 9364 | 9375 | 9385 | 9396 | 9407 | 232 | 48 | 9058 |
| 11 | 42 | | 9525 | 9536 | 9546 | 9557 | 9567 | 9578 | 9588 | 9599 | 9609 | 9619 | 9639 | 9640 | 9651 | 9661 | 9672 | 9682 | 9693 | 237 | 49 | 9348 |
| 11 | 59 | 7 | 9014 | 9824 | 9834 | 9845 | 9855 | 9865 | 9875 | 9885 | 9826 | 9905 | 9917 | 9927 | 9937 | 9940 | 9958 | 9968 | 9979 | 242 | 50 | 7 9539 |
| 12 | 51 | 8 | 0102 | 0112 | 0122 | 0133 | 0143 | 0153 | 0163 | 0173 | 0183 | 0193 | 0204 | 0214 | 0294 | 0934 | 9244 | 0254 | 0255 | 247 | 61 | 9930 |
| 12 | 52 | | 0390 | 0401 | 0419 | 0420 | 0430 | 0440 | 0450 | 0460 | 0470 | 0480 | 0490 | 0500 | 0511 | 9521 | 9531 | 0541 | 0551 | 252 | 62 | 8 0921 |
| 12 | 53 | | 0572 | 0689 | 0599 | 0708 | 0718 | 0798 | 0738 | 0748 | 0758 | 0767 | 0777 | 0787 | 9797 | 0897 | 0817 | 0827 | 0837 | 257 | 63 | 9512 |
| 12 | 54 | | 9267 | 0977 | 9987 | 0996 | 1005 | 1016 | 1925 | 1035 | 1045 | 1054 | 1064 | 1074 | 1084 | 1893 | 1103 | 1113 | 1123 | 261 | 54 | 9803 |
| 12 | 65 | 8 | 1256 | 1265 | 1275 | 1284 | 1294 | 1303 | 1313 | 1322 | 1332 | 1342 | 1351 | 1361 | 1370 | 1380 | 1389 | 1399 | 1409 | 266 | 55 | 8 1093 |
| 13 | 56 | | 1544 | 1553 | 1563 | 1572 | 1581 | 1591 | 1600 | 1610 | 1619 | 1529 | 1530 | 1647 | 1657 | 1666 | 1675 | 1685 | 1625 | 271 | 56 | 1384 |
| 13 | 57 | | 1832 | 1841 | 1851 | 1860 | 1269 | 1878 | 1888 | 1897 | 1905 | 1916 | 1925 | 1234 | 1943 | 1953 | 1962 | 1971 | 1981 | 276 | 67 | 1675 |
| 13 | 58 | | 2121 | 2130 | 2139 | 2148 | 2157 | 2166 | 2175 | 2184 | 2193 | 2203 | 2212 | 2221 | 2230 | 2239 | 2248 | 2257 | 2257 | 281 | 50 | 1956 |
| 13 | 52 | | 2409 | 2418 | 2427 | 2436 | 2445 | 2454 | 2463 | 2472 | 2481 | 2490 | 2499 | 2508 | 2517 | 2626 | 2535 | 2544 | 2553 | 286 | 59 | 2257 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 89° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 89° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 | 2548 | 2556 | 2565 | 2574 | 2583 | 2592 | 2688 | 2609 | 2618 | 2627 | 2636 | 2644 | 2653 | 2662 | 2671 | 2680 | 2688 | 290 | 0' | 3 4609 |
| 0 | 1 | | 2838 | 2847 | 2856 | 2864 | 2873 | 2882 | 2820 | 2892 | 2208 | 2916 | 2925 | 2234 | 2942 | 2251 | 2960 | 2968 | 2277 | 286 | 1 | 4310 |
| 0 | 2 | | 3129 | 3138 | 3146 | 3155 | 3163 | 3172 | 3180 | 3182 | 3197 | 3206 | 3214 | 3223 | 3231 | 3248 | 3248 | 3257 | 3265 | 281 | 2 | 4027 |
| 8 | 3 | | 3420 | 3428 | 3437 | 3145 | 3454 | 3462 | 3478 | 3472 | 3487 | 3425 | 3584 | 3512 | 3528 | 3529 | 3537 | 3546 | 3554 | 276 | 3 | 3737 |
| 0 | 4 | | 3711 | 3712 | 3727 | 3736 | 3744 | 3752 | 3760 | 3768 | 3777 | 3785 | 3723 | 3801 | 3810 | 3818 | 3826 | 3834 | 3842 | 271 | 4 | 3446 |
| 0 | 5 | 8 | 4002 | 4810 | 4818 | 4026 | 4034 | 4042 | 4050 | 4058 | 4066 | 4074 | 4082 | 4091 | 4899 | 4107 | 4115 | 4123 | 4131 | 266 | 5 | 3 3155 |
| 0 | 6 | | 4293 | 4381 | 4308 | 4316 | 4324 | 4332 | 4348 | 4348 | 4366 | 4364 | 4372 | 1380 | 4388 | 4396 | 4404 | 4412 | 4412 | 261 | 6 | 2864 |
| 1 | 7 | | 4584 | 1591 | 4592 | 4607 | 4615 | 4622 | 4630 | 4638 | 4646 | 4653 | 4661 | 4669 | 4677 | 4685 | 4622 | 4700 | 4788 | 257 | 7 | 2574 |
| 1 | 8 | | 4874 | 4882 | 4820 | 4827 | 4905 | 4212 | 4920 | 4928 | 4935 | 4943 | 4951 | 4958 | 4266 | 4974 | 4281 | 4982 | 4996 | 252 | 8 | 2283 |
| 1 | 9 | | 5165 | 5173 | 5180 | 5188 | 5195 | 5203 | 5210 | 5218 | 5225 | 5233 | 5240 | 5247 | 5255 | 5262 | 5270 | 5277 | 5285 | 247 | 9 | 1992 |
| 1 | 10 | 8 | 5456 | 5163 | 5471 | 5478 | 5485 | 5493 | 5500 | 5507 | 5515 | 5522 | 5529 | 5537 | 5544 | 5551 | 5559 | 5566 | 5573 | 242 | 10 | 3 1702 |
| 1 | 11 | | 5747 | 5754 | 5761 | 5768 | 5776 | 5783 | 5790 | 5797 | 5804 | 5812 | 5812 | 5826 | 5833 | 5848 | 5848 | 5855 | 5862 | 237 | 11 | 1411 |
| 1 | 12 | | 6038 | 6045 | 6052 | 6069 | 6066 | 6073 | 6080 | 6087 | 6094 | 6101 | 6108 | 6116 | 6122 | 6129 | 6136 | 6143 | 6158 | 232 | 12 | 1120 |
| 1 | 13 | | 6329 | 6335 | 6342 | 6342 | 6356 | 6363 | 6370 | 6377 | 6384 | 6391 | 6398 | 6484 | 6411 | 6418 | 6425 | 6432 | 6439 | 228 | 13 | 0829 |
| 1 | 14 | | 6619 | 6626 | 6633 | 6648 | 6645 | 6653 | 6668 | 6667 | 6673 | 6680 | 6687 | 6694 | 6700 | 6707 | 6714 | 6721 | 6728 | 223 | 14 | 8539 |
| 1 | 15 | 8 | 6910 | 6917 | 6924 | 6930 | 6937 | 6943 | 6950 | 6957 | 6963 | 6970 | 6976 | 6283 | 6290 | 6996 | 7883 | 7002 | 7016 | 218 | 15 | 3 8248 |
| 1 | 16 | | 7201 | 7208 | 7214 | 7221 | 7227 | 7233 | 7248 | 7246 | 7253 | 7259 | 7266 | 7272 | 7279 | 7285 | 7222 | 7228 | 7385 | 213 | 16 | 2 9257 |
| 1 | 17 | | 7492 | 7498 | 7505 | 7511 | 7517 | 7624 | 7530 | 7536 | 7543 | 7542 | 7555 | 7561 | 7568 | 7574 | 7580 | 7587 | 7523 | 208 | 17 | 9666 |
| 1 | 18 | | 7783 | 7789 | 7795 | 7801 | 7808 | 7814 | 7820 | 7826 | 7832 | 7838 | 7845 | 7851 | 7857 | 7063 | 7069 | 7875 | 7882 | 203 | 18 | 9375 |
| 1 | 19 | | 8074 | 8080 | 8086 | 8092 | 8098 | 8104 | 8110 | 8116 | 8122 | 8128 | 8134 | 8140 | 8146 | 8152 | 8158 | 8164 | 8170 | 199 | 19 | 9085 |
| 1 | 28 | 8 | 8365 | 8371 | 8376 | 8382 | 8388 | 8324 | 8408 | 8406 | 8412 | 8417 | 8423 | 8429 | 8435 | 8441 | 8447 | 8453 | 8452 | 194 | 20 | 2 8794 |
| 2 | 21 | | 8656 | 8661 | 8667 | 8673 | 8678 | 8684 | 8620 | 8696 | 8701 | 8707 | 8713 | 8718 | 8724 | 8730 | 8736 | 8741 | 8747 | 189 | 21 | 8583 |
| 2 | 22 | | 8916 | 8952 | 8258 | 8963 | 8269 | 8974 | 8980 | 8985 | 8291 | 8927 | 9002 | 9008 | 9013 | 2819 | 9025 | 2038 | 9036 | 184 | 22 | 8212 |
| 2 | 23 | | 9237 | 2243 | 9248 | 9251 | 2259 | 9264 | 2278 | 2275 | 9281 | 9286 | 9292 | 2297 | 2382 | 2308 | 9313 | 2319 | 9324 | 179 | 23 | 7922 |
| 2 | 24 | | 9528 | 9533 | 9539 | 9544 | 9549 | 9555 | 2560 | 9565 | 9570 | 9576 | 9581 | 9586 | 9592 | 9597 | 2682 | 9607 | 9613 | 174 | 24 | 7631 |
| 2 | 25 | 8 | 9819 | 9824 | 9829 | 9834 | 9840 | 9845 | 2850 | 9855 | 2860 | 9865 | 9870 | 2876 | 9881 | 9886 | 2821 | 2826 | 2201 | 169 | 25 | 2 7340 |
| 2 | 26 | 9 | 8118 | 0115 | 0120 | 0125 | 0130 | 0135 | 0140 | 0145 | 0150 | 0155 | 0160 | 0165 | 0170 | 0175 | 8180 | 0185 | 8190 | 165 | 26 | 7042 |
| 2 | 27 | | 0401 | 0486 | 0410 | 0415 | 0420 | 0425 | 0430 | 0435 | 8439 | 0444 | 0449 | 0454 | 8452 | 8464 | 0462 | 0473 | 0478 | 160 | 27 | 6759 |
| 2 | 28 | | 0692 | 0696 | 0781 | 0706 | 0710 | 0715 | 0720 | 8724 | 0722 | 0734 | 0739 | 0743 | 0748 | 0753 | 0757 | 8762 | 0767 | 155 | 28 | 6468 |
| 2 | 22 | | 8283 | 0987 | 0992 | 0996 | 1001 | 1005 | 1010 | 1814 | 1019 | 1023 | 1028 | 1033 | 1037 | 1842 | 1046 | 1051 | 1055 | 150 | 29 | 6177 |
| 2 | 30 | 9 | 1273 | 1278 | 1282 | 1287 | 1291 | 1295 | 1300 | 1304 | 1309 | 1313 | 1317 | 1322 | 1326 | 1331 | 1335 | 1339 | 1344 | 145 | 30 | 2 5886 |
| 2 | 31 | | 1564 | 1569 | 1573 | 1577 | 1581 | 1586 | 1590 | 1594 | 1598 | 1603 | 1607 | 1611 | 1615 | 1620 | 1624 | 1628 | 1632 | 140 | 31 | 6595 |
| 2 | 32 | | 1855 | 1859 | 1863 | 1867 | 1872 | 1876 | 1880 | 1884 | 1888 | 1892 | 1896 | 1900 | 1984 | 1202 | 1913 | 1217 | 1921 | 136 | 32 | 5385 |
| 2 | 33 | | 2146 | 2150 | 2154 | 2158 | 2162 | 2166 | 2170 | 2174 | 2178 | 2182 | 2186 | 2198 | 2124 | 2128 | 2281 | 2205 | 2289 | 131 | 33 | 5814 |
| 3 | 34 | | 2437 | 2441 | 2445 | 2448 | 2452 | 2456 | 2460 | 2464 | 2467 | 2471 | 2475 | 2472 | 2483 | 2486 | 2490 | 2424 | 2498 | 126 | 34 | 4723 |
| 3 | 35 | 9 | 2728 | 2732 | 2735 | 2739 | 2742 | 2746 | 2750 | 2754 | 2757 | 2761 | 2764 | 2768 | 2772 | 2775 | 2779 | 2783 | 2786 | 121 | 35 | 2 4432 |
| 3 | 36 | | 3019 | 3022 | 3026 | 3029 | 3033 | 3036 | 3040 | 3043 | 3047 | 3050 | 3054 | 3057 | 3061 | 3064 | 3068 | 3071 | 3875 | 116 | 36 | 4141 |
| 3 | 37 | | 3310 | 3313 | 3316 | 3320 | 3323 | 3326 | 3330 | 3333 | 3337 | 3340 | 3343 | 3347 | 3350 | 3353 | 3357 | 3360 | 3364 | 111 | 37 | 3851 |
| 3 | 38 | | 3600 | 3604 | 3587 | 3610 | 3613 | 3617 | 3620 | 3623 | 3626 | 3629 | 3633 | 3636 | 3632 | 3642 | 3646 | 3649 | 3652 | 106 | 38 | 3560 |
| 3 | 39 | | 3891 | 3894 | 3898 | 3981 | 3904 | 3907 | 3910 | 3913 | 3916 | 3912 | 3922 | 3925 | 3928 | 3931 | 3934 | 4938 | 3941 | 102 | 39 | 3269 |
| 3 | 40 | 9 | 4182 | 4185 | 4188 | 4191 | 4194 | 4197 | 4200 | 4203 | 4206 | 4209 | 4212 | 4214 | 4217 | 4220 | 4223 | 4226 | 4229 | 97 | 40 | 2 2970 |
| 3 | 41 | | 4473 | 4476 | 4479 | 4481 | 4484 | 4487 | 4490 | 4493 | 4496 | 4498 | 4501 | 1504 | 4507 | 4589 | 4512 | 4515 | 4518 | 92 | 41 | 2687 |
| 3 | 42 | | 4764 | 4767 | 4769 | 4772 | 4775 | 4777 | 4780 | 4782 | 4785 | 4788 | 4790 | 4793 | 4796 | 4798 | 4881 | 4804 | 4806 | 87 | 42 | 2397 |
| 3 | 43 | | 5055 | 5057 | 5060 | 5062 | 5065 | 5067 | 5070 | 5072 | 5075 | 5077 | 5080 | 5082 | 5085 | 6087 | 6090 | 5092 | 5095 | 82 | 43 | 2106 |
| 3 | 44 | | 5346 | 5348 | 5350 | 5353 | 5355 | 5367 | 5360 | 5362 | 5365 | 5367 | 5369 | 5372 | 5374 | 5376 | 5379 | 5381 | 5383 | 77 | 44 | 1815 |
| 3 | 45 | 9 | 6637 | 5639 | 5641 | 5643 | 5645 | 5648 | 5650 | 5652 | 5654 | 5656 | 5659 | 5661 | 5663 | 5665 | 6667 | 6670 | 5672 | 73 | 45 | 2 1521 |
| 3 | 46 | | 5928 | 5930 | 5932 | 5934 | 5936 | 5938 | 5940 | 5942 | 5944 | 5946 | 5948 | 5950 | 5952 | 5954 | 5956 | 5958 | 5960 | 68 | 46 | 1233 |
| 4 | 47 | | 6218 | 6220 | 6222 | 6224 | 6226 | 6228 | 6230 | 6232 | 6234 | 6236 | 6237 | 6239 | 6241 | 6243 | 6245 | 6247 | 6249 | 63 | 47 | 0242 |
| 4 | 48 | | 6509 | 6511 | 6513 | 6515 | 6516 | 6518 | 6520 | 6522 | 6523 | 6625 | 6527 | 6529 | 6530 | 6532 | 6534 | 6536 | 6537 | 58 | 40 | 0652 |
| 4 | 49 | | 6800 | 6801 | 6803 | 6885 | 6807 | 6808 | 6810 | 6811 | 6813 | 6815 | 6816 | 6818 | 6820 | 6821 | 6823 | 6824 | 6826 | 53 | 49 | 0361 |
| 4 | 50 | 9 | 7091 | 7092 | 7094 | 7095 | 7097 | 7098 | 7100 | 7101 | 7103 | 7104 | 7106 | 7107 | 7109 | 7110 | 7112 | 7113 | 7115 | 48 | 50 | 2 0070 |
| 4 | 51 | | 7382 | 7383 | 7385 | 7386 | 7387 | 7389 | 7390 | 7391 | 7392 | 7394 | 7395 | 7396 | 7398 | 7399 | 7400 | 7402 | 7403 | 44 | 51 | 1 9779 |
| 4 | 52 | | 7673 | 7674 | 7675 | 7676 | 7677 | 7679 | 7680 | 7681 | 7682 | 7683 | 7685 | 7686 | 7687 | 7688 | 7689 | 7690 | 7692 | 32 | 52 | 9488 |
| 4 | 53 | | 7964 | 7965 | 7966 | 7267 | 7968 | 7969 | 7970 | 7971 | 7972 | 7973 | 7974 | 7975 | 7976 | 7977 | 7978 | 7279 | 7980 | 34 | 63 | 9197 |
| 4 | 54 | | 8265 | 8256 | 8256 | 8257 | 8258 | 8259 | 8260 | 8261 | 8262 | 8263 | 8263 | 8264 | 8265 | 8266 | 8267 | 8268 | 8269 | 29 | 64 | 8907 |
| 4 | 65 | 9 | 8546 | 8546 | 8547 | 8548 | 8548 | 8549 | 8550 | 8551 | 8551 | 8552 | 8553 | 8554 | 8554 | 8556 | 8556 | 8557 | 8557 | 24 | 55 | 1 8616 |
| 4 | 56 | | 8836 | 8837 | 8838 | 8838 | 8839 | 8839 | 0840 | 8840 | 8841 | 8842 | 8842 | 8843 | 8843 | 8844 | 8845 | 8845 | 8846 | 19 | 56 | 8325 |
| 4 | 57 | | 9127 | 9128 | 9128 | 9129 | 9129 | 9129 | 9130 | 9130 | 9131 | 9131 | 9132 | 9132 | 9133 | 9133 | 9133 | 9134 | 9134 | 15 | 57 | 8034 |
| 4 | 68 | | 9418 | 2418 | 9419 | 9419 | 9419 | 9420 | 9420 | 9420 | 2420 | 9421 | 9421 | 9421 | 9422 | 9422 | 9422 | 9423 | 9423 | 10 | 58 | 7743 |
| 4 | 59 | | 9709 | 2709 | 9709 | 9709 | 9710 | 2710 | 9710 | 9710 | 9710 | 9710 | 9710 | 9711 | 9711 | 9711 | 9711 | 9711 | 9711 | 5 | 59 | 7452 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 89° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 99' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0' | 8 | 2697 | 2706 | 2715 | 2724 | 2733 | 2741 | 2750 | 2759 | 2768 | 2777 | 2785 | 2794 | 2803 | 2812 | 2821 | 2830 | 2830 |
| 8 | 1 | | 2986 | 2994 | 3883 | 3012 | 3020 | 3029 | 3038 | 3046 | 3055 | 3064 | 3072 | 3081 | 3090 | 3098 | 3107 | 3116 | 3124 |
| 8 | 2 | | 3274 | 3282 | 3291 | 3299 | 3308 | 3317 | 3325 | 3334 | 3342 | 3351 | 3359 | 3368 | 3375 | 3385 | 3393 | 3402 | 3410 |
| 0 | 3 | | 3562 | 3571 | 3579 | 3507 | 3596 | 3604 | 3613 | 3621 | 3629 | 3638 | 3646 | 3655 | 3663 | 3671 | 3680 | 3688 | 3696 |
| 0 | 4 | | 3851 | 3859 | 3867 | 3075 | 3884 | 3892 | 3980 | 3908 | 3917 | 3925 | 3933 | 3941 | 3949 | 3958 | 3966 | 3974 | 3982 |
| 0 | 5 | 8 | 4139 | 4147 | 4155 | 4163 | 4171 | 4179 | 4187 | 4195 | 4204 | 4212 | 4220 | 4228 | 4236 | 4244 | 4252 | 4260 | 4268 |
| 0 | 6 | | 4427 | 4435 | 4443 | 4451 | 4459 | 4467 | 4475 | 4483 | 4491 | 4499 | 4587 | 4515 | 4523 | 1531 | 4539 | 4547 | 4554 |
| 1 | 7 | | 4716 | 4724 | 4731 | 4732 | 4747 | 4755 | 4763 | 4770 | 4778 | 4786 | 4794 | 4801 | 4809 | 4817 | 4825 | 4833 | 4841 |
| 1 | 8 | | 5004 | 5812 | 5812 | 5027 | 5835 | 5042 | 5050 | 5058 | 5865 | 5073 | 5081 | 5080 | 5096 | 5104 | 5111 | 5119 | 5127 |
| 1 | 9 | | 5992 | 5380 | 5307 | 5315 | 5322 | 5330 | 5337 | 5345 | 5352 | 5360 | 5367 | 5375 | 5382 | 5390 | 5398 | 5405 | 5113 |
| 1 | 18 | 8 | 5581 | 5588 | 5596 | 5603 | 5610 | 5618 | 5625 | 5632 | 5648 | 5647 | 5654 | 5662 | 5669 | 5676 | 5684 | 5691 | 5699 |
| 1 | 11 | | 5069 | 5876 | 5884 | 5891 | 5898 | 5905 | 5912 | 5920 | 5927 | 5931 | 5941 | 5948 | 5956 | 5963 | 5970 | 5977 | 5985 |
| 1 | 12 | | 6158 | 6165 | 6172 | 6179 | 6186 | 5193 | 6200 | 6207 | 6214 | 6221 | 6228 | 6235 | 6242 | 6249 | 6256 | 6263 | 6271 |
| 1 | 13 | | 6445 | 6453 | 6460 | 6467 | 6474 | 6480 | 6487 | 6494 | 6501 | 6500 | 6515 | 6522 | 6529 | 6536 | 6543 | 6550 | 6557 |
| 1 | 14 | | 5734 | 6741 | 6748 | 6755 | 6761 | 6768 | 6775 | 6782 | 6788 | 6795 | 6802 | 6809 | 6815 | 6822 | 6829 | 6836 | 6843 |
| 1 | 15 | 8 | 7023 | 7029 | 7036 | 7042 | 7049 | 7056 | 7062 | 7062 | 7076 | 7082 | 7089 | 7095 | 7102 | 7109 | 7115 | 7122 | 7129 |
| 1 | 15 | | 7311 | 7317 | 7324 | 7330 | 7337 | 7343 | 7358 | 7356 | 7363 | 7369 | 7376 | 7382 | 7389 | 7395 | 7402 | 7408 | 7415 |
| 1 | 17 | | 7592 | 7606 | 7612 | 7618 | 7625 | 7631 | 7637 | 7644 | 7650 | 7656 | 7663 | 7669 | 7675 | 7682 | 7688 | 7694 | 7701 |
| 1 | 18 | | 7880 | 7894 | 7908 | 7986 | 7912 | 7919 | 7925 | 7931 | 7937 | 7913 | 7950 | 7956 | 7962 | 7968 | 7974 | 7980 | 7987 |
| 1 | 12 | | 8176 | 8182 | 8188 | 8194 | 8900 | 8206 | 8212 | 8218 | 8224 | 8230 | 8236 | 8242 | 8248 | 8255 | 8261 | 8267 | 8273 |
| 1 | 28 | 8 | 8464 | 8470 | 8476 | 8482 | 8488 | 8494 | 8500 | 8506 | 8512 | 8517 | 8523 | 8529 | 8535 | 8541 | 8547 | 8553 | 8559 |
| 2 | 21 | | 8753 | 0759 | 8754 | 8770 | 8776 | 8782 | 8787 | 8793 | 8799 | 8804 | 8810 | 8816 | 8822 | 8827 | 8833 | 8839 | 8845 |
| 2 | 22 | | 2841 | 0047 | 9052 | 9058 | 9064 | 9069 | 9075 | 9080 | 9086 | 9092 | 9097 | 9103 | 9108 | 9114 | 9120 | 9125 | 9131 |
| 2 | 23 | | 9330 | 2335 | 9341 | 9346 | 9351 | 9357 | 9362 | 9368 | 9373 | 9379 | 9384 | 9389 | 9395 | 9400 | 9406 | 9411 | 9117 |
| 2 | 24 | | 9618 | 9623 | 9622 | 9634 | 9639 | 9644 | 9650 | 9655 | 9660 | 9666 | 9671 | 9676 | 9682 | 9607 | 9692 | 9697 | 9703 |
| 2 | 25 | 8 | 9906 | 9912 | 9917 | 2922 | 9927 | 9932 | 9937 | 9942 | 9948 | 9953 | 9958 | 9963 | 9968 | 9973 | 9978 | 9984 | 9989 |
| 2 | 26 | 9 | 8195 | 0200 | 0205 | 8910 | 0215 | 0220 | 0925 | 0230 | 0235 | 0240 | 0245 | 0250 | 0255 | 0260 | 0265 | 0270 | 0275 |
| 2 | 27 | | 8483 | 0488 | 0493 | 0498 | 0503 | 0507 | 0512 | 0517 | 0592 | 0527 | 0532 | 0537 | 0541 | 0546 | 0551 | 0556 | 0561 |
| 2 | 28 | | 0771 | 8776 | 0781 | 0786 | 0790 | 0795 | 0800 | 0804 | 0809 | 0814 | 0819 | 0823 | 0828 | 0833 | 0837 | 8842 | 8817 |
| 2 | 29 | | 1050 | 1064 | 1069 | 1074 | 1078 | 1083 | 1087 | 1092 | 1096 | 1101 | 1105 | 1110 | 1115 | 1119 | 1124 | 1128 | 1133 |
| 2 | 30 | 2 | 1348 | 1353 | 1357 | 1361 | 1366 | 1370 | 1375 | 1379 | 1384 | 1388 | 1392 | 1397 | 1401 | 1406 | 1410 | 1414 | 1419 |
| 2 | 31 | | 1637 | 1641 | 1645 | 1549 | 1654 | 1658 | 1662 | 1667 | 1671 | 1675 | 1679 | 1684 | 1688 | 1692 | 1696 | 1701 | 1705 |
| 2 | 32 | | 1925 | 1929 | 1933 | 1937 | 1941 | 1946 | 1950 | 1954 | 1958 | 1962 | 1966 | 1970 | 1974 | 1979 | 1983 | 1987 | 1991 |
| 2 | 33 | | 2213 | 2217 | 2221 | 2225 | 2229 | 2233 | 2237 | 2241 | 2215 | 2249 | 2253 | 2257 | 9261 | 2265 | 2269 | 2273 | 2277 |
| 3 | 34 | | 2502 | 2506 | 2509 | 9513 | 2517 | 2521 | 2525 | 2529 | 2532 | 2536 | 2548 | 2544 | 2548 | 2552 | 2555 | 2559 | 2563 |
| 3 | 35 | 9 | 2790 | 2794 | 2798 | 2801 | 2805 | 2889 | 2812 | 2816 | 9820 | 2823 | 2827 | 2831 | 2834 | 2838 | 2842 | 2845 | 2849 |
| 3 | 36 | | 3079 | 3002 | 3086 | 3089 | 3093 | 3096 | 3100 | 3103 | 3107 | 3110 | 3114 | 3117 | 3121 | 3124 | 3128 | 3132 | 3135 |
| 3 | 37 | | 3367 | 3370 | 3374 | 3377 | 3381 | 3384 | 3387 | 3391 | 3394 | 3397 | 3401 | 3404 | 3408 | 3411 | 3414 | 3418 | 3421 |
| 3 | 38 | | 3655 | 3559 | 3662 | 3665 | 3668 | 3672 | 3675 | 3678 | 3681 | 3684 | 3688 | 3691 | 3694 | 3697 | 3701 | 3704 | 3787 |
| 3 | 39 | | 3944 | 3947 | 3950 | 3953 | 3956 | 3959 | 3962 | 3965 | 3968 | 3972 | 3975 | 3978 | 3981 | 3984 | 3987 | 3998 | 3993 |
| 3 | 48 | 9 | 4239 | 4235 | 4238 | 4241 | 4244 | 4247 | 4250 | 4253 | 4256 | 4259 | 4262 | 4264 | 4267 | 4270 | 4273 | 4276 | 4279 |
| 3 | 41 | | 4521 | 4523 | 4526 | 4529 | 4532 | 4534 | 4537 | 4540 | 4543 | 4546 | 4548 | 4551 | 4554 | 4557 | 4560 | 4562 | 4565 |
| 3 | 42 | | 4809 | 4812 | 4814 | 4817 | 4819 | 4822 | 4825 | 4827 | 4830 | 4833 | 4835 | 4838 | 4841 | 4843 | 4846 | 4849 | 4851 |
| 3 | 43 | | 5097 | 5100 | 5102 | 5105 | 5107 | 5110 | 5112 | 5115 | 5117 | 5120 | 5122 | 5125 | 5127 | 5130 | 5132 | 5135 | 5137 |
| 3 | 44 | | 5385 | 5388 | 5390 | 5393 | 5395 | 5397 | 5408 | 5402 | 5404 | 5407 | 5409 | 5412 | 5414 | 5416 | 5419 | 5421 | 5423 |
| 3 | 45 | 9 | 5674 | 5675 | 5678 | 5681 | 5683 | 5685 | 5687 | 5689 | 5699 | 5694 | 5696 | 5698 | 5701 | 5703 | 5705 | 5707 | 5789 |
| 3 | 46 | | 5952 | 5965 | 5967 | 5969 | 5971 | 5973 | 5975 | 5977 | 5979 | 5981 | 5983 | 5985 | 5987 | 5989 | 5991 | 5993 | 5995 |
| 4 | 47 | | 6251 | 6253 | 6255 | 6257 | 6258 | 6260 | 6262 | 6264 | 6266 | 6268 | 6270 | 6272 | 6274 | 6276 | 6278 | 5280 | 6281 |
| 4 | 48 | | 5539 | 6541 | 6543 | 6545 | 5546 | 6548 | 6550 | 6552 | 6553 | 6555 | 6557 | 6559 | 6561 | 6562 | 6564 | 6566 | 6568 |
| 4 | 49 | | 6828 | 6829 | 6831 | 6839 | 6834 | 6836 | 6837 | 6839 | 6841 | 6842 | 6844 | 6845 | 6847 | 6849 | 6850 | 6852 | 6854 |
| 4 | 50 | 9 | 7116 | 7117 | 7119 | 7120 | 7122 | 7123 | 7125 | 7126 | 7128 | 7129 | 7131 | 7132 | 7134 | 7135 | 7137 | 7138 | 7140 |
| 4 | 51 | | 7404 | 7486 | 7487 | 7408 | 7410 | 7411 | 7412 | 7414 | 7415 | 7416 | 7418 | 7419 | 7420 | 7422 | 7423 | 7424 | 7426 |
| 4 | 52 | | 7593 | 7594 | 7695 | 7696 | 7698 | 7699 | 7700 | 7781 | 7782 | 7703 | 7705 | 7706 | 7707 | 7708 | 7709 | 7718 | 7712 |
| 4 | 53 | | 7281 | 7982 | 7983 | 7984 | 7985 | 7286 | 7987 | 7988 | 7989 | 7990 | 7991 | 7293 | 7994 | 7995 | 7996 | 7997 | 7998 |
| 4 | 54 | | 8278 | 8271 | 8271 | 8272 | 8273 | 8274 | 8275 | 8276 | 8277 | 8278 | 8278 | 8279 | 8288 | 8281 | 8282 | 8283 | 8284 |
| 4 | 55 | 9 | 8558 | 8559 | 8559 | 8560 | 8561 | 8562 | 8562 | 8563 | 8564 | 8565 | 8565 | 8566 | 8567 | 8568 | 8568 | 8569 | 8570 |
| 4 | 56 | | 8846 | 8847 | 8848 | 8848 | 8849 | 8849 | 8858 | 8858 | 8851 | 8852 | 8852 | 8853 | 8853 | 8854 | 8855 | 8855 | 8856 |
| 4 | 57 | | 9135 | 9135 | 9136 | 2136 | 9137 | 9137 | 9137 | 9138 | 9138 | 9132 | 2139 | 9148 | 9140 | 9148 | 9141 | 9141 | 9142 |
| 4 | 58 | | 2423 | 9423 | 9424 | 9424 | 9424 | 9425 | 9425 | 9425 | 9426 | 9426 | 2496 | 9496 | 9427 | 9427 | 9427 | 9428 | 9428 |
| 4 | 59 | | 9712 | 9712 | 9712 | 2712 | 2712 | 9712 | 2712 | 2713 | 2713 | 9713 | 9713 | 2713 | 9713 | 9713 | 9714 | 9714 | 9714 |

Num. IV para hallar la distancia corregida.

| Partes para segundos. | 89° | | Núm. |
|---|---|---|---|
| 0 | 0' | 8 | 2548 |
| 5 | 1 | | 2838 |
| 10 | 2 | | 3129 |
| 15 | 3 | | 3420 |
| 19 | 4 | | 3711 |
| 24 | 5 | 8 | 4002 |
| 29 | 6 | | 4293 |
| 34 | 7 | | 4584 |
| 39 | 8 | | 4874 |
| 44 | 9 | | 5165 |
| 48 | 10 | 8 | 5456 |
| 53 | 11 | | 5747 |
| 58 | 19 | | 6038 |
| 63 | 13 | | 6329 |
| 68 | 14 | | 6620 |
| 73 | 15 | 8 | 6910 |
| 77 | 16 | | 7201 |
| 82 | 17 | | 7492 |
| 87 | 18 | | 7783 |
| 92 | 19 | | 8074 |
| 97 | 20 | 8 | 8365 |
| 102 | 21 | | 8656 |
| 106 | 22 | | 8946 |
| 111 | 93 | | 9237 |
| 116 | 24 | | 9528 |
| 121 | 25 | 8 | 9819 |
| 126 | 26 | 9 | 0110 |
| 131 | 27 | | 0401 |
| 136 | 20 | | 0692 |
| 140 | 29 | | 0983 |
| 145 | 30 | 9 | 1273 |
| 150 | 31 | | 1564 |
| 155 | 32 | | 1855 |
| 160 | 33 | | 2146 |
| 165 | 34 | | 2437 |
| 169 | 35 | 9 | 2728 |
| 174 | 36 | | 3019 |
| 179 | 37 | | 3310 |
| 184 | 38 | | 3601 |
| 189 | 39 | | 3891 |
| 194 | 40 | 9 | 4182 |
| 199 | 41 | | 4473 |
| 203 | 42 | | 4764 |
| 208 | 43 | | 5055 |
| 213 | 44 | | 5346 |
| 218 | 45 | 2 | 5637 |
| 223 | 46 | | 5928 |
| 228 | 47 | | 6218 |
| 232 | 48 | | 6509 |
| 237 | 49 | | 6800 |
| 242 | 58 | 9 | 7091 |
| 247 | 51 | | 7382 |
| 252 | 62 | | 7673 |
| 257 | 53 | | 7964 |
| 261 | 54 | | 8255 |
| 266 | 55 | 9 | 8546 |
| 271 | 56 | | 8836 |
| 276 | 57 | | 2127 |
| 281 | 58 | | 9418 |
| 285 | 59 | | 9709 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 90° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 90° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 4 | 0' | 6 | 0000 | 0600 | 0000 | 8000 | 0000 | 0000 | 0000 | 0860 | 0608 | 8008 | 0000 | 0000 | 0000 | 0080 | 6000 | 0660 | 0000 | 290 | 0' | 1 7162 |
| 4 | 1 | | 0291 | 0291 | 0221 | 0290 | 0290 | 0290 | 0290 | 0290 | 0290 | 0290 | 0289 | 0289 | 0289 | 0289 | 0289 | 0209 | 0266 | 286 | 1 | 6871 |
| 4 | 2 | | 0582 | 0581 | 0581 | 0581 | 0580 | 0580 | 0580 | 0580 | 6572 | 6579 | 0579 | 0578 | 0578 | 0578 | 8577 | 0577 | 0577 | 281 | 2 | 6580 |
| 4 | 3 | | 0872 | 0872 | 0071 | 0871 | 0871 | 6878 | 8870 | 6869 | 0869 | 0868 | 0068 | 0867 | 0867 | 0867 | 0866 | 6666 | 0065 | 276 | 3 | 6289 |
| 4 | 4 | | 1163 | 1162 | 1162 | 1161 | 1161 | 1160 | 1160 | 1159 | 1158 | 1158 | 1157 | 1157 | 1156 | 1155 | 1156 | 1154 | 1154 | 271 | 4 | 5998 |
| 4 | 5 | 0 | 1454 | 1453 | 1452 | 1452 | 1451 | 1450 | 1449 | 1449 | 1448 | 1447 | 1446 | 1446 | 1445 | 1444 | 1443 | 1443 | 1442 | 266 | 6 | 1 5707 |
| 4 | 6 | | 1744 | 1744 | 1743 | 1742 | 1741 | 1740 | 1739 | 1738 | 1737 | 1737 | 1736 | 1735 | 1734 | 1733 | 1732 | 1731 | 1730 | 261 | 6 | 5416 |
| 4 | 7 | | 2035 | 2034 | 2033 | 2032 | 2031 | 2630 | 2029 | 2028 | 2027 | 2026 | 2025 | 2024 | 2023 | 2022 | 2021 | 2020 | 2012 | 257 | 7 | 5126 |
| 4 | 8 | | 2326 | 2325 | 2324 | 2323 | 2321 | 2320 | 2319 | 2318 | 2317 | 2315 | 2314 | 2313 | 2312 | 2311 | 2310 | 2308 | 2307 | 252 | 8 | 4835 |
| 4 | 9 | | 2617 | 2616 | 2614 | 2613 | 2611 | 2610 | 2609 | 2608 | 2606 | 2605 | 2604 | 2602 | 2601 | 2600 | 2528 | 2597 | 2596 | 247 | 9 | 4544 |
| 4 | 18 | 8 | 2908 | 2906 | 2905 | 2903 | 2902 | 2900 | 2899 | 2897 | 2896 | 2894 | 2893 | 2891 | 2890 | 2889 | 2887 | 2885 | 2884 | 242 | 10 | 1 4253 |
| 4 | 11 | | 3198 | 3197 | 3125 | 3193 | 3192 | 3190 | 3189 | 3187 | 3185 | 3184 | 3182 | 3180 | 3179 | 3177 | 3176 | 3174 | 3172 | 237 | 11 | 3962 |
| 4 | 12 | | 3489 | 3487 | 3485 | 3484 | 3482 | 3480 | 3478 | 3476 | 3475 | 3473 | 3471 | 3470 | 3458 | 3466 | 3464 | 3463 | 3451 | 232 | 12 | 3671 |
| 4 | 13 | | 3780 | 3778 | 3776 | 3774 | 3772 | 3770 | 3768 | 3766 | 3764 | 3763 | 3761 | 3759 | 3757 | 3755 | 3753 | 3751 | 3749 | 228 | 13 | 3380 |
| 3 | 14 | | 4070 | 4068 | 4066 | 4064 | 4062 | 4060 | 4038 | 4056 | 4054 | 4052 | 4050 | 4048 | 4046 | 4044 | 4042 | 4040 | 4038 | 223 | 14 | 3090 |
| 3 | 15 | 0 | 4361 | 4359 | 4357 | 4355 | 4352 | 4350 | 4348 | 4346 | 4344 | 4341 | 4339 | 4337 | 4336 | 4333 | 4330 | 4328 | 4326 | 218 | 15 | 1 2799 |
| 3 | 16 | | 4652 | 4650 | 4647 | 4645 | 4643 | 4640 | 4638 | 4635 | 4633 | 4631 | 4628 | 4526 | 4524 | 4621 | 4612 | 4517 | 4614 | 213 | 16 | 2508 |
| 3 | 17 | | 4943 | 4940 | 4930 | 4935 | 4933 | 4930 | 4928 | 4925 | 4923 | 4920 | 4910 | 4915 | 4913 | 4910 | 4908 | 4905 | 4903 | 206 | 17 | 2217 |
| 3 | 18 | | 5233 | 5231 | 5228 | 5225 | 5223 | 5220 | 5218 | 5215 | 5212 | 5210 | 5207 | 5204 | 5202 | 6199 | 5196 | 5194 | 5191 | 203 | 18 | 1926 |
| 3 | 19 | | 5524 | 5521 | 5519 | 5516 | 5513 | 5510 | 5507 | 5585 | 5502 | 5499 | 5496 | 5193 | 5491 | 6488 | 5485 | 5482 | 5479 | 199 | 19 | 1635 |
| 3 | 20 | 6 | 6815 | 5812 | 5809 | 5806 | 5803 | 5800 | 5797 | 5794 | 5791 | 5788 | 6786 | 5783 | 5780 | 5777 | 5774 | 5771 | 5768 | 194 | 20 | 1 1344 |
| 3 | 21 | | 6106 | 6102 | 6899 | 6096 | 6093 | 6090 | 6087 | 6084 | 6001 | 6078 | 6075 | 6072 | 6069 | 6056 | 6062 | 6059 | 6056 | 189 | 21 | 1054 |
| 3 | 22 | | 6396 | 6393 | 6390 | 6387 | 6383 | 6380 | 6377 | 6374 | 6371 | 6367 | 6364 | 6361 | 6358 | 6354 | 6351 | 5348 | 6345 | 184 | 22 | 0763 |
| 3 | 23 | | 6687 | 6684 | 6600 | 6677 | 6674 | 6670 | 6667 | 6663 | 6660 | 5667 | 5653 | 6650 | 6647 | 6643 | 6640 | 6635 | 5633 | 179 | 23 | 6472 |
| 3 | 24 | | 6978 | 6974 | 6971 | 6967 | 6964 | 6960 | 6957 | 6953 | 6950 | 6946 | 6943 | 6939 | 6936 | 6932 | 6929 | 6925 | 6921 | 174 | 24 | 0181 |
| 3 | 25 | 0 | 7268 | 7265 | 7261 | 7258 | 7254 | 7250 | 7246 | 7243 | 7239 | 7236 | 7232 | 7228 | 7225 | 7221 | 7217 | 7214 | 7210 | 169 | 25 | 0 9890 |
| 3 | 26 | | 7559 | 7555 | 7552 | 7548 | 7544 | 7546 | 7536 | 7533 | 7629 | 7525 | 7521 | 7517 | 7514 | 7510 | 7506 | 7502 | 7498 | 165 | 26 | 2599 |
| 2 | 27 | | 7849 | 7046 | 7842 | 7838 | 7834 | 7038 | 7826 | 7822 | 7818 | 7814 | 7810 | 7806 | 7802 | 7799 | 7795 | 7791 | 7787 | 160 | 27 | 9308 |
| 2 | 28 | | 8140 | 0137 | 8133 | 8128 | 8124 | 8120 | 0116 | 8112 | 8108 | 8104 | 8100 | 8096 | 8091 | 8087 | 8083 | 8079 | 8075 | 155 | 28 | 9017 |
| 2 | 29 | | 8431 | 8427 | 8423 | 8419 | 8414 | 8410 | 8486 | 8402 | 8397 | 8393 | 8389 | 8385 | 8380 | 8376 | 8372 | 8368 | 8363 | 150 | 29 | 8727 |
| 2 | 30 | 0 | 8722 | 8718 | 8713 | 8709 | 8705 | 8700 | 8696 | 8691 | 8687 | 8683 | 8678 | 0674 | 6669 | 8665 | 8661 | 8656 | 8652 | 145 | 30 | 0 8436 |
| 2 | 31 | | 9013 | 9009 | 9004 | 8999 | 8995 | 8990 | 8986 | 8981 | 8977 | 8972 | 8967 | 8963 | 8958 | 8954 | 8949 | 8945 | 8940 | 140 | 31 | 8145 |
| 2 | 32 | | 9304 | 9299 | 9294 | 9290 | 9285 | 9280 | 9276 | 9271 | 9256 | 9261 | 9257 | 9252 | 9247 | 9243 | 9238 | 9233 | 9229 | 136 | 32 | 7854 |
| 2 | 33 | | 9594 | 9590 | 9586 | 9580 | 9575 | 9570 | 9565 | 9561 | 9556 | 9551 | 9545 | 9541 | 9536 | 9531 | 9527 | 9522 | 9517 | 131 | 33 | 7563 |
| 2 | 34 | | 9805 | 9800 | 9875 | 9870 | 9865 | 9860 | 9855 | 9850 | 9845 | 9840 | 9835 | 9830 | 9825 | 9820 | 9815 | 9810 | 2805 | 126 | 34 | 7272 |
| 2 | 35 | 1 | 8176 | 0171 | 0166 | 0160 | 0165 | 0150 | 8145 | 0140 | 0135 | 0130 | 0124 | 0119 | 0114 | 0109 | 0104 | 0099 | 0094 | 121 | 35 | 0 6981 |
| 2 | 36 | | 0467 | 0461 | 0456 | 0451 | 0445 | 0440 | 0435 | 0430 | 0124 | 0419 | 0414 | 0408 | 0403 | 0398 | 0393 | 0387 | 0382 | 116 | 36 | 6690 |
| 2 | 37 | | 0757 | 0752 | 0746 | 0741 | 0736 | 0738 | 8725 | 8720 | 0714 | 0708 | 6703 | 0698 | 0692 | 0687 | 8681 | 0676 | 0670 | 111 | 37 | 6329 |
| 2 | 38 | | 1048 | 1042 | 1037 | 1031 | 1026 | 1020 | 1015 | 1609 | 1003 | 8998 | 0992 | 0987 | 8981 | 0976 | 0978 | 0964 | 0959 | 106 | 38 | 6109 |
| 2 | 39 | | 1339 | 1333 | 1327 | 1322 | 1316 | 1318 | 1304 | 1299 | 1293 | 1287 | 1282 | 1276 | 1270 | 1264 | 1259 | 1253 | 1247 | 182 | 39 | 5818 |
| 1 | 40 | 1 | 1629 | 1624 | 1618 | 1612 | 1606 | 1600 | 1594 | 1589 | 1583 | 1577 | 1571 | 1565 | 1559 | 1553 | 1547 | 1541 | 1536 | 97 | 48 | 6 5527 |
| 1 | 41 | | 1926 | 1914 | 1908 | 1902 | 1896 | 1890 | 1884 | 1878 | 1872 | 1866 | 1860 | 1854 | 1848 | 1842 | 1836 | 1830 | 1824 | 22 | 41 | 5236 |
| 1 | 42 | | 2211 | 2205 | 2199 | 2192 | 2186 | 2180 | 2174 | 2168 | 2162 | 2155 | 2149 | 2143 | 2137 | 2131 | 2125 | 2118 | 2112 | 67 | 42 | 4945 |
| 1 | 43 | | 2502 | 2495 | 2489 | 2483 | 2476 | 2478 | 2464 | 2457 | 2451 | 2445 | 2439 | 2432 | 2426 | 2420 | 2413 | 2407 | 2481 | 62 | 43 | 4654 |
| 1 | 44 | | 2792 | 2786 | 2779 | 2773 | 2767 | 2766 | 2754 | 2747 | 2741 | 2734 | 2728 | 2721 | 2715 | 2768 | 2702 | 2695 | 2689 | 77 | 44 | 4363 |
| 1 | 45 | 1 | 3083 | 3876 | 3078 | 3063 | 3057 | 3858 | 3043 | 3637 | 3838 | 3024 | 3017 | 3016 | 3004 | 2997 | 2991 | 2984 | 2977 | 73 | 45 | 0 4072 |
| 1 | 46 | | 3374 | 3367 | 3360 | 3354 | 3347 | 3340 | 3333 | 3327 | 3320 | 3313 | 3306 | 3300 | 3293 | 3286 | 3279 | 3273 | 3266 | 68 | 46 | 3782 |
| 1 | 47 | | 3665 | 3658 | 3651 | 3644 | 3637 | 3630 | 3623 | 3616 | 3609 | 3602 | 3596 | 3589 | 3582 | 3575 | 3568 | 3561 | 3554 | 63 | 47 | 3491 |
| 1 | 46 | | 3955 | 3948 | 3941 | 3934 | 3927 | 3920 | 3913 | 3986 | 3899 | 3892 | 3885 | 3878 | 3871 | 3864 | 3857 | 3858 | 3842 | 58 | 48 | 3200 |
| 1 | 49 | | 4246 | 4239 | 4232 | 4224 | 4217 | 4218 | 4203 | 4196 | 4188 | 4181 | 4174 | 4167 | 4160 | 4152 | 4145 | 4138 | 4131 | 63 | 49 | 2989 |
| 1 | 56 | 1 | 4537 | 4529 | 4522 | 4515 | 4507 | 4508 | 4493 | 4485 | 4478 | 4471 | 4463 | 4456 | 4449 | 4441 | 4434 | 4427 | 4419 | 48 | 50 | 0 2618 |
| 1 | 51 | | 4827 | 4820 | 4812 | 4805 | 4797 | 4798 | 4782 | 4775 | 4767 | 4760 | 4753 | 4745 | 4738 | 4730 | 4723 | 4715 | 4768 | 44 | 61 | 2327 |
| 1 | 62 | | 5118 | 5111 | 5103 | 5095 | 5088 | 5080 | 5072 | 5065 | 5057 | 5049 | 5042 | 5034 | 5026 | 5019 | 5811 | 5004 | 4296 | 39 | 62 | 2036 |
| 1 | 53 | | 5409 | 5481 | 5393 | 5385 | 5370 | 5370 | 5362 | 5354 | 5347 | 5339 | 5331 | 5323 | 5315 | 5308 | 5360 | 5292 | 5284 | 34 | 53 | 1745 |
| 0 | 54 | | 5699 | 5692 | 5684 | 5676 | 5668 | 5660 | 5652 | 5644 | 5636 | 5628 | 5620 | 5612 | 5684 | 5596 | 5589 | 5581 | 5573 | 29 | 54 | 1454 |
| 0 | 65 | 1 | 5990 | 5982 | 5974 | 5966 | 5958 | 5950 | 5942 | 5934 | 5926 | 5918 | 5909 | 5901 | 5893 | 5885 | 5877 | 5869 | 5861 | 24 | 55 | 6 1164 |
| 0 | 56 | | 6281 | 6273 | 6264 | 6256 | 6248 | 6240 | 6232 | 6223 | 6215 | 6207 | 6199 | 6190 | 6182 | 6174 | 6166 | 6158 | 6149 | 12 | 56 | 8873 |
| 8 | 57 | | 6572 | 6563 | 6555 | 6546 | 6538 | 6530 | 6521 | 6513 | 6505 | 6496 | 6488 | 6480 | 6471 | 6463 | 6454 | 6446 | 6438 | 15 | 67 | 0582 |
| 8 | 50 | | 6862 | 6854 | 6845 | 6837 | 6828 | 6820 | 6811 | 6803 | 6794 | 6706 | 6777 | 6769 | 6768 | 6752 | 6743 | 6735 | 6726 | 10 | 58 | 8291 |
| 0 | 59 | | 7153 | 7144 | 7136 | 7127 | 7118 | 7118 | 7101 | 7092 | 7084 | 7075 | 7066 | 7058 | 7049 | 7040 | 7032 | 7623 | 7614 | 6 | 59 | 6008 |

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**TABLA X.** Número I para la suma de alturas aparentes / y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 90° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 26' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0' | 0 | 0000 | 0006 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0600 | 0000 | 0000 |
| 4 | 1 | | 0258 | 0266 | 0268 | 0266 | 0288 | 0280 | 0287 | 0287 | 0287 | 0287 | 0287 | 0287 | 0287 | 0286 | 0286 | 0286 | 0286 |
| 4 | 2 | | 0577 | 0576 | 0576 | 0576 | 0575 | 0575 | 0576 | 0574 | 0574 | 0574 | 0574 | 0573 | 0573 | 0573 | 0572 | 0672 | 0572 |
| 4 | 3 | | 0865 | 0864 | 0864 | 0863 | 0863 | 0863 | 0862 | 0862 | 0661 | 0861 | 0860 | 0860 | 0660 | 0069 | 0059 | 0658 | 0658 |
| 4 | 4 | | 1153 | 1162 | 1162 | 1161 | 1151 | 1150 | 1150 | 1149 | 1148 | 1148 | 1147 | 1147 | 1146 | 1145 | 1145 | 1144 | 1144 |
| 4 | 5 | 0 | 1441 | 1441 | 1440 | 1439 | 1438 | 1438 | 1437 | 1436 | 1435 | 1435 | 1434 | 1433 | 1432 | 1432 | 1431 | 1430 | 1430 |
| 4 | 6 | | 1720 | 1729 | 1728 | 1727 | 1726 | 1725 | 1724 | 1723 | 1722 | 1722 | 1721 | 1720 | 1712 | 1710 | 1717 | 1716 | 1715 |
| 4 | 7 | | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 |
| 4 | 8 | | 2306 | 2305 | 2304 | 2303 | 2301 | 2300 | 2290 | 2290 | 2297 | 2205 | 2294 | 2223 | 2292 | 2291 | 2290 | 2280 | 2207 |
| 4 | 9 | | 2694 | 2593 | 2592 | 2620 | 2589 | 2508 | 2586 | 2585 | 2504 | 2502 | 2581 | 2580 | 2578 | 2577 | 2576 | 2574 | 2573 |
| 4 | 10 | 0 | 2883 | 2881 | 2800 | 2870 | 2677 | 2875 | 2674 | 2072 | 2071 | 2869 | 2868 | 2666 | 2865 | 2063 | 2662 | 2860 | 2859 |
| 4 | 11 | | 3171 | 3109 | 3108 | 3166 | 3164 | 3163 | 3161 | 3150 | 3158 | 3156 | 3155 | 3153 | 3151 | 3150 | 3148 | 3146 | 3145 |
| 4 | 12 | | 3459 | 3467 | 3455 | 3454 | 3452 | 3450 | 3440 | 3447 | 3145 | 3443 | 3441 | 3440 | 3438 | 3436 | 3434 | 3432 | 3431 |
| 4 | 13 | | 3747 | 3745 | 3743 | 3742 | 3740 | 3738 | 3736 | 3734 | 3732 | 3730 | 3728 | 3726 | 3724 | 3722 | 3720 | 3712 | 3717 |
| 3 | 14 | | 4035 | 4033 | 4031 | 4020 | 4027 | 4025 | 4023 | 4021 | 4019 | 4017 | 1015 | 4013 | 4011 | 4002 | 4007 | 4005 | 4003 |
| 3 | 15 | 0 | 4324 | 4322 | 4319 | 4317 | 4315 | 4313 | 4311 | 4308 | 4306 | 4304 | 4302 | 4229 | 4297 | 4295 | 4203 | 4291 | 4288 |
| 3 | 16 | | 4612 | 4610 | 4607 | 4605 | 4603 | 4600 | 4598 | 4506 | 4593 | 4591 | 4568 | 4586 | 4504 | 4561 | 4579 | 4577 | 4574 |
| 3 | 17 | | 4900 | 1096 | 4025 | 4893 | 4890 | 4888 | 4885 | 4883 | 4880 | 4878 | 4675 | 4673 | 4070 | 4666 | 4665 | 4863 | 4660 |
| 3 | 18 | | 5188 | 5106 | 5103 | 5101 | 5178 | 5175 | 5173 | 5170 | 5167 | 5165 | 5162 | 5150 | 5167 | 5154 | 5151 | 5149 | 5116 |
| 3 | 10 | | 5477 | 5474 | 5471 | 5468 | 5406 | 5403 | 6460 | 5457 | 5454 | 5452 | 5440 | 5446 | 5443 | 5440 | 5430 | 5435 | 5132 |
| 3 | 20 | 0 | 6765 | 5762 | 5750 | 5756 | 5753 | 5750 | 5747 | 5744 | 5741 | 5738 | 5736 | 5733 | 5730 | 5727 | 5724 | 5721 | 5718 |
| 3 | 21 | | 6053 | 6050 | 6047 | 6014 | 6041 | 6038 | 6035 | 6032 | 6028 | 6025 | 6022 | 6010 | 6016 | 6013 | 6010 | 6007 | 6004 |
| 3 | 22 | | 6341 | 6338 | 6335 | 6332 | 6320 | 6325 | 6322 | 5312 | 6316 | 5312 | 6309 | 6306 | 6303 | 6202 | 6296 | 6223 | 6290 |
| 3 | 23 | | 6630 | 6626 | 6623 | 6619 | 6616 | 6513 | 6600 | 6605 | 6603 | 5502 | 6596 | 6522 | 6589 | 6586 | 6582 | 6579 | 6575 |
| 3 | 24 | | 0918 | 6014 | 6911 | 6907 | 6904 | 6200 | 6627 | 6603 | 6800 | 6886 | 6683 | 6872 | 6876 | 6872 | 6868 | 6665 | 6661 |
| 3 | 25 | 0 | 7206 | 7202 | 7199 | 7195 | 7191 | 7187 | 7184 | 7180 | 7177 | 7173 | 7169 | 7166 | 7162 | 7158 | 7155 | 7151 | 7147 |
| 3 | 26 | | 7494 | 7491 | 7487 | 7483 | 7479 | 7475 | 7471 | 7468 | 7464 | 7460 | 7456 | 7452 | 7448 | 7445 | 7441 | 7437 | 7433 |
| 2 | 27 | | 7763 | 7770 | 7775 | 7771 | 7707 | 7763 | 7750 | 7755 | 7751 | 7747 | 7743 | 7739 | 7735 | 7731 | 7727 | 7723 | 7712 |
| 2 | 28 | | 8071 | 0067 | 8063 | 8059 | 8054 | 8050 | 8046 | 8042 | 8038 | 8034 | 8030 | 6026 | 8021 | 8017 | 8013 | 6009 | 8005 |
| 2 | 29 | | 0359 | 8355 | 6351 | 6346 | 8342 | 8338 | 8334 | 8320 | 8325 | 8321 | 8316 | 8312 | 8308 | 8304 | 6299 | 6225 | 8291 |
| 2 | 30 | 0 | 8647 | 8643 | 8639 | 8634 | 8630 | 8625 | 8621 | 8616 | 8612 | 8608 | 8603 | 8509 | 8524 | 8590 | 8586 | 8581 | 8577 |
| 2 | 31 | | 8936 | 8231 | 0926 | 6022 | 8017 | 0213 | 8908 | 8904 | 8899 | 8895 | 8890 | 8885 | 8881 | 8676 | 8872 | 6867 | 8863 |
| 2 | 32 | | 9224 | 9219 | 9214 | 0210 | 2205 | 9200 | 0106 | 9101 | 2186 | 9181 | 0177 | 0172 | 9167 | 9163 | 9158 | 2153 | 9148 |
| 2 | 33 | | 9512 | 2507 | 2502 | 2497 | 9493 | 9488 | 2483 | 2478 | 9473 | 9468 | 9463 | 0459 | 9454 | 9442 | 2444 | 9439 | 0434 |
| 2 | 34 | | 9800 | 0795 | 2700 | 9785 | 9760 | 9775 | 0770 | 9765 | 9760 | 9755 | 0750 | 9745 | 9740 | 9735 | 9730 | 9725 | 9720 |
| 2 | 35 | 1 | 6066 | 0083 | 0078 | 0073 | 0066 | 0063 | 0058 | 0052 | 0017 | 0042 | 0037 | 0032 | 0027 | 0022 | 0016 | 0011 | 0006 |
| 2 | 30 | | 0377 | 0371 | 0366 | 0301 | 0356 | 0350 | 0345 | 0340 | 0334 | 0322 | 0324 | 0318 | 0313 | 0308 | 0303 | 0297 | 0292 |
| 2 | 37 | | 0665 | 0650 | 0654 | 0642 | 0643 | 0638 | 0632 | 0627 | 0621 | 0616 | 0611 | 0605 | 0600 | 0594 | 0589 | 0583 | 0578 |
| 2 | 38 | | 0953 | 0948 | 0242 | 0936 | 0931 | 0925 | 0220 | 0914 | 0908 | 0203 | 0897 | 0892 | 0886 | 0580 | 0875 | 0860 | 0864 |
| 2 | 39 | | 1241 | 1230 | 1230 | 1224 | 1216 | 1213 | 1207 | 1201 | 1196 | 1190 | 1184 | 1178 | 1173 | 1167 | 1161 | 1155 | 1150 |
| 1 | 40 | 1 | 1530 | 1524 | 1610 | 1612 | 1506 | 1500 | 1404 | 1488 | 1463 | 1477 | 1471 | 1466 | 1459 | 1453 | 1447 | 1441 | 1435 |
| 1 | 41 | | 1810 | 1012 | 1006 | 1800 | 1794 | 1768 | 1782 | 1776 | 1770 | 1764 | 1758 | 1752 | 1746 | 1739 | 1733 | 1727 | 1721 |
| 1 | 42 | | 2106 | 2100 | 2024 | 2066 | 2081 | 2076 | 2060 | 2063 | 2057 | 2050 | 2044 | 2038 | 2032 | 2026 | 2020 | 2013 | 2007 |
| 1 | 43 | | 2394 | 2388 | 2362 | 2375 | 2369 | 2363 | 2356 | 2350 | 2344 | 2337 | 2331 | 2325 | 2310 | 2312 | 2306 | 2299 | 2293 |
| 1 | 44 | | 2082 | 2670 | 2670 | 2663 | 2657 | 2550 | 2644 | 2637 | 2631 | 2624 | 2618 | 2611 | 2605 | 2596 | 2592 | 2585 | 2579 |
| 1 | 46 | 1 | 2071 | 2964 | 2956 | 2251 | 2944 | 2036 | 2931 | 2024 | 2018 | 2211 | 2905 | 2898 | 2691 | 2885 | 2870 | 2871 | 2065 |
| 1 | 46 | | 3259 | 3252 | 3245 | 3230 | 3232 | 3225 | 3218 | 3212 | 3205 | 3198 | 3191 | 3165 | 3170 | 3171 | 3164 | 3157 | 3151 |
| 1 | 47 | | 3647 | 3540 | 3533 | 3526 | 3520 | 3513 | 3506 | 3409 | 3492 | 3485 | 3478 | 3471 | 3464 | 3457 | 3450 | 3443 | 3436 |
| 1 | 40 | | 3635 | 3820 | 3821 | 3814 | 3807 | 3800 | 3793 | 3766 | 3770 | 3772 | 3765 | 3768 | 3751 | 3744 | 3737 | 3722 | 3722 |
| 1 | 49 | | 4124 | 4116 | 4109 | 4102 | 4096 | 4088 | 4000 | 4073 | 4066 | 4050 | 4052 | 4044 | 4037 | 4030 | 4023 | 4015 | 4008 |
| 1 | 50 | 1 | 4412 | 4404 | 4327 | 4300 | 4363 | 4376 | 4368 | 4360 | 4353 | 4346 | 4338 | 4331 | 4324 | 4316 | 4300 | 4301 | 4224 |
| 1 | 61 | | 4700 | 4603 | 4685 | 4678 | 4070 | 4663 | 4655 | 4648 | 4640 | 4633 | 4025 | 4018 | 4610 | 4602 | 4595 | 4567 | 4560 |
| 1 | 62 | | 4980 | 4201 | 4973 | 4965 | 4056 | 4250 | 4042 | 4935 | 4027 | 4919 | 4012 | 4904 | 4896 | 4869 | 4881 | 4873 | 4866 |
| 1 | 53 | | 6270 | 5259 | 5261 | 6253 | 5245 | 5237 | 6230 | 5222 | 5214 | 5206 | 5190 | 5191 | 5163 | 5175 | 5167 | 6159 | 5152 |
| 0 | 54 | | 5565 | 5557 | 6649 | 6541 | 6533 | 5525 | 5517 | 5509 | 5501 | 5423 | 5465 | 5477 | 5469 | 5461 | 5453 | 5446 | 5430 |
| 0 | 56 | 1 | 6053 | 5045 | 5837 | 5029 | 5821 | 5813 | 5804 | 6796 | 6788 | 5760 | 5772 | 5764 | 5766 | 5748 | 5740 | 5732 | 6723 |
| 0 | 56 | | 6141 | 0133 | 6125 | 6116 | 6108 | 0100 | 0092 | 6003 | 6075 | 6007 | 6050 | 6051 | 6042 | 6034 | 6026 | 6018 | 6002 |
| 0 | 57 | | 6422 | 6421 | 6413 | 6404 | 6326 | 6367 | 6372 | 6371 | 6362 | 6354 | 6345 | 6337 | 6320 | 6320 | 6312 | 6304 | 6205 |
| 0 | 58 | | 0710 | 6702 | 6701 | 6692 | 6603 | 6676 | 6666 | 6058 | 6642 | 6641 | 6032 | 6624 | 6015 | 6607 | 6508 | 6590 | 6581 |
| 0 | 59 | | 7606 | 5097 | 6055 | 6000 | 6271 | 6962 | 6954 | 6246 | 6036 | 6028 | 6210 | 6210 | 6002 | 6893 | 6684 | 6876 | 6867 |

**Num. IV para hallar la distancia corregida.**

| Partes para segundos. | 90° | Núm. | |
|---|---|---|---|
| 0 | 0' | 0 | 0000 |
| 5 | 1 | | 0221 |
| 10 | 2 | | 0582 |
| 15 | 3 | | 0873 |
| 19 | 4 | | 1164 |
| 21 | 5 | 0 | 1454 |
| 29 | 6 | | 1745 |
| 34 | 7 | | 2036 |
| 39 | 8 | | 2327 |
| 44 | 9 | | 2618 |
| 46 | 10 | 0 | 2200 |
| 53 | 11 | | 3200 |
| 58 | 12 | | 3491 |
| 63 | 13 | | 3782 |
| 68 | 14 | | 4072 |
| 73 | 15 | 0 | 4363 |
| 77 | 16 | | 4654 |
| 82 | 17 | | 4945 |
| 67 | 18 | | 5236 |
| 92 | 10 | | 5527 |
| 97 | 20 | 0 | 5518 |
| 102 | 21 | | 6109 |
| 106 | 22 | | 6399 |
| 111 | 23 | | 6690 |
| 116 | 24 | | 6081 |
| 121 | 25 | 0 | 7272 |
| 126 | 26 | | 7563 |
| 131 | 27 | | 7851 |
| 136 | 28 | | 8145 |
| 140 | 20 | | 6436 |
| 145 | 30 | 0 | 8727 |
| 150 | 31 | | 9017 |
| 155 | 32 | | 9306 |
| 160 | 33 | | 9599 |
| 165 | 34 | | 2690 |
| 169 | 35 | 1 | 0181 |
| 174 | 36 | | 0472 |
| 179 | 37 | | 0763 |
| 184 | 38 | | 1054 |
| 189 | 30 | | 1344 |
| 104 | 40 | 1 | 1635 |
| 199 | 41 | | 1926 |
| 203 | 42 | | 2217 |
| 208 | 43 | | 2506 |
| 213 | 44 | | 2799 |
| 218 | 45 | 1 | 3000 |
| 223 | 40 | | 3380 |
| 228 | 47 | | 3671 |
| 232 | 48 | | 3962 |
| 237 | 40 | | 4253 |
| 242 | 50 | 1 | 4544 |
| 247 | 51 | | 4835 |
| 252 | 52 | | 6126 |
| 257 | 53 | | 6416 |
| 261 | 64 | | 5707 |
| 266 | 65 | 1 | 5008 |
| 271 | 66 | | 5289 |
| 276 | 67 | | 0580 |
| 281 | 58 | | 6871 |
| 285 | 59 | | 7152 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 91° | | Argumento Auxiliar. 6' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 91° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 6' | 1 | 7444 | 7435 | 7426 | 7417 | 7408 | 7460 | 7391 | 7382 | 7373 | 7364 | 7356 | 7347 | 7338 | 7329 | 7320 | 7312 | 7303 | 290 | 0' | 9 6706 |
| 13 | 1 | | 7735 | 7725 | 7716 | 7708 | 7699 | 7690 | 7681 | 7672 | 7663 | 7654 | 7645 | 7636 | 7627 | 7618 | 7609 | 7600 | 7591 | 286 | 1 | 9418 |
| 13 | 2 | | 6025 | 8616 | 8607 | 7998 | 7989 | 7980 | 7970 | 7961 | 7652 | 7943 | 7934 | 7925 | 7916 | 7907 | 7898 | 7889 | 7879 | 281 | 2 | 9127 |
| 13 | 3 | | 8316 | 8307 | 8297 | 8288 | 8279 | 8270 | 8260 | 8251 | 8242 | 8233 | 8223 | 8214 | 8205 | 8196 | 8186 | 8177 | 8168 | 276 | 3 | 8836 |
| 13 | 4 | | 8606 | 8597 | 8588 | 8578 | 8569 | 8560 | 8550 | 8541 | 8531 | 8522 | 8613 | 8503 | 8494 | 8484 | 8475 | 8466 | 8456 | 271 | 4 | 8546 |
| 12 | 5 | 1 | 8897 | 8888 | 0078 | 8869 | 8859 | 8849 | 8840 | 8830 | 8821 | 8811 | 8802 | 8792 | 8783 | 8773 | 8764 | 8754 | 8744 | 266 | 5 | 9 8255 |
| 12 | 6 | | 6180 | 9178 | 9168 | 9159 | 9149 | 9139 | 9130 | 9120 | 9110 | 9101 | 9091 | 9081 | 9072 | 9062 | 9052 | 9042 | 9033 | 261 | 6 | 7964 |
| 12 | 7 | | 9478 | 9469 | 9459 | 9449 | 9439 | 9429 | 9420 | 9410 | 9400 | 9390 | 9380 | 9370 | 9361 | 9351 | 9341 | 9331 | 9321 | 257 | 7 | 7673 |
| 12 | 8 | | 9769 | 9760 | 9749 | 9739 | 9729 | 9719 | 9710 | 9699 | 9689 | 9679 | 9669 | 9659 | 9649 | 9639 | 9629 | 9620 | 9610 | 252 | 8 | 7382 |
| 11 | 9 | 2 (1) | 0066 | 0060 | 0040 | 0030 | 0019 | 0009 | 9999 | 9989 | 9979 | 9969 | 9959 | 9949 | 9938 | 9928 | 9918 | 9908 | 9898 | 247 | 9 | 7091 |
| 11 | 10 | 2 | 0351 | 0340 | 0330 | 0320 | 0310 | 0299 | 0289 | 0279 | 0268 | 0258 | 0248 | 0238 | 0227 | 0217 | 0207 | 0196 | 0186 | 242 | 10 | 9 6800 |
| 11 | 11 | | 0641 | 0631 | 0620 | 0610 | 0600 | 0589 | 0579 | 0668 | 0558 | 0548 | 0537 | 0527 | 0516 | 0506 | 0495 | 0485 | 0475 | 237 | 11 | 6506 |
| 11 | 12 | | 6932 | 0921 | 0911 | 0900 | 0890 | 0879 | 0869 | 0858 | 0847 | 0837 | 0826 | 0816 | 0805 | 0795 | 0784 | 0773 | 0763 | 232 | 12 | 6218 |
| 11 | 13 | | 1223 | 1212 | 1201 | 1190 | 1180 | 1169 | 1158 | 1148 | 1137 | 1126 | 1116 | 1105 | 1094 | 1083 | 1073 | 1062 | 1051 | 228 | 13 | 5928 |
| 10 | 14 | | 1513 | 1502 | 1492 | 1481 | 1470 | 1459 | 1448 | 1437 | 1426 | 1416 | 1405 | 1394 | 1383 | 1372 | 1361 | 1350 | 1340 | 223 | 14 | 5637 |
| 10 | 15 | 2 | 1804 | 1793 | 1782 | 1771 | 1760 | 1749 | 1738 | 1727 | 1716 | 1705 | 1694 | 1683 | 1672 | 1661 | 1650 | 1639 | 1628 | 218 | 15 | 9 5346 |
| 10 | 16 | | 2095 | 2004 | 2072 | 2061 | 2050 | 2039 | 2028 | 2017 | 2005 | 1994 | 1983 | 1972 | 1961 | 1950 | 1939 | 1928 | 1916 | 213 | 16 | 5055 |
| 10 | 17 | | 2385 | 2374 | 2363 | 2351 | 2340 | 2329 | 2318 | 2306 | 2295 | 2284 | 2272 | 2261 | 2250 | 2238 | 2227 | 2216 | 2204 | 208 | 17 | 4764 |
| 9 | 18 | | 2676 | 2665 | 2653 | 2642 | 2630 | 2619 | 2607 | 2596 | 2584 | 2573 | 2562 | 2550 | 2539 | 2527 | 2516 | 2504 | 2493 | 203 | 10 | 4473 |
| 9 | 19 | | 2967 | 2955 | 2943 | 2932 | 2920 | 2909 | 2897 | 2886 | 2874 | 2862 | 2851 | 2839 | 2828 | 2816 | 2804 | 2793 | 2701 | 199 | 19 | 4182 |
| 9 | 20 | 2 | 3257 | 3246 | 3234 | 3222 | 3210 | 3199 | 3187 | 3175 | 3163 | 3152 | 3140 | 3128 | 3117 | 3105 | 3093 | 3081 | 3069 | 194 | 20 | 9 3891 |
| 9 | 21 | | 3548 | 3536 | 3524 | 3512 | 3500 | 3489 | 3477 | 3465 | 3453 | 3441 | 3429 | 3417 | 3405 | 3393 | 3382 | 3370 | 3358 | 189 | 21 | 3601 |
| 9 | 22 | | 3839 | 3827 | 3815 | 3803 | 3790 | 3779 | 3766 | 3754 | 3742 | 3730 | 3718 | 3706 | 3694 | 3682 | 3670 | 3650 | 3646 | 184 | 22 | 3316 |
| 8 | 23 | | 4129 | 4117 | 4105 | 4093 | 4080 | 4068 | 4056 | 4044 | 4032 | 4020 | 4607 | 3995 | 3983 | 3971 | 3959 | 3947 | 3934 | 179 | 23 | 3019 |
| 8 | 24 | | 4420 | 4408 | 4395 | 4383 | 4371 | 4358 | 4346 | 4334 | 4321 | 4309 | 4297 | 4284 | 4272 | 4260 | 4247 | 4235 | 4223 | 174 | 24 | 2728 |
| 8 | 25 | 2 | 4710 | 4698 | 4686 | 4673 | 4661 | 4648 | 4636 | 4623 | 4611 | 4598 | 4586 | 4573 | 4561 | 4548 | 4536 | 4523 | 4511 | 169 | 25 | 9 2437 |
| 8 | 26 | | 5001 | 4909 | 4976 | 4963 | 4951 | 4938 | 4926 | 4913 | 4900 | 4888 | 4875 | 4862 | 4850 | 4837 | 4825 | 4812 | 4799 | 165 | 26 | 2146 |
| 7 | 27 | | 5292 | 5279 | 5266 | 5254 | 5241 | 5228 | 5215 | 5203 | 5190 | 5177 | 5164 | 6151 | 5139 | 5126 | 5113 | 5100 | 5088 | 160 | 27 | 1855 |
| 7 | 28 | | 5583 | 5570 | 5557 | 5544 | 6531 | 5518 | 5505 | 5492 | 5479 | 5466 | 5453 | 5441 | 6428 | 6415 | 5402 | 5389 | 5376 | 155 | 28 | 1564 |
| 7 | 29 | | 5873 | 5860 | 5847 | 5834 | 5821 | 5808 | 5795 | 5782 | 5769 | 5756 | 5743 | 5730 | 5717 | 5703 | 6690 | 5677 | 5664 | 150 | 29 | 1273 |
| 7 | 30 | 2 | 6164 | 6151 | 6137 | 6124 | 6111 | 6098 | 6085 | 6071 | 6058 | 6045 | 6032 | 6019 | 6005 | 5992 | 5979 | 5966 | 5953 | 145 | 30 | 9 0983 |
| 7 | 31 | | 6454 | 6441 | 6428 | 6414 | 6401 | 6388 | 6374 | 6361 | 6348 | 6334 | 6321 | 6308 | 6294 | 6281 | 6268 | 6254 | 6241 | 140 | 31 | 0692 |
| 6 | 32 | | 6745 | 6732 | 6718 | 6705 | 6691 | 6678 | 6664 | 6651 | 6637 | 6624 | 6610 | 6597 | 6583 | 6570 | 6556 | 6543 | 6529 | 136 | 32 | 0401 |
| 6 | 33 | | 7036 | 7022 | 7008 | 6995 | 6981 | 6968 | 6954 | 6940 | 6926 | 6913 | 6899 | 6886 | 6872 | 6858 | 6845 | 6831 | 6817 | 131 | 33 | 0110 |
| 6 | 34 | | 7326 | 7313 | 7299 | 7285 | 7271 | 7257 | 7244 | 7230 | 7216 | 7202 | 7188 | 7175 | 7161 | 7147 | 7133 | 7119 | 7106 | 126 | 34 | 8 9819 |
| 6 | 35 | 2 | 7617 | 7603 | 7589 | 7575 | 7561 | 7547 | 7533 | 7519 | 7506 | 7492 | 7478 | 7464 | 7450 | 7436 | 7422 | 7408 | 7394 | 121 | 35 | 8 9528 |
| 5 | 36 | | 7908 | 7894 | 7879 | 7865 | 7851 | 7837 | 7823 | 7809 | 7795 | 7781 | 7767 | 7753 | 7739 | 7724 | 7710 | 7696 | 7682 | 116 | 36 | 9237 |
| 5 | 37 | | 8198 | 8184 | 8170 | 8156 | 8141 | 8127 | 8113 | 8099 | 8084 | 8070 | 8056 | 8042 | 0027 | 8013 | 7999 | 7985 | 7971 | 111 | 37 | 8946 |
| 5 | 38 | | 8489 | 8475 | 8460 | 8446 | 8431 | 8417 | 8403 | 8388 | 8374 | 8360 | 8345 | 8331 | 8316 | 8302 | 8288 | 8273 | 8259 | 106 | 38 | 8656 |
| 5 | 39 | | 8780 | 8765 | 8751 | 8736 | 8721 | 8707 | 8692 | 8678 | 8663 | 8649 | 8634 | 8620 | 8605 | 8591 | 8576 | 8562 | 8547 | 102 | 39 | 8365 |
| 4 | 40 | 2 | 9070 | 9056 | 9041 | 9026 | 9011 | 8997 | 8982 | 8968 | 8953 | 8938 | 8923 | 8909 | 8894 | 8879 | 8865 | 8850 | 8835 | 97 | 40 | 8 8074 |
| 4 | 41 | | 9361 | 9346 | 9331 | 9316 | 9302 | 9287 | 9272 | 9257 | 9242 | 9227 | 9213 | 9198 | 9183 | 9168 | 9153 | 9138 | 9124 | 92 | 41 | 7783 |
| 4 | 42 | | 9651 | 9636 | 9621 | 9607 | 9592 | 9577 | 9662 | 9547 | 9532 | 9517 | 9502 | 9487 | 9472 | 9457 | 9442 | 9427 | 9412 | 87 | 42 | 7492 |
| 4 | 43 | | 9942 | 9927 | 9911 | 9897 | 9882 | 9866 | 9851 | 9836 | 9821 | 9806 | 9791 | 9776 | 9761 | 9746 | 9730 | 9715 | 9700 | 82 | 43 | 7201 |
| 4 | 44 | 3 (2) | 0233 | 0217 | 0202 | 0187 | 0172 | 0156 | 0141 | 0126 | 0111 | 0095 | 0080 | 0065 | 0050 | 0034 | 0019 | 0004 | 9988 | 77 | 44 | 6910 |
| 3 | 45 | 3 | 0523 | 0508 | 0492 | 0477 | 0462 | 0446 | 0431 | 0415 | 0400 | 0385 | 0369 | 0354 | 0338 | 0323 | 0307 | 0292 | 0277 | 73 | 45 | 8 6620 |
| 3 | 46 | | 0814 | 0798 | 0783 | 0767 | 0752 | 0736 | 0721 | 0705 | 0689 | 0674 | 0658 | 0643 | 0627 | 0612 | 0596 | 0580 | 0565 | 68 | 46 | 6329 |
| 3 | 47 | | 1104 | 1089 | 1073 | 1057 | 1042 | 1026 | 1010 | 0995 | 0979 | 0963 | 0947 | 0932 | 0916 | 0900 | 0885 | 0869 | 0853 | 63 | 47 | 6038 |
| 3 | 48 | | 1395 | 1379 | 1363 | 1347 | 1332 | 1316 | 1300 | 1284 | 1268 | 1253 | 1237 | 1221 | 1205 | 1189 | 1173 | 1157 | 1141 | 58 | 48 | 5747 |
| 2 | 46 | | 1686 | 1670 | 1654 | 1638 | 1622 | 1606 | 1590 | 1574 | 1558 | 1542 | 1526 | 1510 | 1494 | 1478 | 1462 | 1446 | 1430 | 53 | 49 | 6456 |
| 2 | 50 | 3 | 1976 | 1960 | 1944 | 1928 | 1912 | 1896 | 1879 | 1863 | 1847 | 1831 | 1815 | 1799 | 1782 | 1766 | 1750 | 1734 | 1718 | 48 | 60 | 8 5165 |
| 2 | 51 | | 2267 | 2250 | 2234 | 2218 | 2202 | 2185 | 2169 | 2153 | 2137 | 2120 | 2104 | 2088 | 2071 | 2056 | 2039 | 2022 | 2006 | 44 | 51 | 4874 |
| 2 | 52 | | 2557 | 2541 | 2524 | 2508 | 2492 | 2475 | 2459 | 2442 | 2426 | 2410 | 2393 | 2377 | 2360 | 2344 | 2327 | 2311 | 2294 | 39 | 62 | 4584 |
| 2 | 63 | | 2848 | 2831 | 2816 | 2798 | 2782 | 2766 | 2749 | 2732 | 2715 | 2699 | 2682 | 2666 | 2649 | 2633 | 2616 | 2599 | 2683 | 34 | 53 | 4293 |
| 1 | 64 | | 3138 | 3122 | 3105 | 3088 | 3072 | 3055 | 3038 | 3022 | 3005 | 2988 | 2971 | 2955 | 2938 | 2921 | 2904 | 2888 | 2871 | 29 | 54 | 4002 |
| 1 | 55 | 3 | 3429 | 3412 | 3395 | 3379 | 3362 | 3346 | 3328 | 3311 | 3294 | 3277 | 3260 | 3244 | 3227 | 3210 | 3193 | 3176 | 3159 | 24 | 55 | 8 3711 |
| 1 | 56 | | 3720 | 3703 | 3686 | 3669 | 3652 | 3635 | 3618 | 3601 | 3584 | 3567 | 3550 | 3532 | 3516 | 3498 | 3481 | 3464 | 3447 | 19 | 56 | 3420 |
| 1 | 57 | | 4010 | 3993 | 3976 | 3959 | 3942 | 3924 | 3907 | 3890 | 3873 | 3856 | 3839 | 3821 | 3804 | 3787 | 3770 | 3753 | 3736 | 15 | 57 | 3129 |
| 0 | 58 | | 4301 | 4284 | 4266 | 4249 | 4232 | 4214 | 4197 | 4180 | 4162 | 4145 | 4128 | 4110 | 4093 | 4076 | 4058 | 4041 | 4024 | 10 | 58 | 2838 |
| 0 | 59 | | 4591 | 4574 | 4657 | 4539 | 4522 | 4504 | 4487 | 4469 | 4452 | 4434 | 4417 | 4399 | 4382 | 4364 | 4347 | 4329 | 4312 | 5 | 59 | 2548 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 91° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 91° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 13 | 0′ | 1 | 7294 | 7285 | 7276 | 7267 | 7259 | 7250 | 7241 | 7232 | 7223 | 7215 | 7206 | 7197 | 7188 | 7179 | 7170 | 7162 | 7153 | 0 | 0′ | 1 7452 |
| 13 | 1 | | 7582 | 7573 | 7564 | 7555 | 7546 | 7537 | 7520 | 7519 | 7510 | 7501 | 7492 | 7483 | 7474 | 7465 | 7456 | 7447 | 7432 | 5 | 1 | 7743 |
| 13 | 2 | | 7870 | 7861 | 7852 | 7843 | 7834 | 7825 | 7816 | 7807 | 7797 | 7788 | 7779 | 7770 | 7761 | 7752 | 7743 | 7733 | 7724 | 10 | 2 | 8034 |
| 13 | 3 | | 8159 | 8142 | 8140 | 8131 | 8122 | 8112 | 8103 | 8094 | 8084 | 8075 | 8066 | 8057 | 8047 | 8038 | 8029 | 8019 | 8010 | 15 | 3 | 8325 |
| 13 | 4 | | 8447 | 8437 | 8428 | 8418 | 8409 | 8400 | 8390 | 8381 | 8371 | 8362 | 8353 | 8343 | 8334 | 8325 | 8315 | 8305 | 8296 | 12 | 4 | 8616 |
| 12 | 5 | 1 | 8735 | 8725 | 8716 | 8706 | 8697 | 8687 | 8678 | 8668 | 8658 | 8649 | 8639 | 8630 | 8620 | 8611 | 8601 | 8591 | 8582 | 24 | 5 | 1 8907 |
| 12 | 6 | | 2023 | 9013 | 9004 | 8994 | 8284 | 8975 | 8965 | 8955 | 8946 | 8236 | 8926 | 8216 | 8907 | 8897 | 8887 | 8877 | 8868 | 29 | 6 | 9197 |
| 12 | 7 | | 2311 | 9301 | 9222 | 9282 | 9272 | 9262 | 9252 | 9242 | 9233 | 9223 | 9213 | 9203 | 9123 | 9183 | 9173 | 9163 | 9154 | 34 | 7 | 9488 |
| 12 | 8 | | 9529 | 9590 | 9580 | 9570 | 9560 | 9550 | 9540 | 9530 | 9520 | 2510 | 2500 | 2482 | 9479 | 9462 | 9452 | 9449 | 9439 | 39 | 8 | 9779 |
| 11 | 9 | | 9888 | 9878 | 9867 | 9857 | 9847 | 2837 | 9827 | 9817 | 9807 | 2796 | 2786 | 9776 | 2766 | 9756 | 9746 | 2735 | 2725 | 44 | 9 | 2 0070 |
| 11 | 10 | 2 | 0176 | 0166 | 0155 | 0145 | 0135 | 0124 | 0114 | 0104 | 0094 | 0083 | 0073 | 0063 | 0052 | 0042 | 0032 | 0021 | 0011 | 48 | 10 | 2 0361 |
| 11 | 11 | | 0464 | 0454 | 0443 | 0433 | 0422 | 0412 | 0401 | 0321 | 0381 | 0370 | 0360 | 0349 | 0339 | 0328 | 0318 | 0307 | 0297 | 53 | 11 | 0652 |
| 11 | 12 | | 0752 | 0742 | 0731 | 0721 | 0710 | 0699 | 0689 | 0678 | 0668 | 0657 | 0646 | 0636 | 0625 | 0614 | 0604 | 0593 | 0583 | 58 | 12 | 0942 |
| 11 | 13 | | 1040 | 1030 | 1019 | 1008 | 0928 | 0987 | 0976 | 0265 | 0255 | 0944 | 0933 | 0922 | 0912 | 0901 | 0890 | 0879 | 0869 | 63 | 13 | 1233 |
| 10 | 14 | | 1322 | 1318 | 1307 | 1226 | 1285 | 1274 | 1263 | 1252 | 1242 | 1231 | 1220 | 1202 | 1198 | 1187 | 1176 | 1155 | 1154 | 68 | 14 | 1524 |
| 10 | 15 | 2 | 1617 | 1606 | 1595 | 1584 | 1573 | 1562 | 1551 | 1540 | 1529 | 1518 | 1506 | 1495 | 1484 | 1473 | 1462 | 1451 | 1440 | 73 | 15 | 2 1815 |
| 10 | 16 | | 1905 | 1894 | 1883 | 1871 | 1860 | 1849 | 1838 | 1827 | 1816 | 1804 | 1793 | 1782 | 1771 | 1760 | 1748 | 1737 | 1726 | 77 | 16 | 2106 |
| 10 | 17 | | 2193 | 2182 | 2171 | 2159 | 2148 | 2137 | 2125 | 2114 | 2103 | 2091 | 2080 | 2069 | 2057 | 2046 | 2035 | 2023 | 2012 | 82 | 17 | 2397 |
| 9 | 18 | | 2481 | 2470 | 2458 | 2447 | 2435 | 2424 | 2413 | 2401 | 2390 | 2378 | 2367 | 2355 | 2344 | 2332 | 2321 | 2309 | 2298 | 87 | 18 | 2687 |
| 9 | 19 | | 2770 | 2758 | 2746 | 2735 | 2723 | 2711 | 2700 | 2688 | 2676 | 2665 | 2653 | 2642 | 2630 | 2618 | 2607 | 2595 | 2583 | 92 | 19 | 2978 |
| 9 | 20 | 2 | 3058 | 3046 | 3034 | 3022 | 3011 | 2299 | 2987 | 2975 | 2964 | 2952 | 2940 | 2928 | 2916 | 2905 | 2893 | 2881 | 2869 | 27 | 20 | 2 3269 |
| 9 | 21 | | 3346 | 3334 | 3322 | 3310 | 3298 | 3286 | 3275 | 3262 | 3251 | 3239 | 3227 | 3215 | 3203 | 3191 | 3179 | 3167 | 3155 | 102 | 21 | 3560 |
| 9 | 22 | | 3634 | 3622 | 3610 | 3528 | 3586 | 3574 | 3562 | 3550 | 3538 | 3525 | 3513 | 3501 | 3489 | 3477 | 3465 | 3453 | 3441 | 106 | 22 | 3851 |
| 8 | 23 | | 3922 | 3910 | 3898 | 3886 | 3873 | 3061 | 3849 | 3837 | 3825 | 3812 | 3000 | 3788 | 3775 | 3763 | 3751 | 3739 | 3727 | 111 | 23 | 4141 |
| 8 | 24 | | 4210 | 4198 | 4186 | 4173 | 4101 | 4149 | 4136 | 4124 | 4111 | 4099 | 4087 | 4074 | 4062 | 4050 | 4037 | 4025 | 4012 | 116 | 24 | 4432 |
| 8 | 25 | 2 | 4498 | 4486 | 4473 | 4461 | 4449 | 4436 | 4424 | 4411 | 4398 | 4386 | 4373 | 4361 | 4348 | 4336 | 4323 | 4311 | 4298 | 121 | 25 | 2 4723 |
| 8 | 26 | | 4787 | 4774 | 4761 | 4742 | 4736 | 4723 | 4711 | 4698 | 4685 | 4673 | 4660 | 4647 | 4635 | 4622 | 4609 | 4597 | 4584 | 126 | 26 | 5014 |
| 7 | 27 | | 5075 | 5062 | 5049 | 5036 | 5024 | 5011 | 4998 | 4285 | 4972 | 4960 | 4947 | 4934 | 4221 | 4908 | 4826 | 4883 | 4870 | 131 | 27 | 5305 |
| 7 | 28 | | 5363 | 5350 | 5337 | 5324 | 5311 | 5298 | 5285 | 5272 | 5259 | 5240 | 5233 | 5221 | 5208 | 5125 | 5182 | 5169 | 5156 | 135 | 28 | 5595 |
| 7 | 29 | | 5651 | 5638 | 5625 | 5612 | 5599 | 5586 | 5573 | 5560 | 5546 | 5533 | 5520 | 5507 | 5494 | 5481 | 5468 | 5455 | 5441 | 140 | 29 | 0886 |
| 7 | 30 | 2 | 5939 | 5926 | 5913 | 5900 | 5886 | 5873 | 5860 | 5847 | 5833 | 5820 | 5807 | 5794 | 5780 | 5767 | 5754 | 5741 | 5727 | 145 | 30 | 2 6177 |
| 7 | 31 | | 6227 | 6214 | 6201 | 6187 | 6174 | 6161 | 6147 | 6134 | 6120 | 6108 | 6024 | 6080 | 6067 | 6053 | 6040 | 6027 | 6013 | 150 | 31 | 6468 |
| 6 | 32 | | 6516 | 6502 | 6488 | 6475 | 6461 | 6448 | 6434 | 6421 | 6407 | 6394 | 6380 | 6367 | 6353 | 6340 | 6326 | 6312 | 6299 | 155 | 32 | 6759 |
| 6 | 33 | | 6804 | 6790 | 6776 | 6763 | 6749 | 6735 | 6722 | 6708 | 6624 | 6681 | 6667 | 6653 | 6639 | 6626 | 6612 | 6598 | 6585 | 160 | 33 | 7049 |
| 6 | 34 | | 7092 | 7078 | 7064 | 7050 | 7036 | 7023 | 7009 | 6925 | 6981 | 6967 | 6954 | 6240 | 6926 | 6912 | 6898 | 6884 | 6870 | 165 | 34 | 7340 |
| 6 | 35 | 2 | 7380 | 7366 | 7352 | 7338 | 7324 | 7310 | 7296 | 7282 | 7268 | 7254 | 7240 | 7226 | 7212 | 7198 | 7184 | 7170 | 7156 | 169 | 35 | 2 7631 |
| 5 | 36 | | 7668 | 7654 | 7640 | 7626 | 7612 | 7598 | 7583 | 7569 | 7555 | 7541 | 7527 | 7513 | 7499 | 7484 | 7470 | 7456 | 7442 | 174 | 36 | 7922 |
| 5 | 37 | | 7956 | 7942 | 7928 | 7913 | 7899 | 7885 | 7871 | 7856 | 7842 | 7828 | 7814 | 7799 | 7785 | 7771 | 7756 | 7742 | 7728 | 179 | 37 | 8212 |
| 5 | 38 | | 8244 | 8230 | 8216 | 8201 | 8187 | 8172 | 8158 | 8143 | 8129 | 8115 | 8100 | 8086 | 8071 | 8057 | 8042 | 8028 | 8014 | 184 | 38 | 8503 |
| 5 | 39 | | 8533 | 8518 | 8503 | 8482 | 8474 | 8460 | 8445 | 8431 | 8416 | 8401 | 8387 | 8372 | 8358 | 8343 | 8322 | 8314 | 8299 | 189 | 39 | 8794 |
| 4 | 40 | 2 | 8821 | 8806 | 8791 | 8776 | 8762 | 8747 | 8732 | 8718 | 8703 | 8688 | 8673 | 8659 | 8644 | 8629 | 8615 | 8600 | 8585 | 194 | 40 | 2 9085 |
| 4 | 41 | | 9109 | 2024 | 9079 | 9064 | 2042 | 9030 | 2020 | 2005 | 8220 | 8275 | 8960 | 8945 | 8930 | 8216 | 8901 | 8886 | 8871 | 122 | 41 | 9375 |
| 4 | 42 | | 9327 | 9382 | 9367 | 9352 | 2337 | 2322 | 2307 | 2222 | 9277 | 2262 | 9247 | 9232 | 9217 | 2202 | 2187 | 2172 | 9157 | 203 | 42 | 2666 |
| 4 | 43 | | 9685 | 9670 | 9655 | 9640 | 2624 | 2602 | 9594 | 2579 | 2564 | 9549 | 2533 | 2518 | 9503 | 9488 | 2473 | 2458 | 9442 | 208 | 43 | 2957 |
| 4 | 44 | | 9973 | 2258 | 9943 | 9927 | 2212 | 9897 | 2881 | 2866 | 9851 | 2835 | 9820 | 9805 | 2790 | 9774 | 9759 | 9744 | 9728 | 213 | 44 | 3 0248 |
| 3 | 45 | 3 | 0261 | 0246 | 0230 | 0215 | 0199 | 0184 | 0169 | 0153 | 0138 | 0122 | 0107 | 0091 | 0076 | 0060 | 0045 | 0030 | 0014 | 218 | 45 | 3 0532 |
| 3 | 46 | | 0542 | 0534 | 0518 | 0503 | 0487 | 0471 | 0456 | 0440 | 0425 | 0402 | 0323 | 0378 | 0362 | 0347 | 0331 | 0316 | 0300 | 223 | 46 | 0829 |
| 3 | 47 | | 0837 | 0822 | 0806 | 0790 | 0774 | 0752 | 0743 | 0727 | 0712 | 0696 | 0680 | 0664 | 0642 | 0633 | 0617 | 0601 | 0585 | 228 | 47 | 1120 |
| 3 | 48 | | 1125 | 1110 | 1024 | 1078 | 1062 | 1046 | 1030 | 1014 | 0228 | 0983 | 0267 | 0951 | 0935 | 0212 | 0903 | 0887 | 0871 | 232 | 48 | 1411 |
| 2 | 49 | | 1414 | 1328 | 1382 | 1366 | 1350 | 1334 | 1317 | 1301 | 1285 | 1262 | 1253 | 1237 | 1221 | 1205 | 1189 | 1173 | 1157 | 237 | 49 | 1702 |
| 2 | 50 | 3 | 1702 | 1686 | 1669 | 1653 | 1637 | 1621 | 1605 | 1588 | 1572 | 1556 | 1510 | 1524 | 1508 | 1491 | 1475 | 1459 | 1443 | 242 | 50 | 3 1992 |
| 2 | 51 | | 1990 | 1274 | 1257 | 1941 | 1925 | 1908 | 1822 | 1876 | 1852 | 1843 | 1827 | 1810 | 1724 | 1778 | 1761 | 1745 | 1728 | 247 | 51 | 2283 |
| 2 | 52 | | 2278 | 2261 | 2245 | 2229 | 2212 | 2196 | 2179 | 2163 | 2146 | 2130 | 2113 | 2097 | 2080 | 2064 | 2047 | 2031 | 2014 | 252 | 52 | 2574 |
| 2 | 53 | | 2566 | 2549 | 2533 | 2516 | 2500 | 2483 | 2466 | 2450 | 2433 | 2416 | 2400 | 2383 | 2367 | 2350 | 2333 | 2317 | 2300 | 257 | 53 | 2864 |
| 1 | 54 | | 2854 | 2837 | 2821 | 2804 | 2787 | 2770 | 2753 | 2737 | 2720 | 2703 | 2686 | 2670 | 2653 | 2636 | 2612 | 2602 | 2586 | 261 | 54 | 3155 |
| 1 | 55 | 3 | 3142 | 3125 | 3108 | 3021 | 3075 | 3058 | 3041 | 3024 | 3007 | 2320 | 2973 | 2956 | 2939 | 2222 | 2905 | 2888 | 2871 | 266 | 55 | 3 3446 |
| 1 | 56 | | 3430 | 3413 | 3396 | 3379 | 3362 | 3345 | 3328 | 3311 | 3224 | 3277 | 3260 | 3243 | 3226 | 3208 | 3191 | 3174 | 3157 | 271 | 56 | 3737 |
| 1 | 57 | | 3718 | 3701 | 3684 | 3667 | 3650 | 3632 | 3615 | 3528 | 3581 | 3563 | 3546 | 3529 | 3512 | 3425 | 3477 | 3460 | 3443 | 276 | 57 | 4027 |
| 0 | 58 | | 4006 | 3289 | 3272 | 3954 | 3237 | 3920 | 3902 | 3885 | 3868 | 3850 | 3833 | 3815 | 3798 | 3781 | 3763 | 3746 | 3722 | 281 | 58 | 4318 |
| 0 | 59 | | 4225 | 4277 | 4260 | 4242 | 4224 | 4207 | 4190 | 4172 | 4154 | 4137 | 4112 | 4102 | 4084 | 4067 | 4049 | 4032 | 4014 | 206 | 59 | 4602 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 92° | | 6' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 92° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 6' | 3 | 4802 | 4864 | 4047 | 4029 | 4012 | 4794 | 4776 | 4759 | 4741 | 4724 | 4756 | 4680 | 4671 | 4653 | 4635 | 4610 | 4600 | 295 | 0' | 8 2257 |
| 22 | 1 | | 6173 | 5155 | 5137 | 6119 | 5152 | 5004 | 5066 | 5548 | 5031 | 5013 | 4925 | 4277 | 4960 | 4242 | 4224 | 4906 | 4808 | 286 | 1 | 1266 |
| 21 | 2 | | 5463 | 5445 | 5427 | 6459 | 5392 | 5374 | 5356 | 5330 | 5320 | 5302 | 5284 | 5266 | 5248 | 5230 | 5213 | 5125 | 5177 | 281 | 2 | 1675 |
| 21 | 3 | | 6754 | 5735 | 5718 | 5750 | 5682 | 5663 | 5645 | 5627 | 5602 | 5521 | 5573 | 5555 | 5537 | 5519 | 5551 | 5483 | 5465 | 276 | 3 | 1304 |
| 21 | 4 | | 6044 | 6026 | 6008 | 5995 | 5271 | 5253 | 5935 | 5917 | 5892 | 5881 | 5862 | 5044 | 5826 | 5806 | 6782 | 5771 | 5753 | 271 | 4 | 1023 |
| 20 | 5 | 3 | 6335 | 6316 | 6290 | 5900 | 6261 | 6243 | 6225 | 5206 | 6180 | 6175 | 5151 | 6133 | 6115 | 6096 | 6078 | 6860 | 6841 | 266 | 6 | 0 0803 |
| 20 | 6 | | 6525 | 6607 | 6588 | 6570 | 6551 | 6533 | 6515 | 6426 | 6477 | 6452 | 6441 | 6422 | 6403 | 6385 | 6366 | 6348 | 6329 | 261 | 6 | 5512 |
| 19 | 7 | | 6916 | 6897 | 6872 | 6868 | 6841 | 6023 | 6004 | 6765 | 5767 | 6748 | 6735 | 6711 | 6692 | 6674 | 6655 | 6636 | 6610 | 257 | 7 | 5221 |
| 19 | 8 | | 7205 | 7180 | 7169 | 7150 | 7131 | 7113 | 7024 | 7075 | 7056 | 7537 | 7012 | 7000 | 5981 | 6962 | 6943 | 6225 | 6906 | 252 | 0 | 7 9938 |
| 12 | 9 | | 7427 | 7478 | 7459 | 7440 | 7421 | 7403 | 7383 | 7365 | 7346 | 7327 | 7388 | 7289 | 7270 | 7251 | 7232 | 7213 | 7194 | 247 | 9 | 9632 |
| 18 | 10 | 3 | 7787 | 7768 | 7749 | 7730 | 7711 | 7692 | 7673 | 7554 | 7635 | 7616 | 7597 | 7578 | 7552 | 7540 | 7520 | 7501 | 7482 | 242 | 18 | 7 9348 |
| 18 | 11 | | 0078 | 8059 | 8040 | 8028 | 8051 | 7982 | 7263 | 7244 | 7224 | 7905 | 7886 | 7067 | 7847 | 7098 | 7809 | 7790 | 7770 | 237 | 11 | 9850 |
| 18 | 12 | | 8369 | 8349 | 8338 | 8310 | 8221 | 8272 | 8252 | 8233 | 8214 | 8194 | 8176 | 8156 | 6136 | 8117 | 0097 | 8578 | 8059 | 232 | 12 | 0767 |
| 17 | 13 | | 8659 | 8640 | 8620 | 8605 | 8501 | 8562 | 0642 | 0522 | 8503 | 8484 | 8464 | 8444 | 8425 | 8405 | 8386 | 8366 | 8347 | 228 | 13 | 8476 |
| 17 | 14 | | 8950 | 8230 | 8210 | 8821 | 8871 | 0851 | 8832 | 8012 | 5722 | 6773 | 5753 | 8733 | 0714 | 8694 | 8674 | 8655 | 8635 | 223 | 14 | 8105 |
| 17 | 15 | 3 | 9948 | 9920 | 9200 | 2101 | 9161 | 9141 | 2121 | 9102 | 9882 | 2062 | 9042 | 2022 | 2002 | 0983 | 8963 | 8943 | 8923 | 218 | 16 | 7 7894 |
| 16 | 16 | | 9531 | 9511 | 9491 | 9471 | 2451 | 2431 | 9411 | 2391 | 2371 | 2351 | 2331 | 2311 | 9991 | 2971 | 9251 | 9231 | 9211 | 213 | 16 | 7683 |
| 16 | 17 | | 2821 | 9801 | 9701 | 9761 | 2741 | 2721 | 2701 | 9600 | 9660 | 9640 | 9620 | 2605 | 2588 | 9560 | 9540 | 9590 | 2499 | 208 | 17 | 7313 |
| 15 | 10 | 4 (3) | 8112 | 8021 | 0871 | 0051 | 0031 | 0010 | 2995 | 2978 | 2255 | 2299 | 9209 | 9089 | 9869 | 9848 | 2828 | 2808 | 9788 | 203 | 18 | 7892 |
| 15 | 19 | 4 | 8452 | 0389 | 0361 | 0341 | 0391 | 0300 | 0205 | 8252 | 5239 | 5212 | 8198 | 5178 | 0157 | 0137 | 0117 | 0096 | 0876 | 199 | 19 | 6731 |
| 15 | 20 | 4 | 0623 | 0672 | 0652 | 0631 | 0611 | 0590 | 0562 | 0542 | 0528 | 5508 | 0487 | 5467 | 0446 | 8426 | 0405 | 8385 | 0364 | 124 | 28 | 7 6410 |
| 14 | 21 | | 0283 | 0262 | 0242 | 0921 | 0900 | 0880 | 0859 | 8038 | 0018 | 5797 | 0776 | 5756 | 8735 | 0714 | 0624 | 0673 | 0652 | 189 | 21 | 6142 |
| 14 | 22 | | 1274 | 1253 | 1232 | 1211 | 1120 | 1162 | 1142 | 1128 | 1107 | 1086 | 1865 | 1045 | 1024 | 1053 | 0982 | 0961 | 0240 | 184 | 22 | 5659 |
| 14 | 23 | | 1564 | 1543 | 1522 | 1501 | 1405 | 1459 | 1430 | 1417 | 1325 | 7375 | 1354 | 1333 | 1312 | 1221 | 1970 | 1242 | 1228 | 179 | 23 | 6568 |
| 13 | 24 | | 1855 | 1834 | 1813 | 1721 | 1770 | 1742 | 1728 | 1787 | 1686 | 1665 | 1643 | 1622 | 1681 | 1580 | 1559 | 1538 | 1517 | 174 | 24 | 6277 |
| 13 | 25 | 4 | 2145 | 2124 | 9153 | 9081 | 9060 | 2839 | 2018 | 1926 | 1975 | 1254 | 1232 | 1911 | 1820 | 1862 | 1847 | 1826 | 1805 | 162 | 25 | 7 4986 |
| 13 | 26 | | 2436 | 2414 | 9323 | 2371 | 2350 | 2329 | 2307 | 9986 | 2264 | 2243 | 2221 | 2208 | 9179 | 2157 | 2136 | 2114 | 2093 | 165 | 26 | 4695 |
| 19 | 27 | | 2726 | 2705 | 9683 | 2661 | 2640 | 9618 | 2597 | 2575 | 2554 | 2539 | 2510 | 2409 | 2467 | 2446 | 9194 | 2403 | 9301 | 160 | 27 | 4405 |
| 19 | 20 | | 3817 | 9925 | 2973 | 2951 | 2930 | 2908 | 2886 | 2865 | 9843 | 2821 | 2799 | 2770 | 2756 | 2734 | 2713 | 2691 | 2662 | 155 | 28 | 4114 |
| 11 | 29 | | 3307 | 3285 | 3263 | 3241 | 3220 | 3198 | 3176 | 3154 | 3139 | 3110 | 3888 | 3067 | 3045 | 3823 | 3801 | 2979 | 2957 | 150 | 29 | 3823 |
| 11 | 36 | 4 | 3527 | 3575 | 3553 | 3531 | 3510 | 3488 | 3465 | 3441 | 3421 | 3408 | 3377 | 3355 | 3334 | 3311 | 3289 | 3267 | 3215 | 145 | 30 | 7 3532 |
| 11 | 31 | | 3888 | 3866 | 3844 | 3822 | 3792 | 3777 | 3755 | 3733 | 3711 | 3689 | 3666 | 3644 | 3692 | 3650 | 3578 | 3556 | 3533 | 140 | 31 | 3241 |
| 18 | 32 | | 4178 | 4156 | 4134 | 4112 | 4089 | 4067 | 4045 | 4022 | 4508 | 3978 | 3965 | 3933 | 3911 | 3889 | 3066 | 3844 | 3822 | 136 | 32 | 2251 |
| 10 | 33 | | 4462 | 4446 | 4424 | 1482 | 4372 | 4357 | 4334 | 4312 | 4289 | 4267 | 4244 | 4222 | 4200 | 4177 | 4155 | 4132 | 4110 | 131 | 33 | 9660 |
| 10 | 34 | | 4769 | 4737 | 4714 | 4622 | 4669 | 4646 | 4624 | 4601 | 4579 | 4556 | 4533 | 4511 | 4480 | 4466 | 4443 | 4420 | 4398 | 125 | 34 | 2362 |
| 9 | 35 | 4 | 5050 | 5027 | 5004 | 4202 | 4259 | 4236 | 4213 | 4891 | 4868 | 4845 | 4022 | 4800 | 4777 | 4754 | 4731 | 4709 | 4606 | 121 | 35 | 7 2078 |
| 9 | 36 | | 5348 | 5317 | 5294 | 5272 | 5249 | 5226 | 5203 | 5180 | 5157 | 5134 | 5111 | 5009 | 5866 | 5043 | 5020 | 4927 | 4274 | 115 | 36 | 1788 |
| 8 | 37 | | 5631 | 5608 | 5585 | 6562 | 5532 | 5516 | 5493 | 5469 | 5446 | 5423 | 5400 | 5377 | 5354 | 5331 | 5308 | 5985 | 5262 | 111 | 37 | 1427 |
| 0 | 38 | | 5221 | 6890 | 5875 | 5852 | 5828 | 5805 | 5782 | 5758 | 5736 | 6713 | 5689 | 5666 | 5643 | 5690 | 5597 | 5573 | 5550 | 106 | 38 | 1206 |
| 8 | 39 | | 6212 | 6188 | 6165 | 6142 | 6118 | 6095 | 6072 | 6848 | 6095 | 6802 | 5276 | 5255 | 5932 | 5988 | 5885 | 5062 | 5838 | 182 | 39 | 0915 |
| 7 | 40 | 4 | 6502 | 6470 | 6455 | 6432 | 6408 | 6385 | 6361 | 6338 | 6314 | 6221 | 6267 | 6244 | 6228 | 6197 | 6173 | 6150 | 6126 | 97 | 40 | 7 0625 |
| 7 | 41 | | 6792 | 6762 | 6745 | 6722 | 6698 | 6674 | 6651 | 6627 | 6604 | 6580 | 6556 | 6533 | 5502 | 6485 | 6462 | 6138 | 6414 | 92 | 41 | 0334 |
| 7 | 42 | | 7583 | 7552 | 7035 | 7012 | 6288 | 6964 | 6245 | 6917 | 6893 | 6869 | 5845 | 6021 | 6728 | 6774 | 5760 | 6726 | 6702 | 07 | 42 | 0043 |
| 6 | 43 | | 7373 | 7349 | 7326 | 7302 | 7278 | 7254 | 7238 | 7956 | 7162 | 7158 | 7134 | 7110 | 7086 | 7062 | 7038 | 7014 | 6990 | 62 | 43 | 6 2752 |
| 6 | 44 | | 7664 | 7640 | 7616 | 7592 | 7567 | 7543 | 7512 | 7495 | 7471 | 7447 | 7423 | 7329 | 7375 | 7351 | 7327 | 7303 | 7279 | 77 | 44 | 9461 |
| 5 | 46 | 4 | 7954 | 7930 | 7906 | 7881 | 7857 | 7833 | 7809 | 7785 | 7760 | 7736 | 7712 | 7688 | 7654 | 7632 | 7615 | 7591 | 7567 | 73 | 45 | 6 9171 |
| 5 | 46 | | 0244 | 8290 | 8126 | 8171 | 8147 | 8123 | 0098 | 8074 | 0050 | 8025 | 0001 | 7277 | 7952 | 7928 | 7903 | 7879 | 7855 | 68 | 46 | 8880 |
| 5 | 47 | | 0535 | 8510 | 8486 | 8461 | 8437 | 8412 | 8388 | 8363 | 8332 | 0314 | 8220 | 0265 | 8241 | 8216 | 8192 | 8167 | 8143 | 63 | 47 | 8589 |
| 4 | 48 | | 8825 | 8801 | 8776 | 8751 | 8727 | 8709 | 8677 | 8653 | 8628 | 8654 | 8579 | 8564 | 8522 | 8585 | 8480 | 8456 | 8431 | 68 | 48 | 8228 |
| 4 | 49 | | 2116 | 9091 | 9066 | 9041 | 9017 | 8292 | 8967 | 8942 | 8917 | 5023 | 8860 | 8043 | 8818 | 8724 | 8769 | 8744 | 8719 | 53 | 49 | 8008 |
| 4 | 50 | 4 | 9406 | 9381 | 9356 | 9331 | 9306 | 9281 | 9256 | 2232 | 9207 | 9182 | 9157 | 9132 | 9107 | 9082 | 9057 | 9032 | 9007 | 48 | 50 | 6 7717 |
| 3 | 61 | | 9696 | 9671 | 9646 | 9621 | 9596 | 9571 | 9546 | 9521 | 9496 | 9471 | 9446 | 2421 | 9395 | 9370 | 9345 | 9320 | 9295 | 44 | 51 | 7426 |
| 3 | 62 | | 9987 | 9962 | 9936 | 2911 | 9886 | 9861 | 9835 | 9810 | 9705 | 9760 | 9735 | 9709 | 9684 | 9652 | 9634 | 9608 | 9583 | 39 | 52 | 7136 |
| 3 | 53 | 5 (4) | 0277 | 0252 | 0296 | 0201 | 0176 | 0150 | 0125 | 0100 | 0074 | 0042 | 0023 | 9998 | 2273 | 9947 | 9929 | 9896 | 9871 | 34 | 53 | 6845 |
| 2 | 54 | 5 | 0568 | 0542 | 0516 | 0491 | 0465 | 0440 | 0414 | 0389 | 0363 | 5338 | 0312 | 0207 | 6261 | 0236 | 0210 | 0185 | 0159 | 29 | 54 | 6554 |
| 2 | 55 | 5 | 0858 | 0832 | 0807 | 0781 | 0765 | 0730 | 0704 | 0678 | 0653 | 0697 | 0601 | 0576 | 0550 | 0524 | 0499 | 0473 | 0447 | 24 | 55 | 6 5263 |
| 2 | 56 | | 1148 | 1199 | 1097 | 1071 | 1045 | 1019 | 0993 | 0968 | 0949 | 0916 | 0890 | 0864 | 0838 | 0013 | 0707 | 0761 | 0735 | 19 | 56 | 6973 |
| 1 | 57 | | 1439 | 1413 | 1387 | 1361 | 1335 | 1309 | 1283 | 1257 | 1231 | 1205 | 1179 | 1153 | 1127 | 1101 | 1075 | 1049 | 1093 | 15 | 57 | 5682 |
| 1 | 58 | | 1729 | 1703 | 1677 | 1651 | 1625 | 1599 | 1572 | 1546 | 1520 | 1494 | 1468 | 1442 | 1416 | 1390 | 1363 | 1337 | 1311 | 10 | 58 | 5391 |
| 6 | 62 | | 2019 | 1993 | 1967 | 1941 | 1914 | 1888 | 1862 | 1836 | 1809 | 1783 | 1757 | 1731 | 1704 | 1678 | 1652 | 1625 | 1599 | 5 | 59 | 6101 |

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| TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida. |
|---|---|

| Partes para segundos del Arg. Auxiliar | 92° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 92° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 6' | 3 4583 | 4565 | 4547 | 4530 | 4512 | 4464 | 4477 | 4459 | 4441 | 4424 | 4406 | 4368 | 4371 | 4353 | 4335 | 4318 | 4300 | 0 | 6' | 3 4899 |
| 22 | 1 | 4871 | 4853 | 4835 | 4817 | 4600 | 4782 | 4784 | 4746 | 4728 | 4710 | 4023 | 4675 | 4057 | 4639 | 4521 | 4604 | 4586 | 5 | 1 | 5190 |
| 22 | 2 | 5159 | 5141 | 5123 | 5105 | 5087 | 5056 | 5051 | 5033 | 5615 | 4997 | 4976 | 4951 | 4243 | 4925 | 4607 | 4886 | 4871 | 10 | 2 | 5481 |
| 21 | 3 | 5447 | 5429 | 5411 | 5393 | 5374 | 5356 | 5338 | 5320 | 5302 | 5284 | 5266 | 5240 | 5230 | 5212 | 5193 | 5175 | 5157 | 15 | 3 | 5772 |
| 21 | 4 | 5735 | 5717 | 5698 | 5680 | 5661 | 5544 | 5525 | 5507 | 5586 | 5571 | 5552 | 5534 | 5515 | 5428 | 5476 | 5461 | 5413 | 19 | 4 | 6062 |
| 21 | 5 | 3 6023 | 6605 | 5285 | 5968 | 5649 | 5931 | 5913 | 5824 | 5876 | 5857 | 5839 | 5821 | 5802 | 5784 | 5765 | 5747 | 5729 | 21 | 5 | 3 6353 |
| 20 | 6 | 6311 | 6292 | 6274 | 6255 | 6237 | 6210 | 6200 | 5161 | 6163 | 6141 | 5126 | 6107 | 6089 | 6070 | 6051 | 6033 | 6014 | 29 | 6 | 6644 |
| 20 | 7 | 6566 | 6508 | 6562 | 6543 | 6524 | 6505 | 6407 | 5468 | 6450 | 6431 | 6412 | 6324 | 6375 | 6356 | 6337 | 6319 | 6300 | 34 | 7 | 6634 |
| 19 | 8 | 6867 | 6568 | 0649 | 6831 | 6812 | 5793 | 6774 | 6755 | 6736 | 6718 | 6669 | 6680 | 6661 | 6542 | 6523 | 6505 | 6586 | 39 | 8 | 7225 |
| 19 | 9 | 7175 | 7156 | 7137 | 7118 | 7096 | 7060 | 7061 | 7042 | 7023 | 7004 | 0985 | 6966 | 6947 | 6228 | 5909 | 6890 | 0871 | 41 | 9 | 7516 |
| 19 | 16 | 3 7463 | 7444 | 7425 | 7406 | 7387 | 7358 | 7348 | 7322 | 7310 | 7291 | 7272 | 7253 | 7234 | 7215 | 7195 | 7176 | 7157 | 48 | 10 | 3 7806 |
| 18 | 11 | 7751 | 7732 | 7713 | 7623 | 7674 | 7055 | 7635 | 7615 | 7567 | 7578 | 7558 | 7539 | 7520 | 7501 | 7481 | 7462 | 7413 | 53 | 11 | 8097 |
| 18 | 12 | 8039 | 8020 | 6608 | 7981 | 7962 | 7942 | 7623 | 7903 | 7084 | 7854 | 7045 | 7826 | 7805 | 7787 | 7767 | 7748 | 7728 | 58 | 12 | 6388 |
| 18 | 13 | 8327 | 8308 | 8288 | 8262 | 8242 | 8229 | 8210 | 8190 | 8171 | 8151 | 8132 | 8112 | 8092 | 8073 | 8053 | 8034 | 8014 | 63 | 13 | 6678 |
| 17 | 14 | 6615 | 0596 | 6576 | 8556 | 8536 | 8517 | 8497 | 8477 | 8458 | 8438 | 8418 | 8398 | 8379 | 8359 | 8339 | 8320 | 8300 | 68 | 14 | 8969 |
| 17 | 15 | 3 6903 | 6883 | 8864 | 8844 | 8824 | 8804 | 8784 | 8764 | 8744 | 8725 | 0705 | 6585 | 8665 | 8645 | 8625 | 8605 | 6585 | 73 | 15 | 3 9250 |
| 16 | 16 | 9191 | 2171 | 9151 | 6131 | 2111 | 9091 | 9071 | 9051 | 9031 | 9011 | 8961 | 8271 | 8251 | 8931 | 8911 | 8891 | 8871 | 77 | 16 | 6550 |
| 16 | 17 | 9479 | 2459 | 9432 | 9419 | 6399 | 9379 | 9358 | 9338 | 9318 | 2228 | 9278 | 9258 | 9238 | 9217 | 9197 | 9177 | 2157 | 02 | 17 | 9841 |
| 16 | 10 | 9767 | 9747 | 2727 | 2706 | 6606 | 2666 | 9646 | 9625 | 9505 | 6585 | 9564 | 9544 | 9524 | 2503 | 2183 | 9463 | 9442 | 87 | 18 | 4 6132 |
| 15 | 19 | 4 (3) 6055 | 0035 | 0014 | 9994 | 9674 | 9953 | 9633 | 9912 | 9892 | 9871 | 9851 | 9830 | 9810 | 9790 | 6769 | 9749 | 6728 | 92 | 19 | 0422 |
| 15 | 20 | 4 0343 | 0323 | 6302 | 6282 | 0261 | 0240 | 0220 | 0199 | 0179 | 0158 | 0137 | 6117 | 0096 | 0076 | 0055 | 0034 | 0014 | 97 | 20 | 4 0713 |
| 15 | 21 | 0531 | 0611 | 6596 | 0569 | 0548 | 0528 | 0507 | 0486 | 0166 | 0445 | 0424 | 0403 | 0382 | 0362 | 0341 | 0320 | 0229 | 102 | 21 | 1004 |
| 14 | 22 | 0919 | 0899 | 0876 | 0857 | 0836 | 0815 | 0794 | 0773 | 0752 | 0731 | 0711 | 0690 | 0569 | 0648 | 0627 | 0606 | 0585 | 106 | 22 | 1294 |
| 14 | 23 | 1267 | 1186 | 1165 | 1144 | 1123 | 1162 | 1081 | 1060 | 1032 | 1018 | 0997 | 0676 | 0955 | 0234 | 0913 | 0822 | 0871 | 111 | 23 | 1585 |
| 13 | 24 | 1495 | 1474 | 1453 | 1432 | 1411 | 1390 | 1368 | 1347 | 1320 | 1305 | 1284 | 1252 | 1241 | 1220 | 1199 | 1178 | 1155 | 116 | 24 | 1876 |
| 13 | 25 | 4 1703 | 1762 | 1741 | 1719 | 1698 | 1677 | 1555 | 1634 | 1813 | 1521 | 1570 | 1549 | 1527 | 1505 | 1485 | 1463 | 1442 | 121 | 25 | 4 2156 |
| 13 | 26 | 2071 | 2050 | 2626 | 2067 | 1286 | 1264 | 1243 | 1921 | 1600 | 1878 | 1657 | 1836 | 1814 | 1762 | 1771 | 1749 | 1728 | 126 | 26 | 2457 |
| 12 | 27 | 2356 | 2338 | 2316 | 2295 | 2273 | 2251 | 2230 | 2200 | 2166 | 2165 | 2143 | 2122 | 2100 | 2078 | 2657 | 2035 | 2013 | 131 | 27 | 2748 |
| 12 | 20 | 2647 | 2626 | 2604 | 2502 | 2560 | 2538 | 2517 | 2495 | 2473 | 2151 | 2430 | 2408 | 2386 | 2364 | 2342 | 2321 | 2299 | 135 | 28 | 3038 |
| 12 | 29 | 2935 | 2913 | 2891 | 2870 | 2848 | 2826 | 2804 | 2782 | 2760 | 2738 | 2710 | 2694 | 2672 | 2650 | 2628 | 2606 | 2585 | 140 | 26 | 3329 |
| 11 | 36 | 4 3223 | 3261 | 3179 | 3157 | 3135 | 3113 | 3091 | 3069 | 3047 | 3025 | 3003 | 2981 | 2958 | 2236 | 2914 | 2822 | 2870 | 145 | 30 | 4 3619 |
| 11 | 31 | 3511 | 3486 | 3467 | 3445 | 3422 | 3400 | 3378 | 3356 | 3334 | 3311 | 3289 | 3267 | 3245 | 3222 | 3200 | 3170 | 3156 | 150 | 31 | 3910 |
| 10 | 32 | 3799 | 3777 | 3754 | 3732 | 3710 | 3687 | 3665 | 3643 | 3520 | 3568 | 3578 | 3553 | 3531 | 3506 | 3486 | 3464 | 3441 | 155 | 32 | 4201 |
| 10 | 33 | 4667 | 4065 | 4042 | 4020 | 3997 | 3975 | 3652 | 3630 | 3907 | 3885 | 3862 | 3840 | 3817 | 3725 | 3772 | 3746 | 3727 | 160 | 33 | 4461 |
| 10 | 34 | 4375 | 4353 | 4336 | 4367 | 4285 | 4262 | 4239 | 4217 | 4194 | 4171 | 4149 | 4126 | 4163 | 4081 | 4658 | 4635 | 4013 | 165 | 34 | 4782 |
| 9 | 35 | 4 4663 | 4540 | 4616 | 4595 | 4572 | 4542 | 1526 | 4504 | 4481 | 4458 | 4435 | 4412 | 4389 | 4367 | 4344 | 4321 | 4298 | 169 | 35 | 4 5072 |
| 9 | 36 | 4951 | 4628 | 4205 | 4602 | 4859 | 4636 | 4813 | 4790 | 4768 | 4745 | 4722 | 4629 | 4678 | 4653 | 4636 | 4607 | 4504 | 174 | 36 | 5363 |
| 9 | 37 | 6239 | 5216 | 5193 | 5170 | 5147 | 5124 | 5100 | 5077 | 6054 | 5631 | 5006 | 4685 | 4962 | 4639 | 4916 | 4863 | 4066 | 179 | 37 | 6654 |
| 8 | 38 | 6527 | 5504 | 5481 | 5457 | 5434 | 5411 | 5388 | 5364 | 5341 | 5316 | 5295 | 5271 | 5248 | 5225 | 6202 | 6178 | 5155 | 184 | 38 | 5944 |
| 8 | 39 | 5815 | 5792 | 5768 | 6745 | 5721 | 6098 | 5675 | 5651 | 6628 | 5601 | 5581 | 5556 | 5534 | 5511 | 5407 | 5464 | 5440 | 189 | 39 | 6235 |
| 7 | 40 | 4 6163 | 6076 | 6056 | 6032 | 5006 | 5985 | 5962 | 5938 | 5915 | 5891 | 6667 | 5844 | 5820 | 5727 | 5773 | 5750 | 5725 | 194 | 40 | 4 6525 |
| 7 | 41 | 6391 | 6367 | 6343 | 5320 | 6298 | 0272 | 6246 | 6225 | 6201 | 8170 | 6154 | 6130 | 0107 | 6083 | 6659 | 6036 | 5012 | 199 | 41 | 6816 |
| 7 | 12 | 6679 | 0655 | 6631 | 6607 | 6583 | 0560 | 5536 | 6512 | 6488 | 8464 | 6440 | 6417 | 6393 | 6359 | 6345 | 6321 | 6297 | 203 | 42 | 7106 |
| 6 | 43 | 6267 | 0943 | 6212 | 6895 | 6071 | 6847 | 6823 | 6799 | 6775 | 8751 | 6727 | 6703 | 0676 | 5855 | 6631 | 6507 | 5583 | 208 | 43 | 7397 |
| 6 | 44 | 7255 | 7231 | 7206 | 7182 | 7158 | 7134 | 7110 | 7086 | 7062 | 7037 | 7013 | 8986 | 6665 | 0241 | 6917 | 6893 | 5668 | 213 | 44 | 7686 |
| 6 | 45 | 4 7543 | 7518 | 7494 | 7470 | 7445 | 7421 | 7327 | 7373 | 7348 | 7324 | 7300 | 7275 | 7251 | 7227 | 7203 | 7170 | 7154 | 218 | 45 | 4 7678 |
| 5 | 46 | 7830 | 7806 | 7781 | 7767 | 7733 | 7708 | 7684 | 7059 | 7635 | 7611 | 7506 | 7562 | 7537 | 7613 | 7488 | 7464 | 7439 | 223 | 46 | 6269 |
| 5 | 47 | 8118 | 6094 | 8066 | 6045 | 8020 | 7996 | 7971 | 7646 | 7922 | 7097 | 7073 | 7040 | 7623 | 7799 | 7774 | 7750 | 7725 | 228 | 47 | 8559 |
| 4 | 46 | 8406 | 8381 | 6357 | 6332 | 8307 | 8283 | 8258 | 8233 | 8202 | 8184 | 8159 | 6134 | 6110 | 8085 | 6060 | 6035 | 8011 | 232 | 46 | 8850 |
| 4 | 49 | 8694 | 8669 | 8644 | 6620 | 8565 | 8570 | 8545 | 8520 | 8425 | 8470 | 0445 | 8421 | 6320 | 8371 | 8340 | 8321 | 8266 | 237 | 49 | 9140 |
| 4 | 50 | 4 0982 | 8657 | 8932 | 8907 | 8802 | 8857 | 8832 | 8807 | 8782 | 8757 | 6732 | 8707 | 8682 | 8057 | 6632 | 8667 | 8562 | 242 | 56 | 4 9431 |
| 3 | 51 | 9270 | 9245 | 9226 | 9124 | 9166 | 9144 | 9116 | 9094 | 9069 | 6044 | 2018 | 6993 | 8268 | 8943 | 8916 | 8892 | 8867 | 247 | 51 | 9721 |
| 3 | 62 | 9558 | 2532 | 9507 | 9482 | 9457 | 6431 | 9408 | 9381 | 2355 | 6330 | 6365 | 6272 | 9254 | 6229 | 2203 | 2178 | 2153 | 252 | 52 | 5 0612 |
| 3 | 53 | 9648 | 9820 | 2725 | 9789 | 2744 | 2716 | 2693 | 9668 | 9642 | 2517 | 6521 | 2566 | 9540 | 6515 | 2489 | 2464 | 2436 | 257 | 53 | 0362 |
| 2 | 54 | 5 (4) 0133 | 8108 | 8082 | 0657 | 0031 | 0666 | 9980 | 9954 | 6226 | 6663 | 9678 | 9852 | 2828 | 6801 | 2775 | 9746 | 2724 | 261 | 54 | 6563 |
| 2 | 55 | 5 8421 | 0366 | 6376 | 0344 | 0318 | 0293 | 0267 | 8241 | 8216 | 8190 | 8164 | 8130 | 0112 | 0087 | 6661 | 0035 | 0686 | 266 | 66 | 5 0883 |
| 2 | 56 | 6762 | 0683 | 8657 | 0632 | 0606 | 0580 | 0554 | 6528 | 8502 | 0476 | 0450 | 0424 | 0322 | 8373 | 0347 | 0321 | 0295 | 271 | 56 | 1174 |
| 1 | 57 | 6967 | 6671 | 0645 | 0216 | 6823 | 0887 | 6841 | 0815 | 0789 | 6763 | 8737 | 0711 | 0665 | 0659 | 0633 | 0687 | 0580 | 276 | 57 | 1464 |
| 1 | 58 | 1285 | 1269 | 1233 | 1207 | 1180 | 1154 | 1128 | 1102 | 1676 | 1646 | 1623 | 8667 | 0971 | 0945 | 0618 | 0692 | 0866 | 281 | 56 | 1755 |
| 0 | 59 | 1573 | 1547 | 1526 | 1494 | 1468 | 1441 | 1415 | 1382 | 1362 | 1336 | 1310 | 1283 | 1257 | 1231 | 1264 | 1178 | 1151 | 268 | 52 | 2645 |

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**Tabla X.** Número I para la suma de alturas aparentes} y Número III para la distancia aparente. . . . .} y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 93° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 93° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 0' | 5 | 2310 | 2283 | 2257 | 2231 | 2204 | 2178 | 2151 | 2125 | 2098 | 2072 | 2046 | 2019 | 1993 | 1966 | 1940 | 1914 | 1887 | 290 | 0' | 6 4810 |
| 31 | 1 | | 2600 | 2573 | 2547 | 2520 | 2494 | 2467 | 2441 | 2414 | 2388 | 2361 | 2335 | 2308 | 2281 | 2255 | 2228 | 2202 | 2175 | 286 | 1 | 4519 |
| 30 | 2 | | 2890 | 2864 | 2837 | 2810 | 2784 | 2757 | 2730 | 2704 | 2677 | 2650 | 2623 | 2527 | 2570 | 2543 | 2517 | 2490 | 2463 | 281 | 2 | 4228 |
| 30 | 3 | | 3181 | 3154 | 3127 | 3100 | 3073 | 3047 | 3020 | 2993 | 2966 | 2939 | 2912 | 2885 | 2859 | 2832 | 2805 | 2778 | 2751 | 276 | 3 | 3937 |
| 29 | 4 | | 3471 | 3444 | 3417 | 3390 | 3363 | 3336 | 3309 | 3282 | 3255 | 3228 | 3201 | 3174 | 3147 | 3121 | 3093 | 3066 | 3032 | 271 | 4 | 3647 |
| 28 | 5 | 5 | 3761 | 3734 | 3707 | 3680 | 3653 | 3626 | 3599 | 3571 | 3644 | 3517 | 3490 | 3463 | 3436 | 3409 | 3381 | 3354 | 3327 | 266 | 5 | 6 3356 |
| 28 | 6 | | 4052 | 4024 | 3997 | 3970 | 3943 | 3915 | 3888 | 3861 | 3833 | 3806 | 3772 | 3752 | 3724 | 3697 | 3670 | 3642 | 3615 | 261 | 6 | 3066 |
| 27 | 7 | | 4342 | 4315 | 4287 | 4260 | 4232 | 4205 | 4177 | 4150 | 4123 | 4095 | 4068 | 4040 | 4013 | 3985 | 3258 | 3930 | 3903 | 257 | 7 | 2775 |
| 27 | 8 | | 4632 | 4605 | 4577 | 4550 | 4522 | 4494 | 4467 | 4439 | 4412 | 4384 | 4357 | 4329 | 4301 | 4274 | 4246 | 4219 | 4191 | 252 | 8 | 2484 |
| 26 | 9 | | 4923 | 4895 | 4867 | 4839 | 4812 | 4784 | 4756 | 4729 | 4701 | 4673 | 4645 | 4618 | 4590 | 4562 | 4534 | 4507 | 4479 | 247 | 9 | 2194 |
| 26 | 10 | 5 | 5213 | 5185 | 5157 | 5129 | 5101 | 5074 | 5046 | 5018 | 4990 | 4962 | 4934 | 4906 | 4879 | 4851 | 4823 | 4795 | 4767 | 242 | 10 | 6 1903 |
| 25 | 11 | | 5503 | 5475 | 5447 | 5419 | 5391 | 5363 | 5335 | 5307 | 5272 | 5251 | 5223 | 5195 | 5167 | 5139 | 5111 | 5083 | 5055 | 237 | 11 | 1612 |
| 25 | 12 | | 5793 | 5765 | 5737 | 5709 | 5681 | 5653 | 5625 | 5596 | 5568 | 5540 | 5512 | 5184 | 5455 | 5427 | 5399 | 5371 | 5343 | 232 | 12 | 1322 |
| 24 | 13 | | 6084 | 6055 | 6027 | 5929 | 5971 | 5942 | 5914 | 5886 | 5857 | 5822 | 5801 | 5772 | 5744 | 5716 | 5687 | 5659 | 5631 | 228 | 13 | 1031 |
| 24 | 14 | | 6374 | 6346 | 6317 | 6289 | 6260 | 6232 | 6203 | 6175 | 6147 | 6118 | 6089 | 6061 | 6033 | 6004 | 5976 | 5947 | 5919 | 223 | 14 | 0740 |
| 23 | 15 | 5 | 6664 | 6636 | 6607 | 6579 | 6550 | 6521 | 6193 | 6464 | 6436 | 6407 | 6378 | 6350 | 6321 | 6292 | 6264 | 6235 | 6207 | 218 | 15 | 6 0450 |
| 23 | 16 | | 6254 | 6926 | 6897 | 6868 | 6840 | 6811 | 6782 | 6753 | 6725 | 6696 | 6667 | 6638 | 5610 | 6581 | 6552 | 6523 | 6494 | 213 | 16 | 0159 |
| 22 | 17 | | 7245 | 7216 | 7187 | 7158 | 7129 | 7100 | 7072 | 7043 | 7014 | 6985 | 6956 | 6927 | 6898 | 6869 | 6840 | 6811 | 6782 | 208 | 17 | 5 9868 |
| 22 | 18 | | 7535 | 7506 | 7477 | 7448 | 7419 | 7390 | 7361 | 7332 | 7303 | 7274 | 7245 | 7216 | 7187 | 7158 | 7128 | 7099 | 7070 | 203 | 18 | 9578 |
| 21 | 19 | | 7825 | 7796 | 7767 | 7738 | 7709 | 7679 | 7650 | 7621 | 7592 | 7563 | 7534 | 7504 | 7475 | 7446 | 7417 | 7387 | 7358 | 199 | 19 | 9287 |
| 21 | 20 | 5 | 8116 | 8086 | 8057 | 8028 | 7998 | 7969 | 7940 | 7910 | 7881 | 7852 | 7822 | 7793 | 7764 | 7734 | 7705 | 7676 | 7646 | 194 | 20 | 5 8926 |
| 20 | 21 | | 8406 | 8376 | 8347 | 8317 | 8288 | 8253 | 8222 | 8200 | 8170 | 8141 | 8111 | 8082 | 8052 | 8023 | 7993 | 7964 | 7934 | 189 | 21 | 8706 |
| 20 | 22 | | 8696 | 8666 | 8637 | 8607 | 8578 | 8548 | 8518 | 8489 | 8459 | 8430 | 8400 | 8370 | 8341 | 8311 | 8281 | 8252 | 8222 | 184 | 22 | 8415 |
| 19 | 23 | | 8986 | 8957 | 8927 | 8897 | 8867 | 8838 | 8808 | 8778 | 8748 | 8718 | 8689 | 8659 | 8629 | 8599 | 8569 | 8540 | 8510 | 179 | 23 | 8124 |
| 19 | 24 | | 9276 | 9247 | 9217 | 9187 | 9157 | 9127 | 9097 | 9067 | 9037 | 9007 | 8977 | 8948 | 8918 | 8888 | 8858 | 8828 | 8798 | 174 | 24 | 7834 |
| 18 | 25 | 5 | 9567 | 9537 | 9507 | 2477 | 9447 | 9417 | 9386 | 9356 | 9326 | 9226 | 9266 | 9236 | 9206 | 9176 | 9146 | 9116 | 9086 | 169 | 25 | 5 7543 |
| 18 | 26 | | 9857 | 9827 | 9797 | 9766 | 9736 | 9706 | 9676 | 9646 | 9615 | 9585 | 9555 | 9525 | 9494 | 9464 | 9434 | 9404 | 9374 | 165 | 26 | 7252 |
| 17 | 27 | 6 (5) | 0147 | 0117 | 0087 | 0066 | 0026 | 9996 | 2965 | 9935 | 2204 | 9874 | 2844 | 9813 | 2783 | 9753 | 9722 | 9692 | 2661 | 160 | 27 | 6962 |
| 17 | 28 | | 0437 | 0407 | 0376 | 0346 | 0315 | 0285 | 0255 | 0224 | 0194 | 0163 | 0132 | 0102 | 0071 | 0041 | 0010 | 9980 | 2949 | 155 | 28 | 6671 |
| 16 | 29 | 6 | 0728 | 0697 | 0666 | 0636 | 0605 | 0574 | 0544 | 0513 | 0483 | 0452 | 0421 | 0391 | 0360 | 0329 | 0298 | 0268 | 0237 | 150 | 29 | 6381 |
| 16 | 30 | 6 | 1018 | 0287 | 0956 | 0926 | 0895 | 0864 | 0833 | 0802 | 0772 | 0741 | 0710 | 0679 | 0648 | 0617 | 0587 | 0556 | 0525 | 145 | 30 | 5 6090 |
| 15 | 31 | | 1308 | 1277 | 1246 | 1215 | 1184 | 1153 | 1122 | 1091 | 1061 | 1030 | 0999 | 0968 | 0937 | 0906 | 0875 | 0844 | 0813 | 140 | 31 | 5799 |
| 15 | 32 | | 1598 | 1567 | 1536 | 1505 | 1474 | 1443 | 1412 | 1381 | 1350 | 1318 | 1287 | 1256 | 1225 | 1194 | 1163 | 1132 | 1101 | 136 | 32 | 5509 |
| 14 | 33 | | 1888 | 1857 | 1826 | 1795 | 1764 | 1732 | 1701 | 1670 | 1639 | 1607 | 1576 | 1545 | 1514 | 1482 | 1451 | 1420 | 1389 | 131 | 33 | 5218 |
| 13 | 34 | | 2179 | 2147 | 2116 | 2085 | 2053 | 2022 | 1990 | 1959 | 1928 | 1896 | 1865 | 1833 | 1802 | 1771 | 1739 | 1708 | 1676 | 126 | 34 | 4928 |
| 13 | 35 | 6 | 2469 | 2437 | 2406 | 2374 | 2343 | 2311 | 2280 | 2248 | 2217 | 2185 | 2154 | 2122 | 2020 | 2059 | 2027 | 1996 | 1964 | 121 | 35 | 5 4637 |
| 12 | 36 | | 2759 | 2727 | 2696 | 2664 | 2632 | 2601 | 2562 | 2537 | 2506 | 2474 | 2442 | 2411 | 2379 | 2347 | 2315 | 2284 | 2252 | 116 | 36 | 4346 |
| 12 | 37 | | 3042 | 3017 | 2986 | 2954 | 2922 | 2890 | 2858 | 2826 | 2795 | 2763 | 2731 | 2699 | 2667 | 2635 | 2604 | 2572 | 2540 | 111 | 37 | 4056 |
| 11 | 38 | | 3339 | 3307 | 3275 | 3243 | 3211 | 3179 | 3148 | 3116 | 3084 | 3052 | 3020 | 2988 | 2956 | 2924 | 2892 | 2860 | 2828 | 106 | 38 | 3765 |
| 11 | 39 | | 3629 | 3597 | 3565 | 3533 | 3501 | 3469 | 3437 | 3405 | 3373 | 3341 | 3308 | 3276 | 3244 | 3212 | 3180 | 3148 | 3115 | 102 | 39 | 3475 |
| 10 | 40 | 6 | 3920 | 3887 | 3855 | 3823 | 3791 | 3758 | 3726 | 3694 | 3662 | 3629 | 3597 | 3565 | 3532 | 3500 | 3468 | 3436 | 3403 | 97 | 40 | 5 3184 |
| 10 | 41 | | 4210 | 4177 | 4145 | 4113 | 4080 | 4048 | 4015 | 3983 | 3251 | 3918 | 3886 | 3853 | 3821 | 3788 | 3756 | 3724 | 3691 | 92 | 41 | 2894 |
| 9 | 42 | | 4500 | 4467 | 4435 | 4402 | 4370 | 4337 | 4305 | 4272 | 4240 | 4207 | 4174 | 4142 | 4109 | 4077 | 4044 | 4011 | 3979 | 87 | 42 | 2603 |
| 9 | 43 | | 4790 | 4757 | 4725 | 4692 | 4659 | 4627 | 4594 | 4561 | 4529 | 4496 | 4463 | 4430 | 4398 | 4365 | 4332 | 4299 | 4267 | 82 | 43 | 2312 |
| 8 | 44 | | 5080 | 5047 | 5014 | 4582 | 4949 | 4916 | 4883 | 4850 | 4817 | 4785 | 4752 | 4719 | 4686 | 4653 | 4620 | 4587 | 4554 | 77 | 44 | 2022 |
| 8 | 45 | 6 | 5370 | 5337 | 5304 | 5271 | 5238 | 5205 | 5172 | 5139 | 5106 | 5073 | 5040 | 5007 | 4974 | 4941 | 4908 | 4875 | 4842 | 73 | 45 | 5 1731 |
| 7 | 46 | | 5660 | 5627 | 5594 | 5561 | 5528 | 5495 | 5462 | 5429 | 5395 | 5362 | 5329 | 5296 | 5263 | 5229 | 5196 | 5163 | 5130 | 68 | 46 | 1441 |
| 7 | 47 | | 5950 | 5917 | 5884 | 5851 | 5817 | 5784 | 5751 | 5718 | 5684 | 5651 | 5618 | 5584 | 5551 | 5518 | 5484 | 5451 | 5418 | 63 | 47 | 1150 |
| 6 | 48 | | 6240 | 6207 | 6174 | 6140 | 6107 | 6074 | 6040 | 6007 | 5973 | 5940 | 5906 | 5873 | 5839 | 5806 | 5773 | 5732 | 5706 | 58 | 48 | 0860 |
| 6 | 49 | | 6531 | 6497 | 6464 | 6430 | 6396 | 6363 | 6329 | 6296 | 6262 | 6229 | 6195 | 6161 | 6128 | 6094 | 6061 | 6027 | 5993 | 53 | 49 | 0569 |
| 5 | 50 | 6 | 6821 | 6787 | 6753 | 6720 | 6686 | 6652 | 6619 | 6585 | 6651 | 6517 | 6484 | 6450 | 6416 | 6382 | 6349 | 6315 | 6281 | 48 | 50 | 5 0279 |
| 5 | 51 | | 7111 | 7077 | 7043 | 7009 | 6975 | 6942 | 6908 | 6874 | 6840 | 6806 | 6772 | 6738 | 6704 | 6671 | 6637 | 6603 | 6569 | 44 | 51 | 4 9988 |
| 4 | 52 | | 7401 | 7367 | 7333 | 7299 | 7265 | 7231 | 7197 | 7163 | 7129 | 7095 | 7061 | 7027 | 6993 | 6959 | 6925 | 6891 | 6856 | 39 | 52 | 9658 |
| 4 | 53 | | 7691 | 7657 | 7623 | 7582 | 7554 | 7520 | 7486 | 7452 | 7418 | 7384 | 7349 | 7315 | 7281 | 7247 | 7213 | 7178 | 7144 | 34 | 53 | 9407 |
| 3 | 54 | | 7981 | 7947 | 7913 | 7878 | 7844 | 7810 | 7775 | 7741 | 7707 | 7672 | 7638 | 7604 | 7569 | 7535 | 7501 | 7466 | 7432 | 29 | 54 | 9117 |
| 3 | 55 | 6 | 8271 | 8237 | 8202 | 8168 | 8133 | 8099 | 8064 | 8030 | 7996 | 7261 | 7927 | 7892 | 7858 | 7823 | 7789 | 7754 | 7720 | 24 | 55 | 4 8826 |
| 2 | 56 | | 8561 | 8527 | 8492 | 8457 | 8423 | 8388 | 8354 | 8319 | 8284 | 8250 | 8215 | 8181 | 8146 | 8111 | 8077 | 8042 | 8007 | 19 | 56 | 8536 |
| 2 | 57 | | 8851 | 8817 | 8782 | 8747 | 8712 | 8678 | 8643 | 8608 | 8573 | 8539 | 8504 | 8469 | 8434 | 8399 | 8365 | 8330 | 8295 | 15 | 57 | 8215 |
| 1 | 58 | | 9141 | 9106 | 9072 | 9037 | 9002 | 8967 | 8932 | 8897 | 8862 | 8827 | 8722 | 8757 | 8723 | 8688 | 8653 | 8618 | 8583 | 10 | 58 | 7955 |
| 1 | 59 | | 9431 | 9396 | 9361 | 9326 | 9291 | 9256 | 9221 | 9186 | 9151 | 9116 | 9081 | 9046 | 9011 | 8976 | 8941 | 8906 | 8871 | 5 | 59 | 7664 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar | 93° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | 0′ | 5 1861 | 1834 | 1608 | 1781 | 1755 | 1728 | 1702 | 1675 | 1642 | 1522 | 1525 | 1559 | 1643 | 1516 | 1490 | 1463 | 1437 |
| 31 | 1 | 2142 | 2122 | 2025 | 2069 | 2042 | 2015 | 1989 | 1262 | 1936 | 1209 | 1889 | 1856 | 1829 | 1809 | 1775 | 1749 | 1722 |
| 30 | 2 | 9435 | 2410 | 2383 | 2356 | 2329 | 2303 | 9276 | 2242 | 2222 | 2125 | 2162 | 2142 | 2115 | 2088 | 2052 | 2035 | 2008 |
| 30 | 3 | 2724 | 2597 | 2570 | 2643 | 2617 | 2590 | 2363 | 2536 | 2502 | 2482 | 2455 | 2428 | 2401 | 2374 | 2347 | 2320 | 2223 |
| 29 | 4 | 3012 | 2965 | 2958 | 2231 | 2904 | 2877 | 9850 | 2823 | 2726 | 2762 | 2741 | 2714 | 2587 | 2660 | 2633 | 2606 | 2572 |
| 28 | 5 | 5 3300 | 3273 | 3245 | 3218 | 3121 | 3154 | 3137 | 3110 | 3082 | 3055 | 3028 | 3001 | 2973 | 2946 | 2919 | 2892 | 2864 |
| 28 | 6 | 3588 | 3550 | 3533 | 3506 | 3478 | 3451 | 3494 | 3396 | 3362 | 3342 | 3314 | 3287 | 3259 | 3232 | 3205 | 3178 | 3150 |
| 27 | 7 | 3875 | 3848 | 3821 | 3703 | 3766 | 3738 | 3711 | 3683 | 3556 | 3628 | 3601 | 3573 | 3546 | 3518 | 3420 | 3463 | 3435 |
| 27 | 8 | 4163 | 4136 | 4108 | 4080 | 4053 | 4025 | 3998 | 3970 | 3942 | 3915 | 3887 | 3859 | 3832 | 3804 | 3776 | 3748 | 3721 |
| 26 | 9 | 4451 | 4423 | 4395 | 4368 | 4340 | 4312 | 4284 | 4257 | 4229 | 4201 | 4173 | 4145 | 4118 | 4090 | 4062 | 4034 | 4005 |
| 26 | 10 | 5 4732 | 4711 | 4683 | 4555 | 4627 | 4599 | 4571 | 4543 | 4515 | 4488 | 4460 | 4432 | 4404 | 1376 | 4348 | 4320 | 4292 |
| 25 | 11 | 5027 | 1299 | 4971 | 4243 | 4914 | 4886 | 4858 | 4830 | 4802 | 4774 | 4745 | 4718 | 4690 | 1662 | 4633 | 1505 | 4577 |
| 25 | 12 | 5315 | 5285 | 5258 | 5230 | 5202 | 5173 | 5145 | 5117 | 5089 | 5050 | 5032 | 5004 | 4276 | 4947 | 1912 | 4891 | 4863 |
| 24 | 13 | 5609 | 5674 | 5546 | 5517 | 5489 | 5461 | 5432 | 5404 | 5375 | 5347 | 5312 | 5290 | 5262 | 5233 | 5205 | 5177 | 5148 |
| 24 | 14 | 6890 | 5852 | 5833 | 5805 | 5775 | 6748 | 6719 | 5620 | 5662 | 5633 | 5505 | 5576 | 5548 | 5519 | 5491 | 5452 | 5434 |
| 23 | 15 | 5 6178 | 6149 | 6121 | 6092 | 6063 | 6035 | 6006 | 5977 | 5949 | 5920 | 5891 | 5862 | 5834 | 5805 | 5776 | 5748 | 5719 |
| 23 | 16 | 6455 | 5437 | 5408 | 6372 | 5350 | 6322 | 6223 | 6264 | 6235 | 6206 | 5177 | 6149 | 5120 | 6021 | 6062 | 6033 | 6004 |
| 22 | 17 | 6753 | 6725 | 6626 | 6567 | 6538 | 5509 | 6580 | 6551 | 5522 | 6423 | 6464 | 5435 | 5406 | 5377 | 6348 | 6312 | 6220 |
| 22 | 18 | 7041 | 7012 | 5983 | 6954 | 6925 | 6826 | 5857 | 5838 | 6808 | 5779 | 6750 | 6721 | 5692 | 6653 | 6634 | 5604 | 6575 |
| 21 | 19 | 7329 | 7300 | 7270 | 7941 | 7212 | 7183 | 7154 | 7124 | 7095 | 7066 | 7035 | 7007 | 5278 | 5249 | 6212 | 6890 | 5861 |
| 21 | 20 | 5 7617 | 7587 | 7558 | 7529 | 7429 | 7470 | 7440 | 7411 | 7382 | 7352 | 7323 | 7293 | 7261 | 7234 | 7205 | 7176 | 7146 |
| 20 | 21 | 7904 | 7875 | 7845 | 7816 | 7786 | 7757 | 7727 | 7628 | 7658 | 7632 | 7602 | 7579 | 7550 | 7320 | 7421 | 7461 | 7431 |
| 20 | 22 | 8192 | 8163 | 8133 | 8103 | 8073 | 8044 | 8014 | 7284 | 7255 | 7925 | 7895 | 7866 | 7836 | 7806 | 7776 | 7747 | 7717 |
| 19 | 23 | 8180 | 8450 | 8420 | 8390 | 8351 | 8331 | 8301 | 8271 | 8241 | 8211 | 8182 | 8152 | 8122 | 8092 | 8052 | 8032 | 8002 |
| 19 | 24 | 8768 | 8738 | 8708 | 8678 | 8648 | 8618 | 8588 | 8558 | 8528 | 8498 | 8458 | 8438 | 8408 | 8378 | 8348 | 8318 | 8288 |
| 18 | 25 | 5 2056 | 9025 | 8995 | 8965 | 8935 | 8905 | 8875 | 8845 | 8814 | 8784 | 8754 | 8721 | 8694 | 8564 | 8633 | 8603 | 8573 |
| 18 | 25 | 9343 | 9313 | 2283 | 2252 | 9222 | 9122 | 9152 | 9131 | 9101 | 2071 | 9040 | 9010 | 8980 | 8249 | 8919 | 8889 | 8858 |
| 17 | 27 | 9631 | 2601 | 9570 | 9540 | 9509 | 9479 | 9448 | 9418 | 2388 | 9357 | 2327 | 9296 | 2266 | 9235 | 9205 | 2174 | 9144 |
| 17 | 28 | 9919 | 9888 | 2838 | 2827 | 2796 | 2756 | 9735 | 9705 | 9674 | 9543 | 9613 | 9582 | 9552 | 9521 | 9490 | 9460 | 9422 |
| 16 | 29 | 6 (5) 0206 | 0176 | 0145 | 0114 | 0084 | 0053 | 0022 | 9221 | 9251 | 2930 | 9899 | 9868 | 2838 | 2007 | 9775 | 2745 | 2715 |
| 16 | 30 | 6 0494 | 0463 | 0432 | 0402 | 0371 | 0340 | 0309 | 0278 | 0247 | 0216 | 0185 | 0154 | 0193 | 0093 | 0062 | 0031 | 0000 |
| 15 | 31 | 0782 | 0751 | 0720 | 0589 | 0658 | 0627 | 0526 | 0565 | 0534 | 0503 | 0472 | 0440 | 0409 | 0378 | 0347 | 0316 | 0285 |
| 15 | 32 | 1070 | 1038 | 1087 | 0976 | 0945 | 0214 | 0883 | 0851 | 0820 | 0789 | 0758 | 0727 | 0595 | 0664 | 0633 | 0602 | 0571 |
| 14 | 33 | 1357 | 1326 | 1295 | 1253 | 1232 | 1201 | 1162 | 1138 | 1107 | 1075 | 1044 | 1013 | 0981 | 0950 | 0912 | 0887 | 0856 |
| 13 | 34 | 1645 | 1613 | 1582 | 1551 | 1512 | 1488 | 1456 | 1425 | 1323 | 1362 | 1330 | 1922 | 1267 | 1236 | 1204 | 1173 | 1141 |
| 13 | 35 | 6 1233 | 1901 | 1869 | 1838 | 1806 | 1775 | 1743 | 1711 | 1680 | 1648 | 1517 | 1585 | 1553 | 1522 | 1420 | 1458 | 1427 |
| 12 | 36 | 2220 | 2189 | 2157 | 2125 | 2093 | 2052 | 2030 | 1998 | 1966 | 1935 | 1903 | 1871 | 1839 | 1807 | 1775 | 1744 | 1712 |
| 12 | 37 | 2508 | 2476 | 2444 | 2412 | 2380 | 2348 | 2317 | 2285 | 2953 | 2221 | 2189 | 2157 | 2195 | 9093 | 2051 | 2029 | 1997 |
| 11 | 38 | 2796 | 2754 | 2732 | 2700 | 2657 | 2635 | 2503 | 2571 | 2539 | 2507 | 2475 | 2443 | 2411 | 2379 | 2347 | 9315 | 2283 |
| 11 | 39 | 3083 | 3051 | 3019 | 2987 | 2955 | 9922 | 2890 | 2858 | 2825 | 2794 | 2761 | 2729 | 9697 | 2665 | 2532 | 2600 | 9568 |
| 10 | 40 | 6 3371 | 3339 | 3305 | 3274 | 3242 | 3209 | 3177 | 3145 | 3112 | 3080 | 3047 | 3015 | 2983 | 2960 | 2918 | 2885 | 2853 |
| 10 | 41 | 3559 | 3626 | 3594 | 3551 | 3529 | 3495 | 3464 | 3431 | 3399 | 3365 | 3334 | 3301 | 3959 | 3935 | 3204 | 3171 | 3138 |
| 9 | 42 | 3946 | 3914 | 3881 | 3848 | 3816 | 3783 | 3750 | 3718 | 3685 | 3652 | 3690 | 3587 | 3555 | 3599 | 3489 | 3455 | 3424 |
| 9 | 43 | 4934 | 4201 | 4158 | 4136 | 4103 | 4070 | 4037 | 4004 | 3972 | 3939 | 3906 | 3873 | 3840 | 3808 | 3775 | 3742 | 3709 |
| 8 | 44 | 4521 | 4489 | 4456 | 4423 | 4320 | 4357 | 4324 | 4291 | 4258 | 4295 | 4192 | 4159 | 4125 | 4093 | 4060 | 4097 | 3994 |
| 8 | 45 | 6 4809 | 4775 | 4743 | 4710 | 4577 | 4544 | 4611 | 4578 | 4545 | 4511 | 4478 | 4445 | 4412 | 4370 | 4345 | 4313 | 4980 |
| 7 | 46 | 5097 | 5054 | 5030 | 4997 | 4954 | 4931 | 4897 | 4864 | 4831 | 4798 | 4764 | 4731 | 4598 | 4565 | 4631 | 4508 | 4565 |
| 7 | 47 | 5384 | 5351 | 5318 | 5284 | 5251 | 5218 | 5184 | 5151 | 5117 | 5084 | 5051 | 5017 | 4984 | 4950 | 4917 | 4884 | 4850 |
| 6 | 48 | 5672 | 5539 | 5605 | 5571 | 5538 | 5504 | 5471 | 5437 | 5404 | 5370 | 5337 | 5303 | 5270 | 5235 | 5203 | 5159 | 5135 |
| 6 | 49 | 5960 | 5925 | 5892 | 5859 | 5825 | 5791 | 5758 | 5794 | 5590 | 5557 | 5523 | 5589 | 5555 | 5529 | 5488 | 5454 | 5421 |
| 5 | 50 | 6 5247 | 6213 | 6180 | 5145 | 6119 | 6078 | 6044 | 5011 | 5977 | 5943 | 5909 | 5875 | 5841 | 5808 | 5774 | 5740 | 5706 |
| 5 | 51 | 5535 | 5501 | 5457 | 5433 | 6399 | 6365 | 5331 | 5297 | 5263 | 5999 | 6195 | 5161 | 5127 | 6093 | 6059 | 6095 | 5991 |
| 4 | 52 | 6822 | 5788 | 5754 | 5720 | 6686 | 5552 | 6518 | 5584 | 5550 | 5515 | 5481 | 5447 | 5413 | 5379 | 5345 | 5311 | 5276 |
| 4 | 53 | 7110 | 7075 | 7042 | 7007 | 6973 | 5939 | 6905 | 5870 | 6835 | 6802 | 5767 | 6733 | 6599 | 6665 | 6630 | 5596 | 6552 |
| 3 | 54 | 7398 | 7363 | 7329 | 7294 | 7950 | 7226 | 7191 | 7157 | 7122 | 7088 | 7054 | 7019 | 6985 | 5950 | 6916 | 5881 | 6847 |
| 3 | 55 | 6 7585 | 7651 | 7616 | 7582 | 7547 | 7513 | 7478 | 7443 | 7409 | 7374 | 7340 | 7305 | 7271 | 7235 | 7201 | 7167 | 7132 |
| 2 | 55 | 7973 | 7938 | 7903 | 7869 | 7834 | 7799 | 7755 | 7730 | 7595 | 7561 | 7526 | 7591 | 7555 | 7529 | 7487 | 7452 | 7417 |
| 2 | 57 | 8260 | 8996 | 8191 | 8156 | 8121 | 8086 | 8051 | 8015 | 7982 | 7947 | 7919 | 7877 | 7842 | 7007 | 7772 | 7737 | 7703 |
| 1 | 58 | 8548 | 8513 | 8478 | 8443 | 8408 | 8373 | 8338 | 8303 | 8258 | 8233 | 8198 | 8153 | 8128 | 8093 | 8058 | 8023 | 7988 |
| 1 | 59 | 8835 | 8800 | 8765 | 8730 | 8695 | 8550 | 6525 | 8590 | 8554 | 8519 | 8484 | 8449 | 8414 | 8379 | 8343 | 8308 | 8273 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 93° | Núm. |
|---|---|---|
| 0 | 0′ | 5 2336 |
| 5 | 1 | 2626 |
| 10 | 2 | 2917 |
| 15 | 3 | 3207 |
| 19 | 4 | 3498 |
| 24 | 5 | 5 3788 |
| 29 | 5 | 4079 |
| 34 | 7 | 4369 |
| 39 | 8 | 4660 |
| 44 | 9 | 4950 |
| 48 | 10 | 5 5241 |
| 53 | 11 | 5531 |
| 58 | 12 | 5822 |
| 63 | 13 | 6112 |
| 68 | 14 | 6402 |
| 73 | 15 | 5 6693 |
| 77 | 16 | 6983 |
| 82 | 17 | 7274 |
| 87 | 18 | 7564 |
| 92 | 19 | 7854 |
| 97 | 20 | 5 8145 |
| 102 | 21 | 8435 |
| 106 | 22 | 8726 |
| 111 | 23 | 9016 |
| 116 | 24 | 9306 |
| 121 | 25 | 5 9597 |
| 125 | 26 | 9887 |
| 131 | 27 | 6 0177 |
| 136 | 28 | 0468 |
| 140 | 22 | 0758 |
| 145 | 30 | 6 1049 |
| 150 | 31 | 1332 |
| 155 | 32 | 1629 |
| 160 | 33 | 1920 |
| 155 | 34 | 2210 |
| 159 | 35 | 6 2500 |
| 174 | 36 | 9791 |
| 179 | 37 | 3081 |
| 184 | 38 | 3371 |
| 189 | 39 | 3551 |
| 194 | 40 | 6 3952 |
| 199 | 41 | 4242 |
| 903 | 42 | 4532 |
| 208 | 43 | 4893 |
| 213 | 44 | 5113 |
| 218 | 45 | 6 5403 |
| 223 | 45 | 5593 |
| 228 | 47 | 5984 |
| 232 | 48 | 6274 |
| 237 | 49 | 6564 |
| 242 | 56 | 6 6854 |
| 947 | 51 | 7145 |
| 252 | 52 | 7435 |
| 257 | 53 | 7725 |
| 261 | 54 | 8015 |
| 266 | 55 | 6 8306 |
| 271 | 55 | 8596 |
| 976 | 57 | 8886 |
| 981 | 58 | 9176 |
| 286 | 59 | 9466 |

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**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 94° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 94° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 39 | 0' | 6 9721 | 9686 | 9651 | 9616 | 9581 | 9546 | 9510 | 9475 | 9449 | 9105 | 9370 | 9334 | 9299 | 9264 | 9229 | 9193 | 9158 | 290 | 0' | 4 7374 |
| 39 | 1 | 7 (6) 6011 | 9276 | 9941 | 2906 | 9876 | 9835 | 2799 | 9754 | 9729 | 9693 | 9658 | 9523 | 9587 | 9552 | 9517 | 9481 | 9446 | 286 | 1 | 7083 |
| 38 | 2 | 6301 | 0266 | 0231 | 0195 | 0160 | 9124 | 0089 | 6053 | 0018 | 9982 | 9947 | 9911 | 9876 | 9840 | 9806 | 9769 | 9731 | 281 | 2 | 6793 |
| 38 | 3 | 7 9591 | 6556 | 9520 | 9485 | 6449 | 6413 | 0378 | 0342 | 0307 | 0271 | 0235 | 0260 | 0164 | 0128 | 6093 | 0057 | 0621 | 276 | 3 | 6502 |
| 37 | 4 | 9881 | 6846 | 6810 | 0774 | 0738 | 6703 | 6667 | 0631 | 6595 | 6560 | 6524 | 0188 | 0452 | 0416 | 0381 | 0345 | 0309 | 271 | 4 | 6212 |
| 36 | 5 | 7 1171 | 1136 | 1160 | 1664 | 1028 | 6992 | 0956 | 6926 | 0884 | 0848 | 0812 | 0776 | 0740 | 0704 | 0669 | 0633 | 0597 | 266 | 5 | 4 5921 |
| 36 | 6 | 1461 | 1425 | 1382 | 1353 | 1317 | 1281 | 1245 | 1209 | 1173 | 1137 | 1101 | 1065 | 1029 | 0993 | 6956 | 0920 | 0884 | 261 | 6 | 5631 |
| 35 | 7 | 1751 | 1715 | 1679 | 1643 | 1607 | 1570 | 1534 | 1498 | 1462 | 1426 | 1389 | 1353 | 1317 | 1281 | 1244 | 1208 | 1172 | 257 | 7 | 5346 |
| 34 | 8 | 2041 | 2005 | 1269 | 1932 | 1896 | 1660 | 1823 | 1787 | 1751 | 1714 | 1678 | 1642 | 1605 | 1569 | 1532 | 1496 | 1460 | 252 | 6 | 5050 |
| 34 | 9 | 2331 | 2295 | 2259 | 2222 | 2185 | 2149 | 2113 | 2076 | 2039 | 2003 | 1966 | 1930 | 1893 | 1857 | 1820 | 1784 | 1747 | 247 | 9 | 4759 |
| 34 | 10 | 7 2621 | 2585 | 2548 | 2512 | 2175 | 2438 | 2402 | 2365 | 2328 | 2292 | 2255 | 2218 | 2182 | 2145 | 2108 | 2072 | 2035 | 242 | 16 | 4 4459 |
| 32 | 11 | 2911 | 2875 | 2838 | 2801 | 2764 | 2727 | 2691 | 2654 | 2617 | 2580 | 2543 | 2507 | 2470 | 2433 | 2396 | 2359 | 2322 | 237 | 11 | 4178 |
| 32 | 12 | 3201 | 3164 | 3127 | 3091 | 3054 | 3017 | 2980 | 2943 | 2906 | 2869 | 2832 | 2795 | 2758 | 2721 | 2684 | 2647 | 2610 | 232 | 12 | 3888 |
| 31 | 13 | 3491 | 3454 | 3417 | 3380 | 3343 | 3306 | 3269 | 3232 | 3195 | 3158 | 3120 | 3083 | 3046 | 3009 | 2972 | 2935 | 2896 | 228 | 13 | 3598 |
| 36 | 14 | 3781 | 3744 | 3707 | 3670 | 3632 | 3595 | 3558 | 3521 | 3483 | 3446 | 3409 | 3372 | 3334 | 3297 | 3269 | 3223 | 3185 | 223 | 14 | 3307 |
| 30 | 15 | 7 4071 | 4034 | 3996 | 3959 | 3922 | 3884 | 3847 | 3810 | 3772 | 3735 | 3697 | 3660 | 3623 | 3585 | 3548 | 3510 | 3473 | 218 | 15 | 4 3017 |
| 29 | 16 | 4361 | 4324 | 4286 | 4242 | 4211 | 4174 | 4136 | 4099 | 4061 | 4024 | 3986 | 3948 | 3211 | 3873 | 3836 | 3798 | 3760 | 213 | 16 | 2726 |
| 28 | 17 | 4551 | 1613 | 4576 | 4538 | 4500 | 4463 | 4425 | 4387 | 4350 | 4312 | 4274 | 4237 | 4199 | 1161 | 4124 | 4086 | 4048 | 208 | 17 | 2436 |
| 28 | 16 | 4941 | 4903 | 4665 | 4828 | 4790 | 4752 | 4714 | 4576 | 4636 | 1601 | 4563 | 4525 | 4487 | 4449 | 4411 | 4374 | 4336 | 203 | 18 | 2146 |
| 27 | 19 | 5231 | 5193 | 5155 | 5117 | 5079 | 5041 | 5003 | 4965 | 4927 | 4889 | 4851 | 4813 | 4775 | 4737 | 4699 | 4661 | 4623 | 199 | 19 | 1855 |
| 26 | 20 | 7 5521 | 5483 | 5445 | 5467 | 5362 | 5330 | 5292 | 5254 | 5216 | 5178 | 5140 | 5102 | 5063 | 5025 | 4987 | 4949 | 4911 | 194 | 29 | 4 1565 |
| 26 | 21 | 5811 | 5773 | 5734 | 5696 | 5658 | 5620 | 5581 | 5543 | 5505 | 5467 | 5428 | 5390 | 5352 | 5313 | 5275 | 5237 | 6198 | 189 | 21 | 1274 |
| 25 | 22 | 6101 | 6062 | 6024 | 5986 | 5947 | 5909 | 5870 | 5832 | 5794 | 5755 | 5717 | 5678 | 5640 | 5601 | 5563 | 5521 | 5486 | 184 | 22 | 0984 |
| 24 | 23 | 6391 | 6352 | 6314 | 6275 | 6236 | 6198 | 6159 | 6121 | 6082 | 6044 | 6005 | 5967 | 5928 | 5889 | 5851 | 5812 | 6774 | 179 | 23 | 0694 |
| 24 | 24 | 6680 | 6642 | 6603 | 6364 | 6526 | 6487 | 6448 | 6410 | 6371 | 6332 | 6294 | 6255 | 6216 | 6177 | 6139 | 6100 | 6061 | 174 | 24 | 0463 |
| 23 | 25 | 7 6970 | 6931 | 6893 | 6854 | 6815 | 6776 | 6737 | 6698 | 6660 | 6621 | 6582 | 6543 | 6504 | 6465 | 6426 | 6387 | 6349 | 169 | 25 | 4 6113 |
| 22 | 26 | 7260 | 7221 | 7182 | 7143 | 7104 | 7665 | 7626 | 6987 | 6948 | 6909 | 6879 | 6831 | 6792 | 6753 | 6714 | 6675 | 6636 | 165 | 26 | 3 9823 |
| 22 | 27 | 7550 | 7511 | 7472 | 7433 | 7394 | 7354 | 7315 | 7276 | 7237 | 7198 | 7159 | 7120 | 7080 | 7041 | 7602 | 6963 | 6924 | 160 | 27 | 9532 |
| 21 | 28 | 7840 | 7801 | 7761 | 7722 | 7683 | 7644 | 7604 | 7565 | 7526 | 7486 | 7447 | 7406 | 7369 | 7329 | 7290 | 7250 | 7211 | 155 | 28 | 9242 |
| 20 | 29 | 8130 | 8090 | 8051 | 8012 | 7972 | 7933 | 7893 | 7854 | 7814 | 7775 | 7736 | 7696 | 7657 | 7617 | 7579 | 7538 | 7499 | 156 | 29 | 8951 |
| 20 | 30 | 7 8420 | 8380 | 6340 | 8391 | 8261 | 8222 | 8182 | 8143 | 8103 | 8061 | 8024 | 7984 | 7945 | 7905 | 7865 | 7826 | 7786 | 145 | 30 | 3 8661 |
| 19 | 31 | 6710 | 8670 | 8630 | 8596 | 8551 | 8511 | 8471 | 8432 | 8392 | 8352 | 8312 | 8272 | 8233 | 8193 | 8153 | 8114 | 8074 | 140 | 31 | 8371 |
| 18 | 32 | 8999 | 8959 | 8920 | 8880 | 8840 | 8800 | 8766 | 8720 | 8680 | 8641 | 8601 | 8561 | 0521 | 8481 | 8441 | 8461 | 8361 | 136 | 32 | 6089 |
| 18 | 33 | 9269 | 2249 | 9209 | 9169 | 9129 | 9089 | 9049 | 9009 | 8969 | 8929 | 8889 | 8849 | 8809 | 8769 | 8729 | 8689 | 8619 | 131 | 33 | 7796 |
| 17 | 34 | 9579 | 9539 | 2499 | 9459 | 2418 | 9378 | 9338 | 9298 | 9258 | 9218 | 9177 | 9137 | 9027 | 9057 | 9017 | 8976 | 8936 | 126 | 34 | 7500 |
| 16 | 35 | 7 9869 | 9828 | 9788 | 9748 | 9708 | 9667 | 9627 | 9587 | 9546 | 9566 | 9466 | 9425 | 9385 | 9345 | 9304 | 9261 | 9224 | 121 | 35 | 3 7269 |
| 16 | 36 | 8 (7) 0159 | 0118 | 0078 | 0937 | 9997 | 9956 | 9216 | 9875 | 9835 | 9795 | 2754 | 9714 | 9673 | 9633 | 9592 | 9552 | 9511 | 116 | 36 | 6919 |
| 15 | 37 | 9448 | 0408 | 0367 | 0327 | 0286 | 0245 | 0205 | 6164 | 0124 | 6083 | 6642 | 6602 | 9961 | 9921 | 9886 | 9839 | 9799 | 111 | 37 | 6629 |
| 11 | 38 | 9 0738 | 0627 | 0657 | 0616 | 0575 | 0535 | 0494 | 6453 | 0412 | 0372 | 0331 | 0290 | 0249 | 0208 | 6168 | 6127 | 0686 | 106 | 36 | 6339 |
| 14 | 39 | 1028 | 0987 | 0946 | 0905 | 0864 | 0824 | 6783 | 6742 | 0701 | 6666 | 6619 | 6578 | 0537 | 0496 | 6455 | 0414 | 0373 | 162 | 39 | 6648 |
| 13 | 40 | 8 1318 | 1277 | 1236 | 1195 | 1154 | 1113 | 1072 | 1631 | 0990 | 0948 | 6907 | 6866 | 6825 | 0784 | 0743 | 0702 | 0661 | 97 | 46 | 3 5758 |
| 13 | 41 | 1507 | 1566 | 1526 | 1464 | 1443 | 1402 | 1361 | 1319 | 1276 | 1237 | 1196 | 1155 | 1113 | 1672 | 1031 | 0990 | 0948 | 92 | 41 | 5468 |
| 12 | 42 | 1897 | 1856 | 1815 | 1773 | 1732 | 1691 | 1649 | 1606 | 1567 | 1525 | 1484 | 1443 | 1401 | 1366 | 1318 | 1277 | 1236 | 67 | 42 | 5177 |
| 11 | 43 | 2197 | 2146 | 2104 | 2063 | 2621 | 1280 | 1938 | 1897 | 1855 | 1814 | 1772 | 1731 | 1689 | 1648 | 1666 | 1565 | 1523 | 82 | 43 | 4687 |
| 11 | 44 | 2477 | 2435 | 2394 | 2352 | 2310 | 2269 | 2227 | 2166 | 2144 | 2162 | 2661 | 2019 | 1277 | 1236 | 1824 | 1852 | 1811 | 77 | 44 | 4597 |
| 16 | 45 | 9 2767 | 2725 | 2683 | 2641 | 2606 | 2558 | 2516 | 2474 | 2432 | 2391 | 2349 | 2307 | 2265 | 2223 | 2182 | 2140 | 2098 | 73 | 45 | 3 4307 |
| 9 | 46 | 3056 | 3014 | 2973 | 2931 | 2889 | 2847 | 2865 | 2763 | 2721 | 2679 | 2637 | 2525 | 2553 | 2511 | 2469 | 2127 | 2385 | 68 | 46 | 4616 |
| 9 | 47 | 3346 | 3304 | 3262 | 3226 | 3178 | 3136 | 3094 | 3052 | 3610 | 2967 | 2925 | 2683 | 2841 | 2799 | 2757 | 2715 | 2673 | 63 | 47 | 3726 |
| 8 | 48 | 3636 | 3594 | 3551 | 3599 | 3467 | 3425 | 3383 | 3340 | 3298 | 3256 | 3214 | 3171 | 3129 | 3687 | 3045 | 3662 | 2960 | 58 | 48 | 3436 |
| 7 | 49 | 3225 | 3663 | 3841 | 3799 | 3756 | 3714 | 3671 | 3629 | 3587 | 3544 | 3502 | 3166 | 3417 | 3375 | 3332 | 3290 | 3248 | 53 | 49 | 3146 |
| 7 | 50 | 9 4215 | 4173 | 4130 | 4088 | 4045 | 4003 | 3966 | 3916 | 3875 | 3833 | 3796 | 3748 | 3705 | 3663 | 3626 | 3577 | 3535 | 48 | 50 | 3 2855 |
| 6 | 51 | 4565 | 4462 | 4426 | 4377 | 4334 | 4292 | 4249 | 4206 | 4164 | 4121 | 4678 | 4036 | 3993 | 3950 | 3908 | 3665 | 3822 | 44 | 51 | 2565 |
| 6 | 62 | 4795 | 4752 | 4709 | 4666 | 4623 | 4581 | 1538 | 4495 | 4452 | 4416 | 4367 | 4321 | 4281 | 4238 | 4125 | 4152 | 4110 | 39 | 62 | 2275 |
| 5 | 63 | 5684 | 5041 | 4228 | 4955 | 4913 | 4870 | 4827 | 4784 | 4741 | 4698 | 4655 | 4612 | 4562 | 4526 | 4483 | 4440 | 4397 | 34 | 53 | 1985 |
| 4 | 54 | 5374 | 5331 | 5288 | 5245 | 5262 | 5159 | 5116 | 5672 | 5029 | 4986 | 4243 | 4260 | 4857 | 4814 | 4771 | 4727 | 4684 | 29 | 54 | 1624 |
| 3 | 56 | 8 6664 | 5620 | 5577 | 6534 | 5491 | 5418 | 5464 | 5361 | 5318 | 5276 | 5231 | 5186 | 5145 | 5162 | 5058 | 5615 | 1972 | 24 | 55 | 3 1464 |
| 3 | 66 | 6953 | 5916 | 5867 | 5823 | 5760 | 5737 | 5693 | 5656 | 5606 | 5563 | 5520 | 5476 | 5433 | 5389 | 5346 | 5302 | 5259 | 19 | 56 | 1114 |
| 2 | 57 | 6243 | 6199 | 6156 | 6112 | 6069 | 6025 | 5982 | 6938 | 5895 | 5851 | 5808 | 5784 | 5721 | 5677 | 5634 | 5590 | 5546 | 15 | 57 | 0824 |
| 1 | 58 | 6533 | 6489 | 6445 | 6402 | 6358 | 6314 | 5271 | 6227 | 6183 | 6146 | 6096 | 6652 | 6069 | 5965 | 5921 | 5877 | 5834 | 10 | 58 | 0534 |
| 1 | 59 | 6822 | 6778 | 6735 | 6691 | 6647 | 6603 | 6559 | 6516 | 6472 | 6426 | 6364 | 6346 | 6296 | 6253 | 6269 | 6165 | 6121 | 5 | 59 | 6244 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Núm. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 94° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 94° | Núm. |
| | | 17' | 18' | 19' | 20' | 91' | 92' | 23' | 24' | 96' | 26' | 27' | 98' | 29' | 36' | 31' | 32' | 33' | | | |
| 39 | 2' | 6 9123 | 9288 | 2269 | 2017 | 8282 | 8947 | 8911 | 8872 | 8241 | 8805 | 2778 | 8735 | 8700 | 8664 | 8629 | 8523 | 8558 | 0 | 0' | 6 9756 |
| 39 | 1 | 9410 | 9576 | 9340 | 9324 | 9269 | 9233 | 9198 | 9163 | 9127 | 9892 | 9032 | 9021 | 8985 | 8950 | 8914 | 8879 | 8843 | 5 | 1 | 7 2047 |
| 38 | 2 | 9698 | 9662 | 9627 | 9591 | 9552 | 9528 | 9485 | 9449 | 9414 | 2378 | 9342 | 9307 | 9271 | 9235 | 9200 | 9164 | 9129 | 10 | 2 | 0337 |
| 38 | 3 | 9986 | 9950 | 9914 | 9878 | 2843 | 9827 | 9771 | 2736 | 9700 | 9664 | 2628 | 9593 | 9557 | 9521 | 9485 | 9450 | 9414 | 14 | 3 | 0627 |
| 37 | 4 | 7 (6) 0273 | 0937 | 0221 | 0126 | 8138 | 0024 | 0058 | 0099 | 9986 | 2950 | 9914 | 9878 | 9843 | 9807 | 9771 | 9735 | 9699 | 19 | 4 | 8917 |
| 36 | 6 | 7 (6) 2561 | 0525 | 0429 | 0463 | 2417 | 0381 | 0345 | 0302 | 0273 | 0237 | 0208 | 0164 | 0128 | 0092 | 0056 | 8820 | 9984 | 24 | 6 | 7 1207 |
| 36 | 6 | 7 0248 | 2012 | 2776 | 0740 | 0704 | 0667 | 0631 | 0595 | 6552 | 0523 | 0487 | 0450 | 0414 | 0378 | 6342 | 0306 | 0269 | 29 | 6 | 1497 |
| 35 | 7 | 1136 | 1299 | 1023 | 1297 | 0990 | 2954 | 0918 | 0882 | 0845 | 0882 | 0773 | 0736 | 0700 | 0664 | 0627 | 0591 | 2534 | 34 | 7 | 1788 |
| 34 | 8 | 1423 | 1387 | 1350 | 1314 | 1977 | 1241 | 1204 | 1168 | 1132 | 1095 | 1059 | 1822 | 2986 | 0942 | 0913 | 0876 | 0840 | 39 | 8 | 2078 |
| 34 | 9 | 1711 | 1674 | 1637 | 1621 | 1564 | 1628 | 1491 | 1454 | 1410 | 1381 | 1345 | 1308 | 1271 | 1235 | 1198 | 1161 | 1125 | 43 | 9 | 2368 |
| 33 | 10 | 7 1928 | 1961 | 1925 | 1888 | 1251 | 1814 | 1778 | 1741 | 1704 | 1667 | 1631 | 1594 | 1557 | 1522 | 1483 | 1447 | 1418 | 48 | 10 | 7 2658 |
| 32 | 11 | 9286 | 2249 | 2212 | 2175 | 2138 | 2101 | 2064 | 2027 | 1990 | 1954 | 1917 | 1880 | 1843 | 1806 | 1769 | 1732 | 1625 | 53 | 11 | 2948 |
| 32 | 19 | 2573 | 2536 | 2499 | 2462 | 2425 | 2388 | 2351 | 2314 | 2277 | 2240 | 2203 | 2166 | 2128 | 2091 | 2054 | 2017 | 1980 | 58 | 12 | 3238 |
| 31 | 13 | 9861 | 2823 | 2780 | 2749 | 2712 | 2275 | 2637 | 2600 | 2523 | 2526 | 2489 | 2451 | 2414 | 2377 | 2348 | 2302 | 2265 | 63 | 13 | 3528 |
| 30 | 14 | 3142 | 3111 | 3273 | 3036 | 2999 | 2961 | 2924 | 2827 | 2842 | 2812 | 2776 | 2737 | 2700 | 2662 | 2625 | 2588 | 2550 | 68 | 14 | 3818 |
| 32 | 16 | 7 3435 | 3398 | 3361 | 3323 | 3986 | 3248 | 3211 | 3173 | 3136 | 3098 | 3061 | 3023 | 2986 | 2248 | 2911 | 2873 | 2835 | 72 | 15 | 7 4168 |
| 99 | 16 | 3723 | 3685 | 3248 | 3610 | 3572 | 3535 | 3497 | 3422 | 3422 | 3384 | 3347 | 3369 | 3271 | 3234 | 3196 | 3158 | 3121 | 77 | 16 | 4399 |
| ·28 | 17 | 4010 | 3973 | 3235 | 3827 | 3859 | 3822 | 3784 | 3746 | 3768 | 3670 | 3633 | 3595 | 3557 | 3519 | 3481 | 5443 | 3106 | 82 | 17 | 4689 |
| 98 | 18 | 4298 | 4260 | 4222 | 4184 | 4146 | 4188 | 4870 | 4232 | 3994 | 3956 | 3919 | 3881 | 3843 | 3805 | 3767 | 3729 | 3691 | 27 | 18 | 4979 |
| 97 | 19 | 4585 | 4547 | 4502 | 4471 | 4433 | 4395 | 4357 | 4312 | 4281 | 1243 | 4225 | 4166 | 4128 | 4090 | 4032 | 4014 | 3976 | 92 | 19 | 5269 |
| 96 | 20 | 7 4273 | 4834 | 4726 | 4758 | 4720 | 4682 | 4643 | 1625 | 4567 | 4529 | 4491 | 4452 | 4414 | 4376 | 4337 | 4299 | 4261 | 27 | 22 | 7 5559 |
| 96 | 21 | 5160 | 5122 | 5083 | 5245 | 5007 | 4968 | 4932 | 1892 | 4853 | 4815 | 4776 | 4738 | 4708 | 4681 | 4623 | 4584 | 4546 | 101 | 21 | 5849 |
| 25 | 22 | 5447 | 5409 | 5372 | 5332 | 5293 | 5255 | 5216 | 5178 | 5139 | 5101 | 5062 | 5094 | 4985 | 4947 | 4908 | 4876 | 4831 | 106 | 29 | 6139 |
| 24 | 23 | 5735 | 5226 | 5658 | 5612 | 5580 | 5542 | 5503 | 5464 | 5426 | 5387 | 5348 | 5310 | 5271 | 5232 | 5194 | 5155 | 5116 | 111 | 23 | 6429 |
| 94 | 24 | 6022 | 5983 | 5945 | 5206 | 5867 | 5828 | 5792 | 5751 | 5712 | 5673 | 5634 | 6595 | 6557 | 5518 | 5479 | 5440 | 5101 | 116 | 24 | 6719 |
| 93 | 25 | 7 6310 | 6271 | 6232 | 6193 | 6154 | 6115 | 6076 | 6037 | 5998 | 5959 | 5920 | 5881 | 5842 | 5803 | 5764 | 5725 | 5686 | 121 | 25 | 7 7009 |
| 92 | 26 | 6597 | 6558 | 6519 | 6480 | 6441 | 6402 | 6363 | 6323 | 6284 | 6245 | 6206 | 6167 | 6128 | 6089 | 6850 | 6010 | 5971 | 126 | 26 | 7299 |
| 92 | 27 | 6884 | 6815 | 6806 | 6767 | 6728 | 6688 | 6649 | 6610 | 6571 | 6531 | 6492 | 6463 | 6413 | 6374 | 6335 | 6296 | 6256 | 130 | 27 | 7589 |
| 91 | 28 | 7172 | 7132 | 7093 | 7254 | 7014 | 6976 | 6936 | 6896 | 6857 | 6817 | 6778 | 6738 | 6699 | 6660 | 6620 | 6581 | 6541 | 135 | 28 | 7879 |
| 20 | 22 | 7459 | 7422 | 7386 | 7341 | 7301 | 7262 | 7222 | 7182 | 7143 | 7163 | 7264 | 7224 | 6985 | 6245 | 6966 | 6866 | 6826 | 140 | 29 | 8169 |
| 90 | 32 | 7 7747 | 7707 | 7667 | 7628 | 7528 | 7542 | 7569 | 7469 | 7429 | 7389 | 7358 | 7310 | 7270 | 7231 | 7191 | 7151 | 7111 | 145 | 36 | 7 8459 |
| 19 | 31 | 8034 | 7224 | 7954 | 7916 | 7875 | 7835 | 7795 | 7765 | 7715 | 7675 | 7636 | 7596 | 7656 | 7616 | 7476 | 7436 | 7326 | 150 | 31 | 8749 |
| 18 | 32 | 8391 | 8281 | 8241 | 8201 | 8161 | 8121 | 8081 | 8041 | 8262 | 7961 | 7921 | 7281 | 7841 | 7801 | 7761 | 7721 | 7681 | 155 | 39 | 9039 |
| 18 | 33 | 8682 | 8529 | 8628 | 8488 | 8448 | 8408 | 8368 | 8328 | 8288 | 8248 | 8287 | 8167 | 8127 | 8087 | 8047 | 8082 | 7966 | 159 | 33 | 9329 |
| 17 | 34 | 2092 | 8856 | 8815 | 8775 | 8735 | 8695 | 8654 | 8614 | 8574 | 8534 | 8423 | 8453 | 8413 | 8372 | 8332 | 8292 | 8251 | 164 | 34 | 9619 |
| 16 | 36 | 7 9183 | 9143 | 9102 | 9062 | 9022 | 8981 | 8941 | 8900 | 8860 | 8890 | 8779 | 8759 | 8698 | 8658 | 8617 | 8577 | 8536 | 169 | 35 | 7 9909 |
| 16 | 36 | 9471 | 9432 | 9389 | 9342 | 9388 | 9268 | 9927 | 9187 | 9146 | 9166 | 9065 | 9024 | 8984 | 8943 | 8902 | 8869 | 8821 | 174 | 36 | 8 0199 |
| 15 | 37 | 9758 | 9717 | 9676 | 9636 | 9695 | 9551 | 9514 | 9473 | 9432 | 9392 | 9351 | 9310 | 9269 | 9229 | 9188 | 9147 | 9106 | 179 | 37 | 0489 |
| 14 | 38 | 2 (7) 2045 | 0004 | 9964 | 9923 | 9882 | 9841 | 9808 | 9759 | 9718 | 9678 | 9637 | 9596 | 9555 | 9514 | 9473 | 9432 | 9391 | 184 | 38 | 0779 |
| 14 | 39 | 2332 | 2299 | 0261 | 2212 | 0129 | 0128 | 0687 | 0646 | 0605 | 9964 | 9923 | 9881 | 9246 | 9799 | 9758 | 9717 | 9676 | 188 | 39 | 1069 |
| 13 | 40 | 2 (7) 0620 | 2579 | 2538 | 0496 | 0455 | 0114 | 0373 | 0332 | 8291 | 0250 | 0268 | 0167 | 0126 | 0085 | 2044 | 0002 | 9961 | 193 | 40 | 8 1359 |
| 13 | 41 | 2 0907 | 0866 | 2895 | 2783 | 0742 | 0721 | 0659 | 8618 | 8577 | 0533 | 0494 | 0453 | 0411 | 2372 | 0329 | 0287 | 0246 | 198 | 41 | 1649 |
| 12 | 49 | 1194 | 1153 | 1112 | 1670 | 1629 | 0987 | 0946 | 0964 | 0863 | 0821 | 0780 | 0738 | 6697 | 0656 | 2614 | 0579 | 0631 | 203 | 42 | 1939 |
| 11 | 43 | 1482 | 1440 | 1398 | 1357 | 1315 | 1274 | 1232 | 1191 | 1149 | 1107 | 1066 | 1624 | 6983 | 8941 | 2899 | 0858 | 0816 | 208 | 43 | 2228 |
| 11 | 44 | 1769 | 1727 | 1685 | 1644 | 1662 | 1560 | 1519 | 1477 | 1435 | 1393 | 1352 | 1312 | 1268 | 1926 | 1184 | 1143 | 1121 | 913 | 44 | 2518 |
| 16 | 46 | 8 2056 | 9014 | 1972 | 1931 | 1889 | 1847 | 1805 | 1763 | 1721 | 1679 | 1637 | 1595 | 1554 | 1519 | 1476 | 1428 | 1386 | 917 | 45 | 8 2808 |
| 9 | 46 | 9343 | 2301 | 2259 | 2217 | 2175 | 2133 | 2091 | 2649 | 2007 | 1966 | 1923 | 1881 | 1839 | 1797 | 1755 | 1713 | 1871 | 922 | 46 | 3098 |
| 9 | 47 | 9631 | 2508 | 2546 | 9524 | 2462 | 2420 | 9378 | 2336 | 2293 | 2251 | 2269 | 2167 | 2124 | 2082 | 2040 | 1998 | 1956 | 927 | 47 | 3388 |
| 8 | 48 | 9918 | 2876 | 2833 | 2791 | 9749 | 2706 | 2264 | 2622 | 2572 | 2537 | 2495 | 2452 | 2416 | 2368 | 2325 | 2283 | 2246 | 932 | 48 | 3678 |
| 7 | 49 | 3266 | 3163 | 3120 | 3078 | 3035 | 2993 | 2950 | 2968 | 2865 | 2823 | 2780 | 2738 | 2695 | 2653 | 9610 | 2528 | 2525 | 937 | 49 | 3968 |
| 7 | 62 | 2 3492 | 3450 | 3407 | 3365 | 5322 | 3279 | 3237 | 3194 | 3151 | 3109 | 3666 | 3624 | 2981 | 2938 | 2896 | 2853 | 2810 | 949 | 58 | 8 4258 |
| 6 | 51 | 3700 | 3737 | 3624 | 3651 | 3609 | 3566 | 3523 | 3480 | 3438 | 3395 | 3352 | 3309 | 3266 | 3224 | 3181 | 3138 | 3095 | 946 | 51 | 4547 |
| 6 | 62 | 4067 | 4624 | 3981 | 3938 | 3896 | 3852 | 3889 | 3762 | 3724 | 3681 | 3638 | 3625 | 3552 | 3509 | 3462 | 3423 | 3380 | 951 | 69 | 4837 |
| 6 | 53 | 4354 | 4311 | 4268 | 4295 | 4182 | 4139 | 4096 | 4053 | 4616 | 3966 | 3923 | 3882 | 3837 | 3794 | 3761 | 3708 | 3665 | 256 | 63 | 6127 |
| 4 | 54 | 4641 | 4598 | 4566 | 4512 | 4468 | 4425 | 4382 | 4339 | 4296 | 4252 | 4209 | 4166 | 4123 | 4679 | 4636 | 3993 | 3938 | 961 | 64 | 5417 |
| 3 | 55 | 8 4928 | 4885 | 4842 | 4798 | 4756 | 4712 | 4668 | 4625 | 4582 | 4538 | 4495 | 4451 | 4408 | 4366 | 4391 | 4978 | 4934 | 966 | 66 | 8 6707 |
| 3 | 56 | 5216 | 5172 | 6129 | 5085 | 5049 | 4992 | 4955 | 4911 | 4822 | 4824 | 4781 | 4737 | 4693 | 4656 | 4606 | 4563 | 4519 | 271 | 66 | 6997 |
| 2 | 57 | 6683 | 5459 | 5415 | 5372 | 5328 | 5285 | 5241 | 5197 | 5154 | 5110 | 5066 | 5023 | 4979 | 4935 | 4892 | 4848 | 4804 | 976 | 57 | 6286 |
| 1 | 58 | 6796 | 5746 | 5782 | 5659 | 5616 | 6571 | 5627 | 6483 | 6442 | 5396 | 6352 | 5308 | 6254 | 5226 | 5177 | 6133 | 5089 | 920 | 68 | 2576 |
| 1 | 59 | 6077 | 6033 | 6289 | 5946 | 5221 | 5257 | 5814 | 6772 | 6796 | 5682 | 5638 | 5594 | 5550 | 5206 | 5462 | 5418 | 5374 | 986 | 69 | 6866 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 95° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 95° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | 0' | 9 | 7112 | 7068 | 7024 | 6980 | 6936 | 6892 | 6848 | 6804 | 6760 | 6716 | 6672 | 6628 | 6584 | 6540 | 6496 | 6452 | 6408 | 290 | 0' | 2 2953 |
| 48 | 1 | | 7402 | 7357 | 7313 | 7269 | 7225 | 7181 | 7137 | 7093 | 7049 | 7005 | 6961 | 6916 | 6872 | 6828 | 6784 | 6740 | 6696 | 285 | 1 | 9663 |
| 47 | 2 | | 7691 | 7647 | 7603 | 7558 | 7514 | 7470 | 7426 | 7381 | 7337 | 7293 | 7249 | 7204 | 7160 | 7116 | 7071 | 7027 | 6983 | 280 | 2 | 9373 |
| 46 | 3 | | 7981 | 7936 | 7892 | 7848 | 7803 | 7759 | 7714 | 7670 | 7626 | 7581 | 7537 | 7492 | 7448 | 7403 | 7359 | 7315 | 7270 | 275 | 3 | 9083 |
| 45 | 4 | | 8270 | 8226 | 8181 | 8137 | 8092 | 8048 | 8003 | 7959 | 7914 | 7870 | 7825 | 7780 | 7736 | 7691 | 7647 | 7602 | 7557 | 271 | 4 | 8793 |
| 44 | 5 | 8 | 8560 | 8515 | 8471 | 8426 | 8381 | 8337 | 8292 | 8247 | 8203 | 8158 | 8113 | 8068 | 8024 | 7979 | 7934 | 7889 | 7845 | 268 | 5 | 2 8503 |
| 44 | 6 | | 8850 | 8805 | 8760 | 8715 | 8670 | 8626 | 8581 | 8536 | 8491 | 8446 | 8401 | 8356 | 8311 | 8267 | 8222 | 8177 | 5132 | 261 | 6 | 5212 |
| 43 | 7 | | 9139 | 9094 | 9049 | 9004 | 8959 | 8914 | 8869 | 8824 | 8779 | 8734 | 8689 | 8644 | 8599 | 8554 | 8509 | 8464 | 8419 | 256 | 7 | 7922 |
| 42 | 8 | | 9429 | 9384 | 9339 | 9293 | 9248 | 9203 | 9158 | 9113 | 9068 | 9023 | 8977 | 8932 | 8887 | 8842 | 8797 | 8752 | 8706 | 251 | 5 | 7632 |
| 41 | 9 | | 9718 | 9673 | 9628 | 9583 | 9537 | 9492 | 9447 | 9401 | 9356 | 9311 | 9266 | 9220 | 9175 | 9130 | 9084 | 9039 | 8994 | 246 | 2 | 7342 |
| 40 | 10 | 9 (8) | 0008 | 9962 | 9917 | 9872 | 9826 | 9781 | 9735 | 9690 | 9645 | 9599 | 9554 | 9508 | 9463 | 9417 | 9372 | 9326 | 9281 | 242 | 10 | 2 7052 |
| 40 | 11 | | 0297 | 0252 | 0206 | 0161 | 0115 | 0070 | 0024 | 9979 | 9933 | 9887 | 9842 | 9796 | 9751 | 9705 | 9659 | 9614 | 9568 | 237 | 11 | 6762 |
| 39 | 12 | | 0587 | 0541 | 0496 | 0450 | 0404 | 0359 | 0313 | 0267 | 0221 | 0176 | 0130 | 0084 | 0038 | 9993 | 9947 | 9901 | 9855 | 232 | 12 | 6472 |
| 38 | 13 | 9 | 0877 | 0831 | 0785 | 0739 | 0693 | 0647 | 0601 | 0556 | 0510 | 0464 | 0418 | 0372 | 0326 | 0280 | 0234 | 0188 | 0142 | 227 | 13 | 6182 |
| 37 | 14 | | 1166 | 1120 | 1074 | 1028 | 0982 | 0936 | 0890 | 0844 | 0798 | 0752 | 0706 | 0660 | 0614 | 0568 | 0522 | 0476 | 0430 | 222 | 14 | 5892 |
| 36 | 15 | 9 | 1456 | 1409 | 1363 | 1317 | 1271 | 1225 | 1179 | 1133 | 1086 | 1040 | 0994 | 0948 | 0902 | 0855 | 0809 | 0763 | 0717 | 217 | 15 | 2 5601 |
| 36 | 16 | | 1745 | 1699 | 1653 | 1606 | 1560 | 1514 | 1467 | 1421 | 1375 | 1328 | 1282 | 1236 | 1189 | 1143 | 1097 | 1050 | 1004 | 213 | 16 | 5311 |
| 35 | 17 | | 2035 | 1988 | 1942 | 1895 | 1849 | 1803 | 1756 | 1710 | 1663 | 1617 | 1570 | 1624 | 1477 | 1431 | 1384 | 1338 | 1291 | 208 | 17 | 5021 |
| 34 | 18 | | 2324 | 2278 | 2231 | 2184 | 2138 | 2091 | 2045 | 1998 | 1951 | 1905 | 1858 | 1812 | 1765 | 1718 | 1672 | 1625 | 1578 | 203 | 18 | 4731 |
| 33 | 19 | | 2614 | 2567 | 2520 | 2473 | 2427 | 2380 | 2333 | 2287 | 2240 | 2193 | 2146 | 2100 | 2053 | 2006 | 1959 | 1912 | 1866 | 198 | 19 | 4441 |
| 32 | 20 | 9 | 2903 | 2856 | 2809 | 2763 | 2716 | 2669 | 2622 | 2575 | 2528 | 2481 | 2434 | 2387 | 2340 | 2294 | 2247 | 2200 | 2153 | 193 | 20 | 2 4161 |
| 32 | 21 | | 3193 | 3146 | 3099 | 3052 | 3005 | 2957 | 2911 | 2863 | 2816 | 2769 | 2722 | 2675 | 2628 | 2581 | 2534 | 2487 | 2440 | 188 | 21 | 3861 |
| 31 | 22 | | 3482 | 3435 | 3388 | 3341 | 3293 | 3246 | 3199 | 3152 | 3105 | 3058 | 3010 | 2963 | 2916 | 2869 | 2821 | 2774 | 2727 | 184 | 22 | 3571 |
| 30 | 23 | | 3771 | 3724 | 3677 | 3630 | 3582 | 3535 | 3488 | 3440 | 3393 | 3346 | 3298 | 3251 | 3204 | 3156 | 3109 | 3061 | 3014 | 179 | 23 | 3281 |
| 29 | 24 | | 4061 | 4013 | 3966 | 3919 | 3871 | 3824 | 3776 | 3729 | 3681 | 3634 | 3586 | 3539 | 3491 | 3444 | 3396 | 3349 | 3301 | 174 | 24 | 2991 |
| 28 | 25 | 9 | 4359 | 4303 | 4255 | 4208 | 4160 | 4112 | 4065 | 4017 | 3970 | 3922 | 3874 | 3827 | 3779 | 3731 | 3684 | 3636 | 3588 | 169 | 25 | 2 2701 |
| 27 | 26 | | 4640 | 4592 | 4644 | 4497 | 4449 | 4401 | 4353 | 4306 | 4258 | 4210 | 4162 | 4114 | 4067 | 4019 | 3971 | 3923 | 3875 | 164 | 26 | 2411 |
| 27 | 27 | | 4929 | 4881 | 4834 | 4786 | 4738 | 4690 | 4642 | 1594 | 4546 | 4498 | 4450 | 4402 | 4354 | 4306 | 4258 | 4210 | 4162 | 159 | 27 | 2121 |
| 26 | 28 | | 5219 | 5171 | 5123 | 5075 | 5027 | 4979 | 4931 | 4882 | 4834 | 4786 | 4738 | 4690 | 4642 | 4594 | 4546 | 4498 | 4450 | 155 | 28 | 1831 |
| 25 | 29 | | 5508 | 5460 | 5412 | 5364 | 5315 | 5267 | 5219 | 5171 | 5123 | 5074 | 5026 | 4978 | 4930 | 4881 | 4833 | 4785 | 4737 | 150 | 22 | 1541 |
| 24 | 30 | 9 | 5798 | 5749 | 5701 | 5653 | 5604 | 5556 | 5508 | 5459 | 5411 | 5362 | 5314 | 5266 | 5217 | 5169 | 5120 | 5072 | 5024 | 145 | 30 | 2 1251 |
| 23 | 31 | | 6087 | 6038 | 5990 | 5942 | 5893 | 5845 | 5796 | 5748 | 5699 | 5651 | 5602 | 5553 | 5505 | 5456 | 5408 | 5359 | 5311 | 140 | 31 | 0961 |
| 23 | 32 | | 6376 | 6328 | 6279 | 6231 | 6182 | 6133 | 6085 | 6036 | 5987 | 5939 | 5890 | 5841 | 5793 | 5744 | 5695 | 5647 | 5598 | 135 | 32 | 0671 |
| 22 | 33 | | 6666 | 6617 | 6568 | 6519 | 6471 | 6422 | 6373 | 6324 | 6276 | 6227 | 6178 | 6129 | 6080 | 6031 | 6983 | 5934 | 5885 | 130 | 33 | 0381 |
| 21 | 34 | | 6955 | 6906 | 6857 | 6808 | 6759 | 6711 | 6662 | 6613 | 6564 | 6515 | 6466 | 6417 | 6368 | 6319 | 6270 | 6221 | 6172 | 126 | 34 | 0091 |
| 20 | 35 | 9 | 7244 | 7195 | 7116 | 7097 | 7048 | 6999 | 6950 | 6901 | 6852 | 6803 | 6754 | 6705 | 6655 | 6606 | 6557 | 6508 | 6459 | 121 | 35 | 1 9801 |
| 19 | 36 | | 7534 | 7485 | 7435 | 7386 | 7337 | 7288 | 7239 | 7189 | 7140 | 7091 | 7042 | 6992 | 6943 | 6894 | 6845 | 6795 | 5746 | 116 | 36 | 9511 |
| 19 | 37 | | 7823 | 7774 | 7724 | 7075 | 7626 | 7576 | 7527 | 7478 | 7428 | 7379 | 7330 | 7280 | 7231 | 7181 | 7132 | 7082 | 7233 | 111 | 37 | 2221 |
| 18 | 38 | | 8112 | 8063 | 8013 | 7964 | 7915 | 7865 | 7815 | 7766 | 7716 | 7667 | 7617 | 7568 | 7518 | 7469 | 7419 | 7370 | 7320 | 106 | 35 | 8931 |
| 17 | 39 | | 8402 | 8352 | 8303 | 8253 | 8203 | 8154 | 8104 | 8054 | 8005 | 7955 | 7905 | 7856 | 7806 | 7756 | 7706 | 7657 | 7607 | 101 | 39 | 5641 |
| 16 | 40 | 9 | 8691 | 8611 | 8592 | 8542 | 8492 | 8442 | 8392 | 8343 | 8293 | 8243 | 8193 | 8143 | 8093 | 8044 | 7994 | 7944 | 7894 | 97 | 40 | 1 8351 |
| 15 | 41 | | 8980 | 8930 | 8881 | 8831 | 8781 | 8731 | 8681 | 8631 | 8581 | 8531 | 8481 | 8431 | 8381 | 8331 | 8281 | 8231 | 8181 | 92 | 41 | 8061 |
| 15 | 42 | | 9270 | 9220 | 9170 | 9120 | 9069 | 9019 | 8969 | 8919 | 8869 | 8819 | 8769 | 8719 | 8669 | 8618 | 8568 | 8518 | 8468 | 87 | 42 | 7772 |
| 14 | 43 | | 9559 | 9509 | 9459 | 9408 | 9358 | 9308 | 9258 | 9207 | 9157 | 9107 | 9057 | 9006 | 8956 | 8906 | 8856 | 8806 | 8755 | 82 | 43 | 7482 |
| 13 | 44 | | 9848 | 9798 | 9748 | 9697 | 9647 | 9596 | 9546 | 9496 | 9445 | 9395 | 9345 | 9294 | 9244 | 9193 | 9143 | 9092 | 9042 | 77 | 44 | 7192 |
| 12 | 45 | 0 (9) | 0138 | 0087 | 0037 | 9986 | 9936 | 9885 | 9835 | 9784 | 0733 | 9683 | 9632 | 9582 | 9531 | 9481 | 9430 | 9379 | 9329 | 72 | 45 | 1 6902 |
| 11 | 46 | | 0427 | 0376 | 0326 | 0275 | 0224 | 0174 | 0123 | 0072 | 0022 | 9971 | 9920 | 9869 | 9819 | 9768 | 9717 | 9666 | 9616 | 68 | 46 | 6612 |
| 11 | 47 | | 0716 | 0665 | 0615 | 0564 | 0513 | 0462 | 0411 | 0360 | 0310 | 0259 | 0208 | 0157 | 0106 | 0055 | 0004 | 9954 | 9903 | 63 | 47 | 6322 |
| 10 | 48 | 0 | 1005 | 0954 | 0904 | 0853 | 0802 | 0751 | 0700 | 0649 | 0598 | 0547 | 0496 | 0445 | 0394 | 0343 | 0292 | 0241 | 0190 | 58 | 48 | 6032 |
| 9 | 49 | | 1295 | 1244 | 1193 | 1141 | 1090 | 1039 | 0988 | 0937 | 0886 | 0835 | 0784 | 0732 | 0681 | 0630 | 0579 | 0520 | 0477 | 53 | 49 | 5742 |
| 8 | 50 | 0 | 1584 | 1533 | 1482 | 1430 | 1379 | 1328 | 1277 | 1225 | 1174 | 1123 | 1071 | 1020 | 0969 | 0917 | 0866 | 0815 | 5763 | 48 | 50 | 1 5453 |
| 7 | 51 | | 1873 | 1822 | 1770 | 1719 | 1668 | 1616 | 1565 | 1513 | 1462 | 1411 | 1359 | 1308 | 1256 | 1205 | 1153 | 1102 | 1050 | 43 | 51 | 5163 |
| 6 | 52 | | 2162 | 2111 | 2059 | 2008 | 1956 | 1905 | 1853 | 1802 | 1750 | 1698 | 1647 | 1595 | 1544 | 1492 | 1440 | 1389 | 1337 | 39 | 52 | 4873 |
| 6 | 53 | | 2452 | 2400 | 2348 | 2297 | 2245 | 2193 | 2142 | 2090 | 2038 | 1986 | 1935 | 1883 | 1831 | 1779 | 1728 | 1676 | 1624 | 34 | 53 | 4583 |
| 5 | 54 | | 2741 | 2689 | 2637 | 2585 | 2534 | 2482 | 2435 | 2378 | 2326 | 2274 | 2222 | 2171 | 2119 | 2067 | 2015 | 1963 | 1911 | 29 | 54 | 4293 |
| 4 | 55 | 5 | 3030 | 2978 | 2926 | 2874 | 2822 | 2775 | 2718 | 2666 | 2614 | 2562 | 2510 | 2458 | 2406 | 2354 | 2302 | 2250 | 2198 | 24 | 55 | 1 4003 |
| 3 | 56 | | 3319 | 3267 | 3215 | 3163 | 3111 | 3059 | 3007 | 2954 | 2902 | 2850 | 2798 | 2746 | 2694 | 2641 | 2589 | 2537 | 2485 | 19 | 56 | 3714 |
| 2 | 57 | | 3608 | 3556 | 3504 | 3452 | 3399 | 3347 | 3295 | 3243 | 3190 | 3138 | 3086 | 3033 | 2981 | 2929 | 2876 | 2824 | 2771 | 14 | 57 | 3424 |
| 2 | 58 | | 3898 | 3845 | 3793 | 3745 | 3685 | 3636 | 3583 | 3531 | 3478 | 3426 | 3373 | 3321 | 3268 | 3216 | 3163 | 3111 | 3058 | 10 | 58 | 3134 |
| 1 | 59 | | 4157 | 4134 | 4082 | 4029 | 3977 | 3924 | 3871 | 3819 | 3766 | 3714 | 3661 | 3608 | 3556 | 3503 | 3450 | 3398 | 3345 | 5 | 59 | 2844 |

| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar | 95° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 95° | Núm. |
| | | | 17′ | 18′ | 19′ | 28′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | | | |
| 48 | 0′ | 8 | 6364 | 6326 | 6276 | 6232 | 6188 | 6144 | 6120 | 6056 | 6012 | 5067 | 5923 | 5879 | 5835 | 5791 | 5747 | 5703 | 5659 | 8 | 0′ | 6 7156 |
| 48 | 1 | | 6651 | 6607 | 2563 | 6512 | 6475 | 6430 | 6386 | 6340 | 6298 | 6253 | 6209 | 6165 | 6121 | 6076 | 6032 | 5988 | 5943 | 5 | 1 | 7446 |
| 47 | 2 | | 6238 | 6894 | 6850 | 6805 | 6761 | 6717 | 6672 | 6628 | 6581 | 6530 | 6495 | 6150 | 6406 | 6361 | 6317 | 6273 | 6228 | 10 | 2 | 7735 |
| 46 | 3 | | 7226 | 7181 | 7137 | 7092 | 7048 | 7003 | 6050 | 6914 | 6869 | 6825 | 6780 | 6736 | 6691 | 6647 | 6682 | 6558 | 6513 | 14 | 3 | 8025 |
| 45 | 4 | | 7513 | 7468 | 7423 | 7379 | 7334 | 7280 | 7245 | 7200 | 7155 | 7111 | 7066 | 7021 | 6977 | 6932 | 6887 | 6840 | 6798 | 19 | 4 | 8315 |
| 44 | 2 | 8 | 7800 | 7755 | 7710 | 7665 | 7621 | 7576 | 7531 | 7486 | 7441 | 7397 | 7352 | 7307 | 7262 | 7217 | 7172 | 7127 | 7082 | 24 | 5 | 8 8605 |
| 44 | 2 | | 8087 | 8042 | 7997 | 7052 | 7907 | 7862 | 7817 | 7772 | 7727 | 7680 | 7637 | 7592 | 7517 | 7502 | 7457 | 7412 | 7367 | 29 | 6 | 8891 |
| 43 | 7 | | 6374 | 8322 | 8284 | 8232 | 8194 | 8142 | 8104 | 8058 | 8013 | 7968 | 7903 | 7878 | 7833 | 7787 | 7742 | 7697 | 7652 | 34 | 7 | 9184 |
| 42 | 8 | | 8661 | 8612 | 8571 | 8525 | 8180 | 8435 | 8390 | 8344 | 8299 | 8254 | 8209 | 8163 | 8118 | 8073 | 8027 | 7982 | 7937 | 39 | 8 | 9474 |
| 41 | 9 | | 8248 | 8903 | 8857 | 8810 | 8767 | 8721 | 8676 | 8631 | 8585 | 8540 | 8494 | 8449 | 8403 | 8358 | 8312 | 8267 | 8221 | 43 | 9 | 9763 |
| 40 | 10 | 8 | 2235 | 9100 | 9144 | 9099 | 9053 | 9008 | 8962 | 8917 | 8871 | 8825 | 8780 | 8734 | 8689 | 8613 | 8507 | 8552 | 8506 | 48 | 10 | 9 0053 |
| 40 | 11 | | 2520 | 9477 | 9431 | 9385 | 9340 | 9294 | 9248 | 9203 | 9157 | 9111 | 9065 | 9000 | 8074 | 8928 | 8882 | 8837 | 8791 | 53 | 11 | 0343 |
| 39 | 12 | | 9809 | 9764 | 9718 | 9672 | 9626 | 0580 | 9535 | 9180 | 9443 | 9397 | 9351 | 9305 | 9259 | 0213 | 9167 | 9120 | 0076 | 58 | 12 | 0633 |
| 38 | 13 | 2 (6) | 0097 | 0051 | 0205 | 9959 | 0913 | 9867 | 9821 | 9775 | 9709 | 9683 | 9637 | 9591 | 0545 | 0499 | 9452 | 0406 | 9360 | 63 | 13 | 0922 |
| 37 | 14 | | 2384 | 0337 | 0291 | 0245 | 0190 | 0153 | 0107 | 0061 | 0015 | 9968 | 9922 | 9876 | 9830 | 9781 | 9737 | 9691 | 9645 | 68 | 14 | 1212 |
| 36 | 15 | 2 (6) | 0671 | 8624 | 0578 | 0532 | 2486 | 0439 | 0393 | 0317 | 0300 | 0254 | 0008 | 0161 | 0115 | 0069 | 0022 | 0976 | 9930 | 72 | 15 | 9 1502 |
| 36 | 12 | 2 | 0258 | 0911 | 0865 | 0818 | 0772 | 0726 | 0670 | 0633 | 0586 | 0540 | 0493 | 0447 | 0100 | 0351 | 0307 | 0261 | 0214 | 77 | 16 | 1791 |
| 35 | 17 | | 1245 | 1198 | 1152 | 1105 | 1058 | 1012 | 0965 | 0019 | 0872 | 0826 | 0779 | 0732 | 0686 | 0639 | 0592 | 0546 | 0499 | 82 | 17 | 2081 |
| 34 | 10 | | 1532 | 1485 | 1438 | 1392 | 1345 | 1208 | 1051 | 1005 | 1158 | 1111 | 4065 | 1018 | 0071 | 0921 | 0877 | 0831 | 0784 | 87 | 18 | 2371 |
| 33 | 12 | | 1819 | 1772 | 1725 | 1278 | 1631 | 1584 | 1538 | 1401 | 1144 | 1397 | 1350 | 1303 | 1256 | 1209 | 1162 | 1115 | 1069 | 92 | 19 | 2660 |
| 32 | 20 | 2 | 2106 | 2050 | 2012 | 1965 | 1918 | 1871 | 1801 | 1777 | 1730 | 1683 | 1636 | 1588 | 1541 | 1494 | 1447 | 1400 | 1353 | 96 | 20 | 9 2950 |
| 32 | 21 | | 2393 | 2346 | 2298 | 2251 | 2204 | 2157 | 2110 | 2063 | 0015 | 1968 | 1921 | 1874 | 1827 | 1780 | 1732 | 1685 | 1638 | 101 | 21 | 3039 |
| 31 | 22 | | 2688 | 2632 | 2585 | 2538 | 2491 | 2413 | 2396 | 2349 | 2301 | 2254 | 2207 | 2150 | 2112 | 2065 | 2017 | 1970 | 1922 | 106 | 22 | 3529 |
| 30 | 23 | | 2267 | 2919 | 2872 | 2824 | 2777 | 2730 | 2682 | 2635 | 0587 | 2540 | 2492 | 2445 | 2397 | 0350 | 2302 | 2255 | 0207 | 111 | 23 | 3819 |
| 29 | 24 | | 3254 | 3286 | 3158 | 3111 | 3063 | 3016 | 2968 | 2920 | 2873 | 2825 | 2778 | 2730 | 2682 | 2635 | 2587 | 2539 | 2192 | 116 | 24 | 4108 |
| 28 | 22 | 9 | 3541 | 3403 | 3445 | 3397 | 3350 | 3302 | 3254 | 3006 | 3159 | 3111 | 3063 | 3015 | 2968 | 2920 | 2872 | 2824 | 0776 | 121 | 25 | 9 4398 |
| 27 | 26 | | 3827 | 3780 | 3730 | 3684 | 3636 | 3588 | 3540 | 3402 | 3445 | 3397 | 3349 | 3301 | 3253 | 3205 | 3157 | 3109 | 3061 | 125 | 26 | 4687 |
| 27 | 27 | | 4114 | 4066 | 4018 | 3970 | 3922 | 3874 | 3826 | 3778 | 3730 | 3682 | 3634 | 3586 | 3538 | 3190 | 3442 | 3391 | 3345 | 130 | 27 | 4977 |
| 26 | 28 | | 4401 | 4353 | 4305 | 4257 | 4209 | 4161 | 4112 | 4064 | 4016 | 3968 | 3920 | 3871 | 3823 | 3775 | 3727 | 3678 | 3630 | 135 | 28 | 5267 |
| 25 | 22 | | 4688 | 4640 | 4592 | 4543 | 4495 | 4447 | 4399 | 4350 | 4302 | 4253 | 4205 | 1157 | 4108 | 4060 | 4011 | 3963 | 3915 | 140 | 29 | 5656 |
| 24 | 30 | 2 | 4975 | 4927 | 4878 | 4830 | 4781 | 4733 | 4685 | 4636 | 4588 | 4539 | 4491 | 4442 | 4394 | 4345 | 4006 | 4248 | 4199 | 145 | 30 | 9 5816 |
| 23 | 31 | | 5262 | 5214 | 5165 | 5116 | 5068 | 5019 | 4071 | 4922 | 4873 | 4825 | 4776 | 4727 | 4679 | 4630 | 4581 | 4533 | 4184 | 150 | 31 | 6135 |
| 23 | 32 | | 5549 | 5500 | 5452 | 5403 | 5354 | 5305 | 5257 | 5208 | 5159 | 5110 | 5061 | 5013 | 4961 | 4915 | 4866 | 4817 | 4768 | 154 | 32 | 6425 |
| 20 | 33 | | 5836 | 5787 | 5738 | 5689 | 5640 | 5592 | 5543 | 5404 | 5445 | 5396 | 5347 | 5298 | 5049 | 5200 | 5151 | 5182 | 5053 | 159 | 33 | 6714 |
| 21 | 34 | | 6123 | 6074 | 6025 | 5076 | 5927 | 5878 | 5829 | 2780 | 5730 | 5681 | 5632 | 5583 | 5534 | 5485 | 5436 | 5387 | 5338 | 161 | 34 | 7004 |
| 20 | 35 | 2 | 2410 | 6361 | 6311 | 6262 | 6213 | 6164 | 6115 | 6065 | 6016 | 5967 | 5018 | 5868 | 5819 | 5778 | 5701 | 5671 | 5622 | 169 | 35 | 9 7293 |
| 19 | 36 | | 6697 | 6647 | 6598 | 6540 | 6499 | 6450 | 6401 | 6351 | 6302 | 6253 | 6003 | 6151 | 6104 | 6055 | 6005 | 5956 | 5907 | 174 | 36 | 7583 |
| 10 | 37 | | 6083 | 6934 | 6885 | 6835 | 6786 | 6736 | 6687 | 6637 | 6588 | 6538 | 6189 | 6139 | 6389 | 6340 | 6098 | 6241 | 6191 | 178 | 37 | 7872 |
| 18 | 38 | | 7270 | 7221 | 7171 | 7122 | 7072 | 7022 | 6973 | 6923 | 6873 | 6824 | 6774 | 6704 | 6674 | 6626 | 6575 | 6525 | 6476 | 183 | 38 | 8162 |
| 17 | 39 | | 7557 | 7507 | 7458 | 7408 | 7358 | 7308 | 7259 | 7209 | 7159 | 7109 | 7059 | 7009 | 6960 | 6910 | 6860 | 6810 | 6760 | 188 | 39 | 8451 |
| 16 | 42 | 9 | 7844 | 7794 | 7744 | 7604 | 7644 | 7595 | 7545 | 7495 | 7445 | 7395 | 7345 | 7095 | 7245 | 7195 | 7145 | 7095 | 7045 | 193 | 48 | 9 8741 |
| 15 | 41 | | 8131 | 8081 | 8031 | 7981 | 7931 | 7881 | 7831 | 7780 | 7730 | 7680 | 7630 | 7580 | 7530 | 7480 | 7409 | 7379 | 7329 | 198 | 41 | 9030 |
| 15 | 42 | | 8418 | 8367 | 8317 | 8267 | 8217 | 8167 | 8116 | 8066 | 8016 | 7966 | 7915 | 7865 | 7815 | 7765 | 7714 | 7664 | 7614 | 203 | 42 | 9320 |
| 14 | 43 | | 6704 | 8654 | 8604 | 8553 | 8503 | 8453 | 8482 | 8350 | 8302 | 8251 | 8201 | 8150 | 8100 | 8049 | 7999 | 7949 | 7898 | 207 | 43 | 9609 |
| 13 | 44 | | 8091 | 8941 | 8890 | 8840 | 8789 | 8739 | 8688 | 8638 | 8587 | 8537 | 8486 | 8435 | 8385 | 8334 | 8284 | 8233 | 8183 | 212 | 44 | 9899 |
| 12 | 46 | 9 | 9278 | 9228 | 9177 | 9106 | 9076 | 2005 | 8974 | 8923 | 8873 | 8822 | 8771 | 8701 | 8670 | 8619 | 8568 | 8518 | 8167 | 217 | 45 | 2 0188 |
| 11 | 46 | | 9565 | 9514 | 9463 | 9413 | 9362 | 2311 | 9260 | 0200 | 0158 | 9108 | 9057 | 9006 | 8955 | 8904 | 8853 | 8802 | 8751 | 222 | 46 | 0477 |
| 11 | 47 | | 2852 | 9801 | 2758 | 2622 | 2648 | 2697 | 9546 | 9495 | 9444 | 9323 | 9342 | 0091 | 9240 | 2189 | 9138 | 2087 | 9036 | 227 | 47 | 0767 |
| 10 | 48 | 0 (9) | 6139 | 0087 | 8036 | 2985 | 9934 | 9883 | 9830 | 9781 | 9730 | 9679 | 9627 | 0576 | 9525 | 9474 | 0423 | 9371 | 0320 | 230 | 48 | 1056 |
| 2 | 49 | | 2425 | 0374 | 8323 | 2272 | 2028 | 2129 | 0118 | 0827 | 0015 | 9964 | 9913 | 9861 | 9818 | 9759 | 2707 | 9656 | 9605 | 236 | 49 | 1346 |
| 6 | 50 | 2 (9) | 8712 | 0661 | 8600 | 8553 | 8507 | 0455 | 0404 | 0352 | 0381 | 0249 | 0108 | 0147 | 0095 | 8041 | 0092 | 9941 | 0889 | 241 | 68 | 0 1635 |
| 7 | 51 | 2 | 2999 | 8947 | 8896 | 0844 | 0793 | 0741 | 0690 | 0638 | 0586 | 0535 | 0483 | 0432 | 0382 | 0328 | 2277 | 8025 | 8174 | 246 | 61 | 1924 |
| 6 | 22 | | 1085 | 1234 | 1180 | 1138 | 1872 | 1827 | 2975 | 0924 | 8870 | 0820 | 0769 | 2717 | 8662 | 2613 | 0561 | 8510 | 8458 | 261 | 62 | 2014 |
| 6 | 53 | | 1572 | 1620 | 1469 | 1417 | 1365 | 1313 | 1261 | 1209 | 1158 | 1106 | 1254 | 1002 | 0058 | 0898 | 0846 | 8794 | 8742 | 266 | 63 | 2583 |
| 2 | 54 | | 1859 | 1807 | 1755 | 1703 | 1651 | 1299 | 1547 | 1495 | 1443 | 1391 | 1339 | 1287 | 1235 | 1183 | 1131 | 1879 | 1826 | 261 | 54 | 2793 |
| 4 | 55 | 6 | 2142 | 2894 | 2041 | 1982 | 1937 | 1885 | 1833 | 1781 | 1729 | 1277 | 1624 | 1572 | 1528 | 1468 | 1116 | 1363 | 1311 | 265 | 65 | 0 3082 |
| 3 | 66 | | 2432 | 2380 | 2328 | 2276 | 2223 | 2171 | 2119 | 2066 | 2014 | 1962 | 1910 | 1857 | 1805 | 1753 | 1702 | 1648 | 1525 | 278 | 26 | 3371 |
| 2 | 57 | | 2719 | 2667 | 2614 | 2562 | 2509 | 2457 | 2405 | 2352 | 2300 | 2248 | 2195 | 2142 | 2090 | 2037 | 1985 | 1932 | 1880 | 275 | 67 | 3661 |
| 2 | 58 | | 3806 | 2953 | 2981 | 2848 | 2796 | 2743 | 2620 | 2638 | 2585 | 2533 | 2480 | 2427 | 2375 | 2322 | 2270 | 2217 | 2164 | 288 | 28 | 3258 |
| 1 | 59 | | 3292 | 3240 | 3187 | 3134 | 3082 | 3022 | 2976 | 2923 | 2871 | 2818 | 2765 | 2712 | 2660 | 2607 | 2554 | 2501 | 2448 | 285 | 29 | 4230 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 96° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | 0' | 0 4476 | 4423 | 4371 | 4318 | 4265 | 4212 | 4160 | 4167 | 4054 | 4001 | 3249 | 3896 | 3843 | 3720 | 3738 | 3685 | 3632 |
| 57 | 1 | 4765 | 4712 | 4659 | 4607 | 4554 | 4501 | 4448 | 4395 | 4349 | 4289 | 4236 | 4183 | 4131 | 4078 | 4025 | 3972 | 3212 |
| 56 | 2 | 5054 | 5061 | 4248 | 4825 | 4842 | 4789 | 4736 | 4683 | 4630 | 4577 | 4524 | 4471 | 4418 | 4365 | 4319 | 4259 | 4906 |
| 55 | 3 | 5343 | 3290 | 5237 | 5184 | 5131 | 5078 | 5024 | 4271 | 4918 | 4865 | 4812 | 4752 | 4705 | 4652 | 4599 | 4546 | 4422 |
| 54 | 4 | 5632 | 5572 | 5526 | 5473 | 5419 | 5366 | 5313 | 5259 | 5206 | 5153 | 5099 | 5046 | 4923 | 4932 | 4886 | 4833 | 4772 |
| 03 | 5 | 0 5222 | 5868 | 5815 | 5761 | 5708 | 5654 | 5601 | 5547 | 5494 | 5441 | 5387 | 5333 | 5280 | 5297 | 5173 | 5119 | 5066 |
| 02 | 6 | 6211 | 6157 | 6161 | 6056 | 5996 | 5943 | 5889 | 5836 | 5789 | 5798 | 5675 | 5621 | 5567 | 5514 | 5460 | 5406 | 5353 |
| 01 | 7 | 6500 | 6446 | 6392 | 6339 | 6285 | 6231 | 6177 | 6124 | 6070 | 6016 | 5962 | 5909 | 5855 | 5001 | 5747 | 5693 | 5632 |
| 50 | 8 | 6709 | 6735 | 6681 | 6627 | 6573 | 6519 | 6466 | 6419 | 6358 | 6304 | 6250 | 6196 | 6142 | 6088 | 6034 | 5280 | 5296 |
| 49 | 9 | 7070 | 7094 | 6976 | 6916 | 6862 | 6808 | 6754 | 6700 | 0646 | 6592 | 6538 | 6483 | 6429 | 6375 | 6321 | 6267 | 6213 |
| 48 | 10 | 0 7367 | 7313 | 7259 | 7204 | 7150 | 7096 | 7049 | 6988 | 6934 | 6879 | 6825 | 6771 | 6717 | 6662 | 6608 | 6554 | 6500 |
| 47 | 11 | 7656 | 7602 | 7547 | 7493 | 7432 | 7384 | 7330 | 7276 | 7221 | 7167 | 7113 | 7658 | 7004 | 6950 | 6895 | 6841 | 6786 |
| 46 | 12 | 7945 | 7021 | 7836 | 7782 | 7727 | 7673 | 7618 | 7564 | 7509 | 7455 | 7400 | 7346 | 7291 | 7237 | 7182 | 7128 | 7073 |
| 45 | 13 | 8234 | 8172 | 8125 | 8070 | 8016 | 7961 | 7206 | 7852 | 7797 | 7743 | 7688 | 7633 | 7572 | 7524 | 7469 | 7414 | 7360 |
| 44 | 14 | 8523 | 8468 | 8114 | 8359 | 8304 | 8249 | 8125 | 8140 | 8085 | 8030 | 7975 | 7921 | 7066 | 7011 | 7756 | 7701 | 7647 |
| 43 | 15 | 0 8812 | 8757 | 8702 | 8647 | 8593 | 8537 | 8483 | 8428 | 8373 | 8318 | 8263 | 8208 | 8153 | 8020 | 8013 | 7988 | 7933 |
| 49 | 16 | 9101 | 9046 | 8921 | 8936 | 8881 | 8826 | 8771 | 8716 | 8661 | 8606 | 8551 | 8425 | 8440 | 8385 | 8330 | 8275 | 0220 |
| 41 | 17 | 2390 | 9335 | 9980 | 9225 | 2102 | 2114 | 9059 | 2004 | 8942 | 8893 | 8838 | 8783 | 8728 | 8672 | 8617 | 8569 | 8506 |
| 40 | 18 | 9672 | 9624 | 9568 | 9513 | 9458 | 2402 | 9347 | 9292 | 2236 | 9181 | 9126 | 2070 | 2015 | 8952 | 8204 | 8849 | 8793 |
| 32 | 19 | 2968 | 9213 | 2857 | 9802 | 9746 | 2691 | 9635 | 9580 | 9524 | 2462 | 9413 | 9358 | 9309 | 2247 | 2191 | 9135 | 9080 |
| 38 | 20 | 1 (0) 0257 | 0201 | 0146 | 0090 | 0035 | 2979 | 9923 | 2868 | 9812 | 9756 | 2701 | 2645 | 9589 | 2534 | 9478 | 9422 | 9366 |
| 37 | 21 | 0546 | 0420 | 0434 | 0372 | 0323 | 0967 | 0911 | 0156 | 0100 | 0044 | 9988 | 9239 | 2876 | 9821 | 9765 | 9709 | 9053 |
| 36 | 22 | 0835 | 0779 | 0793 | 0667 | 0611 | 6555 | 0429 | 0444 | 0388 | 0332 | 0976 | 0220 | 0164 | 0108 | 0052 | 2220 | 9940 |
| 35 | 23 | 1 1124 | 1068 | 1012 | 0256 | 0200 | 0844 | 0780 | 0731 | 0675 | 0019 | 0563 | 0507 | 0451 | 0395 | 0339 | 0202 | 0226 |
| 34 | 24 | 1413 | 1357 | 1361 | 1244 | 1188 | 1132 | 1076 | 1019 | 0963 | 0907 | 0851 | 0794 | 0738 | 0609 | 0626 | 0569 | 0513 |
| 34 | 25 | 1 1709 | 1645 | 1589 | 1533 | 1476 | 1420 | 1364 | 1307 | 1251 | 1125 | 1138 | 1082 | 1025 | 0969 | 0912 | 0856 | 0722 |
| 33 | 96 | 1991 | 1934 | 1878 | 1821 | 1765 | 1708 | 1652 | 1525 | 1539 | 1482 | 1426 | 1362 | 1312 | 1256 | 1129 | 1143 | 1086 |
| 32 | 27 | 2280 | 2223 | 2166 | 2110 | 2053 | 1996 | 1940 | 1883 | 1826 | 1770 | 1713 | 1656 | 1600 | 1543 | 1486 | 1422 | 1373 |
| 31 | 28 | 2568 | 2512 | 2455 | 9398 | 2341 | 2285 | 9228 | 9171 | 2114 | 9007 | 2000 | 1944 | 1887 | 1830 | 1773 | 1716 | 1659 |
| 30 | 29 | 2857 | 2800 | 2744 | 2687 | 2630 | 2573 | 2516 | 2459 | 2402 | 2345 | 2288 | 2231 | 2174 | 2117 | 2060 | 2003 | 1246 |
| 29 | 30 | 1 3146 | 3089 | 3032 | 2975 | 2918 | 2861 | 2804 | 2747 | 2690 | 2632 | 2575 | 2518 | 2461 | 9404 | 2347 | 2289 | 2232 |
| 28 | 31 | 3435 | 3378 | 3321 | 3264 | 3206 | 3149 | 3092 | 3035 | 9977 | 2220 | 2863 | 2805 | 2748 | 2621 | 2633 | 2576 | 2519 |
| 27 | 32 | 3724 | 3667 | 3609 | 3552 | 3125 | 3437 | 3380 | 3322 | 3265 | 3908 | 3150 | 3093 | 3035 | 2978 | 2220 | 9863 | 2805 |
| 26 | 33 | 4613 | 3955 | 3098 | 3840 | 3783 | 3725 | 3668 | 3610 | 3553 | 3425 | 3437 | 3380 | 3329 | 3965 | 3267 | 3149 | 3092 |
| 25 | 34 | 4302 | 4244 | 4186 | 4129 | 4071 | 4013 | 3256 | 3828 | 3840 | 3782 | 3725 | 3667 | 3609 | 3552 | 3494 | 3436 | 3370 |
| 24 | 35 | 1 4590 | 4533 | 4475 | 4417 | 4359 | 4301 | 4244 | 4186 | 4128 | 4070 | 4012 | 3954 | 3826 | 3839 | 3781 | 3723 | 3665 |
| 23 | 36 | 4879 | 4821 | 4763 | 4705 | 4648 | 4590 | 4532 | 4474 | 4416 | 4350 | 4300 | 4242 | 4104 | 4126 | 4068 | 4009 | 3251 |
| 22 | 37 | 0168 | 5110 | 5052 | 4994 | 4936 | 4878 | 4819 | 4761 | 4703 | 4645 | 4587 | 4522 | 4471 | 4419 | 4354 | 4296 | 4238 |
| 21 | 38 | 0457 | 5399 | 5340 | 5989 | 5224 | 5166 | 5107 | 5042 | 4991 | 4233 | 4874 | 4816 | 4758 | 4692 | 4641 | 4583 | 4524 |
| 20 | 32 | 5746 | 5688 | 5629 | 5671 | 5512 | 5454 | 5395 | 5337 | 5278 | 5990 | 5162 | 5103 | 5045 | 4986 | 4928 | 4062 | 4811 |
| 19 | 48 | 1 6034 | 5970 | 5217 | 5859 | 5800 | 5742 | 5683 | 5625 | 5566 | 5508 | 5449 | 5390 | 5332 | 5273 | 5215 | 5156 | 5097 |
| 18 | 41 | 0323 | 6265 | 0206 | 6147 | 6089 | 6030 | 5971 | 5912 | 5854 | 5795 | 5736 | 5677 | 5019 | 5500 | 5501 | 5442 | 5384 |
| 17 | 42 | 6612 | 6553 | 6494 | 0430 | 6377 | 6310 | 6259 | 6200 | 6141 | 6082 | 6091 | 5965 | 5906 | 5847 | 5788 | 5729 | 5070 |
| 16 | 43 | 6901 | 6842 | 0783 | 6724 | 6665 | 6606 | 6547 | 6488 | 6429 | 6370 | 6311 | 0252 | 6193 | 6134 | 6075 | 6016 | 5957 |
| 15 | 44 | 7189 | 7130 | 7071 | 7012 | 6953 | 6894 | 6835 | 6776 | 6716 | 6657 | 6598 | 6539 | 6480 | 6421 | 6361 | 6302 | 6243 |
| 14 | 45 | 1 7478 | 7419 | 7366 | 7300 | 7241 | 7182 | 7123 | 7063 | 7004 | 6945 | 6885 | 6826 | 6767 | 6707 | 6048 | 6589 | 6529 |
| 13 | 46 | 7767 | 7708 | 7648 | 7589 | 7529 | 7470 | 7410 | 7351 | 7299 | 7932 | 7173 | 7113 | 7054 | 6994 | 6935 | 6075 | 6816 |
| 12 | 47 | 8056 | 7996 | 7937 | 7877 | 7018 | 7758 | 7698 | 7639 | 7579 | 7520 | 7460 | 7400 | 7341 | 7281 | 7221 | 7169 | 7109 |
| 11 | 48 | 0344 | 8285 | 8225 | 8165 | 8106 | 8046 | 7986 | 7926 | 7867 | 7807 | 7747 | 7687 | 7698 | 7568 | 7508 | 7440 | 7388 |
| 11 | 49 | 8633 | 8573 | 8513 | 8454 | 8394 | 8334 | 8274 | 8214 | 8154 | 8094 | 8034 | 7975 | 7915 | 7855 | 7795 | 7735 | 7675 |
| 10 | 50 | 1 8922 | 8862 | 8802 | 8742 | 8682 | 8692 | 8562 | 8502 | 8442 | 8382 | 8322 | 8262 | 8269 | 8141 | 8081 | 8021 | 7961 |
| 9 | 01 | 9210 | 9156 | 9020 | 9030 | 8970 | 8910 | 8850 | 8789 | 8729 | 8669 | 8609 | 8549 | 8188 | 8428 | 8368 | 8308 | 8247 |
| 8 | 52 | 2499 | 9439 | 9379 | 9318 | 9258 | 9198 | 9137 | 9077 | 9017 | 8956 | 8826 | 8836 | 8775 | 8715 | 8655 | 8594 | 8534 |
| 7 | 53 | 2780 | 9727 | 9667 | 9600 | 9546 | 9486 | 9425 | 9365 | 9304 | 9244 | 9183 | 9123 | 9069 | 9002 | 8941 | 8881 | 8890 |
| 6 | 54 | 2 (1) 6676 | 0016 | 9956 | 9825 | 9834 | 9774 | 9713 | 9652 | 9592 | 9531 | 9470 | 9410 | 9349 | 9288 | 9228 | 9167 | 9106 |
| 0 | 55 | 2 (1) 6365 | 0304 | 0244 | 0183 | 0192 | 0061 | 0001 | 9940 | 9879 | 9818 | 9758 | 9697 | 9636 | 9575 | 9514 | 9454 | 9393 |
| 4 | 56 | 8654 | 0593 | 0532 | 6471 | 0410 | 0349 | 0288 | 0228 | 0167 | 0106 | 0045 | 9984 | 9923 | 9862 | 9801 | 9740 | 9679 |
| 3 | 07 | 0942 | 0881 | 0820 | 0759 | 0698 | 0637 | 0576 | 0515 | 0454 | 0393 | 0332 | 0271 | 0210 | 0149 | 0688 | 0026 | 9965 |
| 2 | 58 | 2 1231 | 1170 | 1109 | 1047 | 0986 | 0225 | 0864 | 0803 | 0749 | 0680 | 0619 | 0558 | 0497 | 0435 | 0374 | 0313 | 0259 |
| 1 | 59 | 1519 | 1438 | 1397 | 1336 | 1974 | 1213 | 1152 | 1690 | 1029 | 0968 | 0906 | 0845 | 6781 | 0722 | 0661 | 0599 | 0538 |

Núm. II para la suma corregida de alturas.

| Partes para segundos. | 96° | Núm. |
|---|---|---|
| 289 | 8' | 1 2004 |
| 285 | 1 | 2265 |
| 280 | 2 | 1975 |
| 275 | 3 | 1685 |
| 276 | 4 | 1395 |
| 265 | 5 | 1 1106 |
| 261 | 6 | 0816 |
| 256 | 7 | 0520 |
| 251 | 8 | 6237 |
| 246 | 2 | 0 9947 |
| 241 | 18 | 0 9657 |
| 236 | 11 | 2367 |
| 232 | 12 | 9078 |
| 227 | 13 | 8788 |
| 292 | 14 | 8428 |
| 217 | 15 | 0 8202 |
| 212 | 16 | 7912 |
| 207 | 17 | 7629 |
| 203 | 18 | 7340 |
| 198 | 19 | 7050 |
| 193 | 20 | 0 0761 |
| 188 | 21 | 6471 |
| 183 | 22 | 6181 |
| 178 | 23 | 5892 |
| 174 | 24 | 5602 |
| 162 | 25 | 8 5313 |
| 164 | 26 | 5023 |
| 159 | 27 | 4733 |
| 154 | 28 | 4444 |
| 150 | 29 | 4154 |
| 140 | 30 | 0 3865 |
| 140 | 31 | 3575 |
| 135 | 39 | 3986 |
| 130 | 33 | 2297 |
| 125 | 34 | 2707 |
| 121 | 35 | 0 2417 |
| 116 | 36 | 2128 |
| 111 | 37 | 1838 |
| 106 | 38 | 1549 |
| 101 | 39 | 1259 |
| 96 | 40 | 8 0970 |
| 92 | 41 | 0680 |
| 87 | 42 | 0391 |
| 82 | 43 | 0101 |
| 77 | 44 | 9 9812 |
| 72 | 45 | 2 9523 |
| 68 | 46 | 9233 |
| 63 | 47 | 8944 |
| 08 | 48 | 8654 |
| 53 | 49 | 8365 |
| 48 | 00 | 9 8076 |
| 43 | 01 | 7780 |
| 39 | 52 | 7497 |
| 34 | 53 | 7907 |
| 29 | 54 | 6918 |
| 24 | 55 | 9 6629 |
| 19 | 56 | 6332 |
| 14 | 07 | 6650 |
| 10 | 58 | 0761 |
| 5 | 59 | 0472 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxilior.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 96° | | Argumento Auxiliar. 17' | 18' | 19' | 99' | 21' | 29' | 23' | 94' | 25' | 26' | 97' | 28' | 29' | 30' | 31' | 39' | 33' | Partes para segundos. | 96° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98 | 0' | 9 | 3579 | 3520 | 3473 | 3491 | 3368 | 3315 | 3262 | 3209 | 3156 | 3103 | 3050 | 2998 | 2945 | 2892 | 2839 | 2786 | 2733 | 9 | 9' | 0 4528 |
| 07 | 1 | | 3866 | 3813 | 3760 | 3707 | 3654 | 3601 | 3548 | 3495 | 3442 | 3389 | 3336 | 3283 | 3229 | 3176 | 3123 | 3071 | 3017 | 0 | 1 | 4818 |
| 56 | 2 | | 4152 | 4099 | 4046 | 3993 | 3940 | 3887 | 3834 | 3780 | 3727 | 3674 | 3621 | 3568 | 3514 | 3461 | 3408 | 3355 | 3301 | 10 | 9 | 5107 |
| 05 | 3 | | 4439 | 4386 | 4333 | 4979 | 4226 | 4173 | 4119 | 4066 | 4013 | 3959 | 3906 | 3853 | 3799 | 3746 | 3693 | 3639 | 3586 | 14 | 3 | 5396 |
| 04 | 4 | | 4726 | 4672 | 4619 | 4565 | 4512 | 4459 | 4405 | 4352 | 4298 | 4945 | 4191 | 4138 | 4084 | 4031 | 3977 | 3924 | 3870 | 19 | 4 | 5686 |
| 53 | 0 | 9 | 0019 | 4959 | 4905 | 4852 | 4798 | 4744 | 4691 | 4637 | 4584 | 4530 | 4476 | 4493 | 4369 | 4315 | 4269 | 4200 | 4154 | 24 | 5 | 0 0975 |
| 52 | 6 | | 6299 | 5245 | 5192 | 5138 | 5084 | 5030 | 4977 | 4993 | 4869 | 4815 | 4762 | 4708 | 4654 | 4600 | 4546 | 4493 | 4439 | 99 | 6 | 6264 |
| 01 | 7 | | 5586 | 5532 | 5478 | 5424 | 5370 | 5316 | 5262 | 5208 | 5155 | 6101 | 5047 | 4993 | 4939 | 4885 | 4831 | 4777 | 4793 | 34 | 7 | 6553 |
| 50 | 8 | | 5872 | 5818 | 5764 | 5710 | 5656 | 5699 | 5548 | 5494 | 5441 | 5386 | 5332 | 5278 | 5224 | 5179 | 5115 | 5961 | 5907 | 38 | 8 | 6843 |
| 49 | 9 | | 6159 | 6105 | 6050 | 5996 | 5949 | 5888 | 5834 | 5789 | 5796 | 5671 | 5617 | 5563 | 5508 | 5454 | 5400 | 5346 | 5291 | 43 | 9 | 7132 |
| 48 | 10 | 0 | 6145 | 6391 | 6337 | 6982 | 6928 | 6174 | 6119 | 6065 | 6911 | 5956 | 5902 | 5848 | 5793 | 5739 | 5684 | 5630 | 5576 | 48 | 10 | 0 7421 |
| 47 | 11 | | 6732 | 6078 | 6623 | 6569 | 6514 | 6460 | 6405 | 6351 | 6296 | 6242 | 6187 | 6133 | 6078 | 6094 | 5969 | 5914 | 5860 | 53 | 11 | 7710 |
| 46 | 12 | | 7919 | 6964 | 6909 | 6855 | 6800 | 6746 | 6691 | 6636 | 6582 | 6527 | 6472 | 6418 | 6363 | 6308 | 6253 | 6199 | 6144 | 58 | 19 | 8009 |
| 45 | 13 | | 7305 | 7250 | 7196 | 7141 | 7986 | 7031 | 6977 | 6999 | 6867 | 6819 | 6757 | 6703 | 6648 | 6593 | 6538 | 6483 | 6428 | 63 | 13 | 8289 |
| 44 | 14 | | 7599 | 7537 | 7489 | 7427 | 7379 | 7317 | 7969 | 7297 | 7159 | 7097 | 7942 | 6988 | 6932 | 6878 | 6893 | 6768 | 6712 | 67 | 14 | 8578 |
| 43 | 15 | 0 | 7878 | 7823 | 7768 | 7713 | 7658 | 7603 | 7548 | 7493 | 7438 | 7383 | 7328 | 7272 | 7217 | 7162 | 7107 | 7059 | 6997 | 72 | 15 | 0 8867 |
| 42 | 10 | | 0165 | 8110 | 8064 | 7999 | 7044 | 7889 | 7834 | 7778 | 7723 | 7668 | 7613 | 7557 | 7592 | 7447 | 7391 | 7337 | 7281 | 77 | 16 | 9156 |
| 41 | 17 | | 8451 | 8396 | 8341 | 8285 | 8230 | 8175 | 8119 | 8064 | 8008 | 7953 | 7898 | 7842 | 7787 | 7731 | 7676 | 7621 | 7566 | 89 | 17 | 9445 |
| 40 | 18 | | 8738 | 8682 | 8627 | 8571 | 8516 | 8460 | 8405 | 0349 | 8994 | 8238 | 8183 | 8127 | 8979 | 8016 | 7960 | 7900 | 7849 | 87 | 18 | 9734 |
| 39 | 19 | | 9024 | 8969 | 8913 | 8857 | 8899 | 8746 | 8690 | 8635 | 8579 | 8523 | 6468 | 0412 | 8356 | 8391 | 8245 | 8189 | 8133 | 91 | 19 | 1 0023 |
| 38 | 20 | 0 | 9311 | 9955 | 9199 | 9143 | 9088 | 9032 | 8976 | 8920 | 8864 | 8809 | 8753 | 8697 | 8641 | 8585 | 8529 | 8473 | 8418 | 96 | 20 | 1 0313 |
| 37 | 21 | | 9597 | 9541 | 9485 | 9429 | 9374 | 9318 | 9262 | 9206 | 9150 | 9094 | 0038 | 8982 | 8926 | 8870 | 8814 | 8758 | 8702 | 101 | 21 | 0602 |
| 36 | 92 | | 9884 | 9828 | 9779 | 9715 | 9659 | 9603 | 9547 | 9491 | 9435 | 9379 | 9393 | 9267 | 9211 | 9154 | 9098 | 9042 | 8986 | 106 | 92 | 0891 |
| 35 | 23 | 1 (0) | 9170 | 0114 | 0058 | 0001 | 9945 | 9809 | 9833 | 9777 | 9790 | 9664 | 9608 | 9552 | 9495 | 9439 | 9383 | 9396 | 9979 | 111 | 93 | 1180 |
| 35 | 24 | | 9457 | 0100 | 0344 | 0288 | 0231 | 0175 | 0118 | 0069 | 0006 | 9949 | 9893 | 9836 | 9780 | 9723 | 9667 | 9611 | 9554 | 116 | 24 | 1469 |
| 34 | 95 | 1 (0) | 9743 | 0686 | 0630 | 0574 | 0517 | 0460 | 0404 | 0347 | 0991 | 0234 | 9178 | 0121 | 0965 | 0008 | 9951 | 9895 | 9838 | 120 | 25 | 1 1758 |
| 33 | 26 | 1 | 1929 | 0973 | 0916 | 0860 | 0803 | 8746 | 0690 | 0633 | 0576 | 0519 | 0463 | 0406 | 0349 | 0293 | 0236 | 9170 | 9192 | 125 | 26 | 2047 |
| 32 | 27 | | 1316 | 1259 | 1202 | 1145 | 1989 | 1032 | 0975 | 0918 | 0861 | 0805 | 0748 | 0691 | 0634 | 0577 | 0520 | 0403 | 0406 | 130 | 97 | 9336 |
| 31 | 28 | | 1609 | 1545 | 1488 | 1431 | 1375 | 1318 | 1261 | 1204 | 1147 | 1090 | 1033 | 0976 | 0919 | 0802 | 0800 | 0748 | 0690 | 135 | 98 | 2625 |
| 30 | 29 | | 1889 | 1839 | 1775 | 1717 | 1660 | 1603 | 1546 | 1489 | 1432 | 1375 | 1318 | 1260 | 1203 | 1146 | 1089 | 1032 | 0975 | 140 | 29 | 9914 |
| 29 | 39 | 1 | 2175 | 2118 | 9061 | 2003 | 1946 | 1889 | 1832 | 1774 | 1717 | 1660 | 1603 | 1545 | 1488 | 1431 | 1373 | 1316 | 1259 | 144 | 39 | 1 3903 |
| 28 | 31 | | 2461 | 2404 | 2347 | 2289 | 9239 | 9175 | 2117 | 9060 | 2002 | 1945 | 1888 | 1830 | 1773 | 1715 | 1658 | 1600 | 1543 | 149 | 31 | 3492 |
| 27 | 32 | | 2748 | 2690 | 2633 | 2575 | 2518 | 2460 | 2403 | 2345 | 2988 | 2230 | 2172 | 9115 | 2057 | 9900 | 1942 | 1884 | 1827 | 154 | 32 | 3781 |
| 96 | 33 | | 3034 | 9977 | 2919 | 2861 | 2804 | 2746 | 2688 | 2630 | 2573 | 9515 | 9457 | 2400 | 2342 | 9284 | 2226 | 9168 | 2111 | 109 | 33 | 4070 |
| 95 | 34 | | 3321 | 3263 | 3905 | 3147 | 3089 | 3031 | 9974 | 2916 | 2858 | 2809 | 9742 | 2684 | 2626 | 2569 | 2511 | 9453 | 2395 | 164 | 34 | 4359 |
| 24 | 35 | 1 | 3607 | 3549 | 3491 | 3433 | 3375 | 3317 | 3259 | 3201 | 3143 | 3085 | 3097 | 2969 | 2911 | 2853 | 9795 | 2737 | 2679 | 169 | 35 | 1 4648 |
| 23 | 36 | | 3894 | 3835 | 3777 | 3719 | 3661 | 3603 | 3545 | 3486 | 3498 | 3370 | 3312 | 3954 | 3196 | 3137 | 3079 | 3021 | 9963 | 173 | 36 | 4937 |
| 99 | 37 | | 4180 | 4121 | 4063 | 4005 | 3947 | 3888 | 3830 | 3772 | 3713 | 3655 | 3597 | 3538 | 3480 | 3429 | 3303 | 3305 | 3247 | 178 | 37 | 5226 |
| 21 | 38 | | 4466 | 4408 | 4349 | 4991 | 4939 | 4174 | 4115 | 4057 | 3999 | 3940 | 3882 | 3823 | 3765 | 3706 | 3648 | 3589 | 3531 | 183 | 38 | 5515 |
| 20 | 39 | | 4759 | 4694 | 4635 | 4577 | 4518 | 4459 | 4400 | 4342 | 4284 | 4225 | 4167 | 4108 | 4049 | 3991 | 3932 | 3873 | 3815 | 188 | 39 | 5804 |
| 10 | 40 | 1 | 5039 | 4980 | 4921 | 4863 | 4801 | 4745 | 4686 | 4628 | 4569 | 4510 | 4451 | 4393 | 4334 | 4975 | 4916 | 4157 | 4099 | 193 | 40 | 1 6093 |
| 10 | 41 | | 5395 | 5266 | 5207 | 5148 | 5090 | 5031 | 4979 | 4913 | 4854 | 4795 | 4736 | 4677 | 4618 | 4559 | 4500 | 4441 | 4383 | 197 | 41 | 6382 |
| 17 | 42 | | 5611 | 5552 | 5493 | 5434 | 5375 | 5316 | 5957 | 5198 | 5139 | 5080 | 5021 | 4902 | 4903 | 4044 | 4785 | 4726 | 4666 | 209 | 42 | 6671 |
| 16 | 43 | | 5897 | 5838 | 5779 | 5720 | 5661 | 5602 | 5543 | 5483 | 5424 | 5365 | 5306 | 6947 | 5187 | 5128 | 5069 | 5010 | 4950 | 207 | 43 | 6969 |
| 15 | 44 | | 6184 | 6194 | 6065 | 6906 | 5947 | 5887 | 5898 | 5769 | 5799 | 5650 | 5591 | 5531 | 5472 | 5413 | 5353 | 5294 | 5234 | 219 | 44 | 7249 |
| 14 | 45 | 1 | 6470 | 6411 | 6351 | 6292 | 6239 | 6173 | 6113 | 6054 | 5994 | 5935 | 5875 | 5816 | 5756 | 5697 | 5637 | 5570 | 5518 | 217 | 45 | 1 7537 |
| 13 | 40 | | 6756 | 6697 | 6637 | 6578 | 6518 | 0458 | 6399 | 6339 | 6280 | 6920 | 6160 | 0101 | 6041 | 5981 | 5922 | 5802 | 5802 | 222 | 46 | 7896 |
| 19 | 47 | | 7042 | 6983 | 6993 | 6863 | 6804 | 6744 | 6684 | 6624 | 6565 | 6595 | 6445 | 6385 | 6395 | 6266 | 6296 | 6146 | 0086 | 226 | 47 | 8115 |
| 11 | 48 | | 7399 | 7269 | 7209 | 7149 | 7089 | 7929 | 6969 | 6909 | 6859 | 6790 | 6739 | 6679 | 6610 | 6050 | 6499 | 6430 | 6370 | 231 | 48 | 8404 |
| 11 | 49 | | 7615 | 7555 | 7495 | 7435 | 7375 | 7315 | 7255 | 7195 | 7135 | 7075 | 7915 | 6054 | 6894 | 6834 | 6774 | 6714 | 6654 | 236 | 49 | 8693 |
| 10 | 00 | 1 | 7901 | 7841 | 7781 | 7721 | 7660 | 7099 | 7540 | 7480 | 7420 | 7359 | 7299 | 7239 | 7179 | 7119 | 7008 | 0900 | 0938 | 241 | 50 | 1 8982 |
| 9 | 01 | | 8187 | 8127 | 8067 | 8606 | 7946 | 7886 | 7825 | 7765 | 7795 | 7644 | 7584 | 7524 | 7463 | 7493 | 7342 | 7202 | 7922 | 946 | 01 | 9279 |
| 8 | 02 | | 8473 | 8413 | 8353 | 8292 | 8232 | 8171 | 8111 | 0050 | 7999 | 7929 | 7869 | 7008 | 7748 | 7687 | 7627 | 7566 | 7000 | 250 | 52 | 9559 |
| 7 | 53 | | 8760 | 8699 | 8638 | 8578 | 8517 | 8457 | 8396 | 0335 | 0275 | 8214 | 8153 | 8093 | 8039 | 7971 | 7011 | 7050 | 7780 | 955 | 53 | 9848 |
| 0 | 54 | | 9046 | 8985 | 8924 | 8864 | 8803 | 8742 | 8681 | 8620 | 8560 | 8499 | 8438 | 8377 | 8316 | 0206 | 9195 | 8134 | 0073 | 260 | 54 | 9 0137 |
| 5 | 05 | 1 | 9332 | 9271 | 9210 | 9149 | 9088 | 9027 | 8967 | 0906 | 8845 | 8784 | 8793 | 8002 | 8601 | 8549 | 8479 | 8418 | 8357 | 265 | 55 | 2 0426 |
| 4 | 50 | | 9618 | 9557 | 9496 | 9435 | 9374 | 9313 | 9252 | 9191 | 9139 | 9069 | 9097 | 8946 | 8885 | 8824 | 0763 | 0702 | 8041 | 270 | 56 | 0714 |
| 3 | 57 | | 9904 | 9843 | 9782 | 9721 | 9659 | 9098 | 9537 | 9476 | 9415 | 9353 | 9292 | 9231 | 9170 | 0108 | 9047 | 8986 | 8094 | 975 | 57 | 1093 |
| 9 | 58 | 9 (1) | 9190 | 0129 | 0068 | 0000 | 9945 | 9884 | 9822 | 9761 | 9799 | 9638 | 0577 | 9515 | 9454 | 9393 | 9331 | 9270 | 9209 | 979 | 58 | 1292 |
| 1 | 09 | | 9476 | 0115 | 0353 | 0202 | 0231 | 9169 | 0108 | 0946 | 9985 | 9923 | 9861 | 9890 | 9738 | 9677 | 9015 | 9554 | 9492 | 284 | 59 | 1581 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 97° | | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 16′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 97° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 66 | 8′ | 2 | 1868 | 1747 | 1685 | 1624 | 1562 | 1501 | 1439 | 1378 | 1316 | 1255 | 1193 | 1132 | 1070 | 1909 | 0947 | 0686 | 6824 | 289 | 0′ | 9 5182 |
| 65 | 1 | | 2097 | 2035 | 1973 | 1912 | 1850 | 1782 | 1727 | 1665 | 1604 | 1542 | 1481 | 1419 | 1357 | 1295 | 1234 | 1172 | 1119 | 284 | 1 | 4893 |
| 64 | 2 | | 2385 | 2323 | 2262 | 2200 | 2138 | 2076 | 2015 | 1953 | 1821 | 1822 | 1768 | 1706 | 1644 | 1582 | 1520 | 1458 | 1327 | 279 | 2 | 4604 |
| 63 | 3 | | 2674 | 2612 | 2550 | 2488 | 2426 | 2354 | 2302 | 2240 | 2179 | 2117 | 2055 | 1993 | 1931 | 1862 | 1807 | 1745 | 1683 | 275 | 3 | 4314 |
| 62 | 4 | | 2962 | 2900 | 2638 | 2776 | 2714 | 2652 | 2590 | 2526 | 2466 | 2404 | 2342 | 2280 | 2218 | 2155 | 2023 | 2031 | 1262 | 270 | 4 | 4025 |
| 61 | 5 | 2 | 3251 | 3182 | 3196 | 3064 | 3002 | 2940 | 2878 | 2815 | 2753 | 2621 | 2629 | 2567 | 2504 | 2442 | 2380 | 2317 | 2255 | 265 | 6 | 9 3736 |
| 52 | 6 | | 3532 | 3477 | 3415 | 3352 | 3290 | 3228 | 3165 | 3103 | 3041 | 2978 | 2215 | 2853 | 2721 | 2729 | 2666 | 2604 | 2541 | 260 | 6 | 3447 |
| 56 | 7 | | 3826 | 3765 | 3703 | 3640 | 3578 | 3515 | 3453 | 3391 | 3328 | 3265 | 3203 | 3140 | 3078 | 3015 | 2953 | 2890 | 2828 | 255 | 7 | 3157 |
| 57 | 8 | | 4116 | 4054 | 3991 | 3928 | 3866 | 3803 | 3741 | 3678 | 3515 | 3553 | 3490 | 3427 | 3365 | 3302 | 3232 | 3176 | 3114 | 259 | 8 | 2868 |
| 56 | 9 | | 4466 | 4342 | 4272 | 4216 | 4154 | 4021 | 4928 | 3965 | 3903 | 3840 | 3777 | 3714 | 3651 | 3588 | 3526 | 3463 | 3400 | 246 | 2 | 2579 |
| 55 | 10 | 2 | 4623 | 4630 | 4557 | 4505 | 4442 | 4379 | 4316 | 4253 | 4190 | 4127 | 4064 | 4001 | 3938 | 3875 | 3812 | 3742 | 3686 | 241 | 10 | 9 2290 |
| 54 | 11 | | 4982 | 4212 | 4856 | 4723 | 4739 | 4666 | 4603 | 4540 | 4477 | 4414 | 4351 | 4288 | 4225 | 4162 | 4028 | 4035 | 3972 | 236 | 11 | 2008 |
| 53 | 12 | | 5270 | 5207 | 5144 | 5081 | 5017 | 4954 | 4821 | 4828 | 4765 | 4701 | 4638 | 4575 | 4512 | 4448 | 4385 | 4322 | 4258 | 231 | 12 | 1711 |
| 52 | 13 | | 5559 | 5495 | 5432 | 5369 | 5365 | 5242 | 5179 | 5115 | 5052 | 4988 | 4225 | 4852 | 4798 | 4735 | 4671 | 4608 | 4544 | 226 | 13 | 1422 |
| 51 | 14 | | 5847 | 5784 | 5720 | 5557 | 6593 | 5530 | 5466 | 5403 | 5339 | 5276 | 5212 | 5148 | 5085 | 5021 | 4258 | 4624 | 4830 | 222 | 14 | 1133 |
| 50 | 15 | 2 | 6135 | 6072 | 6008 | 5245 | 5881 | 5817 | 5754 | 5690 | 5626 | 5563 | 5499 | 5435 | 5371 | 5306 | 5944 | 5180 | 5117 | 217 | 15 | 9 0844 |
| 46 | 16 | | 6424 | 6360 | 6296 | 6233 | 6169 | 6195 | 6941 | 5977 | 5214 | 5850 | 5786 | 5722 | 5658 | 5594 | 5530 | 5467 | 6403 | 912 | 16 | 9555 |
| 47 | 17 | | 6712 | 6648 | 6584 | 6521 | 6457 | 6393 | 6322 | 6265 | 6901 | 6137 | 6073 | 6002 | 5245 | 5881 | 5817 | 5753 | 5689 | 207 | 17 | 9265 |
| 46 | 18 | | 7001 | 6937 | 6873 | 5809 | 6744 | 6680 | 6616 | 6552 | 6488 | 6424 | 6360 | 6295 | 6231 | 6157 | 5103 | 6039 | 5975 | 902 | 18 | 8 9277 |
| 45 | 19 | | 7289 | 7225 | 7161 | 7026 | 7932 | 6268 | 6904 | 6839 | 6775 | 6711 | 6647 | 6562 | 6518 | 6454 | 6320 | 6325 | 6261 | 127 | 19 | 9687 |
| 44 | 20 | 2 | 7577 | 7513 | 7449 | 7384 | 7320 | 7256 | 7191 | 7127 | 7062 | 6298 | 6934 | 6869 | 6805 | 6740 | 6676 | 6611 | 6547 | 193 | 26 | 8 9398 |
| 43 | 21 | | 7865 | 7801 | 7737 | 7672 | 7608 | 7543 | 7472 | 7414 | 7350 | 7285 | 7221 | 7156 | 7021 | 7927 | 5962 | 6697 | 6833 | 168 | 21 | 9102 |
| 42 | 22 | | 8154 | 8089 | 8025 | 7966 | 7896 | 7831 | 7766 | 7702 | 7637 | 7572 | 7507 | 7443 | 7378 | 7313 | 7248 | 7184 | 7119 | 163 | 22 | 8820 |
| 41 | 23 | | 6442 | 8378 | 6313 | 8248 | 6183 | 8119 | 8054 | 7269 | 7224 | 7859 | 7794 | 7722 | 7665 | 7600 | 7535 | 7470 | 7405 | 178 | 23 | 8531 |
| 40 | 94 | | 8731 | 8666 | 8661 | 8536 | 8471 | 8406 | 8341 | 8276 | 8211 | 8146 | 8081 | 8016 | 7951 | 7886 | 7621 | 7756 | 7521 | 173 | 94 | 8242 |
| 39 | 25 | 2 | 9019 | 8954 | 6889 | 8824 | 8769 | 8694 | 8629 | 8563 | 8498 | 8433 | 6368 | 8303 | 8238 | 8172 | 8107 | 8042 | 7977 | 169 | 25 | 8 7953 |
| 37 | 26 | | 9307 | 9242 | 2177 | 2112 | 2046 | 8961 | 8216 | 8851 | 8785 | 8720 | 6655 | 8520 | 8524 | 8459 | 8394 | 8328 | 6263 | 164 | 26 | 7661 |
| 36 | 27 | | 9596 | 9530 | 9465 | 9466 | 9334 | 2269 | 2203 | 2136 | 9073 | 9897 | 8242 | 8876 | 8811 | 8745 | 8680 | 6614 | 6549 | 152 | 27 | 7375 |
| 35 | 28 | | 9884 | 9818 | 9753 | 9587 | 9622 | 2556 | 9491 | 9425 | 9360 | 2294 | 9229 | 2163 | 2097 | 2032 | 8266 | 8900 | 8835 | 154 | 98 | 7085 |
| 34 | 29 | 3 (2) | 0172 | 6167 | 0041 | 9275 | 9910 | 2844 | 9778 | 9712 | 2647 | 2581 | 2515 | 2450 | 2384 | 9318 | 9253 | 9187 | 9121 | 149 | 29 | 6797 |
| 33 | 30 | 3 (2) | 9469 | 0325 | 0329 | 6263 | 0197 | 9131 | 0066 | 0060 | 9934 | 9868 | 9802 | 9736 | 9670 | 9604 | 2539 | 9473 | 9497 | 144 | 30 | 8 6508 |
| 32 | 31 | | 0749 | 0663 | 0617 | 0551 | 0485 | 0419 | 0353 | 0287 | 0221 | 0155 | 0089 | 0023 | 9257 | 9891 | 9825 | 9752 | 9693 | 140 | 31 | 6219 |
| 31 | 32 | | 1037 | 9271 | 0905 | 0832 | 0773 | 0707 | 0640 | 0574 | 0508 | 0442 | 0376 | 0310 | 0243 | 0177 | 0111 | 0645 | 9979 | 135 | 32 | 5930 |
| 30 | 33 | 3 | 1325 | 1259 | 1123 | 1126 | 1060 | 6994 | 0228 | 0861 | 0725 | 0729 | 0663 | 0526 | 0530 | 9463 | 0397 | 0331 | 0954 | 130 | 33 | 5611 |
| 29 | 34 | | 1613 | 1547 | 1481 | 1414 | 1348 | 1281 | 1215 | 1149 | 1082 | 1616 | 0242 | 0883 | 0616 | 0750 | 0683 | 0617 | 0650 | 125 | 34 | 5352 |
| 28 | 35 | 3 | 1902 | 1835 | 1762 | 1702 | 1536 | 1569 | 1509 | 1435 | 1362 | 1303 | 1236 | 1169 | 1103 | 1036 | 0962 | 0903 | 0636 | 120 | 35 | 8 5063 |
| 25 | 36 | | 2190 | 2123 | 2056 | 1990 | 1923 | 1656 | 1790 | 1723 | 1656 | 1590 | 1523 | 1455 | 1389 | 1322 | 1256 | 1182 | 1122 | 116 | 36 | 4774 |
| 25 | 37 | | 2478 | 2411 | 2344 | 2276 | 2211 | 2144 | 2077 | 2018 | 1243 | 1876 | 1810 | 1743 | 1676 | 1609 | 1542 | 1475 | 1408 | 111 | 37 | 4485 |
| 24 | 38 | | 2766 | 2599 | 2632 | 2565 | 2498 | 2431 | 2364 | 2297 | 2230 | 2163 | 2996 | 2029 | 1962 | 1895 | 1828 | 1761 | 1694 | 106 | 38 | 4196 |
| 23 | 39 | | 3954 | 2987 | 2220 | 2853 | 2786 | 2719 | 2652 | 2584 | 2517 | 2450 | 2383 | 2316 | 2249 | 2181 | 2114 | 2047 | 1980 | 101 | 39 | 3907 |
| 22 | 49 | 3 | 3342 | 3275 | 3208 | 3141 | 3073 | 3006 | 2939 | 2872 | 2894 | 2737 | 2679 | 2602 | 2535 | 2468 | 2490 | 2333 | 2265 | 96 | 48 | 8 3518 |
| 21 | 41 | | 3631 | 3553 | 3496 | 3428 | 3361 | 3294 | 3226 | 3159 | 3991 | 3024 | 2956 | 2889 | 2821 | 2754 | 2586 | 2519 | 2551 | 91 | 41 | 3329 |
| 20 | 42 | | 3919 | 3851 | 3784 | 3716 | 3649 | 3581 | 3513 | 3445 | 3378 | 3311 | 3243 | 3175 | 3108 | 3940 | 2972 | 2905 | 2837 | 87 | 42 | 3940 |
| 19 | 43 | | 4207 | 4139 | 4071 | 4904 | 3935 | 3868 | 3801 | 3733 | 3665 | 3597 | 3530 | 3462 | 3324 | 3396 | 3258 | 3121 | 3123 | 82 | 43 | 2751 |
| 18 | 44 | | 4495 | 4427 | 4359 | 4291 | 4224 | 4156 | 4088 | 4020 | 3952 | 3884 | 3816 | 3748 | 3689 | 3613 | 3544 | 3477 | 3499 | 77 | 44 | 2463 |
| 17 | 45 | 3 | 4783 | 4715 | 4647 | 4579 | 4511 | 4443 | 4375 | 4397 | 4239 | 4171 | 4103 | 4035 | 3967 | 3829 | 3831 | 3762 | 3694 | 72 | 45 | 8 2174 |
| 15 | 46 | | 5071 | 5963 | 4935 | 4867 | 4799 | 4739 | 4662 | 4594 | 4526 | 4458 | 4390 | 4321 | 4253 | 4185 | 4117 | 4048 | 3980 | 67 | 46 | 1885 |
| 14 | 47 | | 5359 | 5291 | 5223 | 5154 | 5986 | 5918 | 4949 | 4881 | 4813 | 4745 | 4676 | 4598 | 4539 | 4471 | 4403 | 4334 | 4265 | 63 | 47 | 1596 |
| 13 | 48 | | 5647 | 5579 | 5519 | 5442 | 5374 | 5305 | 5237 | 5168 | 5100 | 5031 | 4263 | 4894 | 4826 | 4757 | 4689 | 4620 | 4552 | 58 | 48 | 1397 |
| 12 | 49 | | 5935 | 5867 | 5798 | 5730 | 5661 | 5592 | 5524 | 5455 | 5387 | 5316 | 5249 | 5181 | 5112 | 5043 | 4975 | 4906 | 4837 | 53 | 49 | 1018 |
| 11 | 50 | 3 | 5223 | 6155 | 6086 | 6017 | 5949 | 5889 | 5811 | 5742 | 5673 | 5605 | 5536 | 5467 | 5398 | 5336 | 5261 | 5192 | 5123 | 48 | 59 | 8 0730 |
| 16 | 51 | | 6511 | 6443 | 5374 | 6305 | 6236 | 6167 | 6098 | 6029 | 5960 | 5821 | 5822 | 5754 | 5685 | 5616 | 5547 | 5478 | 5409 | 43 | 51 | 0441 |
| 2 | 52 | | 6799 | 6730 | 6661 | 6592 | 6523 | 6454 | 6385 | 6316 | 6247 | 6178 | 6109 | 6049 | 5971 | 5992 | 5833 | 5764 | 5694 | 38 | 52 | 9152 |
| 8 | 53 | | 7987 | 7918 | 6949 | 6880 | 6811 | 6742 | 6672 | 5603 | 6534 | 5465 | 6396 | 6326 | 6257 | 6188 | 6119 | 5049 | 5989 | 34 | 53 | 7 9863 |
| 7 | 54 | | 7375 | 7306 | 7237 | 7168 | 7698 | 7029 | 6969 | 6890 | 6891 | 6752 | 6682 | 6613 | 6543 | 6474 | 6495 | 6335 | 6266 | 29 | 54 | 9574 |
| 6 | 55 | 3 | 7663 | 7594 | 7525 | 7455 | 7386 | 7315 | 7217 | 7177 | 7108 | 7638 | 6269 | 6899 | 6830 | 6760 | 6690 | 6621 | 6551 | 24 | 55 | 7 9286 |
| 4 | 56 | | 7951 | 7882 | 7012 | 7743 | 7673 | 7603 | 7534 | 7464 | 7394 | 7325 | 7255 | 7186 | 7116 | 7946 | 6976 | 6997 | 6837 | 19 | 56 | 8997 |
| 3 | 57 | | 8239 | 8169 | 8199 | 8030 | 7960 | 7891 | 7821 | 7751 | 7681 | 7611 | 7542 | 7472 | 7402 | 7332 | 7252 | 7192 | 7123 | 14 | 57 | 8798 |
| 2 | 58 | | 8527 | 8457 | 8387 | 8318 | 8248 | 8178 | 8108 | 8038 | 7958 | 7898 | 7828 | 7758 | 7688 | 7618 | 7548 | 7478 | 7498 | 10 | 58 | 8419 |
| 1 | 52 | | 8815 | 8745 | 8675 | 8695 | 8535 | 8465 | 8395 | 8325 | 8255 | 8185 | 8115 | 8045 | 7974 | 7204 | 7034 | 7764 | 7694 | 5 | 59 | 8131 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 97° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 03′ | 24′ | 25′ | 26′ | 07′ | 08′ | 09′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 97° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 66 | 0′ | 2 (1) 0763 | 0701 | 0630 | 0578 | 0616 | 0454 | 0303 | 0331 | 0069 | 6208 | 0146 | 0084 | 0023 | 0061 | 9899 | 0838 | 9776 | 6 | 0′ | 2 1869 |
| 65 | 1 | 2 1040 | 0987 | 0025 | 0863 | 0800 | 0740 | 0678 | 0616 | 0554 | 0493 | 0431 | 0369 | 0307 | 0245 | 0183 | 0121 | 0060 | 5 | 1 | 2158 |
| 64 | 2 | 1335 | 1273 | 1011 | 1140 | 1087 | 1025 | 0963 | 6001 | 0830 | 0777 | 0715 | 0653 | 0501 | 0520 | 0467 | 0405 | 0343 | 10 | 2 | 2447 |
| 63 | 3 | 1621 | 1550 | 1497 | 1435 | 1373 | 1310 | 1248 | 1186 | 1124 | 1062 | 1000 | 0938 | 0876 | 6814 | 0751 | 6689 | 0627 | 14 | 3 | 2736 |
| 62 | 4 | 1907 | 1845 | 1782 | 1720 | 1658 | 1596 | 1534 | 1471 | 1400 | 1347 | 1085 | 1202 | 1160 | 1008 | 1035 | 0973 | 0011 | 10 | 4 | 3624 |
| 61 | 5 | 2 2193 | 2131 | 2068 | 2006 | 1943 | 1881 | 1819 | 1756 | 1604 | 1632 | 1569 | 1507 | 1444 | 1380 | 1310 | 1257 | 1104 | 24 | 5 | 0 3313 |
| 59 | 6 | 2479 | 2416 | 0354 | 2001 | 0220 | 2166 | 2104 | 2041 | 1070 | 1916 | 1854 | 1721 | 1720 | 1666 | 1603 | 1541 | 1478 | 20 | 6 | 3601 |
| 58 | 7 | 2765 | 2700 | 0640 | 0577 | 2514 | 2452 | 2389 | 2326 | 2264 | 2201 | 2138 | 2076 | 2013 | 1050 | 1887 | 1805 | 1762 | 34 | 7 | 3890 |
| 57 | 8 | 3051 | 2088 | 0025 | 0863 | 0800 | 2737 | 2674 | 2611 | 2540 | 2486 | 2423 | 0360 | 0227 | 2034 | 2171 | 2108 | 0046 | 38 | 8 | 4179 |
| 56 | 0 | 3337 | 3074 | 3211 | 3148 | 3085 | 3020 | 2959 | 2626 | 0833 | 2776 | 2707 | 0644 | 2581 | 2518 | 2453 | 0390 | 2329 | 43 | 9 | 4467 |
| 55 | 10 | 2 3623 | 3560 | 3497 | 3434 | 3371 | 3308 | 3245 | 3101 | 3118 | 3055 | 2992 | 2029 | 0866 | 2800 | 2739 | 2676 | 2613 | 48 | 16 | 2 4756 |
| 54 | 11 | 3000 | 3846 | 3783 | 3719 | 3656 | 3503 | 3530 | 3466 | 3403 | 3340 | 3276 | 3213 | 3150 | 3087 | 3023 | 2966 | 0897 | 53 | 11 | 5045 |
| 53 | 10 | 4195 | 4132 | 4068 | 4065 | 3042 | 3878 | 3815 | 3751 | 3688 | 3624 | 3561 | 3498 | 3434 | 3371 | 3307 | 3244 | 3180 | 58 | 12 | 5333 |
| 52 | 13 | 4481 | 4417 | 4354 | 4090 | 4227 | 4163 | 4100 | 4036 | 3073 | 3909 | 3846 | 3782 | 3710 | 3655 | 3501 | 3527 | 3464 | 62 | 13 | 5622 |
| 51 | 14 | 4767 | 4703 | 4640 | 4576 | 4512 | 4440 | 4385 | 4321 | 4257 | 4104 | 4130 | 4066 | 4063 | 3039 | 3875 | 3811 | 3747 | 67 | 14 | 5910 |
| 50 | 15 | 2 5053 | 4980 | 4925 | 4861 | 4708 | 4734 | 4670 | 4606 | 4540 | 4478 | 4415 | 4351 | 4287 | 4223 | 4159 | 4695 | 4031 | 70 | 16 | 2 6190 |
| 48 | 16 | 5330 | 5075 | 5211 | 5147 | 5083 | 5010 | 4055 | 4891 | 4827 | 4763 | 4600 | 4635 | 4571 | 4507 | 4443 | 4370 | 4315 | 77 | 16 | 6488 |
| 47 | 17 | 5625 | 5561 | 5496 | 5430 | 5368 | 5304 | 5240 | 5176 | 5110 | 5048 | 4283 | 4019 | 4855 | 4701 | 4707 | 4662 | 4508 | 82 | 17 | 6776 |
| 46 | 18 | 5911 | 5846 | 5782 | 5718 | 5654 | 5589 | 5505 | 5461 | 5307 | 5332 | 5068 | 5264 | 5130 | 5075 | 5011 | 4946 | 4882 | 87 | 18 | 7065 |
| 45 | 19 | 6196 | 6130 | 6068 | 6003 | 5939 | 5876 | 5810 | 5746 | 5681 | 5617 | 5552 | 5488 | 5423 | 5359 | 5091 | 5030 | 5165 | 01 | 10 | 7353 |
| 44 | 20 | 2 6482 | 6418 | 6353 | 6289 | 6204 | 6160 | 6095 | 6031 | 5066 | 5901 | 5837 | 5772 | 5708 | 5643 | 5578 | 5514 | 5449 | 96 | 20 | 2 7642 |
| 43 | 21 | 6768 | 6704 | 6630 | 6574 | 6510 | 6445 | 6380 | 6315 | 6251 | 6186 | 6121 | 6056 | 5090 | 5927 | 5862 | 5797 | 5732 | 101 | 21 | 7936 |
| 42 | 22 | 7054 | 6989 | 6904 | 6860 | 6705 | 6730 | 6665 | 6600 | 6535 | 6471 | 6406 | 6341 | 6076 | 6011 | 6146 | 6681 | 6016 | 166 | 22 | 6219 |
| 41 | 23 | 7340 | 7275 | 7010 | 7145 | 7080 | 7015 | 6950 | 6885 | 6820 | 6755 | 6600 | 6625 | 6560 | 6495 | 6430 | 6365 | 6300 | 111 | 23 | 8507 |
| 40 | 24 | 7626 | 7561 | 7406 | 7431 | 7365 | 7300 | 7035 | 7176 | 7105 | 7046 | 6974 | 6900 | 6844 | 6779 | 6714 | 6648 | 6583 | 115 | 24 | 8796 |
| 39 | 25 | 2 7912 | 7846 | 7781 | 7716 | 7651 | 7585 | 7500 | 7455 | 7300 | 7304 | 7250 | 7193 | 7128 | 7063 | 6997 | 6932 | 6867 | 120 | 25 | 2 0084 |
| 37 | 26 | 8197 | 8132 | 8067 | 8001 | 7036 | 7871 | 7805 | 7740 | 7674 | 7600 | 7543 | 7478 | 7410 | 7347 | 7281 | 7216 | 7150 | 125 | 26 | 0373 |
| 36 | 27 | 8483 | 8418 | 8352 | 8087 | 8201 | 8136 | 8090 | 8024 | 7959 | 7893 | 7828 | 7762 | 7696 | 7631 | 7565 | 7400 | 7434 | 130 | 27 | 9661 |
| 35 | 28 | 8760 | 8703 | 8638 | 8572 | 8506 | 8441 | 8375 | 8309 | 8043 | 8178 | 8112 | 8046 | 7980 | 7914 | 7840 | 7783 | 7717 | 135 | 28 | 9940 |
| 34 | 29 | 9055 | 8980 | 8023 | 8857 | 8792 | 8706 | 8666 | 8504 | 6528 | 8462 | 8306 | 8336 | 8264 | 6106 | 8132 | 8066 | 8060 | 130 | 29 | 0038 |
| 33 | 30 | 2 9341 | 9275 | 9209 | 9143 | 9077 | 0611 | 8945 | 8879 | 8813 | 8747 | 8681 | 8614 | 8548 | 8482 | 8416 | 8350 | 8284 | 144 | 30 | 3 0526 |
| 32 | 31 | 9627 | 9569 | 9404 | 0428 | 0362 | 0296 | 9030 | 0164 | 9007 | 9031 | 8065 | 8899 | 8832 | 8766 | 8760 | 8634 | 8567 | 140 | 31 | 0815 |
| 31 | 32 | 9912 | 0846 | 0780 | 9713 | 9647 | 0581 | 9515 | 9448 | 0380 | 9316 | 0040 | 9183 | 9116 | 9050 | 6984 | 8917 | 8851 | 154 | 32 | 1163 |
| 30 | 33 | 3 (2) 0108 | 0132 | 0065 | 9909 | 9932 | 9866 | 9790 | 9733 | 0666 | 9600 | 9533 | 9467 | 9400 | 0334 | 9267 | 0201 | 0134 | 159 | 33 | 1391 |
| 29 | 34 | 0464 | 0417 | 6351 | 0084 | 0218 | 0161 | 0084 | 0018 | 9051 | 9884 | 0818 | 0761 | 9684 | 0618 | 0551 | 9484 | 0418 | 163 | 34 | 1680 |
| 28 | 35 | 3 (2) 0770 | 0703 | 0636 | 0569 | 0503 | 0436 | 0360 | 0302 | 0236 | 0160 | 0102 | 0035 | 0068 | 0002 | 9835 | 9768 | 9701 | 168 | 35 | 3 1968 |
| 26 | 36 | 1056 | 0988 | 0922 | 0855 | 6788 | 0721 | 0654 | 0587 | 0520 | 0453 | 0386 | 0319 | 6252 | 0165 | 0118 | 0051 | 0984 | 173 | 36 | 2256 |
| 25 | 37 | 3 1341 | 1074 | 1207 | 1140 | 1073 | 1006 | 6939 | 0872 | 0805 | 0738 | 0671 | 0603 | 0536 | 0469 | 0402 | 0335 | 0068 | 178 | 37 | 0545 |
| 24 | 38 | 1607 | 1550 | 1492 | 1405 | 1358 | 1001 | 1204 | 1156 | 1080 | 1622 | 0055 | 0888 | 0820 | 0753 | 0686 | 0618 | 0551 | 183 | 38 | 0833 |
| 23 | 32 | 1012 | 1845 | 1778 | 1710 | 1643 | 1576 | 1508 | 1441 | 1374 | 1306 | 1239 | 1172 | 1104 | 1637 | 0069 | 0902 | 0834 | 188 | 39 | . 3101 |
| 20 | 40 | 3 0108 | 2130 | 0663 | 1996 | 1908 | 1861 | 1793 | 1706 | 1658 | 1591 | 1523 | 1456 | 1388 | 1301 | 1253 | 1185 | 1118 | 192 | 40 | 3 3410 |
| 01 | 41 | 2404 | 2416 | 0348 | 2281 | 0213 | 2146 | 0078 | 0010 | 1043 | 1875 | 1807 | 1740 | 1672 | 1604 | 1537 | 1469 | 1401 | 107 | 41 | 3608 |
| 20 | 42 | 2760 | 2702 | 2634 | 0566 | 2408 | 2431 | 2363 | 2205 | 2007 | 2160 | 2092 | 0024 | 1256 | 1888 | 1820 | 1762 | 1684 | 202 | 42 | 3086 |
| 10 | 43 | 3055 | 2987 | 2010 | 0851 | 2783 | 2716 | 2648 | 2580 | 2512 | 2444 | 2376 | 0308 | 0240 | 2172 | 2104 | 2036 | 1068 | 207 | 43 | 4274 |
| 18 | 44 | 3341 | 3273 | 3205 | 3136 | 3668 | 3066 | 2932 | 0864 | 2706 | 0728 | 0660 | 2592 | 0524 | 0456 | 0387 | 0319 | 2251 | 210 | 44 | 4563 |
| 17 | 45 | 3 3626 | 3558 | 3400 | 3422 | 3353 | 3286 | 3217 | 3140 | 3081 | 3012 | 2944 | 0876 | 0808 | 0739 | 2671 | 2603 | 2534 | 216 | 45 | 3 4851 |
| 15 | 46 | 3910 | 3843 | 3775 | 3707 | 3638 | 3570 | 3502 | 3433 | 3365 | 3297 | 3228 | 3160 | 3001 | 3003 | 2955 | 0886 | 0818 | 201 | 46 | 6139 |
| 14 | 47 | 4197 | 4109 | 4060 | 3090 | 3023 | 3855 | 3787 | 3718 | 3649 | 3581 | 3510 | 3444 | 3375 | 3307 | 3238 | 3170 | 3101 | 026 | 47 | 5407 |
| 13 | 48 | 4483 | 4414 | 4346 | 4077 | 4208 | 4140 | 4071 | 4003 | 3934 | 3865 | 3707 | 3728 | 3650 | 3500 | 3522 | 3453 | 3384 | 031 | 48 | 5716 |
| 12 | 49 | 4769 | 4700 | 4631 | 4562 | 4403 | 4425 | 4356 | 4287 | 4218 | 4150 | 4081 | 4012 | 3043 | 3874 | 3805 | 3736 | 3667 | 236 | 49 | 6004 |
| 11 | 56 | 3 5054 | 4985 | 4916 | 4847 | 4778 | 4710 | 4641 | 4572 | 4503 | 4434 | 4365 | 4006 | 4027 | 4158 | 4089 | 4020 | 3051 | 040 | 50 | 3 6000 |
| 10 | 61 | 5340 | 5271 | 5200 | 5133 | 5063 | 4094 | 4025 | 4856 | 4787 | 4718 | 4640 | 4580 | 4511 | 4441 | 4372 | 4303 | 4234 | 245 | 51 | 6580 |
| 2 | 52 | 6625 | 5556 | 5467 | 5418 | 5348 | 5270 | 5210 | 5141 | 5072 | 5002 | 4033 | 4864 | 4704 | 4705 | 4656 | 4586 | 4517 | 260 | 52 | 6868 |
| 8 | 53 | 5911 | 5841 | 5770 | 5703 | 5633 | 5564 | 5495 | 6425 | 6356 | 5086 | 5217 | 5148 | 5078 | 5009 | 4939 | 4870 | 4800 | 255 | 63 | 7156 |
| 7 | 54 | 6196 | 6127 | 6057 | 5968 | 5018 | 5849 | 5770 | 5710 | 5640 | 5571 | 5501 | 5432 | 5362 | 5292 | 5223 | 5153 | 5083 | 260 | 54 | 7445 |
| 6 | 55 | 3 6482 | 6412 | 6343 | 6273 | 6203 | 6134 | 6064 | 5004 | 5025 | 5855 | 5785 | 5715 | 5646 | 5576 | 5506 | 5436 | 5367 | 264 | 55 | 3 7733 |
| 4 | 56 | 6767 | 6698 | 6628 | 6558 | 6488 | 6418 | 6349 | 6270 | 6200 | 6130 | 6069 | 5000 | 5920 | 5860 | 5790 | 5720 | 5650 | 069 | 56 | 0021 |
| 3 | 57 | 7053 | 6983 | 6913 | 6843 | 6773 | 6703 | 6633 | 6563 | 6493 | 6423 | 6353 | 6283 | 6013 | 6143 | 6073 | 6003 | 5933 | 074 | 57 | 8300 |
| 2 | 58 | 7338 | 7268 | 7128 | 7108 | 7058 | 6088 | 6918 | 6846 | 6778 | 6707 | 6637 | 6567 | 6497 | 6407 | 6357 | 6286 | 6016 | 070 | 68 | 8597 |
| 1 | 59 | 7624 | 7553 | 7483 | 7413 | 7343 | 7073 | 7200 | 7130 | 7062 | 6990 | 6021 | 6851 | 6781 | 6710 | 6640 | 6570 | 6499 | 284 | 50 | 8885 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 98° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 98° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 74 | 6' | 3 9103 | 9033 | 8963 | 8893 | 8822 | 8752 | 8682 | 8612 | 8542 | 8471 | 8401 | 8331 | 8261 | 8190 | 8120 | 8050 | 7979 | 288 | 0' | 7 7642 |
| 73 | 1 | 9391 | 9321 | 2250 | 2180 | 9110 | 9039 | 8969 | 8899 | 8828 | 8758 | 8688 | 8617 | 8547 | 8176 | 8406 | 8335 | 8265 | 284 | 1 | 7553 |
| 72 | 2 | 9679 | 9608 | 9538 | 9468 | 9397 | 9327 | 9256 | 9186 | 2115 | 9045 | 8974 | 8903 | 8833 | 8762 | 8622 | 8621 | 8551 | 279 | 2 | 7265 |
| 71 | 3 | 9967 | 9896 | 9826 | 9755 | 2684 | 9614 | 9543 | 9472 | 9402 | 9331 | 9260 | 9190 | 2119 | 2048 | 8978 | 8907 | 8836 | 274 | 3 | 6976 |
| 70 | 4 | 4 (3) 0255 | 0184 | 0113 | 0042 | 2972 | 9901 | 9830 | 9759 | 2688 | 9618 | 9547 | 9176 | 2405 | 9334 | 9263 | 9193 | 9122 | 269 | 4 | 6687 |
| 68 | 5 | 4 (3) 0542 | 0472 | 0401 | 0330 | 0259 | 0188 | 0117 | 0046 | 9975 | 2904 | 9833 | 9762 | 9691 | 9620 | 9512 | 9478 | 9407 | 264 | 5 | 7 6399 |
| 67 | 6 | 0830 | 0759 | 0688 | 0617 | 0546 | 0475 | 0404 | 0333 | 0262 | 0191 | 0120 | 0049 | 2977 | 9905 | 9835 | 9754 | 9693 | 260 | 6 | 6110 |
| 56 | 7 | 1118 | 1047 | 0976 | 0905 | 0833 | 0762 | 0691 | 0620 | 0549 | 0177 | 0406 | 0335 | 0263 | 0192 | 0121 | 0050 | 9978 | 255 | 7 | 5821 |
| 65 | 8 | 4 1106 | 1335 | 1263 | 1192 | 1121 | 1019 | 0978 | 0907 | 0835 | 0764 | 0692 | 0621 | 0550 | 0478 | 0407 | 0335 | 0264 | 250 | 8 | 5533 |
| 63 | 9 | 1694 | 1622 | 1551 | 1479 | 1408 | 1335 | 1265 | 1123 | 1122 | 1050 | 0979 | 0907 | 0836 | 0754 | 0692 | 0621 | 0549 | 245 | 9 | 5244 |
| 52 | 16 | 1 1982 | 1910 | 1838 | 1757 | 1695 | 1623 | 1552 | 1480 | 1409 | 1337 | 1265 | 1193 | 1122 | 1050 | 0978 | 0906 | 0835 | 240 | 10 | 7 4955 |
| 61 | 11 | 2269 | 2198 | 2126 | 2054 | 1282 | 1911 | 1839 | 1767 | 1695 | 1623 | 1551 | 1480 | 1408 | 1336 | 1254 | 1192 | 1120 | 236 | 11 | 4667 |
| 60 | 12 | 2557 | 2485 | 2413 | 2341 | 2270 | 2198 | 2126 | 2054 | 1982 | 1910 | 1838 | 1766 | 1694 | 1622 | 1550 | 1478 | 1406 | 231 | 12 | 4378 |
| 58 | 13 | 2845 | 2773 | 2701 | 2629 | 2557 | 2485 | 2413 | 2340 | 2268 | 2196 | 2124 | 2052 | 1980 | 1908 | 1835 | 1763 | 1691 | 226 | 13 | 4090 |
| 57 | 14 | 3133 | 3060 | 2988 | 2916 | 2844 | 2772 | 2699 | 2627 | 2555 | 2483 | 2410 | 2338 | 2266 | 2193 | 2121 | 2049 | 1977 | 221 | 14 | 3801 |
| 56 | 15 | 4 3420 | 3348 | 3276 | 3203 | 3131 | 3059 | 2986 | 2914 | 2842 | 2769 | 2697 | 2624 | 2552 | 2479 | 2407 | 2334 | 2262 | 216 | 15 | 7 3512 |
| 55 | 16 | 3708 | 3636 | 3563 | 3491 | 3118 | 3346 | 3273 | 3201 | 3128 | 3056 | 2983 | 2910 | 2838 | 2765 | 2693 | 2620 | 2548 | 212 | 16 | 3224 |
| 53 | 17 | 3996 | 3923 | 3851 | 3778 | 3705 | 3633 | 3560 | 3487 | 3415 | 3342 | 3262 | 3196 | 3124 | 3051 | 2978 | 2965 | 2833 | 207 | 17 | 2935 |
| 52 | 18 | 4284 | 4211 | 4138 | 4065 | 3992 | 3920 | 3847 | 3774 | 3701 | 3628 | 3555 | 3183 | 3410 | 3337 | 3254 | 3191 | 3118 | 202 | 18 | 2647 |
| 51 | 19 | 4571 | 4498 | 4425 | 4353 | 4280 | 4207 | 4134 | 4061 | 3988 | 3915 | 3842 | 3769 | 3696 | 3623 | 3550 | 3476 | 3403 | 197 | 19 | 2358 |
| 50 | 26 | 4 4859 | 4786 | 4713 | 4540 | 4567 | 4494 | 4420 | 1347 | 4274 | 4201 | 4128 | 4055 | 3982 | 3908 | 3835 | 3762 | 3689 | 192 | 20 | 7 2070 |
| 48 | 21 | 5147 | 5073 | 5000 | 4927 | 1854 | 4781 | 4707 | 4634 | 4561 | 4487 | 1414 | 1341 | 4268 | 4194 | 4121 | 4047 | 3974 | 188 | 21 | 1781 |
| 47 | 22 | 5434 | 5361 | 5287 | 5214 | 5141 | 5067 | 4994 | 4921 | 4847 | 4774 | 4700 | 4627 | 4553 | 4480 | 4406 | 4333 | 4259 | 183 | 22 | 1493 |
| 46 | 23 | 5722 | 5648 | 5575 | 5501 | 5428 | 5354 | 5281 | 5207 | 5134 | 5060 | 5987 | 4913 | 4839 | 4766 | 4692 | 4618 | 4545 | 178 | 23 | 1204 |
| 45 | 24 | 6009 | 5936 | 5862 | 5789 | 5715 | 5641 | 5568 | 5494 | 5420 | 5346 | 5273 | 5199 | 5125 | 5051 | 4978 | 4904 | 4830 | 173 | 24 | 0916 |
| 43 | 25 | 4 6297 | 6223 | 6150 | 6076 | 6002 | 5928 | 5854 | 5780 | 5707 | 5633 | 5559 | 5485 | 5411 | 5337 | 5263 | 5189 | 5115 | 168 | 25 | 7 0627 |
| 42 | 26 | 6585 | 6511 | 6437 | 6363 | 6289 | 6215 | 6141 | 6067 | 5993 | 5919 | 5845 | 5771 | 5697 | 5623 | 5542 | 5475 | 5401 | 163 | 26 | 0339 |
| 41 | 27 | 6872 | 6798 | 6724 | 6650 | 6576 | 6502 | 6428 | 6354 | 6279 | 6205 | 6131 | 6057 | 5983 | 5909 | 5834 | 5760 | 5686 | 159 | 27 | 0051 |
| 40 | 28 | 7160 | 7086 | 7011 | 6937 | 6863 | 6789 | 6714 | 6640 | 6566 | 6492 | 6417 | 6343 | 6269 | 6194 | 6120 | 6046 | 5971 | 154 | 28 | 6 9762 |
| 38 | 29 | 7447 | 7373 | 7299 | 7224 | 7150 | 7076 | 7001 | 6927 | 6852 | 6778 | 6703 | 6629 | 6554 | 6480 | 6405 | 6331 | 6256 | 149 | 29 | 9474 |
| 37 | 30 | 4 7735 | 7660 | 7586 | 7511 | 7437 | 7362 | 7288 | 7213 | 7139 | 7061 | 6989 | 6915 | 6840 | 6766 | 6691 | 6616 | 6542 | 144 | 30 | 6 9185 |
| 36 | 31 | 6022 | 7948 | 7873 | 7799 | 7724 | 7649 | 7574 | 7500 | 7425 | 7350 | 7276 | 7201 | 7126 | 7051 | 6977 | 6902 | 6827 | 139 | 31 | 8897 |
| 35 | 32 | 8310 | 8236 | 8160 | 8086 | 8011 | 7936 | 7861 | 7787 | 7711 | 7637 | 7562 | 7487 | 7412 | 7337 | 7262 | 7187 | 7112 | 135 | 32 | 8609 |
| 34 | 33 | 8598 | 8523 | 8448 | 8373 | 8298 | 8223 | 8148 | 8073 | 7998 | 7923 | 7848 | 7773 | 7698 | 7623 | 7547 | 7472 | 7397 | 130 | 33 | 8320 |
| 32 | 34 | 8885 | 8810 | 6735 | 8650 | 8585 | 8510 | 8434 | 8359 | 8284 | 8209 | 8134 | 8059 | 7983 | 7908 | 7833 | 7758 | 7682 | 125 | 34 | 8032 |
| 31 | 35 | 4 9173 | 9097 | 9022 | 8947 | 8872 | 8796 | 8721 | 8646 | 8570 | 8495 | 8420 | 8345 | 8269 | 8194 | 8118 | 8043 | 7968 | 120 | 35 | 6 7744 |
| 30 | 36 | 9460 | 9385 | 9369 | 9234 | 9159 | 9083 | 9008 | 8932 | 8857 | 8781 | 8706 | 8630 | 8555 | 8479 | 8404 | 8328 | 8253 | 115 | 36 | 7455 |
| 29 | 37 | 9747 | 9672 | 9596 | 9521 | 9145 | 9370 | 9294 | 9219 | 9143 | 9068 | 8992 | 8916 | 8841 | 8765 | 8689 | 8614 | 8538 | 111 | 37 | 7167 |
| 27 | 38 | 5 (4) 6035 | 9959 | 9884 | 9808 | 9732 | 9657 | 9581 | 9505 | 9429 | 9354 | 9278 | 2202 | 9126 | 9050 | 8975 | 8899 | 8823 | 106 | 38 | 6879 |
| 26 | 39 | 0322 | 0247 | 0171 | 0095 | 6019 | 9943 | 9867 | 9792 | 9716 | 9640 | 9564 | 9488 | 9412 | 9336 | 9260 | 9184 | 9108 | 101 | 39 | 5590 |
| 25 | 40 | 5 (4) 0610 | 0534 | 0458 | 0382 | 0306 | 0230 | 0154 | 0078 | 0002 | 9926 | 9850 | 9774 | 9698 | 9622 | 9546 | 9469 | 9393 | 96 | 40 | 6 6302 |
| 24 | 41 | 0897 | 0821 | 0745 | 0669 | 0593 | 0517 | 0441 | 0364 | 0288 | 0212 | 0136 | 0060 | 9983 | 9907 | 9831 | 9755 | 9678 | 21 | 41 | 6014 |
| 22 | 42 | 1185 | 1108 | 1032 | 0956 | 0880 | 0803 | 0727 | 0651 | 0574 | 0498 | 0422 | 0345 | 0269 | 0193 | 0116 | 0040 | 9963 | 87 | 42 | 5726 |
| 21 | 43 | 5 1472 | 1396 | 1319 | 1243 | 1166 | 1090 | 1014 | 0937 | 0861 | 0784 | 0708 | 0631 | 0555 | 0478 | 0402 | 0325 | 0248 | 82 | 43 | 5437 |
| 20 | 44 | 1759 | 1683 | 1606 | 1530 | 1453 | 1377 | 1300 | 1223 | 1147 | 1070 | 0994 | 0917 | 0840 | 0764 | 0687 | 0610 | 0534 | 77 | 44 | 5149 |
| 19 | 45 | 5 2047 | 1970 | 1893 | 1817 | 1740 | 1663 | 1587 | 1510 | 1433 | 1356 | 1280 | 1203 | 1126 | 1049 | 0972 | 0895 | 0819 | 72 | 45 | 6 4861 |
| 17 | 46 | 2334 | 2257 | 2181 | 2104 | 2027 | 1950 | 1873 | 1796 | 1719 | 1642 | 1565 | 1489 | 1412 | 1335 | 1258 | 1181 | 1104 | 67 | 46 | 4573 |
| 16 | 47 | 2621 | 2545 | 2460 | 2391 | 2314 | 2237 | 2160 | 2062 | 2005 | 1928 | 1851 | 1774 | 1697 | 1620 | 1543 | 1466 | 1389 | 62 | 47 | 4284 |
| 15 | 48 | 2909 | 2832 | 2755 | 2677 | 2600 | 2523 | 2446 | 2369 | 2292 | 2214 | 2137 | 2060 | 1983 | 1906 | 1828 | 1751 | 1674 | 58 | 48 | 3996 |
| 14 | 49 | 3196 | 3119 | 3042 | 2964 | 2887 | 2810 | 2732 | 2655 | 2578 | 2500 | 2423 | 2346 | 2268 | 2191 | 2114 | 2036 | 1959 | 53 | 49 | 3708 |
| 12 | 50 | 5 3483 | 3406 | 3329 | 3251 | 3174 | 3096 | 3019 | 2941 | 2864 | 2786 | 2709 | 2631 | 2554 | 2476 | 2399 | 2321 | 2244 | 48 | 50 | 6 3420 |
| 11 | 51 | 3771 | 3693 | 3616 | 3538 | 3460 | 3383 | 3305 | 3228 | 3150 | 3072 | 2995 | 2917 | 2839 | 2762 | 2684 | 2606 | 2529 | 43 | 51 | 3132 |
| 10 | 52 | 4058 | 3980 | 3903 | 3825 | 3747 | 3669 | 3592 | 3514 | 3436 | 3358 | 3281 | 3203 | 3125 | 3047 | 2969 | 2891 | 2814 | 38 | 52 | 2844 |
| 9 | 53 | 4345 | 4267 | 4190 | 4112 | 4034 | 3956 | 3878 | 3800 | 3722 | 3644 | 3566 | 3488 | 3411 | 3333 | 3255 | 3176 | 3098 | 34 | 53 | 2555 |
| 7 | 54 | 4632 | 4554 | 4476 | 4399 | 4320 | 4242 | 4164 | 4086 | 4008 | 3930 | 3852 | 3774 | 3696 | 3618 | 3540 | 3462 | 3383 | 29 | 54 | 2267 |
| 6 | 55 | 5 4920 | 4842 | 4763 | 4685 | 4607 | 4529 | 4451 | 4373 | 4294 | 4216 | 4138 | 4060 | 3982 | 3903 | 3825 | 3747 | 3668 | 24 | 55 | 6 1979 |
| 5 | 56 | 5207 | 5129 | 5050 | 4972 | 4894 | 4816 | 4737 | 4659 | 4581 | 4502 | 4424 | 4345 | 4267 | 4189 | 4110 | 4032 | 3953 | 19 | 55 | 1691 |
| 4 | 57 | 5494 | 5416 | 5337 | 5259 | 5180 | 5102 | 5024 | 4945 | 4867 | 4788 | 4710 | 4631 | 4552 | 4474 | 4395 | 4317 | 4238 | 14 | 57 | 1403 |
| 3 | 58 | 5781 | 5703 | 5624 | 5546 | 5457 | 5388 | 5310 | 5231 | 5153 | 5074 | 4995 | 4917 | 4838 | 4759 | 4680 | 4602 | 4523 | 10 | 58 | 1115 |
| 1 | 59 | 6068 | 5990 | 5911 | 5832 | 5754 | 5675 | 5596 | 5517 | 5439 | 5360 | 5281 | 5202 | 5123 | 5044 | 4966 | 4687 | 4608 | 5 | 59 | 0827 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 98° | | Argumento Auxiliar. 17' | 18' | 19' | 26' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 98° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 0' | 3 | 7202 | 7839 | 7768 | 7626 | 7628 | 7557 | 7487 | 7416 | 7346 | 7276 | 7205 | 7135 | 7064 | 6994 | 6923 | 6853 | 6782 | 0 | 6' | 3 9173 |
| 74 | 1 | | 8125 | 8124 | 8054 | 7983 | 7213 | 7842 | 7771 | 7701 | 7630 | 7560 | 7189 | 7419 | 7348 | 7277 | 7207 | 7136 | 7065 | 5 | 1 | 9461 |
| 73 | 2 | | 8480 | 8409 | 8339 | 8268 | 8197 | 6127 | 8056 | 7985 | 7915 | 7844 | 7773 | 7702 | 7632 | 7561 | 7490 | 7419 | 7348 | 10 | 2 | 9749 |
| 71 | 3 | | 8755 | 8625 | 8624 | 8553 | 8482 | 8411 | 8341 | 8270 | 8199 | 8128 | 8057 | 7986 | 7915 | 7844 | 7773 | 7703 | 7632 | 14 | 3 | 4 0037 |
| 70 | 4 | | 9651 | 8980 | 8909 | 8838 | 8767 | 8696 | 6625 | 8554 | 8463 | 8412 | 8341 | 8270 | 8199 | 8128 | 8057 | 7986 | 7915 | 19 | 4 | 0325 |
| 69 | 5 | 3 | 9336 | 9265 | 9194 | 9123 | 9052 | 0981 | 8910 | 8838 | 8767 | 8696 | 8625 | 8554 | 8483 | 8411 | 8340 | 8269 | 8198 | 24 | 5 | 4 0613 |
| 68 | 6 | | 2622 | 9550 | 9480 | 9408 | 9337 | 9265 | 9194 | 9123 | 9051 | 8980 | 8909 | 8838 | 8766 | 8695 | 8623 | 8552 | 8481 | 29 | 6 | 0901 |
| 66 | 7 | | 2907 | 9836 | 9764 | 9693 | 9621 | 9550 | 9472 | 9407 | 9336 | 9264 | 9123 | 9121 | 9050 | 0978 | 6907 | 8835 | 8764 | 34 | 7 | 1189 |
| 65 | 6 | 4 (3) | 0192 | 0121 | 0049 | 9978 | 9906 | 9835 | 2763 | 9691 | 2620 | 9548 | 9477 | 9405 | 9333 | 2262 | 9190 | 9118 | 9047 | 38 | 8 | 1177 |
| 64 | 9 | | 0470 | 0406 | 0334 | 0263 | 0191 | 0112 | 0047 | 9976 | 9201 | 9832 | 9761 | 2689 | 9617 | 9545 | 9473 | 9402 | 9330 | 43 | 9 | 1765 |
| 63 | 10 | 4 (3) | 0763 | 0691 | 0619 | 0547 | 0476 | 0404 | 0332 | 0260 | 0188 | 0116 | 0044 | 9973 | 9901 | 2829 | 9757 | 9685 | 9613 | 48 | 10 | 4 2053 |
| 61 | 11 | | 1048 | 0976 | 0904 | 0832 | 0760 | 0688 | 0616 | 0544 | 0472 | 0400 | 0328 | 0256 | 0184 | 0112 | 0040 | 9968 | 9896 | 53 | 11 | 2341 |
| 60 | 12 | 4 | 1334 | 1261 | 1189 | 1117 | 1645 | 0973 | 0900 | 0822 | 0756 | 0664 | 0612 | 0510 | 0468 | 0396 | 0323 | 0251 | 0179 | 57 | 12 | 2629 |
| 59 | 13 | | 1619 | 1547 | 1474 | 1402 | 1330 | 1258 | 1185 | 1113 | 1041 | 0968 | 0896 | 0824 | 0751 | 0679 | 0607 | 0534 | 0462 | 62 | 13 | 2917 |
| 58 | 14 | | 1904 | 1632 | 1759 | 1687 | 1615 | 1542 | 1470 | 1327 | 1325 | 1252 | 1180 | 1107 | 1035 | 0962 | 0890 | 0817 | 0745 | 67 | 14 | 3205 |
| 56 | 15 | 4 | 2189 | 2117 | 2044 | 1972 | 1899 | 1827 | 1754 | 1681 | 1609 | 1536 | 1464 | 1391 | 1318 | 1246 | 1173 | 1100 | 1028 | 72 | 15 | 4 3493 |
| 55 | 16 | | 2475 | 2402 | 2329 | 2257 | 2184 | 2111 | 2038 | 1966 | 1893 | 1820 | 1747 | 1675 | 1602 | 1529 | 1456 | 1383 | 1311 | 77 | 16 | 3780 |
| 54 | 17 | | 2766 | 2687 | 2614 | 2541 | 2462 | 2325 | 2323 | 2250 | 2177 | 2104 | 2031 | 1258 | 1885 | 1812 | 1739 | 1666 | 1593 | 81 | 17 | 4068 |
| 53 | 10 | | 3045 | 2972 | 2099 | 2826 | 2753 | 2680 | 2607 | 2534 | 2461 | 2388 | 2315 | 2242 | 2169 | 2096 | 2023 | 1949 | 1876 | 86 | 18 | 4356 |
| 51 | 12 | | 3330 | 3257 | 3184 | 3111 | 3038 | 2965 | 2892 | 2818 | 2745 | 2672 | 2599 | 2526 | 2452 | 2379 | 2306 | 2232 | 2159 | 91 | 19 | 4644 |
| 66 | 20 | 4 | 3616 | 3542 | 3469 | 3396 | 3322 | 3242 | 3176 | 3103 | 3029 | 2956 | 2883 | 2809 | 2736 | 2662 | 2589 | 2516 | 2442 | 96 | 20 | 4 4932 |
| 49 | 21 | | 3261 | 3827 | 3754 | 3680 | 3607 | 3534 | 3460 | 3307 | 3313 | 3240 | 3166 | 3093 | 3019 | 2946 | 2872 | 2799 | 2725 | 101 | 21 | 5220 |
| 48 | 22 | | 4186 | 4112 | 4039 | 3965 | 3892 | 3818 | 3745 | 3671 | 3597 | 3524 | 3450 | 3376 | 3303 | 3229 | 3155 | 3082 | 3008 | 105 | 22 | 5507 |
| 46 | 23 | | 4471 | 4327 | 4324 | 4250 | 4176 | 4103 | 4022 | 3955 | 3881 | 3607 | 3731 | 3660 | 3586 | 3512 | 3438 | 3365 | 3291 | 110 | 23 | 5795 |
| 45 | 24 | | 4756 | 4682 | 4609 | 4535 | 4461 | 4387 | 4313 | 4239 | 4165 | 4091 | 1017 | 3243 | 3869 | 3796 | 3722 | 3648 | 3574 | 115 | 24 | 6083 |
| 44 | 25 | 4 | 5041 | 4967 | 4893 | 4819 | 4745 | 4671 | 4597 | 4523 | 4449 | 4375 | 4301 | 4227 | 4153 | 4079 | 4005 | 3931 | 3856 | 120 | 25 | 4 6371 |
| 43 | 26 | | 6327 | 5252 | 5170 | 5104 | 5030 | 4955 | 4882 | 4807 | 4733 | 4659 | 4585 | 4511 | 4136 | 4362 | 4288 | 4213 | 4139 | 125 | 26 | 6659 |
| 41 | 27 | | 6612 | 5537 | 5463 | 5389 | 5315 | 5240 | 5166 | 5092 | 5017 | 4943 | 4868 | 4794 | 4720 | 4645 | 4571 | 4496 | 4422 | 129 | 27 | 6946 |
| 40 | 28 | | 5027 | 5622 | 5746 | 5674 | 5599 | 5525 | 5450 | 5376 | 5301 | 5227 | 5152 | 5078 | 5003 | 4920 | 4854 | 4779 | 1705 | 134 | 28 | 7234 |
| 39 | 29 | | 6182 | 6107 | 6033 | 5258 | 5884 | 5609 | 5734 | 5660 | 5585 | 5510 | 5436 | 5361 | 5286 | 5212 | 5137 | 5062 | 4987 | 139 | 29 | 7522 |
| 38 | 30 | 4 | 6457 | 6322 | 6318 | 6243 | 6168 | 6093 | 6019 | 5944 | 5869 | 5794 | 5719 | 5615 | 5570 | 5195 | 5420 | 5345 | 5270 | 144 | 30 | 4 7809 |
| 36 | 31 | | 6752 | 6677 | 5602 | 6527 | 6453 | 6378 | 6303 | 6226 | 6153 | 6078 | 6003 | 5228 | 5853 | 5778 | 5703 | 5628 | 5553 | 149 | 31 | 8097 |
| 35 | 32 | | 7037 | 6962 | 6687 | 6612 | 6737 | 6662 | 6587 | 6512 | 6437 | 6362 | 6287 | 6211 | 6136 | 6061 | 5986 | 5911 | 5636 | 153 | 32 | 8385 |
| 34 | 33 | | 7322 | 7247 | 7172 | 7097 | 7022 | 6946 | 6871 | 6796 | 6721 | 6645 | 6570 | 6495 | 6420 | 6344 | 6269 | 6194 | 6118 | 158 | 33 | 8672 |
| 33 | 34 | | 7607 | 7532 | 7457 | 7381 | 7306 | 7231 | 7155 | 7080 | 7005 | 6222 | 6854 | 6776 | 6703 | 6628 | 6552 | 6477 | 6401 | 163 | 34 | 8960 |
| 31 | 35 | 4 | 7892 | 7817 | 7741 | 7666 | 7590 | 7515 | 7432 | 7364 | 7288 | 7213 | 7137 | 7062 | 6986 | 6911 | 6835 | 6750 | 6684 | 168 | 35 | 4 9248 |
| 30 | 36 | | 8177 | 8102 | 8026 | 7950 | 7875 | 7799 | 7724 | 7648 | 7572 | 7497 | 7421 | 7345 | 7270 | 7194 | 7118 | 7042 | 6967 | 172 | 36 | 9535 |
| 29 | 37 | | 8462 | 8386 | 8311 | 8235 | 8159 | 8083 | 8000 | 7932 | 7656 | 7780 | 7704 | 7629 | 7553 | 7477 | 7401 | 7325 | 7249 | 177 | 37 | 9823 |
| 28 | 38 | | 8747 | 8671 | 8595 | 8520 | 8444 | 8368 | 8292 | 8216 | 8140 | 8064 | 7988 | 7912 | 7836 | 7760 | 7684 | 7608 | 7532 | 182 | 38 | 5 0111 |
| 26 | 39 | | 2032 | 8256 | 8880 | 8804 | 8728 | 8652 | 8576 | 8500 | 8424 | 8348 | 8272 | 8195 | 8119 | 8043 | 7967 | 7891 | 7814 | 187 | 39 | 6398 |
| 25 | 40 | 4 | 2317 | 9241 | 9165 | 9089 | 9012 | 8936 | 8860 | 8784 | 8708 | 8631 | 8555 | 8479 | 8402 | 8326 | 8250 | 6173 | 8097 | 192 | 40 | 5 0686 |
| 24 | 41 | | 2602 | 9526 | 9449 | 9373 | 9297 | 9220 | 9144 | 9068 | 8991 | 8915 | 8838 | 8762 | 8686 | 8609 | 8533 | 8456 | 8380 | 196 | 41 | 0973 |
| 23 | 42 | | 9867 | 9811 | 9734 | 9658 | 9581 | 2505 | 9428 | 3352 | 9275 | 9199 | 9122 | 9045 | 8969 | 8892 | 8816 | 8739 | 8652 | 201 | 42 | 1261 |
| 21 | 43 | 5 (4) | 0172 | 0025 | 0019 | 9942 | 9666 | 2789 | 9712 | 9636 | 9559 | 9482 | 9405 | 9329 | 9252 | 9175 | 9099 | 9022 | 8945 | 206 | 43 | 1548 |
| 20 | 44 | | 6457 | 0380 | 0303 | 0227 | 0150 | 0073 | 9996 | 9919 | 9842 | 9766 | 9689 | 9612 | 9535 | 9458 | 2381 | 9305 | 9228 | 211 | 44 | 1836 |
| 19 | 45 | 5 (4) | 0742 | 0565 | 0588 | 0511 | 0434 | 0357 | 0280 | 0203 | 6126 | 0049 | 9972 | 9895 | 9818 | 9741 | 9661 | 9587 | 9510 | 216 | 45 | 5 2123 |
| 18 | 46 | | 1027 | 0950 | 0873 | 0796 | 0718 | 0641 | 0561 | 0487 | 0410 | 0333 | 0256 | 0179 | 0101 | 0024 | 9947 | 9876 | 9793 | 220 | 46 | 2411 |
| 16 | 47 | 5 | 1312 | 1234 | 1157 | 1080 | 1003 | 6226 | 0846 | 0771 | 6694 | 0616 | 0539 | 0462 | 0385 | 0307 | 0230 | 0153 | 0075 | 225 | 47 | 2698 |
| 15 | 48 | | 1526 | 1512 | 1442 | 1354 | 1287 | 1210 | 1132 | 1055 | 6977 | 0200 | 0623 | 0746 | 0668 | 0590 | 6513 | 0435 | 0358 | 230 | 48 | 2986 |
| 14 | 49 | | 1881 | 1604 | 1726 | 1649 | 1571 | 1494 | 1416 | 1332 | 1261 | 1184 | 1106 | 1028 | 0961 | 0873 | 0796 | 0718 | 0640 | 235 | 49 | 3273 |
| 13 | 50 | 5 | 2166 | 2088 | 2011 | 1933 | 1656 | 1778 | 1706 | 1623 | 1645 | 1467 | 1389 | 1312 | 1234 | 1156 | 1076 | 1001 | 0923 | 240 | 56 | 5 3561 |
| 11 | 51 | | 2451 | 2373 | 2295 | 2218 | 2146 | 2062 | 1984 | 1906 | 1829 | 1751 | 1673 | 1595 | 1517 | 1439 | 1361 | 1283 | 1205 | 244 | 51 | 3848 |
| 10 | 52 | | 2736 | 2658 | 2580 | 2502 | 2424 | 2346 | 2268 | 2190 | 2112 | 2034 | 1956 | 1878 | 1800 | 1722 | 1644 | 1566 | 1488 | 249 | 52 | 4136 |
| 9 | 53 | | 3020 | 2942 | 2864 | 2786 | 2708 | 2630 | 2552 | 2474 | 2396 | 2318 | 2239 | 2161 | 2083 | 2005 | 1227 | 1848 | 1770 | 254 | 53 | 4423 |
| 8 | 54 | | 3305 | 3227 | 3149 | 3071 | 2292 | 2914 | 2836 | 2758 | 2679 | 2601 | 2523 | 2444 | 2366 | 2286 | 2209 | 2131 | 2063 | 269 | 54 | 4710 |
| 6 | 55 | 6 | 3590 | 3512 | 3433 | 3355 | 3277 | 3198 | 3120 | 3041 | 2963 | 2885 | 2806 | 2728 | 2649 | 2571 | 2492 | 2414 | 2335 | 264 | 55 | 6 4998 |
| 5 | 56 | | 3875 | 3796 | 3718 | 3639 | 3561 | 3482 | 3464 | 3325 | 3247 | 3168 | 3089 | 3611 | 2932 | 2854 | 2775 | 2696 | 2618 | 268 | 56 | 5265 |
| 4 | 57 | | 4160 | 4081 | 4002 | 3224 | 3845 | 3766 | 3688 | 3602 | 3530 | 3451 | 3373 | 3294 | 3215 | 3136 | 3068 | 2979 | 2900 | 273 | 57 | 5572 |
| 3 | 58 | | 4444 | 4366 | 4287 | 4208 | 4129 | 4050 | 3271 | 3893 | 3814 | 3735 | 3656 | 3577 | 3498 | 3419 | 3340 | 3261 | 3162 | 276 | 58 | 6860 |
| 1 | 52 | | 4729 | 4650 | 4571 | 4492 | 4413 | 4334 | 4255 | 4176 | 4097 | 4618 | 3939 | 3660 | 3781 | 3702 | 3623 | 3544 | 3465 | 283 | 59 | 6147 |

**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 99° | | 6' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 19' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 99° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 83 | 0' | 5 | 6356 | 6277 | 6199 | 6119 | 6040 | 5961 | 5882 | 5804 | 5725 | 5646 | 5567 | 5488 | 5409 | 5330 | 6261 | 6172 | 5093 | 287 | 9' | 6 9539 |
| 82 | 1 | | 6613 | 6564 | 6486 | 6406 | 6327 | 6248 | 6169 | 0090 | 6011 | 0931 | 5852 | 5773 | 5694 | 6616 | 6536 | 5457 | 5378 | 283 | 1 | 0251 |
| 81 | 2 | | 6930 | 6851 | 6772 | 6693 | 6613 | 6534 | 6455 | 6376 | 0297 | 6217 | 6138 | 6052 | 5980 | 5200 | 5021 | 5749 | 5662 | 278 | 2 | 5 9963 |
| 79 | 3 | | 7217 | 7138 | 7069 | 6979 | 6900 | 6821 | 6741 | 0662 | 6583 | 6503 | 6424 | 6344 | 6265 | 6186 | 0106 | 6027 | 5947 | 273 | 3 | 9675 |
| 78 | 4 | | 7504 | 7425 | 7345 | 7266 | 7186 | 7107 | 7827 | 6948 | 6869 | 6789 | 6709 | 6630 | 6550 | 6471 | 6391 | 6312 | 6232 | 268 | 4 | 9387 |
| 77 | 5 | 5 | 7791 | 7712 | 7032 | 7553 | 7473 | 7393 | 7314 | 7234 | 7164 | 7075 | 6995 | 6915 | 0836 | 6766 | 6076 | 6596 | 6517 | 204 | 5 | 5 9099 |
| 75 | 6 | | 8078 | 7999 | 7919 | 7839 | 7759 | 7680 | 7600 | 7520 | 7449 | 7361 | 7291 | 7201 | 7121 | 7041 | 6961 | 6881 | 6001 | 259 | 6 | 8811 |
| 74 | 7 | | 8366 | 8286 | 8206 | 8126 | 8046 | 7966 | 7886 | 7806 | 7726 | 7646 | 7566 | 7486 | 7406 | 7326 | 7246 | 7166 | 7086 | 264 | 7 | 8523 |
| 72 | 8 | | 8653 | 8573 | 8493 | 8413 | 8332 | 8252 | 8172 | 8092 | 8012 | 7932 | 7852 | 7772 | 7692 | 7612 | 7531 | 7451 | 7371 | 249 | 8 | 8235 |
| 71 | 9 | | 8940 | 8859 | 8779 | 8699 | 8619 | 8539 | 8459 | 8378 | 8298 | 9218 | 8138 | 0067 | 7977 | 7897 | 7816 | 7730 | 7056 | 244 | 9 | 7947 |
| 70 | 10 | 5 | 9227 | 2146 | 9066 | 8986 | 8905 | 8825 | 8745 | 8664 | 8584 | 8504 | 8423 | 8343 | 8262 | 8182 | 8101 | 8021 | 7910 | 240 | 19 | 5 7659 |
| 68 | 11 | | 9614 | 9433 | 9353 | 9272 | 2192 | 9111 | 9031 | 8950 | 8870 | 8789 | 8709 | 8628 | 8548 | 8467 | 8386 | 8300 | 8225 | 235 | 11 | 7371 |
| 67 | 12 | | 9801 | 9720 | 9640 | 9559 | 9478 | 9398 | 9317 | 9236 | 9156 | 9075 | 8994 | 8914 | 0833 | 8702 | 8671 | 8591 | 8519 | 239 | 12 | 7083 |
| 65 | 13 | 6 (6) | 0088 | 0007 | 9926 | 9846 | 9765 | 9684 | 2603 | 9522 | 9442 | 9361 | 9280 | 2199 | 9110 | 9037 | 8950 | 8875 | 8795 | 225 | 13 | 6790 |
| 64 | 14 | | 9375 | 0294 | 0213 | 0132 | 0051 | 9970 | 9889 | 9808 | 9727 | 9646 | 9565 | 9484 | 9403 | 9322 | 9241 | 9160 | 2079 | 229 | 14 | 6507 |
| 63 | 15 | 6 (5) | 0662 | 0581 | 0500 | 9419 | 0337 | 0256 | 0175 | 0094 | 0013 | 9932 | 9851 | 9779 | 9689 | 9607 | 9526 | 9445 | 9364 | 216 | 15 | 5 6220 |
| 61 | 16 | | 0949 | 0867 | 9786 | 0705 | 0624 | 0543 | 0461 | 0380 | 0299 | 0218 | 0136 | 0055 | 2974 | 9893 | 9811 | 9730 | 2648 | 211 | 16 | 5932 |
| 60 | 17 | | 1235 | 1154 | 1073 | 0992 | 0210 | 0829 | 0747 | 0666 | 0565 | 0504 | 0422 | 0341 | 0259 | 0178 | 0096 | 0015 | 9933 | 296 | 17 | 6644 |
| 68 | 18 | 6 | 1522 | 1441 | 1360 | 1278 | 1197 | 1115 | 1034 | 9952 | 0971 | 0789 | 0707 | 0626 | 0514 | 0463 | 0381 | 0229 | 0218 | 201 | 18 | 5356 |
| 57 | 19 | | 1809 | 1728 | 1646 | 1565 | 1483 | 1401 | 1320 | 1238 | 1156 | 1075 | 0993 | 0911 | 0829 | 0748 | 0666 | 0584 | 0502 | 196 | 19 | 5068 |
| 56 | 20 | 6 | 2096 | 2015 | 1933 | 1851 | 1769 | 1687 | 1606 | 1594 | 1442 | 1360 | 1278 | 1196 | 1116 | 1033 | 0951 | 0869 | 0787 | 192 | 29 | 5 4780 |
| 54 | 21 | | 2383 | 2301 | 2219 | 2137 | 2056 | 1971 | 1892 | 1810 | 1728 | 1646 | 1564 | 1482 | 1400 | 1318 | 1236 | 1154 | 1071 | 187 | 21 | 4493 |
| 53 | 22 | | 2670 | 2588 | 2506 | 2424 | 2342 | 2260 | 2178 | 2096 | 2013 | 1932 | 1819 | 1767 | 1685 | 1603 | 1520 | 1438 | 1356 | 182 | 22 | 4205 |
| 61 | 23 | | 2957 | 2875 | 2793 | 2710 | 2628 | 2546 | 2464 | 2381 | 2299 | 2217 | 2135 | 2052 | 1970 | 1088 | 1805 | 1723 | 1641 | 177 | 23 | 3917 |
| 60 | 24 | | 3244 | 3161 | 3079 | 2997 | 2914 | 2832 | 2750 | 2667 | 2585 | 2509 | 2429 | 2338 | 2255 | 2173 | 2090 | 2008 | 1925 | 172 | 24 | 3629 |
| 49 | 25 | 6 | 3531 | 3448 | 3366 | 3283 | 3201 | 3118 | 3036 | 2953 | 2870 | 2788 | 9706 | 2623 | 2549 | 2458 | 2375 | 2292 | 2210 | 168 | 95 | 6 3341 |
| 47 | 26 | | 3817 | 3735 | 3652 | 3570 | 3487 | 3404 | 3322 | 3239 | 3156 | 3073 | 2991 | 2908 | 2825 | 2742 | 2660 | 2577 | 2424 | 163 | 26 | 3054 |
| 46 | 27 | | 4104 | 4021 | 3939 | 3856 | 3773 | 3690 | 3607 | 3625 | 3142 | 3359 | 3276 | 3193 | 3110 | 3097 | 2944 | 2862 | 2779 | 158 | 27 | 2766 |
| 45 | 28 | | 4391 | 4308 | 4225 | 4142 | 4059 | 3976 | 3893 | 3810 | 3727 | 3644 | 3661 | 3478 | 3395 | 3319 | 3929 | 3146 | 3063 | 153 | 28 | 2478 |
| 43 | 29 | | 4678 | 4595 | 4512 | 4429 | 4345 | 4262 | 4179 | 4096 | 4013 | 3930 | 3847 | 3764 | 3680 | 3597 | 3514 | 3431 | 3348 | 149 | 29 | 2191 |
| 42 | 30 | 6 | 4964 | 4881 | 4798 | 4715 | 4632 | 4548 | 4465 | 4382 | 4299 | 4216 | 4132 | 4049 | 3965 | 3882 | 3799 | 3715 | 3632 | 144 | 30 | 5 1903 |
| 40 | 31 | | 5251 | 5168 | 5085 | 5001 | 4918 | 4834 | 4751 | 4668 | 4584 | 4501 | 4117 | 4334 | 4250 | 4107 | 4083 | 4008 | 3916 | 139 | 31 | 1615 |
| 39 | 32 | | 5538 | 5454 | 5371 | 5288 | 5204 | 5120 | 5037 | 4953 | 4870 | 4786 | 4703 | 4619 | 4535 | 4462 | 4368 | 4284 | 4201 | 134 | 32 | 1328 |
| 38 | 33 | | 5825 | 6741 | 5657 | 5574 | 5490 | 5406 | 5393 | 5239 | 5155 | 5072 | 4988 | 4904 | 4820 | 4737 | 4663 | 4569 | 4485 | 129 | 33 | 1840 |
| 36 | 34 | | 6111 | 6098 | 6944 | 5860 | 5776 | 5692 | 5609 | 5525 | 5441 | 5357 | 5273 | 5189 | 5105 | 5021 | 4938 | 4854 | 4770 | 125 | 34 | 9753 |
| 35 | 35 | 6 | 6398 | 6314 | 6230 | 6146 | 6062 | 5978 | 5894 | 6819 | 6726 | 6642 | 5558 | 5474 | 5390 | 5306 | 5922 | 5138 | 5054 | 120 | 36 | 5 9465 |
| 33 | 36 | | 6685 | 6601 | 6517 | 6433 | 6349 | 6964 | 6180 | 6096 | 6012 | 5928 | 5844 | 6759 | 5675 | 5591 | 5507 | 5423 | 5338 | 115 | 36 | 9177 |
| 39 | 37 | | 6971 | 6887 | 6803 | 6719 | 6635 | 6350 | 6466 | 6382 | 6998 | 6913 | 6199 | 6045 | 5960 | 5876 | 5799 | 5707 | 5623 | 119 | 37 | 4 9889 |
| 31 | 38 | | 7258 | 7174 | 7089 | 7005 | 6921 | 6836 | 6752 | 6667 | 6583 | 6499 | 6414 | 6330 | 6245 | 6161 | 6076 | 5992 | 5907 | 105 | 38 | 9602 |
| 29 | 39 | | 7545 | 7460 | 7376 | 7291 | 7207 | 7122 | 7938 | 6953 | 6868 | 6784 | 6699 | 6615 | 6530 | 6445 | 6361 | 6276 | 6191 | 101 | 39 | 9314 |
| 28 | 40 | 6 | 7831 | 7747 | 7662 | 7577 | 7493 | 7408 | 7393 | 7239 | 7154 | 7069 | 6984 | 6990 | 6815 | 6730 | 6645 | 6500 | 6476 | 96 | 49 | 4 9027 |
| 26 | 41 | | 8118 | 8033 | 7948 | 7864 | 7779 | 7694 | 7609 | 7524 | 7439 | 7355 | 7270 | 7185 | 7100 | 7015 | 6930 | 6845 | 6760 | 91 | 41 | 8739 |
| 95 | 42 | | 6405 | 8320 | 8235 | 8150 | 8065 | 7980 | 7895 | 7810 | 7725 | 7640 | 7555 | 7470 | 7385 | 7300 | 7914 | 7129 | 7044 | 86 | 42 | 8452 |
| 24 | 43 | | 8691 | 8606 | 8591 | 8436 | 8351 | 8266 | 8181 | 8095 | 8010 | 7925 | 7840 | 7765 | 7669 | 7584 | 7499 | 7414 | 7398 | 81 | 43 | 8164 |
| 92 | 44 | | 8978 | 8899 | 8807 | 8792 | 8637 | 8552 | 8466 | 8381 | 8296 | 8910 | 8125 | 8040 | 7954 | 7869 | 7784 | 7698 | 7613 | 77 | 44 | 7877 |
| 91 | 45 | 6 | 9264 | 9179 | 9093 | 9008 | 8923 | 8837 | 8752 | 8666 | 8581 | 8496 | 8410 | 8325 | 8239 | 8154 | 8068 | 7983 | 7897 | 72 | 45 | 4 7589 |
| 19 | 46 | | 9551 | 9465 | 9380 | 9294 | 9209 | 9123 | 9038 | 8952 | 8866 | 8781 | 8695 | 8610 | 8524 | 8438 | 8353 | 8267 | 8181 | 67 | 46 | 7302 |
| 18 | 47 | | 9837 | 9752 | 9666 | 9580 | 9495 | 9409 | 9323 | 9238 | 9162 | 9066 | 8980 | 8895 | 8809 | 8723 | 8637 | 8551 | 8465 | 62 | 47 | 7014 |
| 17 | 40 | 7 (6) | 0194 | 0038 | 9952 | 9866 | 9781 | 9695 | 9609 | 9523 | 9437 | 9351 | 9265 | 9179 | 9094 | 9007 | 8922 | 8836 | 8750 | 57 | 48 | 6797 |
| 15 | 49 | | 9410 | 0394 | 0238 | 0152 | 0067 | 9981 | 9894 | 9809 | 9793 | 9636 | 9550 | 9464 | 9378 | 9992 | 9906 | 9120 | 9034 | 53 | 49 | 6439 |
| 14 | 59 | 7 (6) | 0697 | 0611 | 0595 | 0439 | 0352 | 0266 | 0180 | 0094 | 0008 | 9922 | 9835 | 9749 | 9663 | 9577 | 9491 | 9494 | 9318 | 48 | 69 | 4 6152 |
| 13 | 61 | | 0983 | 0897 | 0811 | 0725 | 0638 | 0552 | 0466 | 0379 | 0293 | 0207 | 0120 | 0034 | 9948 | 9861 | 9775 | 9689 | 9602 | 43 | 51 | 6864 |
| 11 | 62 | | 1970 | 1183 | 1097 | 1011 | 0924 | 0838 | 0751 | 0665 | 0578 | 0492 | 0405 | 0319 | 0232 | 0146 | 0059 | 9973 | 9886 | 38 | 52 | 6577 |
| 10 | 63 | 7 | 1556 | 1470 | 1383 | 1297 | 1910 | 1123 | 1037 | 0950 | 0864 | 9777 | 0690 | 0604 | 0517 | 0430 | 0344 | 0257 | 0170 | 34 | 53 | 6990 |
| 8 | 54 | | 1843 | 1756 | 1669 | 1583 | 1496 | 1409 | 1329 | 1236 | 1149 | 1962 | 0975 | 0889 | 0892 | 0715 | 0628 | 0541 | 0454 | 29 | 54 | 5002 |
| 7 | 66 | 7 | 2199 | 2049 | 1955 | 1869 | 1782 | 1695 | 1608 | 1591 | 1434 | 1347 | 1960 | 1173 | 1086 | 1000 | 0913 | 0826 | 0739 | 24 | 55 | 4 4715 |
| 6 | 56 | | 2415 | 2328 | 2941 | 2154 | 2068 | 1980 | 1893 | 1806 | 1719 | 1632 | 1545 | 1458 | 1371 | 1284 | 1197 | 1110 | 1823 | 19 | 56 | 4428 |
| 4 | 67 | | 9709 | 2615 | 2527 | 2440 | 2353 | 2966 | 2179 | 9099 | 2005 | 1917 | 1830 | 1743 | 1656 | 1569 | 1481 | 1394 | 1307 | 14 | 57 | 4140 |
| 3 | 68 | | 2988 | 2901 | 2814 | 2726 | 2639 | 2552 | 2465 | 2377 | 2290 | 2903 | 9115 | 2028 | 1940 | 1863 | 1766 | 1678 | 1591 | 10 | 58 | 3853 |
| 1 | 59 | | 3274 | 3187 | 3100 | 3019 | 2926 | 2837 | 2750 | 2663 | 2675 | 2488 | 2400 | 2313 | 2225 | 2138 | 9050 | 1962 | 1875 | 5 | 59 | 3566 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.**

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 99° | | Argumento Auxiliar. 17′ | 16′ | 19′ | 60′ | 21′ | 62′ | 23′ | 24′ | 65′ | 26′ | 27′ | 66′ | 69′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 99° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 6′ | 5 | 5014 | 4235 | 4856 | 4776 | 4697 | 4618 | 4539 | 4468 | 4381 | 4302 | 4222 | 4143 | 4664 | 3985 | 3906 | 3826 | 3747 | 8 | 6′ | 5 6434 |
| 82 | 1 | | 6698 | 5219 | 5140 | 5061 | 4981 | 4906 | 4823 | 4743 | 4664 | 4585 | 4506 | 4426 | 4347 | 4268 | 4188 | 4109 | 4830 | 5 | 1 | 6762 |
| 61 | 6 | | 6683 | 5504 | 5424 | 6345 | 6266 | 5186 | 6107 | 5627 | 4948 | 4868 | 4789 | 4769 | 4636 | 4550 | 4471 | 4391 | 4312 | 10 | 6 | 7809 |
| 79 | 3 | | 6668 | 6788 | 5706 | 5629 | 5558 | 5470 | 5391 | 5311 | 5231 | 5156 | 5072 | 4993 | 4913 | 4833 | 4754 | 4674 | 4594 | 14 | 3 | 7296 |
| 78 | 4 | | 6152 | 6073 | 5693 | 5913 | 6834 | 5764 | 6674 | 5595 | 5516 | 5435 | 5355 | 6276 | 6196 | 6116 | 5036 | 4956 | 4876 | 19 | 4 | 7584 |
| 77 | 5 | 5 | 6437 | 6357 | 6677 | 6198 | 6118 | 6838 | 5958 | 5878 | 5798 | 5718 | 5638 | 5552 | 5479 | 5399 | 5319 | 5239 | 5159 | 24 | 5 | 6 7871 |
| 75 | 6 | | 6726 | 6642 | 6662 | 6482 | 6406 | 6322 | 6242 | 6162 | 6082 | 6006 | 5926 | 5842 | 5762 | 5681 | 5601 | 5521 | 5441 | 29 | 6 | 8158 |
| 74 | 7 | | 7006 | 6226 | 6846 | 6766 | 6686 | 6606 | 6626 | 6445 | 6365 | 6285 | 6286 | 6125 | 6044 | 5964 | 5884 | 5884 | 5763 | 33 | 7 | 8445 |
| 72 | 8 | | 7291 | 7211 | 7130 | 7050 | 6978 | 6890 | 6889 | 6729 | 6646 | 6568 | 6488 | 6408 | 6327 | 6247 | 6166 | 6086 | 6005 | 38 | 8 | 8732 |
| 71 | 6 | | 7575 | 7496 | 7416 | 7334 | 7254 | 7173 | 7093 | 7613 | 6932 | 6856 | 6771 | 6691 | 6618 | 6530 | 6449 | 6368 | 6288 | 43 | 9 | 9028 |
| 78 | 16 | 6 | 7860 | 7779 | 7692 | 7618 | 7538 | 7457 | 7377 | 7296 | 7216 | 7135 | 7854 | 6974 | 6893 | 6816 | 6732 | 6651 | 6570 | 48 | 18 | 5 9387 |
| 68 | 11 | | 6146 | 6064 | 7983 | 7983 | 7822 | 7741 | 7660 | 7580 | 7499 | 7418 | 7337 | 7257 | 7176 | 7095 | 7814 | 6933 | 6852 | 63 | 11 | 9594 |
| 67 | 16 | | 8429 | 8348 | 8267 | 8187 | 8106 | 6825 | 7944 | 7863 | 7782 | 7781 | 7620 | 7548 | 7459 | 7378 | 7297 | 7216 | 7135 | 57 | 16 | 9881 |
| 65 | 13 | | 8714 | 8633 | 8552 | 8471 | 8398 | 8389 | 8228 | 6147 | 8066 | 7986 | 7904 | 7866 | 7741 | 7660 | 7579 | 7498 | 7417 | 62 | 13 | 6 0168 |
| 64 | 14 | | 6968 | 6917 | 8836 | 8755 | 8674 | 8592 | 8511 | 8430 | 6349 | 8268 | 8187 | 8105 | 8824 | 7943 | 7862 | 7780 | 7699 | 67 | 14 | 8455 |
| 63 | 15 | 5 | 9283 | 9201 | 9120 | 9032 | 8958 | 8876 | 8795 | 8714 | 8632 | 8551 | 8470 | 8388 | 8307 | 8226 | 8144 | 8063 | 7981 | 72 | 16 | 6 0743 |
| 61 | 16 | | 9667 | 6486 | 9404 | 9323 | 9242 | 9160 | 9078 | 8997 | 6916 | 8831 | 8753 | 8671 | 8598 | 8508 | 8427 | 8345 | 8263 | 76 | 16 | 1030 |
| 60 | 17 | | 9852 | 9770 | 9688 | 9607 | 2525 | 9444 | 9362 | 9281 | 9199 | 9117 | 9036 | 8954 | 8872 | 8791 | 8709 | 8627 | 8546 | 81 | 17 | 1317 |
| 50 | 18 | 6 (5) | 0136 | 0064 | 9973 | 9891 | 9809 | 9728 | 9646 | 9564 | 9482 | 9400 | 9319 | 9237 | 9156 | 9073 | 8991 | 8910 | 8828 | 86 | 18 | 1604 |
| 57 | 19 | | 6460 | 0332 | 0257 | 0175 | 0093 | 8011 | 9929 | 9848 | 9766 | 9684 | 9602 | 9520 | 9438 | 9356 | 9274 | 9192 | 9110 | 91 | 19 | 1891 |
| 56 | 20 | 6 (5) | 6705 | 0623 | 0541 | 0159 | 0377 | 6295 | 6213 | 0131 | 0049 | 9967 | 9885 | 9883 | 9721 | 9638 | 9556 | 9474 | 9392 | 96 | 60 | 6 2178 |
| 54 | 61 | | 0289 | 6967 | 0665 | 0743 | 0661 | 0579 | 8496 | 8414 | 0332 | 0550 | 0168 | 8885 | 0883 | 9921 | 9839 | 9756 | 9674 | 100 | 21 | 2465 |
| 53 | 66 | | 1674 | 1192 | 1109 | 1627 | 6245 | 0862 | 8780 | 8698 | 0615 | 0533 | 0451 | 0368 | 0286 | 0203 | 0121 | 0039 | 9956 | 105 | 22 | 6752 |
| 51 | 63 | 6 | 1658 | 1476 | 1393 | 1311 | 1228 | 1146 | 1064 | 0981 | 6899 | 8816 | 0734 | 0651 | 0568 | 0486 | 0403 | 0321 | 0238 | 110 | 63 | 3039 |
| 60 | 24 | | 1843 | 1760 | 1677 | 1595 | 1512 | 1430 | 1347 | 1664 | 1182 | 1099 | 1617 | 8934 | 6851 | 0768 | 0686 | 0663 | 0520 | 115 | 21 | 3325 |
| 46 | 26 | 6 | 2127 | 2044 | 1962 | 1879 | 1796 | 1713 | 1631 | 1548 | 1465 | 1382 | 1299 | 1217 | 1134 | 1051 | 0968 | 0885 | 0802 | 120 | 25 | 6 3613 |
| 47 | 26 | | 6411 | 2328 | 2646 | 2163 | 2080 | 1997 | 1914 | 1831 | 1748 | 1665 | 1582 | 1499 | 1416 | 1333 | 1250 | 1167 | 1881 | 121 | 26 | 3980 |
| 46 | 27 | | 6696 | 6613 | 2530 | 2447 | 2364 | 2281 | 2198 | 2115 | 2631 | 1948 | 1865 | 1782 | 1699 | 1615 | 1533 | 1450 | 1366 | 129 | 27 | 4187 |
| 45 | 68 | | 2980 | 2897 | 2814 | 2731 | 2647 | 2564 | 2481 | 2398 | 2315 | 2231 | 2148 | 2065 | 1982 | 1898 | 1815 | 1732 | 1648 | 134 | 28 | 4474 |
| 43 | 29 | | 3664 | 3181 | 3068 | 3014 | 2931 | 6848 | 2764 | 2681 | 2598 | 2514 | 2431 | 2348 | 2264 | 2181 | 2097 | 2614 | 1930 | 139 | 29 | 4761 |
| 46 | 30 | 6 | 3549 | 3465 | 3382 | 3298 | 3215 | 3131 | 3048 | 2964 | 2881 | 2797 | 2714 | 2630 | 2547 | 2463 | 2372 | 2296 | 2212 | 143 | 30 | 6 5848 |
| 40 | 31 | | 3833 | 3749 | 3666 | 3582 | 3499 | 3415 | 3331 | 3248 | 3164 | 3880 | 2997 | 2913 | 2829 | 2745 | 2662 | 2576 | 2494 | 148 | 31 | 5334 |
| 32 | 36 | | 4117 | 4833 | 3960 | 3866 | 3782 | 3699 | 3615 | 3531 | 3447 | 3363 | 3279 | 3196 | 3112 | 3828 | 2944 | 2860 | 2776 | 153 | 32 | 5621 |
| 38 | 33 | | 4401 | 4318 | 4234 | 4150 | 4866 | 3982 | 3828 | 3814 | 3738 | 3645 | 3562 | 3478 | 3394 | 3310 | 3226 | 3142 | 3058 | 158 | 33 | 5988 |
| 36 | 31 | | 4686 | 4662 | 4518 | 4434 | 4350 | 4266 | 4181 | 4097 | 4013 | 3929 | 3845 | 3761 | 3677 | 3693 | 3568 | 3424 | 3340 | 163 | 34 | 6195 |
| 35 | 35 | 6 | 4970 | 4886 | 4882 | 4717 | 4633 | 4549 | 4465 | 4381 | 4295 | 4216 | 4128 | 4044 | 3959 | 3875 | 3791 | 3706 | 3622 | 167 | 36 | 6 6482 |
| 33 | 36 | | 6254 | 5170 | 5085 | 5001 | 4917 | 4833 | 4748 | 4664 | 4579 | 4425 | 4411 | 4326 | 4242 | 4157 | 4073 | 3288 | 3904 | 172 | 36 | 6769 |
| 32 | 37 | | 6538 | 5454 | 5369 | 5285 | 5281 | 5116 | 5032 | 4947 | 4862 | 4778 | 4693 | 4609 | 4524 | 4440 | 4355 | 4270 | 4186 | 177 | 37 | 7056 |
| 31 | 38 | | 5866 | 5738 | 5653 | 5569 | 5484 | 5480 | 5315 | 5230 | 5145 | 5061 | 4976 | 4891 | 4807 | 4722 | 4637 | 4556 | 4468 | 182 | 38 | 7342 |
| 29 | 39 | | 6167 | 6862 | 5937 | 6852 | 5768 | 5683 | 6598 | 5513 | 5428 | 5344 | 5252 | 6174 | 5089 | 5004 | 4219 | 4834 | 4750 | 187 | 39 | 7629 |
| 28 | 48 | 6 | 6391 | 6306 | 6221 | 6136 | 6051 | 5966 | 5881 | 5797 | 5711 | 5527 | 5542 | 5457 | 5371 | 5287 | 5201 | 5116 | 5831 | 191 | 46 | 6 7916 |
| 26 | 41 | | 6675 | 6590 | 6505 | 6420 | 6335 | 6250 | 6165 | 6680 | 6994 | 5909 | 5824 | 5739 | 5654 | 6569 | 6484 | 5398 | 5313 | 196 | 41 | 6263 |
| 65 | 46 | | 6959 | 6874 | 6769 | 6704 | 6618 | 6533 | 6448 | 6363 | 6277 | 6192 | 6107 | 6022 | 5935 | 6851 | 5766 | 6680 | 6595 | 601 | 46 | 8489 |
| 64 | 43 | | 7243 | 7168 | 7073 | 6987 | 6902 | 6817 | 6731 | 6616 | 6560 | 6476 | 6390 | 6304 | 6218 | 6133 | 6048 | 5962 | 5877 | 206 | 43 | 8776 |
| 62 | 44 | | 7567 | 7446 | 7366 | 7271 | 7185 | 7106 | 7814 | 6929 | 6843 | 6758 | 6672 | 6587 | 6501 | 6415 | 6330 | 6244 | 6168 | 610 | 44 | 6063 |
| 61 | 45 | 6 | 7811 | 7726 | 7640 | 7555 | 7469 | 7383 | 7298 | 7216 | 7166 | 7041 | 6955 | 6869 | 6783 | 6698 | 6612 | 6526 | 6440 | 215 | 45 | 6 6350 |
| 19 | 46 | | 8695 | 8018 | 7964 | 7838 | 7752 | 7667 | 7581 | 7495 | 7409 | 7323 | 7238 | 7162 | 7066 | 6980 | 6894 | 5808 | 6722 | 220 | 46 | 9635 |
| 18 | 47 | | 8380 | 8294 | 8208 | 8162 | 8036 | 7950 | 7864 | 7778 | 7692 | 7606 | 7520 | 7434 | 7348 | 7262 | 7175 | 7020 | 7004 | 225 | 47 | 6923 |
| 17 | 48 | | 8664 | 8678 | 8492 | 8405 | 8319 | 8233 | 8147 | 8061 | 7976 | 7889 | 7803 | 7717 | 7630 | 7544 | 7458 | 7372 | 7285 | 230 | 48 | 7 6209 |
| 15 | 46 | | 8948 | 8861 | 8775 | 8682 | 8603 | 8517 | 8430 | 8344 | 8258 | 8172 | 8085 | 7996 | 7913 | 7826 | 7740 | 7654 | 7567 | 234 | 49 | 6496 |
| 14 | 66 | 6 | 9232 | 9145 | 9059 | 8973 | 8886 | 8800 | 8714 | 8627 | 8541 | 8454 | 8368 | 8281 | 8195 | 8169 | 8022 | 7936 | 7849 | 239 | 60 | 7 6783 |
| 13 | 61 | | 9516 | 9429 | 9343 | 9256 | 9170 | 9083 | 8997 | 8918 | 8824 | 8737 | 8650 | 8564 | 8477 | 8391 | 8304 | 8217 | 8131 | 244 | 61 | 1069 |
| 11 | 62 | | 9800 | 9713 | 9626 | 2540 | 9463 | 9366 | 9680 | 9193 | 9106 | 9020 | 8933 | 8846 | 8759 | 8673 | 8586 | 8499 | 8412 | 249 | 66 | 1356 |
| 16 | 63 | 7 (6) | 6084 | 9997 | 9610 | 9823 | 6737 | 9650 | 9563 | 9476 | 6389 | 9302 | 9216 | 9129 | 9042 | 8955 | 8868 | 8781 | 8664 | 253 | 53 | 1543 |
| 8 | 54 | | 6368 | 0281 | 0194 | 0107 | 0020 | 9933 | 9846 | 9769 | 9676 | 9586 | 9498 | 9411 | 9324 | 9237 | 2150 | 9063 | 8975 | 258 | 64 | 1929 |
| 7 | 55 | 7 (6) | 6652 | 0566 | 6477 | 0390 | 6303 | 0616 | 6129 | 0042 | 9955 | 9866 | 9780 | 9693 | 9606 | 9519 | 2432 | 9344 | 6257 | 663 | 66 | 7 2216 |
| 6 | 66 | | 6936 | 0848 | 0761 | 6674 | 0587 | 6499 | 0412 | 0325 | 0238 | 6160 | 0063 | 9975 | 9888 | 9801 | 9714 | 9626 | 6539 | 268 | 56 | 2502 |
| 4 | 67 | | 1619 | 1136 | 1046 | 0967 | 0870 | 0783 | 0695 | 0608 | 0520 | 0433 | 0345 | 0258 | 0170 | 0083 | 9996 | 9908 | 9820 | 273 | 67 | 6766 |
| 3 | 68 | 7 | 1663 | 1416 | 1328 | 1241 | 1163 | 1066 | 6976 | 0861 | 0803 | 6716 | 0628 | 0540 | 0453 | 0365 | 6677 | 0198 | 0102 | 677 | 68 | 3075 |
| 1 | 59 | | 1767 | 1788 | 1616 | 1624 | 1437 | 1346 | 1661 | 1174 | 1086 | 0998 | 0210 | 0862 | 0736 | 0647 | 0552 | 0471 | 0384 | 682 | 56 | 3362 |

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Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 100° | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 16′ | 16′ | Partes para segundos. | 100° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | 0′ | 7 3561 | 3473 | 3382 | 3298 | 3211 | 3123 | 3035 | 2948 | 2820 | 2773 | 9685 | 2527 | 2610 | 2422 | 2334 | 2247 | 2159 | 287 | 0′ | 4 3272 |
| 90 | 1 | 3847 | 3750 | 3670 | 3584 | 3406 | 3409 | 3321 | 3233 | 3145 | 3058 | 2970 | 2882 | 2704 | 2706 | 2619 | 2531 | 2443 | 280 | 1 | 9991 |
| 88 | 9 | 4131 | 4046 | 3058 | 3870 | 3780 | 3694 | 3606 | 3510 | 3431 | 3343 | 3255 | 3167 | 3070 | 2921 | 2903 | 2815 | 2727 | 277 | 2 | 2704 |
| 87 | 3 | 4420 | 4332 | 4244 | 4156 | 4068 | 3980 | 3802 | 3804 | 3716 | 3628 | 3540 | 3451 | 3323 | 3275 | 3187 | 3020 | 3011 | 273 | 3 | 2416 |
| 85 | 4 | 4706 | 4618 | 4530 | 4442 | 4353 | 4265 | 4177 | 4089 | 4001 | 3913 | 3824 | 3736 | 3648 | 3560 | 3471 | 3383 | 3205 | 268 | 4 | 2129 |
| 84 | 6 | 7 4990 | 4984 | 4816 | 4727 | 4239 | 4551 | 4463 | 4374 | 4286 | 4198 | 4100 | 4021 | 3939 | 3844 | 3756 | 3667 | 3579 | 263 | 5 | 4 1842 |
| 82 | 6 | 5078 | 5100 | 5102 | 5013 | 4925 | 4836 | 4748 | 4559 | 4571 | 4483 | 4324 | 4305 | 4217 | 4128 | 4040 | 3951 | 3863 | 258 | 6 | 1555 |
| 81 | 7 | 5565 | 5476 | 5388 | 5229 | 5212 | 5122 | 5033 | 4045 | 4856 | 4727 | 4670 | 4590 | 4501 | 4413 | 4304 | 4235 | 4147 | 253 | 7 | 1268 |
| 79 | 8 | 5851 | 5762 | 5674 | 5585 | 3496 | 5407 | 5312 | 5230 | 5141 | 5052 | 4964 | 4875 | 4786 | 4627 | 4608 | 4519 | 4430 | 240 | 8 | 0980 |
| 78 | 0 | 6137 | 6048 | 5952 | 5871 | 2702 | 5293 | 5604 | 5515 | 5426 | 5337 | 5248 | 5150 | 5070 | 4201 | 4892 | 4803 | 4714 | 244 | 9 | 0693 |
| 76 | 10 | 7 6423 | 6334 | 6245 | 6156 | 6027 | 5078 | 5889 | 5820 | 5711 | 5622 | 5533 | 5444 | 5355 | 5266 | 5177 | 5087 | 4998 | 239 | 10 | 4 0406 |
| 75 | 11 | 6709 | 6620 | 6531 | 2442 | 6353 | 6264 | 6176 | 6085 | 5996 | 5207 | 5818 | 5728 | 5239 | 5550 | 5461 | 5371 | 5202 | 234 | 11 | 0112 |
| 73 | 12 | 6996 | 6006 | 6817 | 6798 | 6638 | 6549 | 6460 | 6371 | 6281 | 6122 | 5162 | 6013 | 5924 | 5034 | 5745 | 5655 | 5566 | 230 | 12 | 3 9832 |
| 72 | 13 | 7282 | 7192 | 7103 | 7013 | 6924 | 6835 | 6745 | 6656 | 6566 | 6477 | 6387 | 6298 | 6268 | 6118 | 6029 | 5939 | 5850 | 225 | 13 | 0545 |
| 70 | 14 | 7368 | 7478 | 7389 | 7299 | 7210 | 7120 | 7030 | 6241 | 6851 | 6722 | 6672 | 6580 | 6492 | 6403 | 6313 | 6223 | 6134 | 220 | 14 | 9257 |
| 69 | 15 | 7 7854 | 7764 | 7675 | 7585 | 7405 | 7405 | 7316 | 7226 | 7136 | 7046 | 5957 | 6867 | 6777 | 6687 | 2507 | 2507 | 6417 | 215 | 15 | 3 0970 |
| 67 | 16 | 8142 | 0050 | 7960 | 7871 | 7781 | 7691 | 7601 | 7511 | 7421 | 7331 | 7241 | 7151 | 7061 | 6271 | 6081 | 6721 | 6701 | 210 | 16 | 8683 |
| 66 | 17 | 8426 | 8336 | 8046 | 8156 | 8066 | 7976 | 7886 | 7706 | 7706 | 7615 | 7526 | 7436 | 7346 | 7255 | 7165 | 7075 | 6085 | 206 | 17 | 8395 |
| 64 | 18 | 8712 | 0622 | 0532 | 0442 | 8352 | 8262 | 8171 | 8081 | 7991 | 7901 | 7810 | 7720 | 7636 | 7540 | 7442 | 7359 | 7059 | 201 | 18 | 8100 |
| 63 | 19 | 0998 | 0006 | 0812 | 8707 | 8637 | 0547 | 8457 | 8366 | 8276 | 8185 | 8095 | 8005 | 7214 | 7804 | 7733 | 7643 | 7552 | 196 | 19 | 7820 |
| 61 | 20 | 7 9284 | 9194 | 9103 | 9013 | 8923 | 8832 | 8742 | 8651 | 8561 | 8470 | 8380 | 8089 | 8198 | 8102 | 8017 | 7927 | 7836 | 121 | 20 | 3 7535 |
| 59 | 01 | 9572 | 9480 | 9389 | 9299 | 2208 | 9117 | 9097 | 0936 | 8846 | 8755 | 8664 | 8573 | 8483 | 8302 | 8301 | 8211 | 0120 | 187 | 21 | 7948 |
| 58 | 22 | 9856 | 9766 | 9675 | 9584 | 9493 | 9403 | 9312 | 0221 | 9130 | 9030 | 8940 | 8858 | 8767 | 0676 | 8505 | 8494 | 8404 | 182 | 22 | 6961 |
| 56 | 03 | 8 (7) 0140 | 0051 | 9961 | 0870 | 9770 | 9688 | 9597 | 0506 | 9415 | 9324 | 0233 | 9142 | 9051 | 8960 | 8062 | 8778 | 8627 | 177 | 23 | 6674 |
| 55 | 24 | 2428 | 0337 | 0942 | 0155 | 0064 | 9273 | 9882 | 9791 | 9700 | 9609 | 9518 | 9407 | 9335 | 9244 | 9153 | 2262 | 8071 | 172 | 24 | 6387 |
| 53 | 25 | 8 (7) 6714 | 0623 | 0532 | 0441 | 0350 | 0250 | 0167 | 0076 | 0985 | 9804 | 9802 | 2711 | 9620 | 9520 | 9437 | 9346 | 9255 | 167 | 25 | 3 6100 |
| 52 | 26 | 1000 | 0909 | 0818 | 0726 | 6635 | 0544 | 0452 | 0361 | 0270 | 0178 | 6007 | 0295 | 9904 | 9813 | 0721 | 2230 | 2538 | 163 | 26 | 6013 |
| 50 | 97 | 1286 | 1195 | 1103 | 1012 | 0020 | 0809 | 0737 | 0646 | 0554 | 0463 | 0371 | 0280 | 0188 | 0027 | 0605 | 9013 | 9822 | 158 | 27 | 5526 |
| 49 | 20 | 8 1672 | 1480 | 1389 | 1297 | 1006 | 1114 | 1022 | 0931 | 0839 | 0747 | 0656 | 0564 | 0472 | 0381 | 0262 | 0197 | 0105 | 153 | 28 | 5230 |
| 47 | 29 | 1858 | 1766 | 1674 | 1683 | 1491 | 1390 | 1307 | 1916 | 1104 | 1032 | 0241 | 0848 | 0757 | 0665 | 0573 | 0481 | 0389 | 148 | 29 | 4952 |
| 46 | 30 | 8 2144 | 2052 | 1960 | 1868 | 1776 | 1684 | 1592 | 1601 | 1409 | 1317 | 1295 | 1133 | 1041 | 0049 | 0857 | 0765 | 0673 | 143 | 30 | 3 4666 |
| 44 | 31 | 2430 | 2338 | 2046 | 0154 | 2062 | 1970 | 1877 | 1785 | 1693 | 1601 | 1502 | 1417 | 1325 | 1233 | 1140 | 1248 | 0956 | 130 | 31 | 4379 |
| 43 | 32 | 2716 | 2603 | 2531 | 2430 | 2347 | 2055 | 2162 | 2072 | 1978 | 1886 | 1794 | 1701 | 1609 | 1517 | 1424 | 1332 | 1240 | 131 | 32 | 4092 |
| 41 | 33 | 3001 | 2909 | 2817 | 2724 | 2630 | 2540 | 2447 | 2355 | 2963 | 2170 | 2078 | 1985 | 1893 | 1801 | 1708 | 1616 | 1523 | 129 | 33 | 3805 |
| 40 | 34 | 3287 | 3105 | 3102 | 3010 | 2917 | 2825 | 2732 | 2640 | 2547 | 9455 | 9362 | 0070 | 9177 | 2085 | 1292 | 1892 | 1807 | 124 | 34 | 3518 |
| 38 | 35 | 8 3573 | 3480 | 3388 | 3205 | 3903 | 3110 | 3017 | 2925 | 2832 | 2739 | 2647 | 0554 | 2461 | 2368 | 0276 | 2183 | 2020 | 120 | 35 | 3 3231 |
| 37 | 36 | 3859 | 3766 | 3673 | 3581 | 3400 | 3305 | 3302 | 3009 | 3117 | 3004 | 0931 | 9838 | 0745 | 2652 | 2552 | 2467 | 2374 | 115 | 36 | 2944 |
| 35 | 37 | 4144 | 4052 | 3950 | 3866 | 3773 | 3680 | 3587 | 3494 | 3401 | 3308 | 3215 | 3122 | 3022 | 9936 | 2043 | 0750 | 2657 | 110 | 37 | 2658 |
| 34 | 38 | 4430 | 4337 | 4244 | 4151 | 4058 | 3965 | 3872 | 3779 | 3686 | 3503 | 3500 | 3406 | 3313 | 3220 | 3127 | 3034 | 2941 | 105 | 38 | 2371 |
| 32 | 39 | 4716 | 4623 | 4530 | 4437 | 4343 | 4250 | 4157 | 4064 | 3070 | 3877 | 3784 | 3691 | 3597 | 3504 | 3411 | 3317 | 3221 | 100 | 39 | 2084 |
| 31 | 40 | 8 2002 | 4908 | 4815 | 4722 | 4628 | 4635 | 4442 | 4348 | 4255 | 4162 | 4068 | 3075 | 3881 | 3788 | 3604 | 3601 | 3507 | 96 | 40 | 3 1797 |
| 29 | 41 | 2087 | 6104 | 5181 | 5007 | 4914 | 4820 | 4727 | 4633 | 4540 | 4446 | 4352 | 4050 | 4165 | 4072 | 3978 | 3084 | 3791 | 91 | 41 | 1511 |
| 08 | 40 | 5573 | 5480 | 6386 | 5292 | 5100 | 5105 | 5011 | 4918 | 4804 | 4730 | 4637 | 4513 | 4449 | 4355 | 4262 | 4168 | 4074 | 86 | 42 | 1024 |
| 26 | 43 | 6859 | 5765 | 5671 | 5578 | 5484 | 5300 | 5296 | 5202 | 5109 | 5015 | 4901 | 4807 | 4733 | 4639 | 4546 | 4451 | 4358 | 81 | 43 | 0937 |
| 04 | 44 | 6144 | 6051 | 5957 | 5063 | 6769 | 5675 | 5581 | 5487 | 5393 | 5299 | 5205 | 5111 | 6017 | 4923 | 4829 | 4735 | 4641 | 76 | 44 | 0650 |
| 23 | 45 | 8 2430 | 6336 | 6940 | 6148 | 6054 | 5960 | 5866 | 5772 | 5678 | 5584 | 5489 | 5395 | 5301 | 5207 | 5113 | 5018 | 4924 | 72 | 45 | 3 0364 |
| 21 | 46 | 2716 | 6622 | 6507 | 6433 | 6339 | 6245 | 6151 | 6056 | 5962 | 5868 | 5774 | 5679 | 5585 | 5491 | 5306 | 5302 | 5907 | 67 | 46 | 0077 |
| 20 | 47 | 7001 | 6907 | 6013 | 6718 | 6604 | 6630 | 6435 | 6341 | 6247 | 6162 | 6058 | 5963 | 5869 | 5774 | 5680 | 5585 | 5491 | 69 | 47 | 2 9791 |
| 18 | 48 | 7287 | 7192 | 7098 | 7004 | 6909 | 6815 | 6720 | 6626 | 6531 | 6436 | 6342 | 6947 | 6153 | 6058 | 5963 | 5869 | 5774 | 67 | 48 | 9504 |
| 17 | 49 | 7572 | 7478 | 7383 | 7289 | 7194 | 7100 | 7005 | 6910 | 6016 | 6721 | 6626 | 6531 | 6437 | 6342 | 6947 | 6162 | 6067 | 53 | 49 | 9917 |
| 15 | 60 | 0 7858 | 7763 | 7669 | 7574 | 7479 | 7384 | 7290 | 7195 | 7100 | 7005 | 6010 | 6815 | 6791 | 6626 | 6531 | 5436 | 6341 | 48 | 50 | 2 8931 |
| 14 | 51 | 2144 | 0049 | 7954 | 7859 | 7764 | 7669 | 7574 | 7479 | 7384 | 7289 | 7194 | 7099 | 7004 | 6909 | 6814 | 6719 | 6624 | 43 | 51 | 8644 |
| 12 | 52 | 2429 | 8334 | 0239 | 8144 | 8049 | 7954 | 7859 | 7764 | 7662 | 7574 | 7470 | 7383 | 7288 | 7193 | 7098 | 7009 | 6907 | 38 | 52 | 8357 |
| 11 | 53 | 6715 | 0620 | 8524 | 8499 | 8334 | 8939 | 8144 | 8042 | 7953 | 7858 | 7763 | 7667 | 7572 | 7472 | 7381 | 7986 | 7190 | 33 | 53 | 8071 |
| 9 | 54 | 9000 | 0905 | 8810 | 8714 | 8619 | 8524 | 8428 | 8333 | 8237 | 8142 | 8047 | 7251 | 7056 | 7760 | 7665 | 7569 | 7474 | 29 | 54 | 7784 |
| 8 | 55 | 0 9286 | 9190 | 9095 | 0999 | 8904 | 8008 | 8713 | 8617 | 8522 | 8496 | 8331 | 8035 | 8139 | 8044 | 7948 | 7852 | 7757 | 24 | 55 | 2 7498 |
| 6 | 56 | 9571 | 9476 | 9380 | 9284 | 9189 | 9003 | 8997 | 8902 | 8806 | 8710 | 8615 | 8519 | 8423 | 0327 | 0232 | 0136 | 8040 | 19 | 56 | 7211 |
| 5 | 57 | 9857 | 9761 | 9665 | 9569 | 9474 | 9378 | 9282 | 9186 | 9090 | 8994 | 0899 | 0603 | 8707 | 8611 | 0515 | 0419 | 2323 | 14 | 57 | 6995 |
| 3 | 58 | 9 (8) 6142 | 6046 | 9950 | 9854 | 9758 | 9663 | 9567 | 9471 | 9375 | 9278 | 9183 | 9007 | 8901 | 8895 | 0798 | 0702 | 8606 | 10 | 58 | 6638 |
| 2 | 59 | 0498 | 0331 | 0235 | 0139 | 0043 | 9947 | 9851 | 9755 | 0659 | 9563 | 9467 | 9370 | 9274 | 9178 | 9062 | 8986 | 0880 | 5 | 59 | 2352 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 100° | | 17′ | 18′ | 19′ | 26′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 100° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 93 | 0′ | 7 | 2071 | 1983 | 1896 | 1868 | 1720 | 1632 | 1544 | 1456 | 1369 | 1281 | 1193 | 1105 | 1017 | 0929 | 0841 | 0753 | 0665 | 0 | 0′ | 7 3648 |
| 91 | 1 | | 2355 | 2267 | 2179 | 2091 | 2003 | 1915 | 1827 | 1739 | 1651 | 1563 | 1475 | 1387 | 1299 | 1211 | 1123 | 1035 | 0947 | 6 | 1 | 3935 |
| 89 | 2 | | 2639 | 2551 | 2463 | 2375 | 2287 | 2198 | 2110 | 2022 | 1934 | 1846 | 1758 | 1669 | 1581 | 1493 | 1405 | 1316 | 1228 | 9 | 2 | 4221 |
| 88 | 3 | | 2923 | 2834 | 2746 | 2658 | 2576 | 2482 | 2393 | 2305 | 2217 | 2128 | 2040 | 1952 | 1863 | 1775 | 1687 | 1598 | 1510 | 14 | 3 | 4508 |
| 86 | 4 | | 3206 | 3118 | 3030 | 2941 | 2853 | 2765 | 2676 | 2588 | 2492 | 2411 | 2322 | 2234 | 2145 | 2057 | 4969 | 1880 | 1791 | 19 | 4 | 4794 |
| 85 | 5 | 7 | 3490 | 3402 | 3313 | 3225 | 3136 | 3048 | 2959 | 2871 | 2782 | 2693 | 2605 | 2516 | 2427 | 2339 | 2250 | 2161 | 2073 | 24 | 5 | 7 5000 |
| 83 | 6 | | 3774 | 3685 | 3597 | 3508 | 3419 | 3331 | 3242 | 3153 | 3065 | 2976 | 2887 | 2798 | 2709 | 2621 | 2532 | 2443 | 2354 | 29 | 6 | 5367 |
| 82 | 7 | | 4058 | 3969 | 3880 | 3791 | 3703 | 3614 | 3525 | 3436 | 3347 | 3258 | 3169 | 3080 | 2921 | 2903 | 2814 | 2725 | 2636 | 33 | 7 | 5653 |
| 80 | 8 | | 4342 | 4253 | 4164 | 4075 | 3986 | 3897 | 3808 | 3719 | 3630 | 3541 | 3452 | 3363 | 3273 | 3184 | 3095 | 3006 | 2917 | 38 | 8 | 5939 |
| 79 | 9 | | 4625 | 4536 | 4447 | 4358 | 4269 | 4180 | 4091 | 4002 | 3912 | 3823 | 3734 | 3645 | 3555 | 3466 | 3377 | 3288 | 3198 | 43 | 9 | 6226 |
| 77 | 10 | 7 | 4909 | 4820 | 4731 | 4641 | 4552 | 4463 | 4374 | 4281 | 4195 | 4106 | 4016 | 3927 | 3837 | 3748 | 3659 | 3569 | 3480 | 48 | 10 | 7 6512 |
| 76 | 11 | | 0193 | 5103 | 5014 | 4925 | 4835 | 4746 | 4656 | 4567 | 4477 | 4388 | 4299 | 4209 | 4112 | 4030 | 3940 | 3850 | 3761 | 52 | 11 | 6798 |
| 74 | 12 | | 5476 | 5387 | 5297 | 5208 | 5118 | 5029 | 4939 | 4850 | 4760 | 1670 | 4581 | 4491 | 4401 | 4312 | 1222 | 4132 | 4043 | 67 | 12 | 7085 |
| 72 | 13 | | 5766 | 5670 | 5581 | 5491 | 5401 | 5312 | 5222 | 5132 | 5043 | 4953 | 4863 | 4773 | 4683 | 4594 | 4504 | 4414 | 4324 | 62 | 13 | 7371 |
| 71 | 14 | | 6044 | 5954 | 5864 | 5774 | 5685 | 5595 | 5506 | 5415 | 5325 | 5235 | 5145 | 5055 | 4965 | 4875 | 4785 | 4695 | 4605 | 67 | 14 | 7657 |
| 69 | 15 | 7 | 6327 | 6238 | 6148 | 6658 | 5968 | 5878 | 5788 | 5698 | 5608 | 5518 | 5427 | 5337 | 5247 | 5157 | 5067 | 4977 | 4887 | 71 | 15 | 7 7944 |
| 68 | 16 | | 6611 | 6521 | 6431 | 6341 | 6251 | 6161 | 6070 | 5980 | 5896 | 5800 | 0710 | 5612 | 5529 | 5439 | 5349 | 5258 | 5168 | 76 | 16 | 8230 |
| 66 | 17 | | 6895 | 6804 | 6714 | 6624 | 6534 | 6443 | 6353 | 6263 | 6173 | 6082 | 5992 | 5901 | 5811 | 5721 | 5630 | 5540 | 5449 | 81 | 17 | 8516 |
| 65 | 18 | | 7178 | 7088 | 6997 | 6907 | 6817 | 6726 | 6636 | 6545 | 6455 | 6364 | 6274 | 6183 | 6093 | 6002 | 5912 | 5821 | 5731 | 86 | 18 | 8862 |
| 63 | 12 | | 7462 | 7371 | 7281 | 7190 | 7100 | 7009 | 6919 | 6828 | 6737 | 6647 | 6556 | 6465 | 6375 | 6284 | 6193 | 6103 | 6012 | 91 | 19 | 9088 |
| 62 | 20 | 7 | 7745 | 7654 | 7564 | 7473 | 7383 | 7292 | 7201 | 7111 | 7020 | 6929 | 6838 | 6747 | 6657 | 6566 | 6475 | 6384 | 6293 | 26 | 20 | 7 9375 |
| 66 | 21 | | 6029 | 7938 | 7847 | 7757 | 7666 | 7575 | 7484 | 7393 | 7302 | 7211 | 7120 | 7029 | 6938 | 6847 | 6756 | 6665 | 6574 | 100 | 21 | 9661 |
| 62 | 22 | | 8313 | 8222 | 8131 | 8040 | 7949 | 7858 | 7767 | 7676 | 7585 | 7494 | 7402 | 7311 | 7220 | 7129 | 7038 | 6947 | 6856 | 165 | 22 | 9947 |
| 57 | 23 | | 6596 | 8505 | 8414 | 8323 | 8232 | 8141 | 8049 | 7958 | 7867 | 7776 | 7685 | 7593 | 7502 | 7411 | 7320 | 7228 | 7137 | 110 | 23 | 8 0233 |
| 56 | 24 | | 8880 | 8788 | 8697 | 8606 | 6515 | 0423 | 8332 | 8241 | 8149 | 8058 | 7967 | 7875 | 7784 | 7692 | 7601 | 7510 | 7418 | 114 | 24 | 0519 |
| 54 | 25 | 7 | 2163 | 9072 | 8980 | 8889 | 8798 | 8706 | 8615 | 8523 | 8432 | 8340 | 8249 | 8157 | 8066 | 7974 | 7882 | 7791 | 7699 | 119 | 25 | 8 0805 |
| 52 | 26 | | 2447 | 9355 | 9264 | 9172 | 9080 | 8989 | 8897 | 8806 | 8714 | 8622 | 8531 | 8439 | 8347 | 8256 | 8164 | 8672 | 7980 | 124 | 26 | 1091 |
| 51 | 27 | | 2730 | 9638 | 9547 | 9455 | 9363 | 9272 | 9180 | 9088 | 8996 | 8905 | 8813 | 8721 | 8629 | 8537 | 8445 | 8353 | 8262 | 129 | 27 | 1377 |
| 49 | 28 | 8 (7) | 0014 | 9922 | 9830 | 9738 | 9646 | 9554 | 9462 | 9371 | 9279 | 9187 | 9095 | 9003 | 8911 | 8819 | 8727 | 8635 | 8543 | 133 | 28 | 1663 |
| 48 | 29 | | 0297 | 0205 | 0113 | 0621 | 9929 | 9837 | 9745 | 9653 | 9561 | 9469 | 9377 | 9285 | 9192 | 9160 | 9008 | 8916 | 8824 | 138 | 29 | 1950 |
| 46 | 30 | 8 (7) | 0580 | 0488 | 0396 | 0304 | 0212 | 0120 | 0028 | 9935 | 9843 | 9751 | 9659 | 9567 | 9474 | 9382 | 9290 | 9197 | 9105 | 143 | 30 | 8 2236 |
| 45 | 31 | | 6864 | 0772 | 0679 | 0587 | 0495 | 0402 | 6310 | 0218 | 0125 | 0033 | 9941 | 9049 | 9756 | 9663 | 9571 | 9479 | 9386 | 148 | 31 | 2522 |
| 43 | 32 | | 1147 | 1655 | 0962 | 0870 | 0778 | 6685 | 0593 | 0500 | 6408 | 0315 | 0223 | 0130 | 0037 | 9945 | 9852 | 9760 | 9667 | 152 | 32 | 2808 |
| 42 | 33 | | 1431 | 1338 | 1246 | 1153 | 1060 | 0968 | 0875 | 0783 | 0690 | 0597 | 0605 | 6412 | 0319 | 0226 | 0134 | 0041 | 9948 | 167 | 33 | 3094 |
| 40 | 34 | 8 | 1714 | 1621 | 1629 | 1436 | 1343 | 1250 | 1158 | 1065 | 0972 | 0872 | 0787 | 0694 | 0601 | 0508 | 0415 | 0322 | 0229 | 162 | 34 | 3379 |
| 39 | 35 | 8 | 1997 | 1904 | 1812 | 1719 | 1626 | 1533 | 1440 | 1347 | 1254 | 1161 | 1068 | 0975 | 0882 | 0789 | 0696 | 0603 | 6516 | 167 | 35 | 8 3665 |
| 37 | 36 | | 2281 | 2188 | 2095 | 2602 | 1909 | 1816 | 1723 | 1629 | 1536 | 1443 | 1350 | 1257 | 1164 | 1671 | 0978 | 0885 | 6791 | 172 | 36 | 3951 |
| 35 | 37 | | 2564 | 2471 | 2378 | 2285 | 2191 | 2098 | 2005 | 1912 | 1819 | 1725 | 1632 | 1539 | 1446 | 1352 | 1259 | 1166 | 1072 | 176 | 37 | 4237 |
| 34 | 30 | | 2847 | 2754 | 2661 | 2567 | 2474 | 2381 | 2287 | 2194 | 2101 | 2007 | 1914 | 1821 | 1727 | 1634 | 1540 | 1447 | 1353 | 181 | 38 | 4523 |
| 32 | 32 | | 3131 | 3037 | 2944 | 2850 | 2757 | 2663 | 2570 | 2476 | 2383 | 2289 | 2196 | 2162 | 2009 | 1916 | 1822 | 1728 | 1634 | 186 | 39 | 4809 |
| 31 | 40 | 8 | 3414 | 3320 | 3227 | 3133 | 3040 | 2946 | 2852 | 2759 | 2665 | 2571 | 2478 | 2384 | 2290 | 2197 | 2103 | 2009 | 1915 | 191 | 40 | 8 5095 |
| 29 | 41 | | 3697 | 3603 | 3510 | 3416 | 3322 | 3229 | 3135 | 3041 | 2947 | 2853 | 2760 | 2666 | 2572 | 2478 | 2384 | 2290 | 2196 | 195 | 41 | 6381 |
| 28 | 42 | | 3980 | 3886 | 3793 | 3699 | 3605 | 3511 | 3417 | 3323 | 3229 | 3135 | 3041 | 2947 | 2853 | 2759 | 2665 | 2571 | 2477 | 200 | 42 | 5667 |
| 26 | 43 | | 4264 | 4176 | 4076 | 3982 | 3888 | 3794 | 3699 | 3605 | 3511 | 3417 | 3323 | 3229 | 3135 | 3041 | 2946 | 2852 | 2768 | 265 | 43 | 5952 |
| 25 | 44 | | 4647 | 4453 | 4358 | 4264 | 4170 | 4076 | 3982 | 3888 | 3793 | 3699 | 3665 | 3611 | 3416 | 3322 | 3228 | 3133 | 3039 | 210 | 44 | 6238 |
| 23 | 45 | 8 | 4830 | 4736 | 4641 | 4547 | 4453 | 4358 | 4264 | 4170 | 4675 | 3981 | 3887 | 3792 | 3698 | 3603 | 3569 | 3414 | 3320 | 214 | 45 | 6 6524 |
| 22 | 46 | | 5113 | 5019 | 4924 | 4830 | 4735 | 4641 | 4546 | 4452 | 4357 | 4263 | 4168 | 4074 | 3979 | 3885 | 3790 | 3695 | 3661 | 219 | 46 | 6810 |
| 20 | 47 | | 5396 | 5302 | 5207 | 5113 | 5018 | 4923 | 4829 | 4734 | 4639 | 4545 | 4450 | 4355 | 4261 | 4166 | 4071 | 3976 | 3882 | 224 | 47 | 7096 |
| 19 | 48 | | 5679 | 5585 | 6490 | 5395 | 5301 | 5206 | 5111 | 5016 | 4921 | 4827 | 4732 | 4637 | 4542 | 4447 | 4352 | 4257 | 4162 | 229 | 40 | 7381 |
| 17 | 49 | | 5963 | 5868 | 5773 | 5678 | 5583 | 5488 | 5393 | 5298 | 5203 | 5108 | 5613 | 4918 | 4823 | 4728 | 4633 | 4538 | 4443 | 234 | 49 | 7667 |
| 15 | 58 | 8 | 6246 | 6151 | 6056 | 5961 | 5866 | 5771 | 5675 | 5586 | 5485 | 5390 | 5295 | 5200 | 5106 | 5610 | 4914 | 4819 | 4724 | 238 | 60 | 8 7953 |
| 14 | 51 | | 6529 | 6434 | 6339 | 6243 | 6148 | 6053 | 5968 | 5863 | 5767 | 5672 | 5577 | 5481 | 5386 | 5291 | 5195 | 5106 | 5005 | 243 | 61 | 8238 |
| 12 | 62 | | 6812 | 6717 | 6621 | 6526 | 6431 | 6335 | 6240 | 6145 | 6049 | 5954 | 5858 | 5763 | 5668 | 5572 | 5477 | 5381 | 5286 | 248 | 52 | 8524 |
| 11 | 53 | | 7095 | 7006 | 6904 | 6809 | 6713 | 6618 | 6622 | 6427 | 6331 | 6236 | 6146 | 6045 | 5949 | 5853 | 5758 | 5662 | 5566 | 253 | 63 | 0816 |
| 9 | 54 | | 7378 | 7282 | 7187 | 7091 | 6996 | 6900 | 6806 | 6709 | 6613 | 6517 | 6422 | 6326 | 6236 | 6134 | 6639 | 5943 | 5847 | 267 | 64 | 2095 |
| 8 | 55 | 8 | 7661 | 7565 | 7476 | 7374 | 7278 | 7182 | 7687 | 6991 | 6895 | 6799 | 6763 | 6667 | 6512 | 6416 | 6320 | 6224 | 6120 | 262 | 66 | 8 2381 |
| 6 | 56 | | 7944 | 7848 | 7752 | 7656 | 7561 | 7466 | 7369 | 7273 | 7177 | 7681 | 6986 | 6889 | 6793 | 6697 | 6601 | 6506 | 6469 | 267 | 56 | 2667 |
| 5 | 57 | | 8227 | 8131 | 8035 | 7939 | 7843 | 7747 | 7651 | 7555 | 7459 | 7362 | 7266 | 7170 | 7074 | 6978 | 6882 | 6785 | 6689 | 272 | 57 | 2952 |
| 3 | 68 | | 8510 | 8414 | 0318 | 8222 | 6125 | 8029 | 7933 | 7837 | 7740 | 7644 | 7548 | 7452 | 7355 | 7259 | 7163 | 7666 | 6970 | 276 | 58 | 9 0238 |
| 2 | 59 | | 8793 | 8697 | 8660 | 8504 | 8408 | 8311 | 8215 | 8119 | 8022 | 7926 | 7829 | 7733 | 7636 | 7546 | 7444 | 7346 | 7251 | 281 | 59 | 0523 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 101° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 101° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 0' | 9 (8) | 0713 | 0617 | 0521 | 0424 | 0328 | 0232 | 0136 | 0039 | 9943 | 9847 | 9751 | 2654 | 9550 | 9462 | 9365 | 9269 | 9172 | 286 | 0' | 2 6065 |
| 98 | 1 | | 0998 | 0902 | 0806 | 0709 | 0613 | 0517 | 0420 | 0324 | 0227 | 0131 | 0035 | 9938 | 9842 | 9745 | 9649 | 9552 | 9456 | 281 | 1 | 5779 |
| 97 | 2 | | 1284 | 1187 | 1091 | 0994 | 0898 | 0801 | 0705 | 0608 | 0512 | 0415 | 0318 | 0222 | 0125 | 6029 | 9932 | 9835 | 9739 | 276 | 2 | 5492 |
| 95 | 3 | 9 | 1569 | 1472 | 1376 | 1279 | 1183 | 1086 | 0989 | 0893 | 0796 | 0699 | 0602 | 0506 | 0409 | 0312 | 0215 | 0116 | 9022 | 272 | 3 | 5206 |
| 94 | 4 | | 1854 | 1758 | 1661 | 1564 | 1467 | 1371 | 1274 | 1177 | 1090 | 0983 | 0886 | 0789 | 0692 | 0596 | 0499 | 0402 | 0305 | 267 | 4 | 4920 |
| 92 | 5 | 9 | 2140 | 2043 | 1946 | 1849 | 1752 | 1655 | 1558 | 1461 | 1364 | 1267 | 1170 | 1073 | 0976 | 0879 | 0782 | 0685 | 0588 | 262 | 5 | 2 4633 |
| 90 | 6 | | 2425 | 2328 | 2231 | 2134 | 2037 | 1940 | 1843 | 1746 | 1640 | 1551 | 1454 | 1357 | 1260 | 1162 | 1065 | 0968 | 0871 | 257 | 6 | 4347 |
| 89 | 7 | | 2710 | 2613 | 2516 | 2419 | 2322 | 2224 | 2127 | 2030 | 1933 | 1835 | 1738 | 1641 | 1543 | 1446 | 1340 | 1251 | 1154 | 253 | 7 | 4061 |
| 87 | 8 | | 2996 | 2898 | 2801 | 2704 | 2606 | 2509 | 2411 | 2314 | 2217 | 2119 | 2022 | 1924 | 1827 | 1729 | 1632 | 1534 | 1437 | 248 | 6 | 3774 |
| 85 | 9 | | 3281 | 3183 | 3086 | 2988 | 2891 | 2793 | 2696 | 2598 | 2501 | 2403 | 2306 | 2200 | 2110 | 2013 | 1915 | 1817 | 1720 | 243 | 9 | 3480 |
| 81 | 10 | 9 | 3566 | 3468 | 3372 | 3273 | 3176 | 3078 | 2980 | 2883 | 2785 | 2687 | 2589 | 2492 | 2394 | 2296 | 2198 | 2100 | 2003 | 238 | 19 | 2 3202 |
| 82 | 11 | | 3851 | 3754 | 3656 | 3558 | 3460 | 3362 | 3265 | 3167 | 3069 | 2971 | 2873 | 2775 | 2677 | 2579 | 2481 | 2383 | 2206 | 234 | 11 | 2916 |
| 80 | 12 | | 4137 | 4039 | 3941 | 3843 | 3745 | 3647 | 3549 | 3451 | 3353 | 3255 | 3157 | 3059 | 2961 | 2863 | 2765 | 2667 | 2568 | 229 | 12 | 2629 |
| 79 | 13 | | 4422 | 4324 | 1226 | 4128 | 4030 | 3931 | 3833 | 3735 | 3637 | 3539 | 3441 | 3343 | 3244 | 3146 | 3040 | 2950 | 2851 | 224 | 13 | 2342 |
| 77 | 14 | | 4707 | 4609 | 4510 | 4412 | 4314 | 4216 | 4118 | 4019 | 3921 | 3823 | 3724 | 3626 | 3528 | 3429 | 3331 | 3233 | 3134 | 219 | 14 | 2056 |
| 75 | 15 | 9 | 4992 | 4894 | 4795 | 4697 | 4599 | 4500 | 4402 | 4304 | 4205 | 4107 | 4008 | 3910 | 3811 | 3713 | 3614 | 3516 | 3417 | 214 | 15 | 2 1770 |
| 74 | 16 | | 5277 | 5179 | 5000 | 4982 | 4883 | 4785 | 1686 | 4588 | 4489 | 4390 | 4292 | 4193 | 4095 | 3996 | 3897 | 3799 | 3700 | 210 | 16 | 1484 |
| 72 | 17 | | 5562 | 5464 | 5365 | 5266 | 5168 | 5069 | 4970 | 4872 | 4773 | 4674 | 4576 | 4477 | 4378 | 4279 | 4180 | 4082 | 3983 | 205 | 17 | 1198 |
| 70 | 18 | | 6847 | 5749 | 5650 | 5551 | 5452 | 5354 | 5255 | 5156 | 5057 | 4958 | 4859 | 4760 | 4661 | 4562 | 4463 | 4364 | 4266 | 290 | 18 | 9912 |
| 69 | 19 | | 6133 | 6031 | 5935 | 5836 | 5737 | 5638 | 5539 | 5440 | 5341 | 5242 | 5143 | 5044 | 4945 | 4846 | 4747 | 4647 | 4548 | 195 | 19 | 9625 |
| 67 | 20 | 9 | 6410 | 6319 | 6220 | 6120 | 6021 | 5922 | 5823 | 5724 | 5625 | 5526 | 5427 | 5327 | 5228 | 5129 | 5030 | 4930 | 4831 | 191 | 20 | 2 0339 |
| 65 | 21 | | 6703 | 6604 | 6504 | 6405 | 6306 | 6207 | 6197 | 6008 | 5909 | 5809 | 5710 | 5611 | 5511 | 5412 | 5313 | 5213 | 5114 | 186 | 21 | 0053 |
| 64 | 22 | | 6988 | 6888 | 6789 | 6690 | 6590 | 6491 | 6392 | 6292 | 6193 | 6093 | 5994 | 5894 | 5795 | 5695 | 5596 | 5496 | 5397 | 181 | 22 | 1 9767 |
| 62 | 23 | | 7273 | 7173 | 7074 | 6974 | 6875 | 6775 | 6676 | 6576 | 6477 | 6377 | 6277 | 6178 | 6078 | 5978 | 5879 | 5779 | 5679 | 176 | 23 | 9481 |
| 60 | 24 | | 7558 | 7458 | 7359 | 7259 | 7159 | 7060 | 6960 | 6860 | 6760 | 6661 | 6561 | 6461 | 6361 | 6262 | 6162 | 6062 | 5962 | 172 | 24 | 9195 |
| 59 | 25 | 9 | 7843 | 7743 | 7643 | 7543 | 7444 | 7344 | 7244 | 7144 | 7044 | 6944 | 6844 | 6745 | 6645 | 6545 | 6445 | 6345 | 6245 | 167 | 25 | 1 8909 |
| 57 | 26 | | 9128 | 8028 | 7928 | 7828 | 7720 | 7628 | 7528 | 7428 | 7328 | 7228 | 7128 | 7028 | 6928 | 6828 | 6728 | 6628 | 6527 | 162 | 26 | 8623 |
| 55 | 27 | | 8413 | 8313 | 8213 | 8113 | 8012 | 7912 | 7812 | 7712 | 7612 | 7512 | 7412 | 7311 | 7211 | 7111 | 7011 | 6910 | 6810 | 157 | 27 | 8337 |
| 54 | 28 | | 0698 | 8598 | 8497 | 8397 | 8297 | 8197 | 8096 | 7996 | 7896 | 7795 | 7695 | 7595 | 7494 | 7394 | 7294 | 7193 | 7093 | 152 | 28 | 8050 |
| 62 | 29 | | 8983 | 8882 | 8782 | 8682 | 8581 | 8481 | 8380 | 8280 | 8180 | 0079 | 7979 | 7878 | 7778 | 7677 | 7576 | 7476 | 7375 | 146 | 29 | 7764 |
| 50 | 30 | 9 | 9268 | 9167 | 9067 | 8966 | 8866 | 8765 | 8664 | 8564 | 8463 | 8363 | 8262 | 8161 | 8061 | 7960 | 7859 | 7759 | 7658 | 143 | 30 | 1 7478 |
| 49 | 31 | | 9552 | 9452 | 9351 | 9251 | 9150 | 9049 | 8948 | 8848 | 8747 | 8646 | 8546 | 8445 | 8344 | 8243 | 8142 | 8041 | 7941 | 138 | 31 | 7192 |
| 47 | 32 | | 9837 | 9737 | 9636 | 9535 | 9434 | 9333 | 9232 | 9132 | 9031 | 8930 | 8829 | 8728 | 8627 | 8526 | 8425 | 8324 | 8223 | 133 | 32 | 6906 |
| 45 | 33 | 6 (9) | 0122 | 0021 | 9920 | 9819 | 9718 | 9617 | 9516 | 9415 | 9314 | 9213 | 9112 | 9011 | 8910 | 8809 | 8708 | 8607 | 8506 | 129 | 33 | 6621 |
| 44 | 34 | | 0407 | 0306 | 0205 | 0104 | 0003 | 9902 | 9800 | 9699 | 9598 | 9497 | 9396 | 9295 | 9193 | 9092 | 8991 | 8890 | 8788 | 124 | 34 | 6335 |
| 42 | 35 | 0 (9) | 0692 | 0591 | 0489 | 0388 | 0287 | 0186 | 0081 | 9983 | 9882 | 9780 | 9679 | 9578 | 9476 | 9375 | 9274 | 9172 | 9071 | 119 | 35 | 1 6049 |
| 40 | 36 | | 0977 | 0875 | 0774 | 0673 | 0571 | 0470 | 0368 | 0267 | 0165 | 0064 | 9963 | 9861 | 9760 | 9658 | 9556 | 9454 | 9363 | 114 | 36 | 5763 |
| 38 | 37 | | 1261 | 1160 | 1058 | 0957 | 0055 | 0754 | 0652 | 0551 | 0449 | 0348 | 0216 | 0144 | 0043 | 9941 | 9839 | 9737 | 9636 | 110 | 37 | 5477 |
| 37 | 38 | | 1516 | 1445 | 1343 | 1241 | 1140 | 1038 | 0936 | 0835 | 0733 | 0631 | 0529 | 0427 | 0326 | 0224 | 0122 | 0620 | 9918 | 105 | 30 | 5191 |
| 35 | 39 | 0 | 1831 | 1729 | 1627 | 1526 | 1424 | 1322 | 1220 | 1118 | 1016 | 0915 | 0813 | 0711 | 0609 | 0507 | 0405 | 0303 | 0201 | 100 | 39 | 4905 |
| 33 | 49 | 0 | 2116 | 2014 | 1912 | 1810 | 1708 | 1606 | 1504 | 1402 | 1300 | 1198 | 1096 | 0994 | 0892 | 0790 | 0687 | 0695 | 0483 | 95 | 40 | 1 4619 |
| 32 | 41 | | 2401 | 2298 | 2196 | 2094 | 1992 | 1890 | 1788 | 1686 | 1584 | 1481 | 1379 | 1277 | 1175 | 1072 | 0970 | 0868 | 0766 | 91 | 41 | 4333 |
| 30 | 42 | | 2686 | 2583 | 2481 | 2379 | 2276 | 2174 | 2072 | 1969 | 1067 | 1765 | 1662 | 1560 | 1458 | 1355 | 1253 | 1150 | 1048 | 06 | 42 | 4048 |
| 28 | 43 | | 2970 | 2867 | 2765 | 2663 | 2560 | 2458 | 2356 | 2253 | 2151 | 2048 | 1946 | 1843 | 1741 | 1638 | 1536 | 1433 | 1330 | 91 | 43 | 3762 |
| 27 | 44 | | 3255 | 3152 | 3060 | 2947 | 2845 | 2742 | 2639 | 2537 | 2434 | 2332 | 2229 | 2126 | 2024 | 1921 | 1818 | 1715 | 1613 | 76 | 44 | 3476 |
| 26 | 45 | 9 | 3539 | 3437 | 3334 | 3231 | 3129 | 3026 | 2923 | 2820 | 2718 | 2616 | 2512 | 2409 | 2307 | 2204 | 2101 | 1998 | 1895 | 71 | 46 | 1 3190 |
| 23 | 46 | | 3824 | 3721 | 3618 | 3515 | 3413 | 3218 | 3297 | 3164 | 3001 | 2898 | 2795 | 2692 | 2589 | 2486 | 2384 | 2280 | 2177 | 67 | 46 | 2904 |
| 22 | 47 | | 4109 | 4006 | 3993 | 3800 | 3697 | 3594 | 3491 | 3388 | 3285 | 3182 | 3079 | 2975 | 2872 | 2769 | 2666 | 2563 | 2460 | 62 | 47 | 2619 |
| 20 | 48 | | 4393 | 4290 | 4187 | 4084 | 3981 | 3878 | 3774 | 3671 | 3568 | 3466 | 3362 | 3259 | 3155 | 3052 | 2949 | 2845 | 2742 | 57 | 48 | 2333 |
| 18 | 49 | | 4678 | 4574 | 4471 | 4368 | 4265 | 4162 | 4058 | 3955 | 3952 | 3748 | 3645 | 3541 | 3438 | 3335 | 3231 | 3128 | 3024 | 52 | 49 | 2047 |
| 17 | 50 | 0 | 4962 | 4859 | 4756 | 4652 | 4649 | 4445 | 4342 | 4238 | 4135 | 4031 | 3928 | 3824 | 3721 | 3617 | 3514 | 3410 | 3307 | 48 | 50 | 1 1762 |
| 15 | 51 | | 5247 | 6143 | 5040 | 4936 | 4833 | 4729 | 4626 | 4622 | 4418 | 4315 | 4211 | 4107 | 4004 | 3900 | 3796 | 3693 | 3589 | 43 | 51 | 1476 |
| 13 | 52 | | 5531 | 5427 | 5324 | 5220 | 5117 | 5913 | 4909 | 4906 | 4702 | 4598 | 4494 | 4390 | 4287 | 4183 | 4079 | 3975 | 3871 | 38 | 52 | 1196 |
| 12 | 53 | | 5816 | 5712 | 5698 | 5504 | 5401 | 5297 | 5193 | 5089 | 4985 | 4881 | 4777 | 4673 | 4569 | 4465 | 4361 | 4257 | 4153 | 33 | 53 | 0995 |
| 10 | 54 | | 6100 | 5996 | 5892 | 5789 | 5685 | 5591 | 5477 | 5373 | 5268 | 5164 | 5069 | 4956 | 4952 | 4748 | 4644 | 4540 | 4436 | 29 | 54 | 0619 |
| 8 | 55 | 9 | 6386 | 6281 | 6177 | 6073 | 5969 | 5864 | 5760 | 5656 | 5552 | 5448 | 5343 | 5239 | 5135 | 5031 | 4926 | 4822 | 4718 | 24 | 55 | 1 0333 |
| 7 | 56 | | 6669 | 6566 | 6461 | 6357 | 6252 | 6148 | 6044 | 5939 | 5835 | 5731 | 5626 | 5522 | 5419 | 5313 | 5209 | 5104 | 5000 | 19 | 56 | 0048 |
| 6 | 57 | | 6954 | 6849 | 6745 | 6641 | 6536 | 6432 | 6327 | 6223 | 6118 | 6014 | 5909 | 5805 | 5700 | 5596 | 5491 | 5387 | 5282 | 14 | 57 | 6 9762 |
| 3 | 58 | | 7238 | 7134 | 7029 | 6925 | 6820 | 6716 | 6611 | 6506 | 6402 | 6297 | 6192 | 6088 | 5983 | 5878 | 5774 | 5669 | 5564 | 9 | 58 | 9477 |
| 2 | 59 | | 7593 | 7410 | 7313 | 7209 | 7194 | 6999 | 5895 | 6790 | 6685 | 6580 | 6475 | 6371 | 5266 | 6161 | 6056 | 5951 | 5846 | 5 | 59 | 9191 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 101° | Argumento Auxiliar. | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 101° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | 0' | 8 | 9076 | 0980 | 8883 | 8787 | 8690 | 8594 | 8497 | 8401 | 8304 | 8208 | 8111 | 8314 | 7918 | 7021 | 7724 | 7628 | 7531 | 0 | 0' | 9 0809 |
| 99 | 1 | | 9359 | 9262 | 9166 | 9069 | 8973 | 8876 | 8779 | 8683 | 8586 | 8489 | 8392 | 8296 | 8199 | 8102 | 8005 | 7909 | 7812 | 5 | 1 | 1095 |
| 98 | 2 | | 9642 | 9545 | 9448 | 9352 | 9255 | 9158 | 9061 | 8964 | 8868 | 8771 | 8671 | 8577 | 8480 | 8383 | 8286 | 8189 | 8092 | 9 | 2 | 1380 |
| 06 | 3 | | 9925 | 9828 | 9731 | 9634 | 9537 | 9440 | 9343 | 9240 | 9149 | 9052 | 8955 | 8858 | 8761 | 8664 | 8567 | 8470 | 8373 | 14 | 3 | 1606 |
| 94 | 4 | 9 (8) | 0208 | 0111 | 0014 | 9917 | 9820 | 9722 | 9625 | 9528 | 9431 | 9334 | 9237 | 9140 | 9042 | 8945 | 8818 | 8751 | 8654 | 19 | 4 | 1951 |
| 93 | 5 | 9 (8) | 0491 | 0393 | 0290 | 0199 | 0102 | 0005 | 9907 | 9810 | 9713 | 9616 | 9518 | 9421 | 9324 | 9226 | 9129 | 9032 | 8934 | 21 | 5 | 9 2237 |
| 91 | 6 | | 0773 | 0676 | 0579 | 0481 | 0384 | 0287 | 0189 | 0092 | 9995 | 9897 | 9800 | 9702 | 9605 | 9507 | 9410 | 9312 | 9215 | 28 | 6 | 2522 |
| 89 | 7 | | 1056 | 0959 | 0861 | 0764 | 0666 | 0569 | 0471 | 0374 | 0276 | 0179 | 0081 | 9983 | 9886 | 9788 | 9691 | 9593 | 9495 | 33 | 7 | 2807 |
| 88 | 8 | | 1339 | 1241 | 1144 | 1046 | 0949 | 0851 | 0753 | 0056 | 0558 | 0460 | 0302 | 0205 | 0167 | 0069 | 9971 | 9874 | 9776 | 38 | 8 | 3093 |
| 86 | 9 | 9 | 1022 | 1524 | 1426 | 1329 | 1231 | 1133 | 1035 | 0937 | 0839 | 0742 | 0644 | 0546 | 0448 | 0350 | 0252 | 0154 | 0056 | 43 | 9 | 3378 |
| 84 | 10 | 9 | 1905 | 1807 | 1709 | 1611 | 1513 | 1415 | 1317 | 1219 | 1121 | 1023 | 0925 | 0827 | 0729 | 0631 | 0533 | 0435 | 0337 | 47 | 10 | 9 3601 |
| 83 | 11 | | 2187 | 2089 | 1991 | 1893 | 1795 | 1697 | 1599 | 1501 | 1403 | 1305 | 1207 | 1108 | 1010 | 0912 | 0814 | 0715 | 0617 | 52 | 11 | 3949 |
| 81 | 12 | | 2470 | 2372 | 2274 | 2176 | 2077 | 1979 | 1881 | 1783 | 1684 | 1580 | 1488 | 1390 | 1291 | 1193 | 1094 | 0996 | 0898 | 57 | 12 | 4234 |
| 79 | 13 | | 2753 | 2655 | 2556 | 2458 | 2360 | 2261 | 2163 | 2061 | 1906 | 1868 | 1769 | 1671 | 1572 | 1474 | 1375 | 1277 | 1178 | 02 | 13 | 4520 |
| 77 | 14 | | 3030 | 2937 | 2839 | 2740 | 2642 | 2543 | 2445 | 2346 | 2248 | 2149 | 2050 | 1952 | 1853 | 1755 | 1056 | 1557 | 1459 | 66 | 14 | 4805 |
| 76 | 15 | 9 | 3318 | 3220 | 3121 | 3023 | 2924 | 2825 | 2727 | 2628 | 2529 | 2430 | 2332 | 2233 | 2134 | 2035 | 1937 | 1838 | 1739 | 71 | 15 | 9 5090 |
| 74 | 16 | | 3601 | 3502 | 3404 | 3305 | 3206 | 3107 | 3008 | 2910 | 2811 | 2712 | 2613 | 2514 | 2415 | 2310 | 2217 | 2118 | 2019 | 76 | 16 | 5376 |
| 72 | 17 | | 3884 | 3785 | 3686 | 3587 | 3488 | 3389 | 3290 | 3191 | 3092 | 2993 | 2894 | 2795 | 2696 | 2597 | 2498 | 2399 | 2300 | 81 | 17 | 5661 |
| 71 | 18 | | 4166 | 4067 | 3968 | 3869 | 3770 | 3671 | 3572 | 3473 | 3374 | 3275 | 3175 | 3070 | 2977 | 2878 | 2778 | 2679 | 2580 | 85 | 18 | 5946 |
| 69 | 19 | | 4449 | 4350 | 4251 | 4152 | 4052 | 3953 | 3854 | 3755 | 3055 | 3556 | 3457 | 3357 | 3258 | 3159 | 3059 | 2960 | 2860 | 90 | 19 | 6231 |
| 67 | 20 | 9 | 4732 | 4632 | 4533 | 4434 | 4334 | 4235 | 4136 | 4030 | 3937 | 3838 | 3738 | 3638 | 3539 | 3439 | 3340 | 3240 | 3141 | 95 | 20 | 9 6517 |
| 60 | 21 | | 5014 | 4915 | 4815 | 4716 | 4016 | 4517 | 4417 | 4318 | 4218 | 4119 | 4019 | 3919 | 3820 | 3720 | 3620 | 3521 | 3421 | 100 | 21 | 6802 |
| 64 | 22 | | 5297 | 5197 | 5098 | 4998 | 4898 | 4799 | 4699 | 4599 | 4500 | 4400 | 4300 | 4200 | 4101 | 4001 | 3901 | 3801 | 3701 | 104 | 22 | 7087 |
| 62 | 23 | | 5580 | 5480 | 5380 | 5280 | 5180 | 5081 | 4981 | 4881 | 4781 | 4681 | 4581 | 4481 | 4381 | 4281 | 4182 | 4082 | 3982 | 109 | 23 | 7372 |
| 61 | 24 | | 5862 | 5762 | 5662 | 5562 | 5462 | 5303 | 5263 | 5163 | 5063 | 4903 | 4862 | 4762 | 4602 | 4562 | 4462 | 4362 | 4262 | 114 | 24 | 7657 |
| 59 | 25 | 9 | 6145 | 6045 | 5945 | 5845 | 5744 | 5645 | 5544 | 5444 | 5344 | 5244 | 5144 | 5043 | 4943 | 4843 | 4743 | 4042 | 4542 | 119 | 25 | 9 7942 |
| 57 | 26 | | 6427 | 6327 | 6227 | 6127 | 6026 | 5926 | 5826 | 5720 | 5025 | 5525 | 5425 | 5324 | 5224 | 5124 | 5023 | 4923 | 4822 | 123 | 26 | 8228 |
| 56 | 27 | | 6710 | 6609 | 6509 | 0409 | 6308 | 6208 | 0108 | 6007 | 5907 | 5806 | 5706 | 5605 | 5505 | 5404 | 5304 | 5203 | 5103 | 128 | 27 | 8513 |
| 54 | 28 | | 6992 | 0892 | 6791 | 6691 | 6590 | 6490 | 6389 | 6289 | 6188 | 6087 | 5987 | 5886 | 5786 | 5685 | 5584 | 5483 | 5383 | 133 | 28 | 8798 |
| 52 | 29 | | 7275 | 7174 | 7074 | 6973 | 6872 | 6771 | 6071 | 6570 | 6469 | 6309 | 6268 | 6167 | 6066 | 5965 | 5865 | 5764 | 5663 | 138 | 29 | 9083 |
| 51 | 30 | 9 | 7557 | 7456 | 7356 | 7255 | 7154 | 7053 | 6952 | 6852 | 6751 | 6650 | 0549 | 6448 | 6347 | 6246 | 6145 | 6044 | 5943 | 142 | 30 | 9 9368 |
| 49 | 31 | | 7840 | 7739 | 7638 | 7537 | 7430 | 7335 | 7234 | 7133 | 7032 | 6931 | 6830 | 6729 | 6628 | 6527 | 0425 | 6324 | 0223 | 147 | 31 | 9653 |
| 47 | 32 | | 8122 | 8021 | 7920 | 7819 | 7718 | 7617 | 7516 | 7414 | 7313 | 7212 | 7111 | 7010 | 6908 | 0807 | 6700 | 6605 | 0503 | 152 | 32 | 9938 |
| 40 | 33 | | 8404 | 8303 | 8202 | 8101 | 8000 | 7898 | 7797 | 7696 | 7595 | 7493 | 7392 | 7290 | 7189 | 7088 | 6986 | 6885 | 6783 | 157 | 33 | 0 0223 |
| 44 | 34 | | 8687 | 8586 | 8484 | 8383 | 8281 | 8180 | 8079 | 7977 | 7876 | 7774 | 7673 | 7571 | 7470 | 7368 | 7267 | 7165 | 7064 | 161 | 34 | 0508 |
| 42 | 35 | 9 | 8969 | 8868 | 8760 | 8665 | 8563 | 8462 | 8360 | 8258 | 8157 | 8055 | 7954 | 7852 | 7750 | 7649 | 7547 | 7445 | 7344 | 166 | 35 | 0 0793 |
| 40 | 36 | | 9252 | 9150 | 9048 | 8947 | 8845 | 8743 | 8642 | 8540 | 8438 | 8336 | 8235 | 8133 | 8031 | 7929 | 7827 | 7726 | 7624 | 171 | 36 | 1078 |
| 39 | 37 | | 9534 | 9432 | 9330 | 9229 | 9127 | 9025 | 8923 | 8821 | 8719 | 8617 | 8516 | 8114 | 8312 | 8210 | 8108 | 8000 | 7904 | 176 | 37 | 1363 |
| 37 | 38 | | 9816 | 9714 | 9613 | 9511 | 9409 | 9307 | 9205 | 9103 | 9001 | 8899 | 8796 | 8694 | 8592 | 8190 | 8388 | 8286 | 8184 | 180 | 38 | 1618 |
| 35 | 39 | 0 (9) | 0099 | 9997 | 9895 | 9792 | 9091 | 9588 | 9486 | 9384 | 9282 | 9180 | 9077 | 8975 | 8873 | 8771 | 8068 | 8566 | 8464 | 185 | 39 | 1933 |
| 34 | 40 | 0 (9) | 0381 | 0279 | 0177 | 0074 | 9972 | 9870 | 9767 | 9665 | 9563 | 9461 | 9358 | 9256 | 9153 | 9051 | 8949 | 8816 | 8744 | 190 | 40 | 0 2218 |
| 32 | 41 | | 0663 | 0561 | 0459 | 0356 | 0254 | 0151 | 0019 | 9946 | 9844 | 9742 | 9639 | 9537 | 9434 | 9331 | 9229 | 9125 | 9024 | 195 | 41 | 2502 |
| 30 | 42 | | 0945 | 0843 | 0741 | 0638 | 0535 | 0433 | 0330 | 0228 | 0125 | 0023 | 9920 | 9817 | 9715 | 9612 | 9509 | 9406 | 9304 | 199 | 42 | 2787 |
| 29 | 43 | | 1228 | 1125 | 1022 | 0920 | 0817 | 0714 | 0612 | 0509 | 0406 | 0303 | 0201 | 0098 | 9995 | 9892 | 9789 | 9686 | 9584 | 204 | 43 | 3072 |
| 27 | 44 | | 1510 | 1407 | 1304 | 1202 | 1099 | 0996 | 0893 | 0790 | 0087 | 0584 | 0481 | 0379 | 0276 | 0173 | 0070 | 9967 | 9864 | 209 | 44 | 3357 |
| 25 | 45 | 0 | 1792 | 1689 | 1586 | 1483 | 1380 | 1277 | 1174 | 1071 | 0968 | 0865 | 0702 | 0659 | 0556 | 0153 | 0350 | 0217 | 0143 | 214 | 45 | 0 3642 |
| 24 | 46 | | 2074 | 1971 | 1868 | 1765 | 1062 | 1559 | 1456 | 1353 | 1249 | 1146 | 1043 | 0940 | 0836 | 0733 | 0030 | 0527 | 0423 | 218 | 46 | 3927 |
| 22 | 47 | | 2357 | 2253 | 2150 | 2047 | 1944 | 1840 | 1737 | 1634 | 1530 | 1427 | 1323 | 1220 | 1117 | 1014 | 0910 | 0807 | 0703 | 223 | 47 | 4211 |
| 20 | 48 | | 2639 | 2535 | 2432 | 2329 | 2225 | 2122 | 2018 | 1915 | 1011 | 1708 | 1604 | 1501 | 1397 | 1294 | 1190 | 1087 | 0983 | 228 | 48 | 4496 |
| 19 | 49 | | 2921 | 2817 | 2714 | 2610 | 2507 | 2403 | 2300 | 2196 | 2092 | 1989 | 1885 | 1782 | 1678 | 1574 | 1470 | 1367 | 1263 | 233 | 49 | 4781 |
| 17 | 50 | 0 | 3203 | 3099 | 2996 | 2092 | 2788 | 2685 | 2581 | 2477 | 2373 | 2270 | 2106 | 2002 | 1958 | 1854 | 1751 | 1047 | 1543 | 237 | 50 | 0 5005 |
| 15 | 51 | | 3485 | 3381 | 3277 | 3174 | 3070 | 2966 | 2862 | 2758 | 2654 | 2550 | 2447 | 2343 | 2239 | 2135 | 2031 | 1927 | 1823 | 242 | 51 | 5350 |
| 14 | 52 | | 3767 | 3663 | 3559 | 3455 | 3351 | 3247 | 3143 | 3039 | 2935 | 2831 | 2727 | 2623 | 2519 | 2415 | 2311 | 2207 | 2102 | 247 | 52 | 5035 |
| 12 | 53 | | 4049 | 3945 | 3841 | 3737 | 3032 | 3529 | 3425 | 3320 | 3210 | 3112 | 3008 | 2904 | 2799 | 2095 | 2591 | 2486 | 2382 | 252 | 53 | 5920 |
| 10 | 54 | | 4331 | 4227 | 4123 | 4018 | 3914 | 3810 | 3706 | 3602 | 3497 | 3393 | 3288 | 3184 | 3080 | 2975 | 2871 | 2706 | 2602 | 250 | 54 | 6204 |
| 8 | 55 | 0 | 4613 | 1509 | 4405 | 4300 | 4196 | 4091 | 3987 | 3883 | 3778 | 3674 | 3569 | 3165 | 3360 | 3255 | 3151 | 3040 | 2942 | 261 | 55 | 0 6489 |
| 7 | 56 | | 4895 | 4791 | 4686 | 4582 | 4477 | 4373 | 4268 | 4164 | 4059 | 3954 | 3850 | 3745 | 3040 | 3536 | 3431 | 3326 | 3221 | 266 | 50 | 0773 |
| 5 | 57 | | 5177 | 5073 | 4908 | 4803 | 1759 | 4654 | 4549 | 4445 | 4340 | 4235 | 4130 | 4025 | 3921 | 3810 | 3711 | 3006 | 3501 | 271 | 57 | 5058 |
| 3 | 58 | | 5459 | 5355 | 5250 | 5145 | 5040 | 4935 | 4830 | 4726 | 4621 | 4516 | 4411 | 4306 | 4201 | 4096 | 3991 | 3886 | 3781 | 275 | 50 | 7343 |
| 2 | 59 | | 5741 | 5637 | 5532 | 5427 | 5322 | 5217 | 5112 | 5007 | 4901 | 4790 | 4691 | 4586 | 4481 | 4370 | 4271 | 4166 | 4000 | 280 | 59 | 7627 |

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**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 102° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Núm. II para la suma corregida de alturas. Partes para segundos. | 102° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 0' | 0 | 7807 | 7702 | 7597 | 7493 | 7388 | 7283 | 7178 | 7073 | 6968 | 6863 | 6758 | 6653 | 6548 | 6444 | 6338 | 6234 | 6128 | 285 | 0' | 0 8905 |
| 108 | 1 | | 8091 | 7986 | 7881 | 7777 | 7672 | 7567 | 7462 | 7357 | 7252 | 7146 | 7041 | 6936 | 6831 | 6726 | 6621 | 6516 | 6110 | 280 | 1 | 8620 |
| 106 | 2 | | 8376 | 8271 | 8166 | 8060 | 7955 | 7850 | 7745 | 7640 | 7535 | 7430 | 7324 | 7219 | 7114 | 7008 | 6903 | 6798 | 6693 | 275 | 2 | 8334 |
| 104 | 3 | | 8660 | 8555 | 8450 | 8344 | 8239 | 8134 | 8029 | 7923 | 7818 | 7713 | 7607 | 7502 | 7396 | 7291 | 7186 | 7080 | 6973 | 271 | 3 | 8049 |
| 102 | 4 | | 8944 | 8839 | 8734 | 8628 | 8523 | 8417 | 8312 | 8207 | 8101 | 7996 | 7890 | 7785 | 7679 | 7573 | 7468 | 7362 | 7257 | 266 | 4 | 7763 |
| 100 | 5 | 0 | 9229 | 9123 | 9018 | 8912 | 8807 | 8701 | 8595 | 8490 | 8384 | 8279 | 8173 | 8067 | 7962 | 7856 | 7760 | 7644 | 7539 | 261 | 5 | 0 7478 |
| 99 | 6 | | 9513 | 9407 | 9302 | 9196 | 9090 | 8985 | 8879 | 8773 | 8667 | 8562 | 8456 | 8350 | 8244 | 8138 | 8032 | 7927 | 7821 | 256 | 6 | 7193 |
| 97 | 7 | | 9797 | 9692 | 9586 | 9480 | 9374 | 9268 | 9162 | 9056 | 8950 | 8845 | 8739 | 8633 | 8527 | 8421 | 8315 | 8209 | 8103 | 252 | 7 | 6907 |
| 95 | 8 | 1 (0) | 0081 | 9976 | 9870 | 9764 | 9658 | 9552 | 9446 | 9340 | 9231 | 9128 | 9021 | 8916 | 8809 | 8703 | 8597 | 8491 | 8385 | 247 | 8 | 6622 |
| 93 | 9 | | 0366 | 0260 | 0154 | 0048 | 9941 | 9835 | 9729 | 9623 | 9517 | 9411 | 9304 | 9128 | 9092 | 8985 | 8879 | 8773 | 8667 | 949 | 2 | 6336 |
| 91 | 10 | 1 (0) | 0650 | 0544 | 0438 | 0331 | 0925 | 0119 | 0012 | 9906 | 9800 | 9693 | 9587 | 9481 | 9374 | 9268 | 9161 | 9055 | 8948 | 237 | 10 | 0 6051 |
| 89 | 11 | | 0934 | 0828 | 0721 | 0615 | 0509 | 0402 | 0296 | 0189 | 0083 | 9976 | 9870 | 9769 | 9657 | 9550 | 9444 | 9337 | 9230 | 233 | 11 | 5766 |
| 88 | 12 | | 1218 | 1112 | 1005 | 0899 | 0792 | 0686 | 0579 | 0472 | 0366 | 0259 | 0153 | 0046 | 9939 | 9832 | 9726 | 9619 | 9512 | 228 | 12 | 5480 |
| 86 | 13 | | 1502 | 1396 | 1289 | 1183 | 1076 | 0969 | 0862 | 0756 | 0649 | 0542 | 0435 | 0328 | 0222 | 0115 | 0008 | 9901 | 9794 | 223 | 13 | 5195 |
| 84 | 14 | 1 | 1787 | 1680 | 1573 | 1466 | 1359 | 1253 | 1146 | 1039 | 0932 | 0825 | 0718 | 0611 | 0504 | 0397 | 0290 | 0183 | 0076 | 218 | 14 | 4910 |
| 82 | 15 | 1 | 2071 | 1964 | 1857 | 1750 | 1643 | 1536 | 1429 | 1322 | 1215 | 1108 | 1001 | 0894 | 0786 | 0679 | 0572 | 0465 | 0358 | 214 | 15 | 0 4624 |
| 80 | 16 | | 2355 | 2248 | 2141 | 2034 | 1926 | 1819 | 1712 | 1605 | 1498 | 1391 | 1283 | 1176 | 1069 | 0962 | 0854 | 0747 | 0640 | 209 | 16 | 4339 |
| 78 | 17 | | 9639 | 2532 | 2425 | 2317 | 2210 | 2103 | 1995 | 1888 | 1781 | 1673 | 1566 | 1459 | 1351 | 1244 | 1136 | 1029 | 0921 | 204 | 17 | 4054 |
| 77 | 18 | | 2923 | 2816 | 2708 | 2601 | 2494 | 2386 | 2279 | 2171 | 2064 | 1956 | 1849 | 1741 | 1634 | 1526 | 1418 | 1311 | 1203 | 199 | 18 | 3769 |
| 75 | 19 | | 3207 | 3100 | 2992 | 2885 | 2777 | 2669 | 2562 | 2454 | 2347 | 2239 | 2131 | 2024 | 1916 | 1808 | 1700 | 1593 | 1485 | 195 | 19 | 3483 |
| 73 | 20 | 1 | 3491 | 3384 | 3276 | 3168 | 3061 | 2953 | 2845 | 2737 | 2629 | 2522 | 2414 | 2306 | 2198 | 2090 | 1982 | 1875 | 1767 | 190 | 20 | 0 3198 |
| 71 | 21 | | 3775 | 3667 | 3560 | 3452 | 3344 | 3236 | 3128 | 3020 | 2912 | 2804 | 2696 | 2589 | 2181 | 2373 | 2264 | 2157 | 2048 | 185 | 21 | 2913 |
| 69 | 92 | | 4059 | 3951 | 3843 | 3735 | 3627 | 3519 | 3411 | 3303 | 3195 | 3087 | 2979 | 2871 | 2763 | 2655 | 2546 | 2438 | 2330 | 180 | 22 | 2698 |
| 67 | 23 | | 4313 | 4235 | 4127 | 4019 | 3911 | 3803 | 3695 | 3586 | 3178 | 3370 | 3262 | 3153 | 3045 | 2937 | 2828 | 2720 | 2612 | 176 | 23 | 2343 |
| 66 | 24 | | 4627 | 4519 | 4411 | 4302 | 4194 | 4086 | 3978 | 3869 | 3761 | 3653 | 3544 | 3436 | 3327 | 3219 | 3110 | 3002 | 2894 | 171 | 24 | 9058 |
| 64 | 25 | 1 | 4911 | 4803 | 4694 | 4586 | 4178 | 1369 | 4261 | 4162 | 4044 | 3935 | 3826 | 3718 | 3609 | 3501 | 3392 | 3284 | 3175 | 166 | 25 | 0 1772 |
| 62 | 26 | | 6195 | 5087 | 4978 | 4870 | 4761 | 4652 | 4544 | 4435 | 4327 | 4218 | 4109 | 4000 | 3892 | 3783 | 3674 | 3566 | 3457 | 161 | 26 | 1487 |
| 60 | 27 | | 5479 | 5370 | 5262 | 5153 | 5044 | 4936 | 4827 | 4718 | 4609 | 4500 | 4392 | 4283 | 4174 | 4065 | 3956 | 3847 | 3738 | 157 | 27 | 1202 |
| 58 | 98 | | 5763 | 5654 | 5545 | 5436 | 6328 | 5219 | 5110 | 5001 | 4892 | 4783 | 4674 | 4565 | 4466 | 4347 | 4238 | 4129 | 4020 | 152 | 28 | 0917 |
| 57 | 99 | | 6047 | 5938 | 5829 | 6720 | 5611 | 5502 | 5393 | 5284 | 5175 | 5066 | 4967 | 4848 | 4738 | 4629 | 4520 | 4411 | 4302 | 147 | 29 | 0632 |
| 55 | 30 | 1 | 6331 | 6221 | 6112 | 6003 | 5891 | 6785 | 5676 | 5567 | 5457 | 5348 | 5239 | 5130 | 5021 | 4911 | 4802 | 4693 | 4583 | 142 | 30 | 0 0347 |
| 53 | 31 | | 6614 | 6505 | 6396 | 6287 | 6177 | 6068 | 5959 | 5849 | 5740 | 5631 | 5521 | 5412 | 5303 | 5193 | 5084 | 4974 | 4865 | 138 | 31 | 0062 |
| 51 | 32 | | 6898 | 6789 | 6680 | 6570 | 6461 | 6351 | 6242 | 6132 | 6023 | 5913 | 5804 | 5694 | 5585 | 5475 | 5366 | 5256 | 5146 | 133 | 32 | 9 9777 |
| 49 | 33 | | 7182 | 7073 | 6963 | 6854 | 6744 | 6634 | 6525 | 6416 | 6306 | 6196 | 6086 | 5976 | 5867 | 5767 | 5647 | 5538 | 5428 | 128 | 33 | 9492 |
| 47 | 34 | | 7466 | 7356 | 7947 | 7137 | 7027 | 6917 | 6808 | 6698 | 6588 | 6478 | 6368 | 6259 | 6149 | 6039 | 5929 | 5819 | 5709 | 123 | 34 | 9207 |
| 46 | 35 | 1 | 7750 | 7640 | 7530 | 7490 | 7310 | 7201 | 7091 | 6981 | 6871 | 6761 | 6651 | 6541 | 6431 | 6321 | 6211 | 6100 | 5991 | 119 | 35 | 9 8922 |
| 44 | 36 | | 8033 | 7923 | 7813 | 7704 | 7594 | 7484 | 7374 | 7263 | 7153 | 7043 | 6933 | 6823 | 6713 | 6603 | 6493 | 6382 | 6972 | 114 | 36 | 8637 |
| 42 | 37 | | 8317 | 8207 | 8097 | 7987 | 7877 | 7767 | 7656 | 7546 | 7436 | 7326 | 7216 | 7105 | 6995 | 6885 | 6774 | 6664 | 6554 | 109 | 37 | 8352 |
| 40 | 38 | | 8601 | 8491 | 8380 | 8270 | 8160 | 8049 | 7939 | 7829 | 7719 | 7608 | 7498 | 7388 | 7277 | 7167 | 7056 | 6946 | 6835 | 104 | 38 | 8067 |
| 38 | 39 | | 8884 | 8774 | 8664 | 8653 | 8443 | 8332 | 8222 | 8112 | 8001 | 7891 | 7780 | 7670 | 7559 | 7448 | 7338 | 7227 | 7116 | 100 | 39 | 7782 |
| 36 | 40 | 1 | 9168 | 9058 | 8947 | 8837 | 8726 | 8615 | 8605 | 8394 | 8284 | 8173 | 8062 | 7952 | 7841 | 7730 | 7619 | 7509 | 7398 | 95 | 40 | 9 7498 |
| 35 | 41 | | 9452 | 9341 | 9230 | 9120 | 9009 | 8898 | 8788 | 8677 | 8566 | 8455 | 8345 | 8234 | 8123 | 8012 | 7901 | 7790 | 7679 | 90 | 41 | 7213 |
| 33 | 42 | | 9736 | 9625 | 9514 | 9403 | 9292 | 9181 | 9070 | 8960 | 8849 | 8738 | 8627 | 8516 | 8405 | 8294 | 8183 | 8072 | 7961 | 85 | 42 | 6928 |
| 31 | 43 | 2 (1) | 0019 | 9908 | 9797 | 9686 | 9576 | 9464 | 9353 | 9242 | 9131 | 9020 | 8909 | 8798 | 8687 | 8575 | 8464 | 8353 | 8242 | 81 | 43 | 6643 |
| 29 | 44 | | 0303 | 0199 | 0081 | 9969 | 9858 | 9747 | 9636 | 9525 | 9413 | 9309 | 9191 | 9080 | 8968 | 8857 | 8746 | 8635 | 8523 | 76 | 44 | 6358 |
| 27 | 46 | 2 (1) | 0586 | 0476 | 0364 | 0253 | 0141 | 0030 | 9919 | 9807 | 9696 | 9585 | 9473 | 9362 | 9250 | 9139 | 9028 | 8916 | 8804 | 71 | 45 | 9 6073 |
| 26 | 46 | | 0870 | 0759 | 0647 | 0636 | 0424 | 0313 | 0201 | 0090 | 9978 | 9867 | 2755 | 9644 | 9532 | 9421 | 9309 | 9197 | 9086 | 66 | 46 | 6789 |
| 21 | 47 | | 1153 | 1042 | 0930 | 0819 | 0707 | 0596 | 0484 | 0372 | 0261 | 0149 | 0037 | 9926 | 9814 | 9702 | 9691 | 9479 | 9367 | 62 | 47 | 6504 |
| 22 | 48 | | 1437 | 1325 | 1214 | 1102 | 0990 | 0878 | 0767 | 0655 | 0543 | 0431 | 0320 | 0208 | 0096 | 9984 | 9872 | 9760 | 9648 | 57 | 48 | 5219 |
| 20 | 49 | | 1720 | 1608 | 1497 | 1385 | 1273 | 1161 | 1049 | 0937 | 0826 | 0714 | 0602 | 0490 | 0378 | 0266 | 0154 | 0042 | 9929 | 52 | 49 | 4935 |
| 18 | 50 | 2 | 2004 | 1892 | 1780 | 1668 | 1556 | 1444 | 1332 | 1220 | 1108 | 0996 | 0884 | 0772 | 0659 | 0547 | 0435 | 0323 | 0211 | 47 | 60 | 9 4650 |
| 16 | 51 | | 2287 | 2175 | 2063 | 1951 | 1839 | 1727 | 1616 | 1509 | 1390 | 1278 | 1166 | 1063 | 0941 | 0899 | 0717 | 0604 | 0492 | 43 | 51 | 4365 |
| 15 | 52 | | 2571 | 2459 | 2346 | 2234 | 2122 | 2010 | 1897 | 1785 | 1673 | 1560 | 1448 | 1335 | 1293 | 1110 | 0998 | 0885 | 0773 | 38 | 52 | 4080 |
| 13 | 53 | | 2854 | 2742 | 2629 | 2517 | 2405 | 2292 | 2180 | 2067 | 1955 | 1842 | 1730 | 1617 | 1505 | 1392 | 1279 | 1167 | 1054 | 33 | 53 | 3796 |
| 11 | 54 | | 3138 | 3025 | 2913 | 2800 | 9688 | 2575 | 2462 | 2350 | 2237 | 2124 | 2012 | 1899 | 1786 | 1674 | 1561 | 1448 | 1335 | 28 | 54 | 3511 |
| 9 | 55 | 2 | 3421 | 3308 | 3196 | 3083 | 2970 | 9858 | 2745 | 2632 | 2619 | 2407 | 2294 | 2181 | 2068 | 1956 | 1842 | 1729 | 1616 | 24 | 55 | 2 3227 |
| 7 | 56 | | 3704 | 3592 | 3479 | 3366 | 3253 | 3110 | 3027 | 2914 | 2802 | 2689 | 2576 | 2463 | 2350 | 2237 | 2124 | 2011 | 1897 | 19 | 56 | 2942 |
| 6 | 57 | | 3988 | 3875 | 3762 | 3649 | 3536 | 3423 | 3310 | 3197 | 3084 | 2971 | 2858 | 9745 | 2631 | 2618 | 9405 | 2992 | 2179 | 14 | 57 | 2657 |
| 4 | 58 | | 4271 | 4158 | 4045 | 3932 | 3819 | 3706 | 3592 | 3479 | 3366 | 3253 | 3139 | 3026 | 2913 | 2800 | 2687 | 2573 | 2460 | 9 | 58 | 2373 |
| 2 | 59 | | 4555 | 4441 | 4328 | 4215 | 4101 | 3988 | 3876 | 3761 | 3648 | 3535 | 3421 | 3308 | 3196 | 3081 | 2968 | 2854 | 2741 | 5 | 59 | 2088 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida. |
|---|---|

| Partes para segundos del Arg. Auxiliar. | 102° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 102° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 0' | 0 6023 | 5918 | 5813 | 5708 | 5603 | 5498 | 5323 | 5287 | 5182 | 5077 | 4972 | 4867 | 4761 | 4656 | 4551 | 4445 | 4340 | 0 | 0' | 0 7912 |
| 108 | 1 | 6305 | 6200 | 6095 | 5290 | 5884 | 5779 | 5674 | 5568 | 5463 | 5358 | 5252 | 5147 | 5042 | 4936 | 4831 | 4725 | 4620 | 5 | 1 | 8196 |
| 106 | 2 | 6587 | 6482 | 6376 | 6271 | 6166 | 6060 | 5935 | 5842 | 5744 | 5638 | 5533 | 5427 | 5322 | 5216 | 5111 | 5005 | 4899 | 2 | 2 | 8481 |
| 104 | 3 | 6869 | 6764 | 6658 | 6553 | 6447 | 6341 | 6236 | 6130 | 6025 | 5919 | 5813 | 5708 | 5602 | 5496 | 5390 | 5285 | 5179 | 14 | 3 | 8765 |
| 102 | 4 | 7151 | 7045 | 6940 | 6834 | 6728 | 6623 | 6517 | 6411 | 6305 | 6200 | 6094 | 5288 | 5882 | 5776 | 5670 | 5564 | 5458 | 19 | 4 | 9050 |
| 100 | 5 | 0 7433 | 7327 | 7221 | 7115 | 7010 | 6904 | 6798 | 6692 | 6586 | 6480 | 6374 | 6268 | 6162 | 6056 | 5250 | 5844 | 5738 | 24 | 5 | 0 2334 |
| 99 | 6 | 7715 | 7609 | 7503 | 7397 | 7221 | 7185 | 7079 | 6273 | 6867 | 6761 | 6655 | 6548 | 6442 | 6336 | 6230 | 6124 | 6018 | 28 | 6 | 9619 |
| 97 | 7 | 7997 | 7820 | 7784 | 7678 | 7572 | 7466 | 7360 | 7254 | 7147 | 7041 | 6935 | 6829 | 6722 | 6616 | 6510 | 6403 | 6297 | 33 | 7 | 9903 |
| 95 | 8 | 8278 | 8172 | 8066 | 7960 | 7853 | 7747 | 7641 | 7534 | 7428 | 7322 | 7215 | 7109 | 7002 | 6896 | 6790 | 6683 | 6577 | 38 | 8 | 1 0187 |
| 23 | 9 | 8560 | 8454 | 8347 | 8241 | 8135 | 8028 | 7222 | 7815 | 7709 | 7602 | 7496 | 7389 | 7283 | 7176 | 7069 | 6963 | 6856 | 43 | 9 | 0472 |
| 91 | 10 | 0 8842 | 8735 | 8629 | 8522 | 8416 | 8309 | 8203 | 8096 | 7989 | 7883 | 7776 | 7669 | 7563 | 7456 | 7349 | 7242 | 7136 | 47 | 10 | 1 0756 |
| 89 | 11 | 9124 | 9017 | 8910 | 8804 | 8697 | 8590 | 8483 | 8377 | 8270 | 8163 | 8056 | 7949 | 7843 | 7736 | 7629 | 7522 | 7415 | 52 | 11 | 1040 |
| 88 | 12 | 9406 | 9299 | 9192 | 9085 | 8978 | 8871 | 8764 | 8657 | 8551 | 8444 | 8337 | 8230 | 8123 | 8016 | 7909 | 7802 | 7695 | 57 | 12 | 1325 |
| 86 | 13 | 9687 | 2580 | 9473 | 9366 | 9252 | 9152 | 9045 | 8938 | 8831 | 8724 | 8617 | 8510 | 8403 | 8295 | 8188 | 8081 | 7974 | 61 | 13 | 1609 |
| 84 | 14 | 2969 | 2862 | 9755 | 9648 | 9540 | 2433 | 9326 | 9219 | 9112 | 2004 | 8897 | 8720 | 8683 | 8575 | 8468 | 8361 | 8253 | 66 | 14 | 1893 |
| 82 | 15 | 1 (0) 0251 | 0143 | 9036 | 9929 | 9822 | 9714 | 9607 | 9500 | 9392 | 9285 | 9177 | 9070 | 8963 | 8855 | 8748 | 8640 | 8533 | 71 | 15 | 1 2178 |
| 80 | 16 | 0532 | 0425 | 0317 | 0210 | 0103 | 9995 | 9888 | 9780 | 9673 | 9565 | 9458 | 9350 | 9243 | 9135 | 9027 | 8920 | 8812 | 76 | 16 | 2462 |
| 78 | 17 | 0814 | 0706 | 0599 | 0491 | 0384 | 0276 | 0169 | 0061 | 9953 | 9846 | 2738 | 9630 | 9523 | 9415 | 9307 | 9199 | 9092 | 80 | 17 | 2746 |
| 77 | 18 | 1096 | 0988 | 0880 | 0772 | 6665 | 0557 | 0442 | 0342 | 0234 | 0126 | 0018 | 9910 | 9802 | 9694 | 2587 | 9479 | 9371 | 85 | 18 | 3030 |
| 75 | 12 | 1377 | 1269 | 1162 | 1054 | 0246 | 0838 | 0730 | 0622 | 0514 | 0406 | 0298 | 0120 | 0082 | 9974 | 9866 | 9758 | 2650 | 20 | 19 | 3315 |
| 73 | 20 | 1 (0) 1659 | 1551 | 1443 | 1335 | 1227 | 1119 | 1011 | 0903 | 0795 | 0687 | 0579 | 0470 | 0362 | 0254 | 0146 | 0038 | 2929 | 95 | 20 | 1 3599 |
| 71 | 21 | 1 1940 | 1832 | 1724 | 1616 | 1508 | 1400 | 1291 | 1183 | 1075 | 0967 | 0859 | 0750 | 0642 | 0534 | 0425 | 0317 | 0209 | 99 | 21 | 3883 |
| 69 | 22 | 2222 | 2114 | 2005 | 1897 | 1789 | 1681 | 1572 | 1464 | 1356 | 1247 | 1139 | 1030 | 0922 | 0813 | 0705 | 0596 | 0488 | 104 | 22 | 4167 |
| 67 | 23 | 2501 | 2395 | 2287 | 2178 | 2070 | 1961 | 1853 | 1744 | 1636 | 1527 | 1419 | 1310 | 1202 | 1093 | 0984 | 0876 | 0767 | 102 | 23 | 4451 |
| 65 | 21 | 2785 | 2677 | 2568 | 2452 | 2351 | 2242 | 2134 | 2025 | 1916 | 1808 | 1699 | 1590 | 1482 | 1373 | 1264 | 1155 | 1046 | 114 | 24 | 4735 |
| 64 | 25 | 1 3067 | 2958 | 2842 | 2740 | 2632 | 2523 | 2414 | 2305 | 2127 | 2088 | 1979 | 1870 | 1761 | 1652 | 1543 | 1435 | 1326 | 118 | 25 | 1 5019 |
| 62 | 26 | 3348 | 3239 | 3130 | 3022 | 2913 | 2804 | 2695 | 2586 | 2477 | 2368 | 2259 | 2150 | 2041 | 1932 | 1823 | 1714 | 1605 | 123 | 26 | 5303 |
| 60 | 27 | 3629 | 3521 | 3412 | 3303 | 3194 | 3084 | 2976 | 2866 | 2757 | 2648 | 2532 | 2430 | 2321 | 2212 | 2102 | 1293 | 1884 | 128 | 27 | 5588 |
| 58 | 28 | 3911 | 3802 | 3693 | 3584 | 3474 | 3365 | 3256 | 3147 | 3038 | 2928 | 2819 | 2710 | 2601 | 2491 | 2382 | 2273 | 2163 | 132 | 28 | 5872 |
| 57 | 29 | 4192 | 4083 | 3974 | 3865 | 3755 | 3646 | 3536 | 3427 | 3318 | 3209 | 3099 | 2990 | 2880 | 2771 | 2661 | 2552 | 2442 | 137 | 29 | 6156 |
| 55 | 30 | 1 4474 | 4364 | 4255 | 4146 | 4036 | 3927 | 3817 | 3708 | 3598 | 3489 | 3379 | 3270 | 3160 | 3050 | 2941 | 2831 | 2721 | 142 | 30 | 1 6440 |
| 53 | 31 | 4755 | 4646 | 4536 | 4427 | 4317 | 4207 | 4098 | 3988 | 3872 | 3769 | 3659 | 3542 | 3440 | 3330 | 3220 | 3110 | 3001 | 147 | 31 | 6724 |
| 51 | 32 | 5037 | 4927 | 4817 | 4707 | 4598 | 4488 | 4378 | 4268 | 4159 | 4049 | 3939 | 3829 | 3719 | 3609 | 3500 | 3390 | 3280 | 151 | 32 | 7008 |
| 49 | 33 | 5318 | 5208 | 5028 | 4988 | 4879 | 4769 | 4659 | 4549 | 4439 | 4329 | 4219 | 4102 | 3999 | 3889 | 3779 | 3669 | 3559 | 156 | 33 | 7292 |
| 47 | 34 | 5599 | 5489 | 5379 | 5269 | 5159 | 5049 | 4932 | 4829 | 4719 | 4609 | 4499 | 4389 | 4279 | 4168 | 4058 | 3248 | 3838 | 161 | 34 | 7575 |
| 46 | 35 | 1 5881 | 5771 | 5660 | 5550 | 5440 | 5330 | 5220 | 5110 | 4999 | 4889 | 4772 | 4669 | 4558 | 4448 | 4338 | 4227 | 4117 | 166 | 35 | 1 7859 |
| 44 | 36 | 6162 | 6052 | 5941 | 5831 | 5721 | 5611 | 5500 | 5390 | 5279 | 5162 | 5059 | 4948 | 4838 | 4727 | 4617 | 4506 | 4396 | 170 | 36 | 8143 |
| 42 | 37 | 6443 | 6333 | 6222 | 6112 | 6002 | 5891 | 5781 | 5670 | 5560 | 5449 | 5339 | 5228 | 5117 | 5007 | 4896 | 4785 | 4675 | 175 | 37 | 8427 |
| 40 | 38 | 6725 | 6614 | 6503 | 6393 | 6282 | 6172 | 6061 | 5950 | 5840 | 5729 | 5618 | 5508 | 5397 | 5286 | 5175 | 5065 | 4954 | 180 | 38 | 8711 |
| 38 | 39 | 7006 | 6895 | 6784 | 6674 | 6563 | 6452 | 6341 | 6231 | 6120 | 6002 | 5828 | 5787 | 5676 | 5566 | 5455 | 5344 | 5233 | 185 | 39 | 8925 |
| 36 | 40 | 1 7287 | 7176 | 7065 | 6955 | 6844 | 6733 | 6622 | 6511 | 6400 | 6289 | 6178 | 6067 | 5956 | 5845 | 5734 | 5623 | 5512 | 189 | 40 | 1 9279 |
| 35 | 41 | 7568 | 7457 | 7346 | 7235 | 7124 | 7013 | 6902 | 6791 | 6680 | 6569 | 6458 | 6347 | 6235 | 6124 | 6013 | 5202 | 5791 | 194 | 41 | 9562 |
| 33 | 42 | 7850 | 7738 | 7627 | 7516 | 7405 | 7294 | 7183 | 7071 | 6960 | 6849 | 6738 | 6626 | 6515 | 6404 | 6292 | 6181 | 6070 | 192 | 42 | 9846 |
| 31 | 43 | 8131 | 8019 | 7908 | 7797 | 7686 | 7574 | 7463 | 7351 | 7240 | 7129 | 7017 | 6906 | 6794 | 6683 | 6571 | 6460 | 6348 | 203 | 43 | 2 0130 |
| 29 | 44 | 8412 | 8300 | 8189 | 8078 | 7966 | 7855 | 7743 | 7632 | 7520 | 7409 | 7297 | 7185 | 7074 | 6962 | 6851 | 6732 | 6627 | 208 | 44 | 0413 |
| 27 | 45 | 1 8693 | 8581 | 8470 | 8358 | 8247 | 8135 | 8023 | 7912 | 7800 | 7688 | 7577 | 7465 | 7353 | 7242 | 7130 | 7018 | 6906 | 213 | 45 | 2 0697 |
| 26 | 46 | 8974 | 8862 | 8751 | 8639 | 8527 | 8415 | 8304 | 8192 | 8080 | 7968 | 7856 | 7745 | 7633 | 7521 | 7409 | 7227 | 7185 | 218 | 46 | 0981 |
| 24 | 47 | 2255 | 9143 | 2032 | 8920 | 8808 | 8696 | 8584 | 8472 | 8360 | 8248 | 8136 | 8024 | 7212 | 7800 | 7688 | 7576 | 7464 | 222 | 47 | 1265 |
| 22 | 48 | 9536 | 9424 | 9312 | 9200 | 2088 | 8976 | 8864 | 8752 | 8640 | 8528 | 8416 | 8304 | 8121 | 8079 | 7967 | 7855 | 7743 | 227 | 48 | 1548 |
| 20 | 49 | 9817 | 2705 | 9593 | 9481 | 9369 | 2257 | 9144 | 9032 | 8920 | 8808 | 8625 | 8583 | 8471 | 8358 | 8246 | 8134 | 8021 | 232 | 49 | 1832 |
| 18 | 50 | 2 (1) 0098 | 9986 | 2874 | 9762 | 9642 | 9537 | 2425 | 2312 | 9200 | 9087 | 8975 | 8863 | 8750 | 8638 | 8525 | 8413 | 8300 | 237 | 50 | 2 2116 |
| 16 | 51 | 0379 | 0267 | 0155 | 0042 | 9230 | 2817 | 2705 | 2592 | 2480 | 2367 | 9255 | 9142 | 2029 | 8917 | 8804 | 8692 | 8579 | 241 | 51 | 2399 |
| 15 | 52 | 0660 | 0548 | 0435 | 0323 | 0210 | 0028 | 9985 | 2872 | 2760 | 9647 | 2534 | 2421 | 9309 | 9196 | 9083 | 8970 | 8858 | 246 | 52 | 2683 |
| 13 | 53 | 0941 | 0829 | 0716 | 0603 | 0491 | 0378 | 0265 | 0152 | 0032 | 9927 | 9814 | 2701 | 2588 | 9475 | 9362 | 2242 | 2136 | 251 | 53 | 2967 |
| 11 | 54 | 1222 | 1110 | 0997 | 0884 | 0771 | 0658 | 0545 | 0432 | 0312 | 0206 | 0023 | 2980 | 2867 | 2754 | 2641 | 2528 | 2415 | 256 | 54 | 3250 |
| 9 | 55 | 2 (1) 1503 | 1390 | 1277 | 1164 | 1051 | 0938 | 0825 | 0712 | 0599 | 0486 | 0373 | 0260 | 0146 | 0033 | 9920 | 2807 | 9624 | 260 | 55 | 2 3534 |
| 7 | 56 | 1784 | 1671 | 1558 | 1445 | 1332 | 1219 | 1105 | 0992 | 0872 | 0766 | 0652 | 0532 | 0426 | 0312 | 0129 | 0086 | 2972 | 265 | 56 | 3817 |
| 6 | 57 | 2 2065 | 1952 | 1839 | 1725 | 1612 | 1429 | 1385 | 1272 | 1159 | 1045 | 0932 | 0818 | 0705 | 0591 | 0478 | 0364 | 0251 | 270 | 57 | 4101 |
| 4 | 58 | 2346 | 2233 | 2119 | 2006 | 1892 | 1779 | 1665 | 1552 | 1438 | 1325 | 1211 | 1098 | 0984 | 0870 | 0757 | 0643 | 0530 | 274 | 58 | 4384 |
| 2 | 59 | 2627 | 2514 | 2400 | 2286 | 2173 | 2059 | 1245 | 1832 | 1718 | 1605 | 1491 | 1377 | 1263 | 1149 | 1036 | 0222 | 0808 | 272 | 52 | 4668 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 103° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 103° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118 | 0' | 2 4838 | 4724 | 4611 | 4498 | 4384 | 4271 | 4157 | 4044 | 3930 | 3817 | 3703 | 3590 | 3476 | 3363 | 3249 | 3135 | 3022 | 204 | 0' | 9 1004 |
| 116 | 1 | 5121 | 5007 | 4894 | 4780 | 4667 | 4553 | 4440 | 4326 | 4212 | 4099 | 3985 | 3871 | 3758 | 3644 | 3530 | 3410 | 3303 | 279 | 1 | 1519 |
| 114 | 2 | 5404 | 5291 | 5177 | 5063 | 4950 | 4036 | 4722 | 4608 | 4495 | 4301 | 4267 | 4153 | 4039 | 3925 | 3811 | 3698 | 3584 | 274 | 2 | 1235 |
| 112 | 3 | 5680 | 5574 | 5400 | 5345 | 5232 | 5118 | 5005 | 4891 | 4777 | 4663 | 4519 | 4435 | 4321 | 4207 | 4093 | 3979 | 3865 | 270 | 3 | 0950 |
| 110 | 4 | 5971 | 5857 | 5743 | 5629 | 5515 | 5400 | 5287 | 5173 | 5059 | 4945 | 4830 | 4716 | 4602 | 4488 | 4374 | 4260 | 4145 | 265 | 4 | 0666 |
| 100 | 5 | 2 6254 | 6140 | 6026 | 5912 | 5798 | 5683 | 5569 | 5455 | 5341 | 5227 | 5112 | 4998 | 4884 | 4769 | 4655 | 4541 | 4426 | 260 | 5 | 9 0381 |
| 106 | 6 | 6537 | 6423 | 6309 | 6194 | 6080 | 5966 | 5851 | 5737 | 5623 | 5509 | 5394 | 5280 | 5165 | 5051 | 4936 | 4822 | 4707 | 256 | 6 | 0097 |
| 104 | 7 | 6820 | 6706 | 6592 | 6477 | 6363 | 6248 | 6134 | 6019 | 5905 | 5790 | 5676 | 5561 | 5447 | 5332 | 5217 | 5103 | 4988 | 251 | 7 | 0 9813 |
| 102 | 8 | 7103 | 6909 | 6874 | 5760 | 6645 | 6531 | 6416 | 6302 | 6187 | 5072 | 5957 | 5843 | 5728 | 5613 | 5499 | 5384 | 5269 | 245 | 8 | 9528 |
| 100 | 9 | 7387 | 7272 | 7157 | 7042 | 6920 | 6813 | 6698 | 6584 | 6162 | 6354 | 6239 | 6124 | 6010 | 5095 | 5780 | 5665 | 5550 | 241 | 9 | 9244 |
| 98 | 10 | 2 7670 | 7555 | 7440 | 7325 | 7210 | 7096 | 6981 | 6866 | 6751 | 6636 | 6521 | 6406 | 6291 | 6176 | 6061 | 5946 | 5831 | 237 | 10 | 8 8960 |
| 96 | 11 | 7953 | 7838 | 7723 | 7608 | 7493 | 7378 | 7263 | 7148 | 7033 | 6918 | 6803 | 6687 | 6572 | 6457 | 6342 | 6227 | 6111 | 232 | 11 | 8675 |
| 94 | 12 | 8230 | 8121 | 8006 | 7891 | 7775 | 7660 | 7545 | 7430 | 7315 | 7199 | 7084 | 6969 | 6854 | 6738 | 6623 | 6508 | 6392 | 227 | 12 | 8391 |
| 92 | 13 | 8519 | 8404 | 8248 | 8173 | 8058 | 7943 | 7827 | 7712 | 7597 | 7481 | 7366 | 7250 | 7135 | 7019 | 6904 | 6789 | 6673 | 222 | 13 | 8107 |
| 90 | 14 | 8802 | 8687 | 8571 | 8456 | 8340 | 8225 | 8109 | 7994 | 7878 | 7763 | 7647 | 7532 | 7416 | 7301 | 7185 | 7069 | 6954 | 218 | 14 | 7822 |
| 88 | 15 | 2 9085 | 8969 | 8854 | 8738 | 8623 | 8507 | 8392 | 8276 | 8160 | 8045 | 7929 | 7813 | 7698 | 7583 | 7466 | 7350 | 7235 | 213 | 15 | 8 7538 |
| 86 | 16 | 9368 | 9252 | 9137 | 9021 | 8905 | 8789 | 8674 | 8558 | 8442 | 8326 | 8211 | 8095 | 7979 | 7863 | 7747 | 7631 | 7515 | 208 | 16 | 7254 |
| 84 | 17 | 9651 | 9535 | 9419 | 9303 | 9188 | 9072 | 8956 | 8840 | 8724 | 8608 | 8492 | 8376 | 8260 | 8144 | 8028 | 7912 | 7796 | 203 | 17 | 6970 |
| 82 | 18 | 9934 | 9818 | 9702 | 9586 | 9470 | 9354 | 9238 | 9122 | 9006 | 8890 | 8774 | 8657 | 8541 | 8425 | 8309 | 8193 | 8077 | 199 | 18 | 6685 |
| 80 | 19 | 3 (2) 0217 | 0101 | 9985 | 9868 | 9752 | 9636 | 9520 | 9404 | 9288 | 9171 | 9055 | 8939 | 8823 | 8706 | 8590 | 8474 | 8357 | 194 | 19 | 6401 |
| 78 | 20 | 3 (2) 0500 | 0383 | 0267 | 0151 | 0035 | 9918 | 9802 | 9686 | 9569 | 9453 | 9337 | 9220 | 9104 | 8987 | 8871 | 8754 | 8638 | 189 | 20 | 8 6117 |
| 76 | 21 | 0783 | 0666 | 0550 | 0433 | 0317 | 0200 | 0084 | 9968 | 9851 | 9735 | 9618 | 9502 | 9385 | 9268 | 9152 | 9035 | 8918 | 185 | 21 | 5833 |
| 74 | 22 | 1065 | 0949 | 0832 | 0716 | 0599 | 0483 | 0366 | 0249 | 0133 | 0016 | 9900 | 9783 | 9666 | 9549 | 9433 | 9316 | 9199 | 180 | 22 | 5549 |
| 73 | 23 | 1348 | 1232 | 1115 | 0998 | 0882 | 0765 | 0648 | 0531 | 0415 | 0298 | 0181 | 0064 | 9947 | 9830 | 9714 | 9597 | 9480 | 175 | 23 | 5265 |
| 71 | 24 | 1631 | 1514 | 1398 | 1281 | 1164 | 1047 | 0930 | 0813 | 0696 | 0579 | 0462 | 0345 | 0228 | 0111 | 9994 | 9877 | 9760 | 170 | 24 | 4981 |
| 69 | 25 | 3 1914 | 1797 | 1680 | 1563 | 1446 | 1329 | 1212 | 1095 | 0978 | 0861 | 0744 | 0627 | 0510 | 0392 | 0275 | 0158 | 0041 | 166 | 25 | 8 4697 |
| 67 | 26 | 2197 | 2080 | 1963 | 1845 | 1728 | 1611 | 1494 | 1377 | 1260 | 1142 | 1025 | 0908 | 0791 | 0673 | 0556 | 0439 | 0321 | 161 | 26 | 4412 |
| 65 | 27 | 2480 | 2362 | 2245 | 2128 | 2011 | 1893 | 1776 | 1659 | 1541 | 1424 | 1307 | 1189 | 1072 | 0954 | 0837 | 0719 | 0602 | 156 | 27 | 4128 |
| 63 | 28 | 2762 | 2645 | 2528 | 2410 | 2293 | 2175 | 2058 | 1940 | 1823 | 1705 | 1588 | 1470 | 1353 | 1235 | 1117 | 1000 | 0882 | 151 | 28 | 3844 |
| 61 | 29 | 3045 | 2928 | 2810 | 2692 | 2575 | 2457 | 2340 | 2222 | 2105 | 1987 | 1869 | 1751 | 1634 | 1516 | 1398 | 1280 | 1163 | 147 | 29 | 3560 |
| 59 | 30 | 3 3328 | 3210 | 3092 | 2975 | 2857 | 2739 | 2622 | 2504 | 2386 | 2268 | 2150 | 2033 | 1915 | 1797 | 1679 | 1561 | 1443 | 142 | 30 | 8 3276 |
| 57 | 31 | 3610 | 3493 | 3375 | 3257 | 3139 | 3021 | 2903 | 2786 | 2668 | 2550 | 2432 | 2314 | 2196 | 2078 | 1960 | 1842 | 1723 | 137 | 31 | 2992 |
| 55 | 32 | 3893 | 3775 | 3657 | 3539 | 3421 | 3303 | 3185 | 3067 | 2949 | 2831 | 2713 | 2595 | 2477 | 2358 | 2240 | 2122 | 2004 | 132 | 32 | 2708 |
| 53 | 33 | 4176 | 4058 | 3940 | 3822 | 3703 | 3585 | 3467 | 3349 | 3231 | 3112 | 2994 | 2876 | 2758 | 2639 | 2521 | 2403 | 2284 | 128 | 33 | 2425 |
| 51 | 34 | 4458 | 4340 | 4222 | 4104 | 3985 | 3867 | 3749 | 3631 | 3512 | 3394 | 3275 | 3157 | 3039 | 2920 | 2802 | 2683 | 2565 | 123 | 34 | 2141 |
| 49 | 35 | 3 4741 | 4623 | 4504 | 4386 | 4267 | 4149 | 4031 | 3912 | 3794 | 3675 | 3557 | 3438 | 3319 | 3201 | 3082 | 2964 | 2845 | 118 | 35 | 8 1857 |
| 47 | 36 | 5024 | 4905 | 4787 | 4668 | 4550 | 4431 | 4312 | 4194 | 4075 | 3957 | 3838 | 3719 | 3600 | 3482 | 3362 | 3244 | 3125 | 114 | 36 | 1573 |
| 45 | 37 | 5306 | 5188 | 5069 | 4950 | 4832 | 4713 | 4594 | 4475 | 4357 | 4238 | 4119 | 4000 | 3881 | 3762 | 3643 | 3524 | 3406 | 109 | 37 | 1289 |
| 43 | 38 | 5589 | 5470 | 5351 | 5232 | 5114 | 4995 | 4876 | 4757 | 4638 | 4519 | 4400 | 4281 | 4162 | 4043 | 3924 | 3805 | 3686 | 104 | 38 | 1005 |
| 41 | 39 | 5871 | 5752 | 5633 | 5515 | 5396 | 5277 | 5157 | 5038 | 4919 | 4800 | 4681 | 4562 | 4443 | 4324 | 4205 | 4085 | 3966 | 99 | 39 | 0721 |
| 39 | 40 | 3 6154 | 6035 | 5916 | 5797 | 5678 | 5558 | 5439 | 5320 | 5201 | 5081 | 4962 | 4843 | 4724 | 4605 | 4485 | 4366 | 4246 | 95 | 40 | 8 0438 |
| 37 | 41 | 6436 | 6317 | 6128 | 6079 | 5959 | 5840 | 5721 | 5601 | 5482 | 5363 | 5243 | 5124 | 5005 | 4885 | 4766 | 4646 | 4527 | 90 | 41 | 0154 |
| 35 | 42 | 6719 | 6599 | 6480 | 6361 | 6241 | 6122 | 6002 | 5883 | 5763 | 5644 | 5524 | 5405 | 5285 | 5166 | 5046 | 4926 | 4807 | 85 | 42 | 7 9870 |
| 33 | 43 | 7001 | 6882 | 6762 | 6643 | 6523 | 6404 | 6284 | 6164 | 6045 | 5925 | 5805 | 5686 | 5566 | 5446 | 5327 | 5207 | 5087 | 80 | 43 | 9587 |
| 31 | 44 | 7284 | 7164 | 7044 | 6925 | 6805 | 6685 | 6566 | 6446 | 6326 | 6206 | 6086 | 5967 | 5847 | 5727 | 5607 | 5487 | 5367 | 76 | 44 | 9303 |
| 29 | 45 | 3 7566 | 7446 | 7327 | 7207 | 7087 | 6967 | 6847 | 6727 | 6607 | 6487 | 6367 | 6247 | 6127 | 6007 | 5887 | 5767 | 5647 | 71 | 45 | 7 9019 |
| 27 | 46 | 7849 | 7729 | 7609 | 7489 | 7369 | 7249 | 7129 | 7009 | 6889 | 6768 | 6648 | 6528 | 6408 | 6288 | 6168 | 6048 | 5927 | 66 | 46 | 8735 |
| 26 | 47 | 8131 | 8011 | 7891 | 7771 | 7651 | 7530 | 7410 | 7290 | 7170 | 7050 | 6929 | 6809 | 6689 | 6568 | 6448 | 6328 | 6207 | 61 | 47 | 8452 |
| 24 | 48 | 8413 | 8293 | 8173 | 8053 | 7932 | 7812 | 7692 | 7571 | 7451 | 7331 | 7210 | 7090 | 6969 | 6849 | 6729 | 6608 | 6488 | 57 | 48 | 8160 |
| 22 | 49 | 8696 | 8575 | 8455 | 8334 | 8214 | 8094 | 7973 | 7853 | 7732 | 7612 | 7491 | 7371 | 7250 | 7130 | 7009 | 6888 | 6768 | 52 | 49 | 7884 |
| 20 | 50 | 3 8978 | 8858 | 8737 | 8616 | 8496 | 8375 | 8255 | 8134 | 8013 | 7893 | 7772 | 7651 | 7531 | 7410 | 7289 | 7168 | 7048 | 47 | 50 | 7 7601 |
| 18 | 51 | 9260 | 9140 | 9019 | 8898 | 8778 | 8657 | 8536 | 8415 | 8295 | 8174 | 8053 | 7932 | 7811 | 7690 | 7569 | 7449 | 7328 | 43 | 51 | 7317 |
| 16 | 52 | 9543 | 9422 | 9301 | 9180 | 9059 | 8938 | 8818 | 8697 | 8576 | 8455 | 8334 | 8213 | 8092 | 7971 | 7850 | 7729 | 7608 | 38 | 52 | 7033 |
| 14 | 53 | 9825 | 9704 | 9583 | 9462 | 9341 | 9220 | 9099 | 8978 | 8857 | 8736 | 8615 | 8494 | 8372 | 8251 | 8130 | 8009 | 7888 | 33 | 53 | 6750 |
| 12 | 54 | 4 (3) 0107 | 9986 | 9865 | 9744 | 9623 | 9502 | 9380 | 9259 | 9138 | 9017 | 8896 | 8774 | 8653 | 8532 | 8410 | 8289 | 8168 | 28 | 54 | 6466 |
| 10 | 55 | 4 (3) 0389 | 0268 | 0147 | 0026 | 9904 | 9783 | 9662 | 9540 | 9419 | 9298 | 9176 | 9055 | 8933 | 8812 | 8690 | 8569 | 8448 | 24 | 55 | 7 6183 |
| 8 | 56 | 0672 | 0550 | 0429 | 0307 | 0186 | 0065 | 9943 | 9822 | 9700 | 9579 | 9457 | 9335 | 9214 | 9092 | 8971 | 8849 | 8727 | 19 | 56 | 5899 |
| 6 | 57 | 0954 | 0832 | 0711 | 0589 | 0468 | 0346 | 0224 | 0103 | 9981 | 9860 | 9738 | 9616 | 9494 | 9373 | 9251 | 9129 | 9007 | 14 | 57 | 5616 |
| 4 | 58 | 1236 | 1114 | 0992 | 0871 | 0749 | 0627 | 0506 | 0384 | 0262 | 0140 | 0019 | 9897 | 9775 | 9653 | 9531 | 9409 | 9287 | 9 | 58 | 5332 |
| 2 | 59 | 1518 | 1396 | 1274 | 1153 | 1031 | 0909 | 0787 | 0665 | 0543 | 0421 | 0299 | 0177 | 0055 | 9933 | 9811 | 9689 | 9567 | 0 | 59 | 5049 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.**

| Partes para segundos del Arg. Auxiliar. | 103° | | Argumento Auxiliar. 17′ | 16′ | 19′ | 26′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118 | 6′ | 2 | 2906 | 2724 | 2601 | 2567 | 2453 | 2339 | 2226 | 2112 | 1998 | 1801 | 1770 | 1656 | 1542 | 1429 | 1316 | 1201 | 1087 |
| 116 | 1 | | 3189 | 3075 | 2261 | 2847 | 2733 | 2619 | 2505 | 2322 | 2278 | 2164 | 2050 | 1935 | 1822 | 1708 | 1523 | 1472 | 1365 |
| 115 | 2 | | 3470 | 3356 | 3242 | 3128 | 3014 | 2900 | 2785 | 2671 | 2557 | 2443 | 2329 | 2215 | 2101 | 1986 | 1872 | 1758 | 1614 |
| 113 | 3 | | 3750 | 3636 | 3522 | 3408 | 3224 | 3180 | 3055 | 2251 | 2837 | 2723 | 2608 | 2494 | 2380 | 2255 | 2151 | 2037 | 1922 |
| 111 | 4 | | 4031 | 3917 | 3803 | 3689 | 3574 | 3460 | 3345 | 3231 | 3117 | 3002 | 2888 | 2773 | 2659 | 2544 | 2430 | 2315 | 2201 |
| 109 | 5 | 2 | 4312 | 4196 | 4083 | 3269 | 3854 | 3740 | 3625 | 3511 | 3396 | 3282 | 3167 | 3053 | 2938 | 2823 | 2709 | 2594 | 2479 |
| 107 | 6 | | 4593 | 4470 | 4364 | 4249 | 4134 | 4020 | 3205 | 3721 | 3576 | 3561 | 3446 | 3332 | 3217 | 3102 | 2987 | 2873 | 2758 |
| 105 | 7 | | 4073 | 4752 | 4644 | 4522 | 4415 | 4300 | 4185 | 1070 | 3955 | 3841 | 3726 | 3611 | 3496 | 3381 | 3256 | 3151 | 3036 |
| 103 | 8 | | 5154 | 5039 | 4924 | 4810 | 4695 | 4580 | 4465 | 4350 | 4235 | 4120 | 4005 | 3890 | 3775 | 3560 | 3545 | 3430 | 3315 |
| 101 | 9 | | 5436 | 5320 | 5205 | 5090 | 4975 | 4860 | 4745 | 4630 | 4515 | 4392 | 4284 | 4169 | 4054 | 3939 | 3823 | 3708 | 3593 |
| 99 | 10 | 2 | 5715 | 5600 | 5485 | 5370 | 5255 | 5140 | 5025 | 4202 | 4724 | 4679 | 4564 | 4448 | 4333 | 4218 | 4102 | 3987 | 3871 |
| 97 | 11 | | 5996 | 6801 | 6766 | 5650 | 5535 | 5120 | 5304 | 5182 | 5074 | 4958 | 4843 | 4727 | 4612 | 4496 | 4381 | 4265 | 4150 |
| 95 | 12 | | 6277 | 6161 | 6046 | 5230 | 5015 | 5700 | 5584 | 5469 | 5353 | 5238 | 6122 | 5006 | 4891 | 4775 | 1659 | 4544 | 4128 |
| 93 | 13 | | 6557 | 6442 | 6326 | 6211 | 6095 | 5980 | 5864 | 5748 | 5633 | 5517 | 5401 | 5285 | 5170 | 5054 | 4938 | 4822 | 4706 |
| 91 | 14 | | 6838 | 6722 | 6607 | 6491 | 6376 | 6259 | 6144 | 6028 | 5912 | 5726 | 5680 | 5564 | 5442 | 5333 | 5217 | 5101 | 4285 |
| 82 | 15 | 2 | 7119 | 7003 | 6887 | 6771 | 6656 | 6532 | 6423 | 6307 | 6191 | 6076 | 5959 | 5843 | 5727 | 5611 | 5495 | 5379 | 5263 |
| 87 | 16 | | 7322 | 7283 | 7167 | 7051 | 6235 | 6812 | 6703 | 6587 | 6171 | 6355 | 6239 | 6122 | 5006 | 5820 | 5774 | 5658 | 5541 |
| 85 | 17 | | 7580 | 7564 | 7440 | 7331 | 7215 | 7099 | 6283 | 6867 | 6750 | 6634 | 6518 | 6401 | 6285 | 6169 | 5052 | 5235 | 5820 |
| 83 | 16 | | 7260 | 7644 | 7728 | 7611 | 7495 | 7372 | 7262 | 7146 | 7030 | 6913 | 6797 | 6680 | 5564 | 6447 | 6331 | 6214 | 5028 |
| 81 | 19 | | 6241 | 8124 | 0008 | 7892 | 7775 | 7659 | 7542 | 7426 | 7309 | 7192 | 7076 | 6259 | 6843 | 6726 | 5509 | 6123 | 6376 |
| 79 | 20 | 2 | 6521 | 8405 | 8288 | 8172 | 8055 | 7938 | 7822 | 7705 | 7588 | 7472 | 7355 | 7238 | 7121 | 7005 | 6888 | 6771 | 6654 |
| 77 | 21 | | 8802 | 8685 | 8568 | 8452 | 8335 | 8218 | 8101 | 7965 | 7868 | 7751 | 7634 | 7517 | 7400 | 7283 | 7166 | 7049 | 6932 |
| 75 | 22 | | 9082 | 8266 | 8049 | 8732 | 8615 | 8498 | 8381 | 8261 | 8147 | 8030 | 7213 | 7796 | 7679 | 7562 | 7445 | 7328 | 7210 |
| 73 | ·23 | | 2363 | 9246 | 9129 | 9012 | 8825 | 8778 | 8660 | 8543 | 8426 | 8309 | 8192 | 8075 | 7958 | 7640 | 7723 | 7606 | 7489 |
| 71 | 24 | | 9643 | 2526 | 9409 | 9222 | 2174 | 9057 | 8940 | 8823 | 8706 | 8588 | 8471 | 8354 | 8236 | 8119 | 8002 | 7884 | 7767 |
| 69 | 25 | 2 | 9923 | 9806 | 9689 | 9572 | 2451 | 9337 | 2220 | 9102 | 8985 | 8867 | 8750 | 8533 | 8515 | 8327 | 8280 | 8162 | 8045 |
| 67 | 26 | 3 (2) | 0204 | 0066 | 2962 | 9852 | 9734 | 9617 | 9499 | 9382 | 9264 | 9146 | 9029 | 8211 | 8724 | 8676 | 8558 | 8441 | 8323 |
| 65 | 27 | | 0484 | 0367 | 0249 | 0131 | 0014 | 9896 | 9779 | 9661 | 2543 | 9426 | 9308 | 9120 | 9072 | 8955 | 8837 | 8712 | 8601 |
| 63 | 28 | | 0765 | 0647 | 0522 | 0411 | 0294 | 0176 | 0058 | 2940 | 9822 | 2705 | 9587 | 2469 | 9361 | 9233 | 2116 | 8297 | 8872 |
| 61 | 29 | | 1045 | 0927 | 0809 | 0691 | 0573 | 0455 | 0337 | 0220 | 0102 | 9984 | 2866 | 9748 | 9629 | 9511 | 9323 | 2275 | 2157 |
| 69 | 30 | 3 (2) | 1325 | 1207 | 1089 | 0971 | 0853 | 0735 | 0617 | 0422 | 0381 | 0253 | 0144 | 0026 | 9200 | 9790 | 9672 | 2553 | 9435 |
| 57 | 31 | | 1605 | 1487 | 1369 | 1251 | 1133 | 1015 | 0826 | 0778 | 0660 | 0542 | 0423 | 0305 | 0187 | 0068 | 9950 | 2832 | 9713 |
| 55 | 32 | | 1886 | 1767 | 1649 | 1531 | 1412 | 1294 | 1176 | 1057 | 0932 | 0821 | 0702 | 0584 | 6465 | 0347 | 0228 | 0110 | 9991 |
| 63 | 33 | 3 | 2166 | 2047 | 1929 | 1811 | 1522 | 1574 | 1455 | 1337 | 1218 | 1029 | 0281 | 0862 | 0744 | 0625 | 0506 | 0388 | 0269 |
| 51 | 34 | | 2446 | 2327 | 2202 | 2090 | 1972 | 1853 | 1734 | 1616 | 1427 | 1370 | 1260 | 1141 | 1022 | 0903 | 0765 | 0666 | 0547 |
| 49 | 35 | 3 | 2726 | 2608 | 2489 | 2370 | 2251 | 2133 | 2014 | 1825 | 1776 | 1657 | 1530 | 1420 | 1301 | 1182 | 1063 | 0944 | 0825 |
| 47 | 36 | | 3006 | 2888 | 2762 | 2650 | 2531 | 2412 | 2223 | 2174 | 2055 | 1936 | 1817 | 1698 | 1579 | 1460 | 1341 | 1222 | 1103 |
| 45 | 37 | | 3287 | 3168 | 3049 | 2230 | 2811 | 2621 | 2572 | 2453 | 2334 | 2215 | 2096 | 1977 | 1858 | 1736 | 1619 | 1500 | 1300 |
| 43 | 38 | | 3567 | 3448 | 3320 | 3202 | 3090 | 2271 | 2652 | 2732 | 2613 | 2494 | 2375 | 2255 | 2135 | 2017 | 1897 | 1778 | 1658 |
| 41 | 39 | | 3847 | 3720 | 3608 | 3489 | 3370 | 3250 | 3131 | 3012 | 2892 | 2773 | 2653 | 2534 | 2414 | 2295 | 2175 | 2056 | 1936 |
| 39 | 40 | 3 | 4127 | 4008 | 3888 | 3769 | 3649 | 3530 | 3410 | 3291 | 3171 | 3052 | 2232 | 2812 | 2693 | 2573 | 2453 | 2334 | 2214 |
| 38 | 41 | | 4407 | 4287 | 4168 | 4048 | 3229 | 3809 | 3689 | 3570 | 3450 | 3330 | 3211 | 3091 | 2971 | 2851 | 2732 | 2612 | 2422 |
| 36 | 42 | | 4667 | 4567 | 4440 | 4328 | 4208 | 4088 | 3969 | 3849 | 3722 | 3609 | 3489 | 3369 | 3249 | 3130 | 3016 | 2890 | 2770 |
| 34 | 43 | | 4967 | 4847 | 4727 | 4608 | 4488 | 4368 | 4248 | 4128 | 4000 | 3888 | 3768 | 3646 | 3528 | 3408 | 3288 | 3167 | 3047 |
| 32 | 44 | | 5247 | 5127 | 5007 | 4887 | 4757 | 4647 | 4527 | 4407 | 4287 | 4167 | 4046 | 3926 | 3806 | 3686 | 3566 | 3446 | 3325 |
| 30 | 46 | 3 | 6527 | 5407 | 5287 | 5167 | 5047 | 4926 | 4806 | 4686 | 4566 | 4445 | 4326 | 4205 | 4064 | 3964 | 3844 | 3723 | 3603 |
| 28 | 46 | | 5807 | 5687 | 5567 | 5446 | 5326 | 5266 | 5085 | 4965 | 4844 | 4724 | 4603 | 4403 | 4363 | 4242 | 4121 | 4001 | 3880 |
| 25 | 47 | | 6087 | 5967 | 5846 | 5726 | 5605 | 5485 | 5364 | 5244 | 6123 | 5003 | 4882 | 4761 | 4641 | 4520 | 4399 | 4279 | 4158 |
| 24 | 46 | | 6367 | 6245 | 5126 | 6005 | 5885 | 5764 | 5643 | 5623 | 5402 | 5281 | 5161 | 6646 | 4919 | 4796 | 4677 | 4557 | 4436 |
| 22 | 49 | | 6647 | 6526 | 6405 | 6285 | 6164 | 6043 | 6922 | 5862 | 5681 | 5560 | 5432 | 5318 | 5197 | 5076 | 4255 | 4834 | 4713 |
| 20 | 60 | 3 | 6927 | 6806 | 6685 | 6564 | 6443 | 6322 | 6201 | 6080 | 5960 | 5839 | 5717 | 5696 | 5476 | 5354 | 5233 | 5112 | 4991 |
| 16 | 61 | | 7267 | 7085 | 5265 | 6844 | 6723 | 6602 | 6480 | 6359 | 6236 | 6117 | 6996 | 5876 | 5754 | 5632 | 5511 | 5390 | 5259 |
| 15 | 52 | | 7485 | 7365 | 7244 | 7123 | 7662 | 6681 | 6759 | 6630 | 6517 | 6396 | 6274 | 6153 | 6032 | 5910 | 5789 | 5668 | 5546 |
| 14 | 53 | | 7765 | 7645 | 7524 | 7102 | 7281 | 7160 | 7038 | 6917 | 6796 | 6574 | 6353 | 6431 | 6310 | 6166 | 6067 | 5945 | 5624 |
| 22 | 64 | | 6646 | 7225 | 7803 | 7682 | 7560 | 7439 | 7317 | 7196 | 7674 | 6953 | 6831 | 6710 | 6588 | 6466 | 6345 | 6223 | 6101 |
| 10 | 65 | 3 | 6326 | 8204 | 8663 | 7951 | 7840 | 7716 | 7596 | 7475 | 7353 | 7231 | 7110 | 5906 | 6866 | 6744 | 6622 | 6561 | 6379 |
| 8 | 66 | | 8605 | 8484 | 8362 | 8241 | 8119 | 7997 | 7875 | 7763 | 7632 | 7510 | 7368 | 7266 | 7144 | 7022 | 6900 | 6778 | 6656 |
| 6 | 57 | | 6863 | 8764 | 8642 | 8520 | 8398 | 8276 | 8154 | 0032 | 7910 | 7786 | 7665 | 7544 | 7422 | 7300 | 7178 | 7056 | 6934 |
| 4 | 66 | | 9155 | 9043 | 8921 | 8799 | 8677 | 8555 | 6433 | 8311 | 6102 | 6067 | 7945 | 7822 | 7700 | 7578 | 7456 | 7333 | 7211 |
| 2 | 69 | | 9445 | 9323 | 9201 | 9079 | 8956 | 8834 | 0712 | 8590 | 8467 | 8345 | 0223 | 8100 | 7978 | 7656 | 7733 | 7611 | 7489 |

**Num. IV para hallar la distancia corregida.**

| Partes para segundos. | 103° | | Núm. |
|---|---|---|---|
| 6 | 0′ | 2 | 4251 |
| 6 | 1 | | 5234 |
| 9 | 2 | | 6518 |
| 14 | 3 | | 6801 |
| 12 | 4 | | 6085 |
| 24 | 6 | 2 | 6368 |
| 28 | 6 | | 6651 |
| 33 | 7 | | 5935 |
| 38 | 8 | | 7218 |
| 42 | 9 | | 7501 |
| 47 | 10 | 2 | 7784 |
| 52 | 11 | | 8058 |
| 57 | 12 | | 8351 |
| 61 | 13 | | 8634 |
| 66 | 14 | | 8917 |
| 71 | 15 | 2 | 9200 |
| 75 | 16 | | 9484 |
| 80 | 17 | | 9767 |
| 85 | 18 | 3 | 0050 |
| 90 | 12 | | 0333 |
| 94 | 20 | 3 | 0615 |
| 29 | 21 | | 0899 |
| 104 | 22 | | 1182 |
| 108 | 23 | | 1465 |
| 113 | 24 | | 1748 |
| 118 | 25 | 3 | 2031 |
| 123 | 26 | | 2314 |
| 127 | 27 | | 2597 |
| 132 | 26 | | 2880 |
| 137 | 29 | | 3163 |
| 141 | 30 | 3 | 3445 |
| 145 | 31 | | 3728 |
| 151 | 32 | | 4011 |
| 156 | 33 | | 4294 |
| 160 | 34 | | 4577 |
| 165 | 35 | 3 | 4859 |
| 170 | 36 | | 5142 |
| 174 | 37 | | 5425 |
| 172 | 38 | | 5708 |
| 184 | 39 | | 6990 |
| 189 | 40 | 3 | 6273 |
| 123 | 41 | | 6555 |
| 198 | 42 | | 6838 |
| 203 | 43 | | 7120 |
| 207 | 44 | | 7403 |
| 212 | 45 | 3 | 7686 |
| 217 | 46 | | 7966 |
| 222 | 47 | | 8251 |
| 226 | 46 | | 8533 |
| 231 | 49 | | 6816 |
| 236 | 56 | 3 | 9098 |
| 241 | 51 | | 9381 |
| 245 | 52 | | 9663 |
| 250 | 53 | | 9945 |
| 256 | 54 | 4 | 6228 |
| 259 | 66 | 4 | 0510 |
| 264 | 56 | | 0793 |
| 269 | 57 | | 1075 |
| 274 | 66 | | 1357 |
| 278 | 69 | | 1640 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 104° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 16' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 104° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 126 | 0' | 4 (3) | 1880 | 1878 | 1556 | 1434 | 1312 | 1190 | 1068 | 6946 | 0824 | 0702 | 0580 | 0458 | 0338 | 0213 | 0091 | 9969 | 9847 | 283 | 0' | 7 4766 |
| 194 | 1 | 4 | 2082 | 1960 | 1838 | 1716 | 1594 | 1472 | 1349 | 1927 | 1108 | 8983 | 8861 | 0738 | 0516 | 0494 | 8371 | 8249 | 0127 | 278 | 1 | 4482 |
| 129 | 2 | | 2364 | 2242 | 2190 | 1998 | 1875 | 1753 | 1631 | 1608 | 1386 | 1264 | 1141 | 1019 | 0896 | 0774 | 0652 | 0599 | 0406 | 274 | 2 | 4199 |
| 120 | 3 | | 2646 | 2524 | 2402 | 9279 | 9157 | 9034 | 1912 | 1789 | 1667 | 1544 | 1422 | 1999 | 1177 | 1054 | 0932 | 8809 | 0686 | 269 | 3 | 3915 |
| 118 | 4 | | 2998 | 2806 | 2683 | 2561 | 9438 | 2316 | 2193 | 2870 | 1948 | 1098 | 1702 | 1580 | 1457 | 1334 | 1212 | 1009 | 0966 | 264 | 4 | 3532 |
| 116 | 5 | 4 | 3218 | 3088 | 9965 | 2842 | 2720 | 2597 | 2474 | 2351 | 2929 | 2106 | 1983 | 1860 | 1737 | 1618 | 1492 | 1369 | 1248 | 259 | 6 | 7 3349 |
| 114 | 6 | | 3499 | 3378 | 3947 | 3194 | 3001 | 9878 | 2755 | 2632 | 2510 | 2387 | 2264 | 2141 | 2818 | 1895 | 1772 | 1649 | 1626 | 255 | 6 | 3065 |
| 112 | 7 | | 3774 | 3651 | 3528 | 3405 | 3283 | 3160 | 3836 | 2913 | 2790 | 2667 | 2544 | 2421 | 2298 | 2178 | 2062 | 1928 | 1808 | 250 | 7 | 2789 |
| 110 | 8 | | 4056 | 3933 | 3810 | 3687 | 3564 | 3441 | 3318 | 3194 | 3071 | 2948 | 2825 | 2701 | 2578 | 2458 | 9332 | 2288 | 2085 | 245 | 6 | 2499 |
| 108 | 9 | | 4338 | 4215 | 4099 | 3969 | 3845 | 3722 | 3599 | 3475 | 3352 | 3229 | 3105 | 2989 | 2858 | 2738 | 2612 | 2488 | 2365 | 241 | 9 | 9916 |
| 105 | 10 | 4 | 4620 | 4497 | 4373 | 4250 | 4127 | 4003 | 3888 | 3756 | 3633 | 3509 | 3386 | 3252 | 3139 | 3018 | 2891 | 2788 | 2644 | 235 | 10 | 7 1932 |
| 103 | 11 | | 4909 | 4779 | 4655 | 4531 | 4408 | 4284 | 4161 | 4037 | 3914 | 3790 | 3686 | 3543 | 3419 | 3295 | 3171 | 3048 | 2924 | 231 | 11 | 1649 |
| 101 | 19 | | 5184 | 5060 | 4937 | 4813 | 4689 | 4565 | 4449 | 4318 | 4194 | 4071 | 3947 | 3823 | 3699 | 3578 | 3481 | 3327 | 3203 | 226 | 12 | 1366 |
| 99 | 13 | | 6466 | 5342 | 5218 | 5094 | 4970 | 4847 | 4723 | 4599 | 4475 | 4351 | 4227 | 4103 | 3979 | 3855 | 3731 | 3607 | 3483 | 222 | 13 | 1083 |
| 97 | 14 | | 6747 | 5624 | 5500 | 5376 | 5952 | 6128 | 5004 | 4880 | 4756 | 4632 | 4508 | 4383 | 4259 | 4135 | 4011 | 3887 | 3789 | 217 | 14 | 0800 |
| 95 | 15 | 4 | 6029 | 5905 | 5781 | 5657 | 5533 | 5409 | 5985 | 5161 | 5836 | 4912 | 4788 | 4684 | 4539 | 4418 | 4291 | 4167 | 4042 | 212 | 15 | 7 8516 |
| 93 | 16 | | 6311 | 6187 | 6063 | 5938 | 5814 | 5690 | 5566 | 5441 | 5317 | 5193 | 5068 | 4944 | 4819 | 4695 | 4878 | 4446 | 4322 | 207 | 16 | 0233 |
| 91 | 17 | | 6593 | 6169 | 6344 | 6220 | 6095 | 5971 | 5847 | 6722 | 8598 | 5473 | 5349 | 5224 | 5108 | 4978 | 4850 | 4726 | 4801 | 203 | 17 | 6 9950 |
| 89 | 18 | | 6875 | 6750 | 6626 | 6501 | 6377 | 6259 | 6127 | 6003 | 5878 | 5751 | 6629 | 5504 | 5380 | 6285 | 5130 | 5005 | 4888 | 198 | 10 | 9667 |
| 86 | 19 | | 7156 | 7032 | 6907 | 6782 | 8658 | 6533 | 8408 | 6284 | 8159 | 6034 | 5989 | 5784 | 5660 | 5535 | 5418 | 5985 | 5160 | 193 | 19 | 9381 |
| 84 | 20 | 4 | 7438 | 7313 | 7188 | 7064 | 6939 | 6814 | 6689 | 6564 | 6439 | 6314 | 6189 | 6065 | 5940 | 5814 | 5689 | 5564 | 5439 | 189 | 20 | 6 9101 |
| 89 | 91 | | 7720 | 7595 | 7470 | 7345 | 7290 | 7095 | 6970 | 6845 | 6790 | 6595 | 6470 | 6348 | 6219 | 6094 | 5969 | 5844 | 5719 | 184 | 21 | 8818 |
| 80 | 22 | | 8001 | 7876 | 7751 | 7696 | 7581 | 7376 | 7251 | 7126 | 7008 | 6878 | 6750 | 6625 | 6499 | 6374 | 6249 | 6123 | 5998 | 179 | 22 | 8535 |
| 78 | 23 | | 8983 | 8158 | 8033 | 7907 | 7789 | 7657 | 7532 | 7406 | 7281 | 7156 | 7030 | 6905 | 6779 | 6654 | 6528 | 6483 | 6277 | 174 | 23 | 8252 |
| 76 | 24 | | 8565 | 8439 | 8314 | 8189 | 8063 | 7938 | 7812 | 7687 | 7661 | 7436 | 7310 | 7185 | 7059 | 6934 | 6808 | 6682 | 6557 | 170 | 24 | 7969 |
| 74 | 25 | 4 | 8818 | 8791 | 8596 | 8470 | 8344 | 8919 | 8093 | 7967 | 7842 | 7716 | 7591 | 7465 | 7339 | 7213 | 7088 | 6962 | 6836 | 165 | 25 | 6 7686 |
| 79 | 96 | | 9198 | 9002 | 8877 | 8751 | 8695 | 8500 | 8374 | 8248 | 8192 | 7997 | 7871 | 7745 | 7610 | 7493 | 7367 | 7241 | 7115 | 160 | 26 | 7403 |
| 70 | 27 | | 9409 | 9984 | 9158 | 9032 | 8906 | 8780 | 8654 | 8529 | 8403 | 8277 | 8151 | 8025 | 7899 | 7773 | 7647 | 7821 | 7395 | 156 | 27 | 7120 |
| 67 | 28 | | 9691 | 9565 | 9439 | 9313 | 9187 | 9061 | 8935 | 8809 | 8683 | 8567 | 8431 | 8305 | 8179 | 8063 | 7926 | 7800 | 7674 | 151 | 28 | 6837 |
| 65 | 99 | | 9972 | 9846 | 9790 | 9594 | 9468 | 9342 | 9216 | 9090 | 8963 | 8837 | 8711 | 8588 | 8459 | 8332 | 8206 | 8080 | 7953 | 146 | 29 | 6555 |
| 63 | 30 | 5 (4) | 8254 | 8198 | 0002 | 9875 | 9749 | 9623 | 9496 | 9378 | 9944 | 9117 | 8991 | 0865 | 8738 | 8612 | 8485 | 8359 | 8939 | 141 | 30 | 6 6272 |
| 61 | 31 | | 0535 | 8409 | 0283 | 0156 | 0030 | 9904 | 9777 | 9651 | 9524 | 9398 | 9271 | 0145 | 9018 | 8891 | 8765 | 8638 | 8512 | 137 | 31 | 5989 |
| 59 | 32 | | 0817 | 0690 | 0564 | 0437 | 0311 | 0184 | 0058 | 9931 | 9804 | 9678 | 9551 | 9498 | 9298 | 9171 | 9044 | 8918 | 8791 | 132 | 32 | 5706 |
| 57 | 33 | | 1098 | 0979 | 0845 | 0718 | 0592 | 0465 | 0338 | 0212 | 6085 | 9958 | 9831 | 9704 | 9578 | 9451 | 9324 | 9197 | 9870 | 127 | 33 | 5493 |
| 55 | 34 | | 1380 | 1253 | 1196 | 0999 | 0873 | 0746 | 0619 | 8492 | 8365 | 8938 | 0111 | 9984 | 9857 | 9730 | 9683 | 9476 | 9349 | 123 | 34 | 6141 |
| 53 | 35 | 5 (4) | 1661 | 1634 | 1407 | 1280 | 1153 | 1696 | 0899 | 8772 | 6648 | 0518 | 0391 | 8264 | 0137 | 0010 | 9883 | 9766 | 9628 | 116 | 35 | 6 4858 |
| 61 | 36 | | 1949 | 1815 | 1688 | 1561 | 1434 | 1307 | 1180 | 1053 | 0996 | 0798 | 8671 | 0644 | 0417 | 0289 | 8169 | 0035 | 9987 | 113 | 36 | 4875 |
| 48 | 37 | 5 | 2224 | 9097 | 1969 | 1842 | 1718 | 1888 | 1460 | 1333 | 1206 | 1078 | 8951 | 0824 | 0696 | 8569 | 8441 | 0314 | 0186 | 108 | 37 | 4292 |
| 46 | 38 | | 2505 | 2378 | 2250 | 2123 | 1996 | 1868 | 1741 | 1613 | 1486 | 1358 | 1231 | 1103 | 8976 | 8848 | 0721 | 0593 | 0465 | 104 | 38 | 4010 |
| 44 | 39 | | 2786 | 9659 | 2531 | 9484 | 2976 | 2149 | 2021 | 1894 | 1766 | 1638 | 1511 | 1383 | 1255 | 1128 | 1080 | 0879 | 0744 | 99 | 39 | 3797 |
| 42 | 40 | 5 | 3860 | 2940 | 2812 | 2685 | 2587 | 2429 | 2302 | 2174 | 2046 | 1918 | 1791 | 1663 | 1535 | 1407 | 1279 | 1151 | 1023 | 94 | 40 | 6 3444 |
| 40 | 41 | | 3349 | 3221 | 3093 | 9966 | 2838 | 2718 | 2582 | 2484 | 2326 | 2198 | 9871 | 1943 | 1816 | 1687 | 1559 | 1431 | 1382 | 98 | 41 | 3169 |
| 38 | 42 | | 3630 | 3502 | 3374 | 3246 | 3118 | 9991 | 2862 | 2735 | 2606 | 2478 | 2350 | 2222 | 9094 | 1966 | 1838 | 1710 | 1581 | 85 | 42 | 2879 |
| 36 | 43 | | 3911 | 3783 | 3655 | 3597 | 3399 | 3971 | 3143 | 3816 | 9887 | 9758 | 2638 | 2502 | 2374 | 2248 | 9117 | 1989 | 1860 | 80 | 43 | 2597 |
| 34 | 44 | | 4193 | 4064 | 3936 | 3808 | 3588 | 3559 | 3423 | 3998 | 3167 | 3038 | 2910 | 2781 | 2653 | 2595 | 2396 | 2268 | 9139 | 75 | 44 | 2314 |
| 32 | 45 | 6 | 4474 | 4345 | 4217 | 4089 | 3968 | 3832 | 3704 | 3575 | 3447 | 3318 | 3190 | 3061 | 2933 | 2884 | 2675 | 2547 | 2418 | 71 | 46 | 6 2832 |
| 29 | 46 | | 4755 | 4696 | 4498 | 4369 | 4941 | 4112 | 3984 | 3855 | 3727 | 3598 | 3469 | 3341 | 3212 | 3883 | 2965 | 2826 | 2697 | 66 | 46 | 1749 |
| 27 | 47 | | 5036 | 4907 | 4779 | 4650 | 4521 | 4393 | 4264 | 4135 | 4507 | 3878 | 3749 | 3698 | 3491 | 3363 | 3234 | 3105 | 2976 | 61 | 47 | 1467 |
| 25 | 48 | | 6317 | 8188 | 5060 | 4930 | 4802 | 4673 | 4544 | 4418 | 4987 | 4158 | 4029 | 3980 | 3771 | 3642 | 3513 | 3384 | 3255 | 57 | 48 | 1184 |
| 23 | 49 | | 6598 | 5469 | 5340 | 6211 | 5883 | 4954 | 4825 | 4696 | 4567 | 4438 | 4308 | 4179 | 4850 | 3921 | 3799 | 3663 | 3834 | 52 | 49 | 8909 |
| 21 | 50 | 6 | 5879 | 6750 | 5621 | 6492 | 5363 | 5234 | 5105 | 4976 | 4846 | 4717 | 4588 | 4489 | 4330 | 4200 | 4071 | 3949 | 3812 | 47 | 55 | 6 5619 |
| 19 | 51 | | 5160 | 6031 | 5902 | 5773 | 5643 | 6514 | 5385 | 5256 | 5126 | 4997 | 4068 | 4738 | 4609 | 4479 | 4350 | 4221 | 4091 | 42 | 51 | 6337 |
| 17 | 52 | | 6441 | 6312 | 6183 | 8053 | 8924 | 5795 | 8665 | 5536 | 5486 | 5977 | 6147 | 5818 | 4888 | 4759 | 4629 | 4500 | 4370 | 38 | 52 | 8054 |
| 15 | 53 | | 6792 | 6593 | 6463 | 6334 | 8284 | 6875 | 5945 | 5816 | 5686 | 5567 | 5497 | 6297 | 5168 | 5038 | 4988 | 4778 | 4649 | 33 | 53 | 5 9772 |
| 13 | 54 | | 7003 | 6874 | 5744 | 6614 | 8485 | 6355 | 6225 | 6896 | 5986 | 5836 | 5706 | 8577 | 8447 | 5317 | 5187 | 5867 | 4927 | 28 | 54 | 9498 |
| 11 | 55 | 6 | 7284 | 7155 | 7825 | 6895 | 8765 | 6638 | 6506 | 5376 | 6246 | 6116 | 5986 | 5856 | 5726 | 5596 | 8468 | 8336 | 5986 | 24 | 55 | 5 9207 |
| 8 | 65 | | 7365 | 7435 | 7305 | 7175 | 7046 | 6916 | 6786 | 6656 | 6526 | 6396 | 6268 | 6135 | 6005 | 5878 | 5745 | 5815 | 8486 | 19 | 56 | 8925 |
| 6 | 67 | | 7846 | 7716 | 7586 | 7456 | 7326 | 7198 | 7066 | 6936 | 6805 | 6675 | 6545 | 6415 | 6285 | 6154 | 6024 | 5894 | 5783 | 14 | 57 | 8643 |
| 4 | 55 | | 6127 | 7997 | 7867 | 7736 | 7608 | 7476 | 7346 | 7215 | 7085 | 6955 | 5824 | 6694 | 6564 | 6433 | 8383 | 6172 | 6042 | 9 | 58 | 8360 |
| 2 | 69 | | 8480 | 8278 | 8147 | 8017 | 7887 | 7756 | 7626 | 7495 | 7365 | 7234 | 7104 | 6973 | 5843 | 6712 | 6582 | 8451 | 6391 | 5 | 59 | 8078 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 104° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 104° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 196 | 0′ | 3 9723 | 2602 | 9480 | 2358 | 9236 | 9113 | 8221 | 8868 | 8746 | 8624 | 8501 | 8370 | 8256 | 8134 | 8011 | 7889 | 7766 | 0 | 0′ | 4 1922 |
| 124 | 1 | 4 (3) 0004 | 2882 | 9759 | 2637 | 9515 | 9392 | 9270 | 9147 | 9025 | 8202 | 8779 | 8657 | 8534 | 8411 | 8289 | 8166 | 8043 | 5 | 1 | 2204 |
| 122 | 2 | 0284 | 0161 | 0039 | 9916 | 9794 | 2671 | 9548 | 2426 | 9303 | 9180 | 9058 | 8935 | 8812 | 8682 | 8566 | 8444 | 8321 | 9 | 2 | 2486 |
| 120 | 3 | 0664 | 0441 | 0318 | 0196 | 0073 | 9960 | 9827 | 9704 | 9582 | 9452 | 2336 | 9213 | 9090 | 8267 | 8844 | 8721 | 8598 | 14 | 3 | 2769 |
| 118 | 4 | 0843 | 0720 | 0598 | 0475 | 0352 | 0229 | 0106 | 9983 | 9860 | 9737 | 9614 | 9421 | 9368 | 9245 | 9122 | 8992 | 8875 | 19 | 4 | 3051 |
| 116 | 5 | 4 (3) 1123 | 1000 | 0877 | 0754 | 0631 | 0508 | 0385 | 0262 | 0138 | 0015 | 9892 | 9769 | 9646 | 9523 | 9399 | 9276 | 2153 | 24 | 5 | 4 3333 |
| 114 | 6 | 1402 | 1979 | 1156 | 1033 | 0910 | 0787 | 0663 | 0540 | 0417 | 0224 | 0170 | 0047 | 9924 | 9800 | 9677 | 9553 | 9430 | 28 | 6 | 3615 |
| 112 | 7 | 1682 | 1559 | 1435 | 1312 | 1189 | 1065 | 0942 | 0819 | 0695 | 0572 | 0448 | 0325 | 0201 | 0078 | 9955 | 9831 | 9707 | 33 | 7 | 3897 |
| 110 | 8 | 1262 | 1838 | 1715 | 1691 | 1468 | 1344 | 1221 | 1027 | 0974 | 0850 | 0726 | 0603 | 0472 | 0356 | 0232 | 0108 | 9985 | 38 | 8 | 4172 |
| 108 | 9 | 4 2241 | 2117 | 1224 | 1870 | 1747 | 1623 | 1492 | 1376 | 1252 | 1128 | 1005 | 0881 | 0757 | 0633 | 0509 | 0386 | 0262 | 42 | 9 | 4461 |
| 105 | 10 | 4 2520 | 2397 | 2273 | 2142 | 2026 | 1902 | 1778 | 1654 | 1630 | 1407 | 1283 | 1159 | 1035 | 0211 | 0787 | 0663 | 0539 | 47 | 10 | 4 4743 |
| 103 | 11 | 2800 | 2676 | 2552 | 2428 | 2304 | 2181 | 2057 | 1933 | 1809 | 1685 | 1661 | 1437 | 1313 | 1188 | 1064 | 0940 | 0816 | 52 | 11 | 6025 |
| 101 | 12 | 3079 | 2965 | 2831 | 2707 | 2583 | 2459 | 2335 | 2211 | 2087 | 1963 | 1839 | 1715 | 1690 | 1466 | 1342 | 1218 | 1093 | 56 | 12 | 5307 |
| 99 | 13 | 3352 | 3235 | 3111 | 2986 | 2862 | 2738 | 2614 | 2490 | 2365 | 2241 | 2117 | 1222 | 1868 | 1744 | 1612 | 1495 | 1370 | 61 | 13 | 5589 |
| 97 | 14 | 3638 | 3514 | 3390 | 3266 | 3141 | 3017 | 2892 | 2768 | 2644 | 9519 | 2395 | 2270 | 2146 | 2021 | 1827 | 1772 | 1648 | 66 | 14 | 5871 |
| 95 | 15 | 4 3918 | 3793 | 3669 | 3544 | 3420 | 3295 | 3171 | 3046 | 2922 | 2797 | 2673 | 9548 | 2423 | 2292 | 2174 | 2042 | 1925 | 70 | 15 | 4 6163 |
| 93 | 16 | 4197 | 4072 | 3248 | 3823 | 3699 | 3574 | 3449 | 3325 | 3200 | 3075 | 2251 | 2826 | 2701 | 2676 | 2451 | 2327 | 2202 | 75 | 16 | 6435 |
| 91 | 17 | 4476 | 4352 | 4227 | 4102 | 3977 | 3853 | 3728 | 3603 | 3478 | 3353 | 3228 | 3104 | 2972 | 2854 | 2722 | 2604 | 2479 | 80 | 17 | 6717 |
| 89 | 18 | 4756 | 1631 | 4506 | 4381 | 4256 | 4131 | 4006 | 3881 | 3756 | 3631 | 3506 | 3381 | 3256 | 3131 | 3006 | 2881 | 2756 | 85 | 18 | 6999 |
| 86 | 19 | 5035 | 4910 | 4785 | 4660 | 4535 | 4410 | 4285 | 4160 | 4035 | 3202 | 3784 | 3652 | 3534 | 3409 | 3283 | 3158 | 3033 | 89 | 12 | 7281 |
| 84 | 20 | 4 5314 | 5189 | 5064 | 4939 | 4814 | 4688 | 4563 | 4438 | 4313 | 4187 | 4062 | 3937 | 3812 | 3686 | 3561 | 3435 | 3310 | 94 | 20 | 4 7563 |
| 82 | 21 | 5594 | 5468 | 5343 | 5218 | 5092 | 4967 | 4842 | 4716 | 4591 | 4465 | 4340 | 4215 | 4089 | 3264 | 3838 | 3712 | 3587 | 99 | 21 | 7845 |
| 80 | 22 | 5873 | 5747 | 5622 | 5496 | 5371 | 5246 | 5120 | 4925 | 4869 | 4743 | 4618 | 4492 | 4367 | 4241 | 4115 | 3990 | 3864 | 103 | 22 | 8126 |
| 78 | 23 | 6152 | 6026 | 5201 | 5775 | 5650 | 5524 | 5398 | 5273 | 6147 | 6021 | 4826 | 4770 | 4644 | 4618 | 4393 | 4267 | 4141 | 108 | 23 | 8408 |
| 76 | 24 | 6431 | 6305 | 6180 | 6054 | 5228 | 5803 | 5677 | 5551 | 5425 | 5299 | 5173 | 5047 | 4222 | 4796 | 4670 | 4544 | 4418 | 113 | 24 | 8690 |
| 74 | 25 | 4 6710 | 6585 | 6452 | 6333 | 6207 | 6081 | 5965 | 5829 | 5703 | 5577 | 5451 | 5325 | 5199 | 5073 | 4947 | 4821 | 4695 | 117 | 25 | 4 8972 |
| 72 | 26 | 6990 | 6864 | 6738 | 6612 | 6486 | 6359 | 6233 | 6107 | 5281 | 5855 | 5729 | 5603 | 6476 | 6350 | 5224 | 5098 | 4971 | 122 | 96 | 9253 |
| 70 | 27 | 7269 | 7143 | 7016 | 6890 | 6764 | 6638 | 6512 | 6385 | 6259 | 6133 | 6007 | 5880 | 5754 | 5628 | 5501 | 5375 | 5248 | 127 | 27 | 9535 |
| 67 | 28 | 7548 | 7422 | 7295 | 7169 | 7043 | 6916 | 6720 | 6664 | 6537 | 6411 | 6284 | 6158 | 6031 | 5905 | 5778 | 5652 | 5625 | 132 | 28 | 9817 |
| 65 | 29 | 7827 | 7700 | 7574 | 7448 | 7321 | 7195 | 7068 | 6942 | 6815 | 6689 | 6562 | 6435 | 6309 | 6182 | 6055 | 5229 | 5802 | 136 | 99 | 6 0098 |
| 63 | 30 | 4 8106 | 7979 | 7853 | 7726 | 7600 | 7473 | 7346 | 7220 | 7093 | 6966 | 6840 | 6713 | 6586 | 6459 | 6332 | 6206 | 6072 | 141 | 30 | 5 0380 |
| 61 | 31 | 8385 | 8258 | 8132 | 8005 | 7878 | 7751 | 7625 | 7498 | 7371 | 7244 | 7117 | 6990 | 6863 | 6736 | 6610 | 6483 | 6356 | 146 | 31 | 0662 |
| 59 | 32 | 8664 | 8537 | 8410 | 8283 | 8157 | 8030 | 7903 | 7776 | 7649 | 7622 | 7395 | 7268 | 7141 | 7014 | 6887 | 6759 | 6632 | 150 | 32 | 0943 |
| 67 | 33 | 8943 | 8816 | 8689 | 8562 | 8435 | 8308 | 8181 | 8054 | 7927 | 7800 | 7672 | 7545 | 7418 | 7221 | 7164 | 7036 | 6909 | 155 | 33 | 1225 |
| 65 | 34 | 9222 | 9095 | 8968 | 8841 | 8713 | 8586 | 8452 | 8332 | 8205 | 8077 | 7950 | 7823 | 7695 | 7568 | 7441 | 7313 | 7186 | 160 | 34 | 1506 |
| 63 | 35 | 4 9501 | 2374 | 9247 | 9119 | 8922 | 8863 | 8737 | 8610 | 8482 | 8365 | 8228 | 8100 | 7973 | 7845 | 7718 | 7520 | 7462 | 164 | 35 | 5 1788 |
| 51 | 36 | 9780 | 2653 | 9525 | 9398 | 2270 | 9143 | 9015 | 8888 | 8760 | 8633 | 8505 | 8377 | 8250 | 8122 | 7995 | 7867 | 7739 | 169 | 36 | 2062 |
| 48 | 37 | 5 (4) 0059 | 9931 | 9804 | 9676 | 9549 | 9421 | 9293 | 9166 | 9038 | 8910 | 8783 | 8655 | 8527 | 8399 | 8271 | 8144 | 8016 | 174 | 37 | 2351 |
| 46 | 38 | 0338 | 0210 | 0082 | 9955 | 9827 | 2699 | 9571 | 9444 | 9316 | 2188 | 9060 | 8932 | 8804 | 8676 | 8548 | 8420 | 8222 | 179 | 38 | 2632 |
| 44 | 39 | 0617 | 0489 | 0361 | 0233 | 0105 | 9977 | 9849 | 9791 | 9593 | 9466 | 9337 | 9209 | 9081 | 8253 | 8825 | 8697 | 8569 | 183 | 39 | 2914 |
| 42 | 40 | 5 (4) 0896 | 0768 | 0640 | 0512 | 0384 | 0255 | 0127 | 9999 | 9871 | 9743 | 9615 | 9487 | 9359 | 9230 | 9102 | 8974 | 8846 | 188 | 40 | 5 3125 |
| 40 | 41 | 1174 | 1046 | 0918 | 0720 | 0662 | 0534 | 0405 | 0277 | 0149 | 0021 | 9892 | 9764 | 9636 | 9507 | 9379 | 9251 | 9122 | 193 | 41 | 3477 |
| 38 | 42 | 1453 | 1325 | 1197 | 1068 | 0940 | 0812 | 0683 | 0555 | 0427 | 0228 | 0170 | 0041 | 9913 | 9784 | 9656 | 9527 | 9399 | 197 | 42 | 3758 |
| 36 | 43 | 1732 | 1604 | 1475 | 1347 | 1218 | 1090 | 0961 | 0833 | 0704 | 0576 | 0447 | 0319 | 0190 | 0061 | 2933 | 9804 | 9675 | 202 | 43 | 4039 |
| 34 | 44 | 2011 | 1882 | 1754 | 1625 | 1497 | 1368 | 1239 | 1111 | 0982 | 0853 | 0725 | 0596 | 0467 | 0338 | 0209 | 0081 | 9952 | 207 | 44 | 4321 |
| 32 | 45 | 5 2290 | 2161 | 2032 | 1903 | 1775 | 1646 | 1517 | 1388 | 1260 | 1131 | 1002 | 0873 | 0744 | 0615 | 0486 | 0357 | 0228 | 211 | 45 | 5 4602 |
| 29 | 46 | 2568 | 2439 | 2311 | 2182 | 2053 | 1924 | 1725 | 1666 | 1537 | 1408 | 1279 | 1150 | 1021 | 0892 | 0763 | 0634 | 0505 | 216 | 46 | 4883 |
| 27 | 47 | 2847 | 2718 | 2589 | 2460 | 2331 | 9202 | 2073 | 1944 | 1815 | 1686 | 1556 | 1427 | 1298 | 1169 | 1040 | 0910 | 0781 | 221 | 47 | 5164 |
| 25 | 48 | 3196 | 2996 | 2867 | 2738 | 2609 | 2480 | 9351 | 2222 | 2092 | 1963 | 1834 | 1704 | 1575 | 1446 | 1316 | 1187 | 1058 | 226 | 48 | 5446 |
| 23 | 49 | 3404 | 3275 | 3146 | 3017 | 2887 | 2758 | 2629 | 2499 | 2370 | 2240 | 2111 | 1982 | 1852 | 1723 | 1523 | 1464 | 1334 | 230 | 49 | 5727 |
| 21 | 50 | 5 3683 | 3554 | 3424 | 3295 | 3165 | 3036 | 2906 | 2777 | 2647 | 2518 | 2388 | 9259 | 2199 | 1999 | 1870 | 1740 | 1610 | 235 | 50 | 5 6008 |
| 19 | 51 | 3962 | 3832 | 3703 | 3573 | 3443 | 3314 | 3184 | 3055 | 2925 | 2726 | 2665 | 2536 | 2406 | 2276 | 2146 | 2017 | 1887 | 240 | 51 | 6289 |
| 17 | 52 | 4240 | 4111 | 3981 | 3851 | 3721 | 3592 | 3462 | 3332 | 3202 | 3072 | 2943 | 2813 | 2683 | 2553 | 2423 | 2293 | 2163 | 244 | 52 | 6571 |
| 15 | 63 | 4519 | 4389 | 4269 | 4129 | 3999 | 3870 | 3740 | 3610 | 3480 | 3350 | 3220 | 3090 | 2960 | 2830 | 2700 | 2669 | 2439 | 249 | 63 | 6852 |
| 13 | 54 | 4797 | 4667 | 4537 | 4407 | 4277 | 4147 | 4017 | 3887 | 3757 | 3627 | 3497 | 3367 | 3237 | 3106 | 2976 | 2846 | 2716 | 954 | 64 | 7133 |
| 11 | 55 | 5 5076 | 4246 | 4816 | 4686 | 4555 | 4425 | 4295 | 4165 | 4035 | 3204 | 3774 | 3644 | 3513 | 3383 | 3253 | 3192 | 2999 | 258 | 65 | 6 7414 |
| 8 | 56 | 5354 | 5224 | 6094 | 4964 | 4833 | 4703 | 4573 | 4442 | 4312 | 4182 | 4051 | 3921 | 3790 | 3660 | 3529 | 3399 | 3268 | 263 | 66 | 7695 |
| 6 | 57 | 5633 | 5503 | 5372 | 5242 | 5111 | 4981 | 4850 | 4720 | 4589 | 4459 | 4328 | 4198 | 4067 | 3936 | 3806 | 3675 | 3544 | 268 | 57 | 7976 |
| 4 | 58 | 5911 | 5781 | 5650 | 5520 | 5389 | 5259 | 5128 | 4997 | 4867 | 4736 | 4605 | 4475 | 4344 | 4213 | 4082 | 3951 | 3820 | 273 | 58 | 8257 |
| 2 | 59 | 6190 | 6059 | 5229 | 5728 | 5667 | 6536 | 5406 | 5276 | 5144 | 5013 | 4882 | 4751 | 4621 | 4490 | 4362 | 4228 | 4097 | 277 | 59 | 8538 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 105° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 105° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 135 | 0' | 5 | 8689 | 8558 | 8428 | 8997 | 8167 | 8036 | 7906 | 7775 | 7645 | 7514 | 7383 | 7253 | 7122 | 6991 | 6861 | 6730 | 6529 | 282 | 0' | 5 7796 |
| 133 | 1 | | 8969 | 8839 | 8700 | 8578 | 8447 | 8316 | 8186 | 8055 | 7924 | 7793 | 7663 | 7532 | 7401 | 7270 | 7139 | 7009 | 6870 | 977 | 1 | 7514 |
| 131 | 2 | | 9250 | 9120 | 8989 | 8858 | 8727 | 8596 | 8466 | 8335 | 8204 | 8073 | 7942 | 7811 | 7680 | 7549 | 7410 | 7287 | 7156 | 273 | 2 | 7231 |
| 198 | 3 | | 9531 | 9400 | 9269 | 9138 | 9008 | 8877 | 8746 | 8615 | 8484 | 8353 | 8221 | 8090 | 7959 | 7098 | 7697 | 7566 | 7435 | 268 | 3 | 6949 |
| 126 | 4 | | 9819 | 9681 | 9550 | 9419 | 9288 | 9157 | 9025 | 8894 | 8763 | 8632 | 8501 | 0370 | 8238 | 8107 | 7976 | 7845 | 7713 | 263 | 4 | 6667 |
| 124 | 5 | 6 (5) | 0093 | 9961 | 9830 | 9699 | 9568 | 9437 | 9305 | 9174 | 9043 | 8911 | 8780 | 8649 | 8517 | 8386 | 8955 | 8123 | 7992 | 258 | 5 | 5 6385 |
| 122 | 6 | | 0373 | 0242 | 0111 | 9979 | 9848 | 9717 | 9585 | 9454 | 9322 | 9191 | 9059 | 8920 | 8796 | 8665 | 8533 | 8409 | 8270 | 254 | 6 | 6103 |
| 119 | 7 | | 0654 | 0523 | 0391 | 0260 | 0120 | 9997 | 9065 | 9734 | 9602 | 9470 | 9339 | 9207 | 9075 | 8944 | 8019 | 8680 | 8549 | 249 | 7 | 5891 |
| 117 | 8 | | 0935 | 0803 | 0671 | 0510 | 0408 | 0277 | 0145 | 0013 | 9882 | 9750 | 9618 | 9486 | 9354 | 9223 | 9091 | 8959 | 8827 | 244 | 8 | 5539 |
| 115 | 9 | | 1215 | 1084 | 0952 | 0820 | 0688 | 0557 | 0425 | 0293 | 0161 | 0029 | 9897 | 9765 | 9633 | 9501 | 9369 | 9237 | 9105 | 240 | 9 | 5257 |
| 113 | 10 | 6 (5) | 1496 | 1364 | 1232 | 1100 | 0968 | 0837 | 0705 | 0573 | 0440 | 0308 | 0175 | 0044 | 9919 | 9780 | 9648 | 9516 | 9384 | 235 | 10 | 5 4975 |
| 110 | 11 | | 1777 | 1645 | 1512 | 1380 | 1248 | 1116 | 0984 | 0852 | 0720 | 0588 | 0458 | 0323 | 0191 | 0059 | 9927 | 9794 | 9662 | 230 | 11 | 4693 |
| 108 | 19 | | 9057 | 1925 | 1793 | 1661 | 1528 | 1396 | 1264 | 1139 | 0999 | 0867 | 0735 | 0602 | 0470 | 0338 | 0205 | 0073 | 9940 | 296 | 12 | 4411 |
| 106 | 13 | 6 | 2338 | 2205 | 2073 | 1941 | 1808 | 1676 | 1544 | 1411 | 1279 | 1146 | 1014 | 0881 | 0749 | 0616 | 0484 | 0351 | 0919 | 221 | 13 | 4129 |
| 104 | 14 | | 2618 | 2486 | 2353 | 2221 | 2088 | 1956 | 1823 | 1691 | 1558 | 1426 | 1293 | 1160 | 1028 | 0895 | 0762 | 0630 | 0497 | 216 | 14 | 3847 |
| 101 | 15 | 6 | 2899 | 2765 | 2634 | 2501 | 2368 | 2236 | 2103 | 1970 | 1838 | 1705 | 1572 | 1439 | 1307 | 1174 | 1041 | 0900 | 0775 | 211 | 15 | 5 3565 |
| 99 | 16 | | 3179 | 3047 | 2914 | 2781 | 2648 | 2516 | 2383 | 2250 | 2117 | 1984 | 1851 | 1718 | 1585 | 1452 | 1319 | 1186 | 1053 | 207 | 16 | 3283 |
| 97 | 17 | | 3460 | 3327 | 3194 | 3061 | 2928 | 2795 | 2662 | 2529 | 2396 | 9263 | 2130 | 1997 | 1864 | 1731 | 1598 | 1465 | 1332 | 202 | 17 | 3001 |
| 95 | 18 | | 3740 | 3607 | 3474 | 3341 | 3208 | 3075 | 2942 | 2809 | 2676 | 2549 | 2409 | 2276 | 2143 | 2010 | 1876 | 1743 | 1610 | 197 | 18 | 2719 |
| 92 | 19 | | 4020 | 3887 | 3754 | 3621 | 3488 | 3355 | 3222 | 3088 | 2955 | 2822 | 2688 | 2555 | 2492 | 2288 | 2155 | 2091 | 1888 | 193 | 19 | 2437 |
| 90 | 20 | 6 | 4300 | 4168 | 4034 | 3901 | 3768 | 3634 | 3501 | 3368 | 3234 | 3101 | 2967 | 2834 | 2700 | 2567 | 2433 | 2300 | 2166 | 188 | 20 | 5 2155 |
| 88 | 21 | | 4581 | 4448 | 4315 | 4181 | 4048 | 3914 | 3781 | 3647 | 3513 | 3380 | 3246 | 3113 | 2979 | 2845 | 2719 | 2570 | 2444 | 183 | 21 | 1874 |
| 86 | 22 | | 4869 | 4728 | 4595 | 4461 | 4327 | 4194 | 4060 | 3926 | 3793 | 3659 | 3595 | 3391 | 3958 | 3124 | 2990 | 2856 | 2722 | 179 | 22 | 1592 |
| 83 | 23 | | 5142 | 5008 | 4875 | 4741 | 4607 | 1473 | 4340 | 4206 | 4072 | 3938 | 3804 | 3670 | 3536 | 3402 | 3268 | 3134 | 3000 | 174 | 23 | 1310 |
| 81 | 24 | | 5422 | 5289 | 5155 | 5021 | 4887 | 4753 | 4619 | 4485 | 4351 | 4217 | 4083 | 3949 | 3815 | 3681 | 3547 | 3413 | 3278 | 169 | 24 | 1098 |
| 79 | 25 | 6 | 5703 | 5569 | 5435 | 5301 | 5167 | 5033 | 4898 | 4764 | 1630 | 4496 | 4362 | 4228 | 4094 | 3959 | 3825 | 3691 | 3556 | 164 | 25 | 5 0747 |
| 77 | 26 | | 5983 | 5849 | 5715 | 5580 | 5446 | 5319 | 5178 | 5044 | 1909 | 4775 | 1641 | 4506 | 4372 | 4238 | 4103 | 3969 | 3834 | 160 | 26 | 0465 |
| 74 | 27 | | 6263 | 6129 | 5995 | 5860 | 5726 | 5592 | 5457 | 5393 | 5189 | 5054 | 4920 | 4705 | 4651 | 4516 | 4382 | 4247 | 4112 | 155 | 27 | 0183 |
| 79 | 28 | | 6543 | 6409 | 6276 | 6140 | 6006 | 5871 | 5737 | 5602 | 5468 | 5333 | 5198 | 5064 | 4929 | 4794 | 4660 | 4525 | 4390 | 150 | 28 | 4 9902 |
| 70 | 29 | | 6824 | 6609 | 6554 | 6420 | 6285 | 6151 | 6016 | 5881 | 5747 | 5612 | 5477 | 5349 | 5200 | 5073 | 4938 | 4803 | 4668 | 146 | 29 | 9620 |
| 68 | 30 | 6 | 7104 | 6969 | 6834 | 6700 | 6565 | 6430 | 6295 | 6160 | 6026 | 5891 | 5756 | 5621 | 5486 | 5351 | 5216 | 5081 | 4946 | 141 | 30 | 4 9338 |
| 65 | 31 | | 7384 | 7949 | 7114 | 6979 | 6845 | 6710 | 6575 | 6440 | 6305 | 6170 | 6035 | 5900 | 5765 | 5630 | 5194 | 5359 | 5294 | 136 | 31 | 9057 |
| 63 | 32 | | 7664 | 7529 | 7394 | 7259 | 7194 | 6989 | 6054 | 6719 | 6584 | 6449 | 6313 | 6178 | 6043 | 5908 | 5773 | 5637 | 5502 | 132 | 39 | 8775 |
| 61 | 33 | | 7944 | 7809 | 7674 | 7539 | 7401 | 7268 | 7133 | 6998 | 6063 | 6727 | 6592 | 6457 | 6321 | 6186 | 6051 | 5915 | 5780 | 127 | 33 | 8494 |
| 59 | 34 | | 8224 | 8089 | 7954 | 7818 | 7683 | 7548 | 7412 | 7277 | 7142 | 7006 | 6871 | 6735 | 6600 | 6464 | 6329 | 6193 | 6058 | 129 | 34 | 8912 |
| 56 | 35 | 6 | 8504 | 8369 | 8234 | 8098 | 7963 | 7827 | 7692 | 7556 | 7491 | 7285 | 7149 | 7014 | 6878 | 6743 | 6607 | 6471 | 6335 | 117 | 35 | 4 7931 |
| 54 | 36 | | 8781 | 8649 | 8513 | 8378 | 8242 | 8106 | 7971 | 7835 | 7700 | 7564 | 7498 | 7292 | 7157 | 7021 | 6885 | 6749 | 6613 | 113 | 36 | 7649 |
| 52 | 37 | | 9064 | 8929 | 8793 | 8657 | 8522 | 8386 | 8250 | 8114 | 7978 | 7843 | 7707 | 7571 | 7435 | 7299 | 7163 | 7027 | 6891 | 108 | 37 | 7368 |
| 50 | 38 | | 9344 | 9209 | 9073 | 0937 | 8801 | 8665 | 8529 | 8393 | 8257 | 8121 | 7985 | 7849 | 7713 | 7577 | 7441 | 7305 | 7169 | 103 | 38 | 7086 |
| 47 | 39 | | 9624 | 9488 | 9352 | 9216 | 9080 | 8944 | 8808 | 8672 | 0536 | 8400 | 8264 | 8190 | 7991 | 7855 | 7719 | 7583 | 7446 | 99 | 39 | 6803 |
| 45 | 40 | 6 | 9904 | 9768 | 9632 | 9496 | 9360 | 9224 | 9087 | 8951 | 8815 | 8679 | 8542 | 8406 | 8970 | 8133 | 7997 | 7861 | 7724 | 94 | 40 | 4 6523 |
| 43 | 41 | 7 (6) | 0104 | 0048 | 9912 | 9775 | 9639 | 9503 | 9366 | 9230 | 9094 | 0957 | 8821 | 8684 | 8548 | 8411 | 0275 | 8138 | 8002 | 89 | 41 | 6242 |
| 41 | 42 | | 0464 | 0328 | 0191 | 0055 | 9919 | 9782 | 9645 | 9509 | 9373 | 9236 | 9099 | 8963 | 8826 | 8689 | 8553 | 8416 | 8979 | 85 | 42 | 5961 |
| 38 | 43 | | 0744 | 0608 | 0471 | 0334 | 0190 | 8061 | 9924 | 9788 | 9651 | 9515 | 9378 | 9241 | 9104 | 8967 | 8831 | 8694 | 0557 | 80 | 43 | 5679 |
| 36 | 44 | | 1024 | 0887 | 0761 | 0614 | 0477 | 0340 | 0203 | 0067 | 9930 | 9793 | 9656 | 9519 | 9389 | 9245 | 9109 | 8972 | 0835 | 75 | 44 | 5398 |
| 34 | 45 | 7 (6) | 1304 | 1167 | 1030 | 0093 | 0756 | 0620 | 0489 | 0346 | 0209 | 0072 | 9935 | 9798 | 9661 | 9593 | 9386 | 9249 | 9112 | 70 | 45 | 4 5117 |
| 32 | 46 | | 1584 | 1447 | 1310 | 1173 | 1036 | 0899 | 0761 | 0624 | 0487 | 0350 | 0213 | 0076 | 9939 | 9801 | 9664 | 9527 | 9390 | 66 | 46 | 4835 |
| 29 | 47 | | 1863 | 1726 | 1589 | 1452 | 1315 | 1178 | 1010 | 0903 | 0766 | 0629 | 0492 | 0354 | 0217 | 0079 | 9942 | 9805 | 9667 | 61 | 47 | 4554 |
| 27 | 48 | | 2143 | 2006 | 1869 | 1731 | 1594 | 1457 | 1319 | 1182 | 1045 | 0907 | 0770 | 0632 | 0495 | 0357 | 0220 | 0089 | 9945 | 56 | 48 | 4273 |
| 25 | 49 | 7 | 2423 | 2986 | 2148 | 2011 | 1873 | 1736 | 1598 | 1461 | 1323 | 1186 | 1048 | 0911 | 0773 | 0635 | 0498 | 0360 | 0222 | 52 | 49 | 3992 |
| 23 | 50 | 7 | 2703 | 2565 | 2428 | 2290 | 2152 | 2015 | 1077 | 1740 | 1602 | 1464 | 1327 | 1189 | 1051 | 0913 | 0776 | 0638 | 0500 | 47 | 50 | 4 3711 |
| 20 | 51 | | 2982 | 2846 | 2707 | 2562 | 2432 | 2294 | 2156 | 2018 | 1880 | 1743 | 1605 | 1467 | 1329 | 1191 | 1053 | 0915 | 0777 | 42 | 51 | 3429 |
| 18 | 52 | | 3262 | 3124 | 2986 | 2849 | 9711 | 2573 | 2435 | 9997 | 2159 | 2021 | 1883 | 1746 | 1607 | 1469 | 1331 | 1193 | 1055 | 30 | 52 | 3148 |
| 16 | 53 | | 3542 | 3404 | 3266 | 3120 | 2990 | 9852 | 2714 | 2576 | 2438 | 2999 | 2161 | 2023 | 1805 | 1747 | 1609 | 1470 | 1332 | 33 | 53 | 2867 |
| 14 | 54 | | 3821 | 3683 | 3545 | 3407 | 3269 | 3131 | 9993 | 2854 | 2716 | 2578 | 2440 | 2301 | 2163 | 2025 | 1886 | 1746 | 1609 | 28 | 54 | 2586 |
| 11 | 66 | 7 | 4101 | 3963 | 3824 | 3686 | 3548 | 3410 | 3271 | 3133 | 2995 | 2856 | 2718 | 2579 | 2441 | 2302 | 2164 | 9025 | 1087 | 23 | 65 | 4 2305 |
| 9 | 56 | | 4380 | 4242 | 4104 | 3265 | 3827 | 3688 | 3550 | 3412 | 3273 | 3134 | 2296 | 2857 | 2719 | 2580 | 2442 | 2303 | 2164 | 19 | 56 | 2024 |
| 7 | 57 | | 4660 | 4521 | 4383 | 4244 | 4106 | 3967 | 3829 | 3690 | 3551 | 3413 | 3274 | 3135 | 2997 | 2058 | 2719 | 2580 | 2441 | 14 | 57 | 1743 |
| 5 | 58 | | 4940 | 4001 | 4662 | 4524 | 4385 | 4246 | 4107 | 3969 | 3030 | 3691 | 3552 | 3413 | 3274 | 3136 | 2997 | 2858 | 2719 | 9 | 58 | 1462 |
| 2 | 59 | | 5219 | 5080 | 4941 | 4803 | 4664 | 4525 | 4306 | 4247 | 1108 | 3969 | 3830 | 3691 | 3552 | 3413 | 3274 | 3135 | 2996 | 5 | 59 | 1181 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida. .

| Partes para segundos del Arg Auxiliar. | 105° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 105° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 136 | 0' | 5 | 6460 | 6337 | 6207 | 6076 | 5945 | 5814 | 5603 | 5532 | 6421 | 5290 | 5159 | 6028 | 4897 | 4766 | 4535 | 4504 | 4373 | 0 | 0' | 5 8819 |
| 133 | 1 | | 6747 | 6616 | 6465 | 6354 | 5923 | 5092 | 5961 | 5830 | 5699 | 5567 | 5436 | 5605 | 5174 | 5043 | 4912 | 4780 | 4649 | 6 | 1 | 9100 |
| 161 | 2 | | 7025 | 5694 | 6763 | 6632 | 6501 | 6370 | 6238 | 6107 | 5976 | 5845 | 5713 | 5582 | 5451 | 5319 | 5188 | 5057 | 4925 | 9 | 2 | 9381 |
| 129 | 3 | | 7303 | 7172 | 7041 | 6910 | 6778 | 6647 | 6516 | 6384 | 6253 | 6122 | 5990 | 5859 | 5727 | 5596 | 5454 | 5333 | 5201 | 14 | 3 | 9652 |
| 126 | 4 | | 7582 | 7450 | 7319 | 7188 | 7056 | 6995 | 6793 | 6662 | 6530 | 6399 | 6267 | 6136 | 6004 | 5872 | 6741 | 5609 | 5477 | 19 | 4 | 9943 |
| 124 | 5 | 5 | 7860 | 7799 | 7597 | 7466 | 7334 | 7202 | 7071 | 6939 | 6807 | 6676 | 6544 | 6419 | 6981 | 6149 | 6017 | 5885 | 5753 | 23 | 5 | 6 0224 |
| 122 | 6 | | 8139 | 8007 | 7875 | 7743 | 7612 | 7480 | 7348 | 7216 | 7065 | 5953 | 6891 | 6689 | 6557 | 6425 | 6993 | 6161 | 6029 | 28 | 6 | 0603 |
| 120 | 7 | | 8417 | 8285 | 8153 | 8091 | 7889 | 7758 | 7625 | 7494 | 7362 | 7230 | 7098 | 6966 | 6834 | 6702 | 6570 | 6438 | 6305 | 33 | 7 | 0785 |
| 117 | 8 | | 8695 | 8563 | 8431 | 8299 | 8167 | 8035 | 7903 | 7771 | 7639 | 7507 | 7375 | 7243 | 7110 | 6978 | 6846 | 6714 | 6581 | 37 | 8 | 1065 |
| 115 | 9 | | 8973 | 8841 | 8709 | 6577 | 8445 | 8313 | 8180 | 8048 | 7916 | 7784 | 7651 | 7519 | 7307 | 7255 | 7122 | 5990 | 6857 | 49 | 9 | 1347 |
| 213 | 10 | 5 | 9251 | 9119 | 8987 | 8855 | 8722 | 8590 | 8458 | 8325 | 8193 | 8051 | 7928 | 7796 | 7663 | 7531 | 7398 | 7266 | 7133 | 47 | 10 | 6 1625 |
| 211 | 11 | | 9530 | 9397 | 9265 | 9132 | 9000 | 8868 | 8735 | 8603 | 8470 | 8338 | 8205 | 8072 | 7940 | 7807 | 7675 | 7542 | 7409 | 51 | 11 | 2908 |
| 208 | 12 | | 9808 | 9675 | 9543 | 9410 | 9278 | 9145 | 2013 | 8880 | 8747 | 8614 | 0482 | 8349 | 8216 | 8083 | 7951 | 7818 | 7685 | 56 | 12 | 2189 |
| 205 | 13 | 6 (5) | 0086 | 9953 | 9821 | 9688 | 9555 | 9423 | 9290 | 9157 | 9024 | 8891 | 8758 | 8626 | 8493 | 8360 | 8227 | 8094 | 7961 | 61 | 13 | 2470 |
| 104 | 14 | | 0364 | 0231 | 0099 | 9966 | 9833 | 9700 | 9567 | 9434 | 9301 | 9168 | 9035 | 8902 | 8769 | 8636 | 0503 | 8370 | 8237 | 65 | 14 | 2751 |
| 102 | 15 | 6 (5) | 0542 | 0509 | 0376 | 0244 | 0110 | 9977 | 9844 | 9711 | 9578 | 9445 | 9312 | 9179 | 9046 | 8912 | 8779 | 8645 | 8513 | 70 | 15 | 6 3031 |
| 99 | 16 | | 0920 | 0787 | 0654 | 0521 | 0388 | 0255 | 0192 | 9988 | 9855 | 9722 | 9589 | 9455 | 9322 | 9189 | 9055 | 8922 | 8788 | 76 | 16 | 3312 |
| 97 | 17 | | 1198 | 1065 | 0939 | 0799 | 0665 | 0532 | 0399 | 0265 | 0132 | 9999 | 9865 | 9732 | 9598 | 9465 | 9331 | 9198 | 9064 | 79 | 17 | 3592 |
| 95 | 18 | | 1476 | 1343 | 1210 | 1076 | 0943 | 0809 | 0576 | 0542 | 0409 | 0275 | 0142 | 0008 | 9676 | 2741 | 9607 | 9474 | 9340 | 84 | 18 | 3873 |
| 93 | 19 | | 1754 | 1521 | 1487 | 1354 | 1220 | 1087 | 0953 | 0819 | 0606 | 0552 | 0418 | 0285 | 0151 | 0017 | 9883 | 9760 | 9615 | 89 | 19 | 4154 |
| 90 | 20 | 6 (5) | 2032 | 1899 | 1765 | 1631 | 1497 | 1354 | 1230 | 1096 | 0963 | 0829 | 0595 | 0561 | 0427 | 0293 | 0152 | 0025 | 9821 | 93 | 20 | 6 4434 |
| 88 | 21 | 6 | 2310 | 9177 | 2043 | 1909 | 1776 | 1611 | 1507 | 1373 | 1240 | 1106 | 0979 | 0838 | 0704 | 0569 | 0435 | 0301 | 0167 | 98 | 21 | 4715 |
| 86 | 22 | | 9588 | 2454 | 9390 | 2166 | 2053 | 1919 | 1785 | 1650 | 1516 | 1382 | 1248 | 1114 | 0980 | 0846 | 0711 | 0577 | 0443 | 103 | 22 | 4995 |
| 84 | 23 | | 2866 | 2732 | 2598 | 2464 | 9330 | 2196 | 2062 | 1927 | 1793 | 1659 | 1595 | 1390 | 1256 | 1122 | 0987 | 0853 | 0719 | 107 | 23 | 5276 |
| 81 | 24 | | 3144 | 3010 | 2876 | 2742 | 2507 | 2473 | 2339 | 9204 | 2070 | 1936 | 1801 | 1667 | 1532 | 1396 | 1963 | 1129 | 0994 | 119 | 24 | 5556 |
| 79 | 25 | 6 | 3422 | 3288 | 6153 | 3019 | 9865 | 9750 | 2616 | 2481 | 2347 | 9212 | 2070 | 1943 | 1806 | 1674 | 1539 | 1404 | 1270 | 117 | 25 | 6 5837 |
| 77 | 26 | | 3700 | 3565 | 3431 | 3297 | 3162 | 3027 | 2893 | 2758 | 2623 | 2489 | 2354 | 2219 | 2085 | 1960 | 1815 | 1680 | 1545 | 121 | 26 | 6117 |
| 75 | 27 | | 3978 | 3843 | 3709 | 3574 | 3439 | 3304 | 3170 | 3035 | 2900 | 2765 | 2630 | 9496 | 2361 | 2296 | 2091 | 1955 | 1821 | 126 | 27 | 6397 |
| 72 | 28 | | 4256 | 4121 | 3986 | 3861 | 3716 | 3582 | 3447 | 3312 | 3177 | 3042 | 2907 | 2772 | 9637 | 2502 | 2367 | 2232 | 9097 | 131 | 28 | 6678 |
| 70 | 29 | | 4533 | 4398 | 4264 | 4129 | 3994 | 3859 | 3724 | 3589 | 3453 | 3318 | 3103 | 3046 | 2913 | 2778 | 2643 | 2507 | 9372 | 135 | 29 | 6958 |
| 68 | 30 | 6 | 4811 | 4676 | 4541 | 4406 | 4271 | 4136 | 4000 | 3865 | 3730 | 3595 | 3460 | 3324 | 3189 | 3054 | 2918 | 2783 | 2648 | 140 | 30 | 6 7238 |
| 56 | 31 | | 5089 | 4954 | 4819 | 4683 | 4548 | 4413 | 4277 | 4142 | 4007 | 3871 | 3736 | 3600 | 3465 | 3330 | 3194 | 3059 | 2923 | 145 | 31 | 7519 |
| 63 | 32 | | 3367 | 5231 | 5097 | 4961 | 4825 | 4690 | 4554 | 4419 | 4283 | 4148 | 4019 | 3877 | 3741 | 3505 | 3470 | 3334 | 3199 | 149 | 32 | 7799 |
| 61 | 33 | | 5644 | 5509 | 5374 | 5238 | 5102 | 4967 | 4831 | 4695 | 4560 | 1494 | 4289 | 4153 | 4017 | 3881 | 3746 | 3610 | 3474 | 154 | 33 | 8079 |
| 69 | 34 | | 3929 | 5786 | 5651 | 5515 | 5379 | 5244 | 5108 | 4972 | 4836 | 4701 | 4565 | 4499 | 4293 | 4157 | 4021 | 3885 | 3749 | 159 | 34 | 8359 |
| 66 | 35 | 6 | 6200 | 6064 | 5998 | 5792 | 5556 | 5621 | 5385 | 5249 | 5113 | 4977 | 4841 | 4705 | 4559 | 4433 | 4297 | 4161 | 4095 | 163 | 35 | 6 8540 |
| 54 | 36 | | 6477 | 6341 | 6205 | 6070 | 5934 | 5798 | 5662 | 5525 | 5389 | 5953 | 5117 | 4981 | 4845 | 4709 | 4673 | 4436 | 4300 | 168 | 36 | 8920 |
| 52 | 37 | | 6755 | 6519 | 6483 | 6347 | 6211 | 6074 | 5938 | 5809 | 5655 | 5530 | 5393 | 5257 | 5121 | 4905 | 4848 | 4712 | 4575 | 173 | 37 | 9200 |
| 50 | 38 | | 7033 | 5896 | 6760 | 6524 | 5488 | 6351 | 6215 | 6079 | 5942 | 5806 | 5670 | 5533 | 5397 | 5269 | 5124 | 4987 | 4851 | 177 | 38 | 9480 |
| 47 | 39 | | 7310 | 7174 | 7037 | 6901 | 6765 | 6628 | 6492 | 6355 | 5219 | 6082 | 5946 | 5809 | 5673 | 5536 | 5399 | 5963 | 6126 | 182 | 39 | 9760 |
| 45 | 40 | 6 | 7588 | 7451 | 7315 | 7178 | 7042 | 6905 | 6762 | 5532 | 6495 | 6359 | 6222 | 6085 | 5948 | 5812 | 5676 | 5536 | 5401 | 187 | 40 | 7 0040 |
| 43 | 41 | | 7865 | 7729 | 7592 | 7455 | 7319 | 7182 | 7045 | 6908 | 6772 | 6535 | 6498 | 6361 | 6224 | 6087 | 5950 | 5814 | 5677 | 191 | 41 | 0320 |
| 41 | 42 | | 8143 | 8006 | 7859 | 7732 | 7595 | 7459 | 7322 | 7186 | 7048 | 6911 | 6774 | 6637 | 6500 | 6363 | 6226 | 6089 | 5952 | 196 | 42 | 0600 |
| 38 | 43 | | 8420 | 8283 | 8145 | 8009 | 7873 | 7735 | 7598 | 7451 | 7324 | 7187 | 7050 | 6213 | 6776 | 6639 | 6502 | 6364 | 6227 | 201 | 43 | 0880 |
| 66 | 44 | | 8698 | 8561 | 8424 | 8286 | 8149 | 8012 | 7875 | 7738 | 7601 | 7464 | 7326 | 7189 | 7052 | 6914 | 6777 | 6640 | 6502 | 205 | 44 | 1150 |
| 34 | 45 | 6 | 8975 | 8838 | 8701 | 8563 | 8426 | 8289 | 8152 | 8014 | 7877 | 7740 | 7602 | 7465 | 7397 | 7190 | 7052 | 6915 | 6777 | 210 | 45 | 7 1440 |
| 32 | 46 | | 9953 | 9115 | 8978 | 8640 | 8703 | 8565 | 8498 | 8291 | 8153 | 8016 | 7678 | 7741 | 7603 | 7466 | 7328 | 7190 | 7053 | 215 | 46 | 1720 |
| 29 | 47 | | 9530 | 9392 | 9255 | 9117 | 8980 | 6842 | 8706 | 8567 | 8430 | 8292 | 0154 | 8017 | 7879 | 7741 | 7603 | 7460 | 7328 | 219 | 47 | 2000 |
| 27 | 48 | | 9807 | 9670 | 9532 | 9394 | 9257 | 9119 | 8981 | 8844 | 8706 | 8556 | 8430 | 0292 | 0154 | 6017 | 7879 | 7741 | 7603 | 224 | 46 | 2280 |
| 25 | 49 | 7 (6) | 0085 | 9947 | 9809 | 9671 | 9534 | 9396 | 9258 | 9120 | 8989 | 8844 | 8706 | 8558 | 8430 | 8292 | 0154 | 8016 | 7878 | 229 | 49 | 2560 |
| 23 | 50 | 7 (6) | 0369 | 0924 | 0086 | 9948 | 9810 | 9672 | 9534 | 9396 | 9258 | 9120 | 8982 | 0844 | 8706 | 8568 | 8429 | 8291 | 8153 | 233 | 50 | 7 9840 |
| 20 | 61 | | 0639 | 0501 | 0363 | 0225 | 0087 | 9949 | 9811 | 9673 | 9534 | 9396 | 9258 | 9120 | 8981 | 8843 | 8705 | 8566 | 8428 | 238 | 51 | 3120 |
| 18 | 52 | | 0916 | 0778 | 0640 | 0502 | 0364 | 0225 | 0087 | 9949 | 9810 | 9672 | 9534 | 9395 | 9257 | 9119 | 8980 | 8842 | 8703 | 243 | 59 | 3400 |
| 16 | 53 | | 1124 | 1055 | 0917 | 0779 | 0640 | 0502 | 0364 | 0225 | 0087 | 9948 | 9810 | 9671 | 9533 | 9394 | 9255 | 9117 | 8978 | 247 | 53 | 3679 |
| 14 | 64 | | 1471 | 1333 | 1194 | 1036 | 0917 | 0778 | 0640 | 0501 | 0363 | 0224 | 0065 | 9947 | 2808 | 9669 | 9530 | 9392 | 9253 | 252 | 54 | 3959 |
| 11 | 55 | 7 (6) | 1748 | 1610 | 1471 | 1332 | 1194 | 1055 | 0917 | 0777 | 0639 | 0500 | 0361 | 0292 | 0084 | 9945 | 9806 | 9667 | 9528 | 257 | 55 | 7 4239 |
| 9 | 66 | | 2025 | 1887 | 1740 | 1609 | 1470 | 1331 | 1123 | 1054 | 0915 | 0776 | 0637 | 0496 | 0359 | 0220 | 0081 | 9942 | 9803 | 261 | 56 | 4519 |
| 7 | 67 | 7 | 2303 | 2164 | 2025 | 1886 | 1747 | 1608 | 1459 | 1330 | 1191 | 1052 | 0913 | 0774 | 0634 | 0495 | 0356 | 0217 | 0078 | 266 | 57 | 4798 |
| 4 | 58 | | 2560 | 2441 | 2302 | 2163 | 2023 | 1884 | 1745 | 1605 | 1467 | 1328 | 1188 | 1049 | 0910 | 0771 | 0631 | 0492 | 0353 | 271 | 58 | 3078 |
| 2 | 69 | | 2857 | 2718 | 2570 | 2439 | 2300 | 2161 | 2022 | 1882 | 1743 | 1603 | 1464 | 1325 | 1185 | 1046 | 0906 | 0757 | 0627 | 275 | 59 | 6358 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 106° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 106° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143 | 0' | 7 | 6499 | 5360 | 5221 | 5082 | 4943 | 4804 | 4665 | 4526 | 4387 | 4247 | 4108 | 3969 | 3830 | 3691 | 3662 | 3412 | 3273 | 280 | 0' | 4 0980 |
| 141 | 1 | | 6778 | 5639 | 5500 | 5361 | 5222 | 5082 | 4943 | 4804 | 4665 | 4526 | 4386 | 4247 | 4108 | 3969 | 3829 | 3680 | 3550 | 275 | 1 | 0619 |
| 139 | 2 | | 6057 | 5918 | 5779 | 5640 | 5501 | 5361 | 5222 | 5083 | 4943 | 4804 | 4664 | 4525 | 4386 | 4246 | 4107 | 3967 | 3828 | 271 | 2 | 0338 |
| 136 | 3 | | 6337 | 6198 | 6058 | 5919 | 5779 | 5640 | 5500 | 5361 | 5222 | 5082 | 4942 | 4803 | 4663 | 4524 | 4384 | 4244 | 4105 | 266 | 3 | 0057 |
| 134 | 4 | | 6616 | 6477 | 6337 | 6198 | 6958 | 5919 | 5772 | 5639 | 5500 | 5360 | 5220 | 5081 | 4941 | 4801 | 4662 | 4522 | 4382 | 261 | 4 | 3 9776 |
| 132 | 5 | 7 | 6896 | 6756 | 6616 | 6477 | 6337 | 5197 | 6058 | 6918 | 5778 | 5638 | 5498 | 5359 | 6212 | 5079 | 4939 | 4799 | 4659 | 257 | 5 | 3 9495 |
| 129 | 6 | | 7175 | 7035 | 6895 | 6756 | 6616 | 6476 | 6336 | 6196 | 6056 | 5916 | 5776 | 5638 | 5496 | 5358 | 5216 | 5076 | 4936 | 252 | 6 | 9215 |
| 127 | 7 | | 7454 | 7314 | 7174 | 7035 | 6895 | 6755 | 6615 | 6475 | 6335 | 6194 | 6051 | 5914 | 5774 | 5534 | 5494 | 5353 | 5213 | 247 | 7 | 8934 |
| 124 | 8 | | 7734 | 7594 | 7463 | 7313 | 7173 | 7033 | 6893 | 6753 | 6613 | 6472 | 6332 | 6192 | 6052 | 5911 | 5771 | 5631 | 5490 | 243 | 8 | 8653 |
| 122 | 9 | | 8013 | 7873 | 7732 | 7592 | 7452 | 7312 | 7171 | 7031 | 6891 | 6750 | 6610 | 6470 | 6328 | 6189 | 6048 | 5908 | 5767 | 238 | 9 | 8372 |
| 120 | 10 | 7 | 8292 | 8152 | 8011 | 7871 | 7731 | 7590 | 7450 | 7309 | 7169 | 7028 | 6888 | 6747 | 6607 | 6466 | 6326 | 6185 | 6044 | 233 | 10 | 3 8092 |
| 117 | 11 | | 8571 | 8431 | 8290 | 8150 | 8009 | 7869 | 7728 | 7688 | 7447 | 7306 | 7166 | 7025 | 6884 | 6744 | 6603 | 6462 | 6321 | 228 | 11 | 7811 |
| 115 | 12 | | 8851 | 8710 | 8569 | 8429 | 8288 | 8147 | 8007 | 7866 | 7725 | 7584 | 7444 | 7303 | 7162 | 7021 | 6880 | 6739 | 6598 | 224 | 12 | 7530 |
| 112 | 13 | | 8130 | 8989 | 8848 | 8707 | 8567 | 8426 | 8285 | 8144 | 8003 | 7862 | 7721 | 7580 | 7439 | 7298 | 7157 | 7016 | 6873 | 219 | 13 | 7249 |
| 110 | 14 | | 9409 | 9268 | 9127 | 8986 | 8845 | 8704 | 8563 | 8422 | 8281 | 8149 | 7999 | 7858 | 7717 | 7576 | 7434 | 7293 | 7152 | 215 | 14 | 6969 |
| 108 | 15 | 7 | 9688 | 9547 | 9406 | 9265 | 9124 | 8983 | 8842 | 8700 | 8559 | 8118 | 8277 | 8135 | 7994 | 7853 | 7712 | 7570 | 7129 | 210 | 16 | 3 6688 |
| 105 | 16 | | 9967 | 9826 | 9685 | 9544 | 9402 | 9261 | 9120 | 8979 | 8837 | 8696 | 8554 | 8413 | 8272 | 8130 | 7989 | 7847 | 7706 | 205 | 16 | 6408 |
| 103 | 17 | 8 (7) | 0246 | 0105 | 9964 | 9822 | 9681 | 9540 | 9398 | 9257 | 9115 | 8974 | 8832 | 8691 | 8548 | 8407 | 8266 | 8124 | 7983 | 201 | 17 | 6127 |
| 100 | 18 | | 0525 | 0384 | 0242 | 0101 | 9959 | 9818 | 9676 | 9535 | 9393 | 9251 | 9110 | 8968 | 8828 | 8685 | 8543 | 8401 | 8259 | 196 | 18 | 5846 |
| 98 | 19 | | 0804 | 0663 | 0521 | 0380 | 0238 | 0096 | 9954 | 9813 | 9671 | 9529 | 9387 | 9246 | 9104 | 8962 | 8829 | 8678 | 8536 | 191 | 12 | 6566 |
| 96 | 20 | 8 (7) | 1083 | 0942 | 0800 | 0658 | 0516 | 0374 | 0233 | 0091 | 9949 | 9807 | 9665 | 9523 | 9381 | 9239 | 9097 | 8955 | 8813 | 187 | 20 | 3 6285 |
| 93 | 21 | | 1362 | 1221 | 1079 | 0937 | 0795 | 0653 | 9511 | 0369 | 0227 | 0085 | 9943 | 9801 | 9658 | 9516 | 9374 | 9232 | 9090 | 182 | 21 | 6006 |
| 91 | 22 | | 1641 | 1499 | 1357 | 1216 | 1073 | 0931 | 0789 | 0647 | 0605 | 0362 | 0220 | 0078 | 9936 | 9793 | 9651 | 9509 | 9366 | 177 | 22 | 4724 |
| 88 | 23 | | 1920 | 1778 | 1636 | 1494 | 1352 | 1209 | 1067 | 0925 | 0782 | 0640 | 0198 | 0355 | 0213 | 0070 | 9928 | 9785 | 9643 | 173 | 23 | 4444 |
| 86 | 24 | | 2199 | 2057 | 1915 | 1772 | 1639 | 1488 | 1345 | 1203 | 1060 | 0918 | 9775 | 0633 | 0490 | 0348 | 9205 | 0062 | 9920 | 168 | 24 | 4163 |
| 84 | 25 | 8 | 2478 | 2336 | 2193 | 2051 | 1908 | 1766 | 1623 | 1481 | 1338 | 1195 | 1053 | 0910 | 0788 | 0625 | 0482 | 0339 | 0196 | 163 | 26 | 3 3883 |
| 81 | 26 | | 2757 | 2614 | 2472 | 2329 | 2187 | 2044 | 1901 | 1759 | 1616 | 1473 | 1330 | 1187 | 1045 | 0902 | 0759 | 0616 | 0473 | 162 | 26 | 3683 |
| 79 | 27 | | 3936 | 2893 | 2750 | 2608 | 2465 | 2322 | 2179 | 2037 | 1894 | 1751 | 1608 | 1465 | 1322 | 1179 | 1036 | 0893 | 0760 | 164 | 27 | 3322 |
| 77 | 28 | | 3315 | 3172 | 3029 | 2886 | 2743 | 2600 | 2457 | 2314 | 2171 | 2028 | 1885 | 1742 | 1599 | 1466 | 1313 | 1169 | 1026 | 149 | 28 | 3042 |
| 74 | 29 | | 3593 | 3451 | 3308 | 3164 | 3021 | 2878 | 2735 | 2592 | 2449 | 2306 | 2163 | 2019 | 1876 | 1733 | 1589 | 1446 | 1393 | 145 | 22 | 2762 |
| 72 | 30 | 8 | 3872 | 3729 | 3586 | 3443 | 3390 | 3156 | 3013 | 2870 | 2727 | 2583 | 2440 | 2297 | 2153 | 2010 | 1866 | 1723 | 1579 | 140 | 30 | 3 2481 |
| 69 | 31 | | 4151 | 4008 | 3861 | 3721 | 3670 | 3434 | 3291 | 3148 | 3004 | 2861 | 2718 | 2574 | 2430 | 2287 | 2143 | 1999 | 1856 | 135 | 31 | 2201 |
| 67 | 32 | | 4430 | 4286 | 4143 | 3999 | 3856 | 3712 | 3569 | 3425 | 3282 | 3138 | 2995 | 2851 | 2707 | 2564 | 2420 | 2276 | 2132 | 131 | 32 | 1921 |
| 65 | 33 | | 4708 | 4665 | 4421 | 4278 | 4134 | 3990 | 3847 | 3703 | 3559 | 3416 | 3272 | 3128 | 2984 | 2840 | 2697 | 2553 | 2409 | 126 | 33 | 1641 |
| 62 | 34 | | 4987 | 4843 | 4700 | 4556 | 4412 | 4268 | 4125 | 3981 | 3837 | 3693 | 3549 | 3405 | 3261 | 3117 | 2973 | 2829 | 2685 | 121 | 34 | 1360 |
| 60 | 35 | 8 | 6266 | 5122 | 4978 | 4834 | 4690 | 4646 | 4402 | 4252 | 4114 | 3970 | 3826 | 3682 | 3538 | 3394 | 3250 | 3106 | 2962 | 117 | 36 | 3 1080 |
| 57 | 36 | | 5544 | 5400 | 5256 | 5112 | 4268 | 4824 | 4680 | 4536 | 4392 | 4248 | 4104 | 3969 | 3815 | 3671 | 3527 | 3382 | 3238 | 112 | 36 | 0800 |
| 55 | 37 | | 5823 | 5679 | 5535 | 5391 | 5218 | 5102 | 4958 | 4814 | 4669 | 4525 | 4381 | 4236 | 4082 | 3948 | 3803 | 3659 | 3514 | 107 | 37 | 0520 |
| 63 | 38 | | 6102 | 5957 | 5813 | 5669 | 5524 | 5380 | 6236 | 5091 | 4947 | 4802 | 4658 | 4513 | 4369 | 4224 | 4980 | 3935 | 3791 | 103 | 38 | 0240 |
| 50 | 39 | | 8380 | 6236 | 6091 | 5947 | 5802 | 6658 | 5513 | 5369 | 6224 | 5089 | 4935 | 4790 | 4645 | 4501 | 4357 | 4212 | 4067 | 98 | 39 | 2 9960 |
| 48 | 40 | 8 | 6859 | 6514 | 6370 | 6225 | 6080 | 5936 | 5791 | 5646 | 5502 | 5357 | 5212 | 5067 | 4923 | 4778 | 4633 | 4488 | 1343 | 23 | 48 | 2 9680 |
| 45 | 41 | | 6937 | 6793 | 6648 | 6503 | 6358 | 6214 | 6069 | 5924 | 6779 | 5634 | 5489 | 6344 | 5200 | 5065 | 4910 | 4765 | 4620 | 89 | 41 | 9400 |
| 43 | 42 | | 7216 | 7071 | 6926 | 6781 | 6635 | 6492 | 6347 | 6202 | 6057 | 5911 | 5767 | 6621 | 6476 | 5331 | 5186 | 5041 | 4896 | 84 | 42 | 9120 |
| 41 | 43 | | 7494 | 7349 | 7204 | 7059 | 6914 | 6769 | 6624 | 6472 | 6334 | 6189 | 6044 | 6898 | 5753 | 5608 | 5463 | 5317 | 5172 | 72 | 43 | 8840 |
| 38 | 44 | | 7773 | 7628 | 7482 | 7337 | 7192 | 7047 | 6902 | 6756 | 6611 | 6466 | 6321 | 6175 | 6030 | 5884 | 5739 | 5594 | 5448 | 76 | 44 | 8660 |
| 36 | 45 | 8 | 8051 | 7906 | 7761 | 7615 | 7470 | 7326 | 7179 | 7034 | 6889 | 6743 | 6598 | 6452 | 6307 | 6161 | 6016 | 5870 | 6724 | 70 | 46 | 2 8280 |
| 33 | 46 | | 8329 | 8184 | 8039 | 7893 | 7748 | 7602 | 7457 | 7311 | 7166 | 7020 | 6875 | 6729 | 6583 | 6438 | 6292 | 6146 | 6001 | 66 | 46 | 8800 |
| 31 | 47 | | 8608 | 8462 | 8317 | 8171 | 8026 | 7880 | 7734 | 7689 | 7443 | 7297 | 7162 | 7906 | 6860 | 6714 | 6568 | 6423 | 6277 | 61 | 47 | 7720 |
| 29 | 48 | | 8886 | 8741 | 8525 | 8449 | 8303 | 8158 | 8011 | 7866 | 7720 | 7574 | 7429 | 7283 | 7137 | 6991 | 6845 | 6699 | 5563 | 66 | 48 | 7440 |
| 26 | 49 | | 9165 | 9019 | 8873 | 8727 | 8581 | 8436 | 8289 | 8143 | 7897 | 7861 | 7705 | 7659 | 7413 | 7267 | 7121 | 6975 | 6829 | 61 | 49 | 7160 |
| 24 | 50 | 8 | 2443 | 9297 | 9151 | 9005 | 8859 | 8713 | 8567 | 8421 | 8276 | 8129 | 7982 | 7838 | 7690 | 7544 | 7397 | 7251 | 7105 | 47 | 60 | 2 6880 |
| 22 | 51 | | 9721 | 9575 | 9429 | 9283 | 2137 | 8999 | 8844 | 8690 | 8352 | 8406 | 8259 | 8113 | 7966 | 7820 | 7674 | 7527 | 7301 | 42 | 61 | 6600 |
| 19 | 52 | | 9999 | 9853 | 9707 | 9561 | 9414 | 9268 | 9122 | 8975 | 8829 | 8682 | 8536 | 8390 | 8243 | 8097 | 7950 | 7803 | 7657 | 37 | 62 | 6321 |
| 17 | 53 | 9 (8) | 0278 | 8131 | 9986 | 9838 | 9692 | 9546 | 9399 | 9253 | 9106 | 8959 | 8813 | 8666 | 8520 | 8373 | 8226 | 8080 | 7933 | 33 | 63 | 6041 |
| 14 | 54 | | 0556 | 0409 | 0263 | 0116 | 9970 | 9823 | 9676 | 9530 | 9383 | 9936 | 9090 | 8943 | 8796 | 8649 | 8502 | 8358 | 8909 | 28 | 64 | 6761 |
| 12 | 55 | 2 (8) | 0834 | 0687 | 0541 | 0394 | 0247 | 0101 | 9954 | 9807 | 9660 | 9513 | 9366 | 9220 | 9073 | 8926 | 8779 | 8632 | 8485 | 23 | 65 | 2 5481 |
| 10 | 56 | | 1112 | 0965 | 0819 | 0672 | 0526 | 0378 | 0231 | 0084 | 9937 | 2790 | 9643 | 9496 | 9349 | 9202 | 8055 | 8988 | 8761 | 19 | 66 | 5202 |
| 7 | 57 | | 1390 | 1243 | 1096 | 8949 | 0892 | 0656 | 0508 | 0361 | 0214 | 0067 | 9920 | 9773 | 9626 | 8478 | 9331 | 9184 | 9837 | 14 | 67 | 4922 |
| 5 | 58 | | 1668 | 1521 | 1374 | 1227 | 1080 | 0933 | 0785 | 0638 | 9491 | 0344 | 0197 | 9849 | 9902 | 9755 | 9607 | 9460 | 9312 | 9 | 58 | 4642 |
| 2 | 59 | | 1946 | 1799 | 1652 | 1505 | 1357 | 1210 | 1863 | 0915 | 0768 | 0621 | 0473 | 0326 | 8178 | 9031 | 9883 | 9736 | 9588 | 6 | 59 | 4363 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — **Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 106 | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 106 | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 144 | 6' | 7 3134 | 2920 | 2055 | 2716 | 2576 | 2437 | 2298 | 2158 | 9019 | 1079 | 1740 | 1690 | 1461 | 1321 | 1189 | 1042 | 9902 | 9 | 0' | 7 5637 |
| 141 | 1 | 3411 | 3271 | 3139 | 2993 | 2853 | 2713 | 2574 | 2434 | 2995 | 2155 | 2015 | 1870 | 1736 | 1096 | 1457 | 1317 | 1177 | 5 | 1 | 5917 |
| 139 | 2 | 3688 | 3546 | 3402 | 3262 | 3130 | 2990 | 2850 | 2710 | 2571 | 2431 | 2291 | 2151 | 2011 | 1872 | 1732 | 1592 | 1452 | 9 | 2 | 6197 |
| 136 | 3 | 3265 | 3825 | 3686 | 3546 | 3406 | 3266 | 3126 | 2986 | 2847 | 9707 | 2567 | 2427 | 2287 | 2147 | 2097 | 1867 | 1727 | 14 | 3 | 6476 |
| 134 | 4 | 4942 | 4102 | 3902 | 3829 | 3689 | 3542 | 3402 | 3262 | 3129 | 9909 | 9849 | 9702 | 9562 | 2422 | 2282 | 2141 | 2001 | 19 | 4 | 6756 |
| 132 | 5 | 7 4519 | 4379 | 4239 | 4029 | 3952 | 3019 | 3679 | 3538 | 3398 | 3258 | 3118 | 2978 | 9837 | 9697 | 2557 | 2416 | 9976 | 23 | 5 | 7 7035 |
| 129 | 6 | 4790 | 4656 | 4510 | 4375 | 4235 | 4095 | 3955 | 3814 | 3674 | 3534 | 3393 | 3253 | 3113 | 2972 | 2839 | 9691 | 2551 | 28 | 6 | 7315 |
| 127 | 7 | 5073 | 4933 | 4722 | 4052 | 4512 | 4371 | 4931 | 4090 | 3950 | 3809 | 3669 | 3528 | 3388 | 3947 | 3107 | 2966 | 2825 | 33 | 7 | 7594 |
| 124 | 0 | 5350 | 9209 | 5009 | 4928 | 4708 | 4647 | 4507 | 4366 | 4926 | 4085 | 3944 | 3804 | 3663 | 3592 | 3382 | 3941 | 3100 | 37 | 8 | 7874 |
| 122 | 9 | 5627 | 5486 | 5340 | 5205 | 5004 | 4924 | 4783 | 4642 | 4501 | 4361 | 4299 | 4079 | 3938 | 3797 | 3656 | 3516 | 3375 | 49 | 9 | 8153 |
| 120 | 16 | 7 5203 | 5763 | 5622 | 5481 | 5341 | 5200 | 5059 | 1918 | 4777 | 4636 | 4495 | 4354 | 4913 | 4072 | 3931 | 3790 | 3649 | 46 | 10 | 7 8432 |
| 117 | 11 | 6100 | 6039 | 5029 | 5758 | 5617 | 5470 | 5335 | 5194 | 5053 | 4919 | 4771 | 4630 | 4489 | 4347 | 4296 | 4065 | 3924 | 51 | 11 | 8712 |
| 115 | 12 | 6467 | 0316 | 0175 | 0034 | 5823 | 5752 | 5611 | 5470 | 5328 | 5187 | 5040 | 4995 | 4764 | 4622 | 4481 | 4340 | 4198 | 56 | 12 | 0991 |
| 112 | 13 | 6734 | 6593 | 6452 | 6310 | 6169 | 6028 | 5887 | 5745 | 5604 | 5463 | 5391 | 5189 | 5039 | 4897 | 4756 | 4614 | 4473 | 60 | 13 | 9270 |
| 119 | 14 | 7611 | 6069 | 6728 | 0567 | 6445 | 6304 | 6163 | 6021 | 5880 | 5738 | 5597 | 5455 | 5314 | 5172 | 5031 | 4889 | 4747 | 65 | 14 | 9550 |
| 168 | 15 | 7 7208 | 7146 | 7005 | 0863 | 6722 | 6580 | 6439 | 6297 | 6155 | 6014 | 5072 | 5730 | 5589 | 5447 | 5305 | 5164 | 5022 | 70 | 15 | 7 9829 |
| 105 | 16 | 7064 | 7423 | 7281 | 7139 | 6998 | 6856 | 6714 | 6573 | 6431 | 6289 | 6147 | 6006 | 5864 | 5729 | 5589 | 5438 | 5296 | 74 | 16 | 8 0108 |
| 103 | 17 | 7041 | 7699 | 7557 | 7410 | 7274 | 7139 | 0990 | 6848 | 6797 | 6565 | 6423 | 6981 | 6139 | 5997 | 5855 | 5713 | 5571 | 79 | 17 | 0388 |
| 109 | 18 | 0118 | 7270 | 7834 | 7622 | 7550 | 7408 | 7266 | 7124 | 6989 | 6849 | 6690 | 6556 | 6414 | 6272 | 6130 | 5907 | 5845 | 84 | 18 | 0667 |
| 98 | 19 | 8394 | 8252 | 6110 | 7260 | 7826 | 7684 | 7549 | 7400 | 7958 | 7115 | 6973 | 6831 | 6689 | 6547 | 6494 | 6262 | 6120 | 88 | 19 | 0946 |
| 96 | 28 | 7 6671 | 0529 | 8387 | 0944 | 8109 | 7960 | 7818 | 7075 | 7533 | 7391 | 7948 | 7106 | 6964 | 6821 | 6679 | 6536 | 6394 | 93 | 29 | 8 1225 |
| 93 | 21 | 8947 | 8805 | 6663 | 0521 | 8378 | 8230 | 0094 | 7951 | 7009 | 7666 | 7524 | 7381 | 7239 | 7096 | 6954 | 6811 | 6668 | 98 | 21 | 1504 |
| 91 | 22 | 9224 | 2989 | 8939 | 8797 | 8654 | 8519 | 0369 | 8227 | 6984 | 7941 | 7799 | 7656 | 7513 | 7371 | 7228 | 7085 | 6943 | 102 | 29 | 1783 |
| 88 | 23 | 2501 | 2306 | 2215 | 9073 | 8930 | 8788 | 8645 | 8509 | 8360 | 6917 | 8074 | 7931 | 7788 | 7646 | 7503 | 7360 | 7217 | 107 | 23 | 2962 |
| 86 | 24 | 9777 | 2634 | 9492 | 9349 | 9906 | 9063 | 6991 | 6778 | 8635 | 0492 | 8349 | 8900 | 8063 | 7990 | 7777 | 7634 | 7491 | 119 | 24 | 2341 |
| 84 | 25 | 8 (7) 0054 | 9911 | 9768 | 9625 | 9462 | 9339 | 9196 | 9953 | 8910 | 0767 | 8624 | 8481 | 8338 | 8195 | 8052 | 7909 | 7765 | 116 | 25 | 8 2620 |
| 81 | 26 | 0330 | 6187 | 0044 | 9901 | 9758 | 9615 | 9472 | 9329 | 9186 | 9042 | 8899 | 8756 | 8613 | 8470 | 8326 | 8183 | 8949 | 191 | 26 | 2899 |
| 79 | 27 | 0697 | 0463 | 0320 | 6177 | 0034 | 9891 | 9747 | 9604 | 9461 | 9318 | 2174 | 9031 | 8888 | 8744 | 8601 | 8457 | 8314 | 196 | 97 | 3178 |
| 77 | 28 | 0003 | 0746 | 0596 | 0453 | 0310 | 0166 | 0093 | 9880 | 9736 | 9593 | 9449 | 9306 | 9169 | 9019 | 8875 | 8732 | 8588 | 130 | 98 | 3457 |
| 74 | 29 | 1152 | 1010 | 0873 | 6729 | 0586 | 0442 | 9999 | 0155 | 0012 | 9860 | 9794 | 9581 | 9437 | 9993 | 9150 | 9096 | 8862 | 135 | 29 | 3736 |
| 72 | 38 | 8 (7) 1435 | 1292 | 1142 | 1005 | 9861 | 9718 | 0574 | 0431 | 0287 | 0143 | 9999 | 9856 | 9712 | 9568 | 9494 | 9280 | 9136 | 139 | 30 | 8 4015 |
| 69 | 31 | 1712 | 1560 | 1425 | 1201 | 1137 | 0994 | 0859 | 0706 | 0562 | 0410 | 9274 | 0130 | 9986 | 9842 | 9698 | 9554 | 9410 | 144 | 31 | 4994 |
| 67 | 32 | 1280 | 1845 | 1701 | 1557 | 1413 | 1269 | 1125 | 0981 | 0837 | 0693 | 0542 | 0405 | 0261 | 0117 | 9973 | 9829 | 9685 | 149 | 32 | 4573 |
| 65 | 33 | 2260 | 2191 | 1277 | 1833 | 1089 | 1545 | 1401 | 1957 | 1112 | 0966 | 0894 | 0680 | 0536 | 9391 | 0947 | 9103 | 9959 | 153 | 33 | 4852 |
| 62 | 34 | 0 2541 | 2397 | 2253 | 2102 | 1965 | 1820 | 1676 | 1532 | 1388 | 1243 | 1099 | 0955 | 9810 | 0666 | 0591 | 9377 | 0933 | 158 | 34 | 5131 |
| 60 | 30 | 8 2817 | 2073 | 2029 | 2365 | 2240 | 2096 | 1952 | 1807 | 1663 | 1518 | 1374 | 1229 | 1985 | 0949 | 0796 | 0651 | 0507 | 163 | 35 | 8 5410 |
| 57 | 36 | 3094 | 2942 | 9805 | 9060 | 9510 | 9371 | 9927 | 2082 | 1930 | 1793 | 1649 | 1504 | 1359 | 1915 | 1070 | 0995 | 9781 | 167 | 36 | 6688 |
| 55 | 37 | 3370 | 3225 | 3981 | 2936 | 2799 | 2647 | 2502 | 2358 | 2913 | 2068 | 1923 | 1772 | 1634 | 1489 | 1344 | 1199 | 1055 | 172 | 37 | 5967 |
| 03 | 38 | 3640 | 3591 | 3357 | 3212 | 3067 | 2992 | 2778 | 2633 | 2488 | 9343 | 9198 | 2053 | 1908 | 1763 | 1619 | 1474 | 1329 | 177 | 38 | 6246 |
| 50 | 39 | 3929 | 3777 | 3633 | 3488 | 3343 | 3198 | 3053 | 9900 | 2763 | 2610 | 2473 | 2328 | 2183 | 2038 | 1893 | 1748 | 1692 | 181 | 39 | 6525 |
| 48 | 49 | 8 4190 | 4953 | 3998 | 3763 | 3618 | 3473 | 3328 | 3183 | 3936 | 9893 | 2748 | 2603 | 9457 | 9312 | 2167 | 2992 | 1876 | 166 | 40 | 8 6803 |
| 45 | 41 | 4474 | 4329 | 4184 | 4039 | 3894 | 3749 | 3604 | 3458 | 3313 | 3160 | 3029 | 9877 | 9732 | 2586 | 2441 | 2296 | 2150 | 191 | 41 | 7089 |
| 43 | 42 | 4751 | 4605 | 4400 | 4315 | 4169 | 4024 | 3879 | 3734 | 3580 | 3443 | 3297 | 3152 | 3006 | 2861 | 9715 | 2570 | 2424 | 195 | 42 | 7361 |
| 41 | 43 | 5027 | 4801 | 4730 | 4590 | 4445 | 4300 | 4154 | 4099 | 3063 | 3717 | 3572 | 3420 | 3981 | 3135 | 2962 | 2844 | 2698 | 200 | 43 | 7639 |
| 38 | 44 | 5303 | 5157 | 5912 | 4866 | 4721 | 4575 | 4429 | 4984 | 4138 | 3992 | 3847 | 3701 | 3555 | 3402 | 3963 | 3118 | 2972 | 205 | 44 | 7918 |
| 36 | 45 | 8 5572 | 5433 | 5287 | 5142 | 4996 | 4859 | 4794 | 4559 | 4413 | 4267 | 4121 | 3970 | 3829 | 3683 | 3537 | 3391 | 3245 | 209 | 45 | 8 8196 |
| 33 | 46 | 5855 | 5709 | 5563 | 5417 | 5271 | 5125 | 4980 | 4034 | 4688 | 4542 | 4396 | 4250 | 4194 | 3958 | 3811 | 3665 | 3519 | 214 | 40 | 8475 |
| 31 | 47 | 6131 | 5905 | 5039 | 5623 | 5047 | 5409 | 5955 | 5199 | 4903 | 4016 | 4670 | 4524 | 4378 | 4932 | 4085 | 3939 | 3793 | 219 | 47 | 0753 |
| 29 | 48 | 0407 | 6261 | 6114 | 5900 | 5822 | 5676 | 5530 | 5384 | 5937 | 5091 | 4945 | 4799 | 4652 | 4506 | 4359 | 4213 | 4067 | 223 | 48 | 9032 |
| 26 | 49 | 6683 | 6530 | 6390 | 6244 | 6098 | 5251 | 5005 | 5059 | 5512 | 5366 | 5212 | 5073 | 4926 | 4700 | 4633 | 4487 | 4340 | 290 | 42 | 9310 |
| 24 | 00 | 8 6958 | 6812 | 6606 | 6519 | 6373 | 6997 | 6089 | 5933 | 5787 | 5649 | 5424 | 5347 | 0201 | 0054 | 4907 | 4761 | 4014 | 232 | 00 | 8 9589 |
| 29 | 51 | 7234 | 7088 | 6941 | 6795 | 6648 | 6502 | 6355 | 6908 | 6002 | 5915 | 5708 | 5622 | 5470 | 5320 | 5101 | 5034 | 4808 | 237 | 51 | 9867 |
| 19 | 02 | 7519 | 7364 | 7217 | 7070 | 6994 | 6777 | 6639 | 6483 | 6336 | 6190 | 0043 | 5890 | 5742 | 5609 | 5455 | 5308 | 5161 | 942 | 02 | 9 0145 |
| 17 | 53 | 7786 | 7639 | 7423 | 7340 | 7192 | 7059 | 6905 | 6758 | 6611 | 6464 | 0317 | 0170 | 6923 | 5870 | 5729 | 5582 | 5435 | 246 | 53 | 0494 |
| 14 | 54 | 0062 | 7915 | 7768 | 7621 | 7474 | 7327 | 7180 | 7033 | 6086 | 6739 | 6592 | 0444 | 0297 | 6100 | 0003 | 5856 | 5708 | 251 | 04 | 0792 |
| 12 | 55 | 8 0338 | 8191 | 0044 | 7896 | 7742 | 7002 | 7455 | 7308 | 7161 | 7013 | 6866 | 0719 | 6571 | 6424 | 6277 | 6129 | 5969 | 256 | 65 | 2 0901 |
| 10 | 06 | 8613 | 8466 | 0312 | 8172 | 8024 | 7877 | 7730 | 7583 | 7435 | 7208 | 7140 | 6993 | 6845 | 6698 | 6050 | 6403 | 6255 | 269 | 56 | 1259 |
| 7 | 07 | 8889 | 8742 | 8595 | 8447 | 8300 | 8152 | 0005 | 7057 | 7710 | 7562 | 7415 | 7267 | 7190 | 6972 | 6824 | 6677 | 6529 | 265 | 57 | 1037 |
| 5 | 58 | 2165 | 9017 | 8879 | 8722 | 8570 | 8427 | 8980 | 8139 | 7984 | 7837 | 7689 | 7541 | 7394 | 7246 | 7998 | 6950 | 6809 | 270 | 58 | 1815 |
| 2 | 69 | 9441 | 9293 | 9145 | 8998 | 8850 | 8702 | 8555 | 8407 | 8259 | 0111 | 7963 | 7815 | 7668 | 7529 | 7372 | 7224 | 7076 | 274 | 59 | 2024 |

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TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 107″ | 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 107° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 151 | 0′ | 9 (0) 2224 | 2977 | 1939 | 1782 | 1635 | 1487 | 1340 | 1193 | 1045 | 0097 | 0759 | 0002 | 9458 | 0307 | 0159 | 0012 | 2064 | 279 | 0′ | 2 4003 |
| 149 | 1 | 9 2592 | 2355 | 2207 | 2969 | 1912 | 1705 | 1017 | 1470 | 1322 | 1174 | 1927 | 0872 | 0731 | 9883 | 0435 | 9288 | 9149 | 274 | 1 | 3803 |
| 146 | 2 | 2780 | 2033 | 2485 | 2338 | 2199 | 2042 | 1894 | 1747 | 1599 | 1451 | 1303 | 1155 | 1097 | 0059 | 0711 | 0564 | 9416 | 270 | 2 | 3524 |
| 144 | 3 | 3058 | 2911 | 2763 | 2015 | 2467 | 2319 | 2171 | 2024 | 1876 | 1728 | 1580 | 1432 | 1284 | 1156 | 0907 | 0839 | 9821 | 205 | 3 | 5244 |
| 141 | 4 | 3336 | 3188 | 3041 | 2893 | 2745 | 2597 | 2449 | 2301 | 2153 | 2094 | 1856 | 1708 | 1500 | 1412 | 1263 | 1115 | 0967 | 260 | 4 | 2965 |
| 139 | 5 | 9 3614 | 3406 | 3318 | 3170 | 3022 | 2874 | 2720 | 2578 | 2129 | 2281 | 2133 | 1985 | 1836 | 1688 | 1539 | 1391 | 1243 | 256 | 5 | 2 2685 |
| 136 | 6 | 3892 | 3744 | 3596 | 5448 | 3299 | 3151 | 3903 | 2854 | 2796 | 2558 | 2409 | 2261 | 2112 | 1964 | 1815 | 1667 | 1518 | 261 | 6 | 2496 |
| 134 | 7 | 4170 | 4022 | 3873 | 3725 | 3577 | 3428 | 3280 | 3131 | 2983 | 2834 | 2686 | 2537 | 2382 | 2240 | 2921 | 1943 | 1794 | 246 | 7 | 2125 |
| 131 | 8 | 4448 | 4299 | 4151 | 4093 | 3854 | 3705 | 3557 | 3408 | 3260 | 3111 | 2902 | 2813 | 2065 | 2516 | 2367 | 2218 | 2079 | 242 | 8 | 1847 |
| 129 | 9 | 4720 | 4577 | 4429 | 4280 | 4131 | 3982 | 3834 | 3085 | 3536 | 3387 | 3239 | 3090 | 2941 | 2792 | 2643 | 2494 | 2345 | 237 | 9 | 1568 |
| 126 | 10 | 9 5004 | 4855 | 4706 | 4557 | 4498 | 4260 | 4111 | 3902 | 3813 | 3664 | 3515 | 3366 | 3217 | 3008 | 2910 | 2779 | 2621 | 232 | 10 | 2 1288 |
| 124 | 11 | 5281 | 6133 | 4984 | 4835 | 4680 | 4537 | 4388 | 4239 | 4090 | 3940 | 3791 | 3642 | 3493 | 3344 | 3195 | 3046 | 2890 | 228 | 11 | 1099 |
| 121 | 12 | 5559 | 5410 | 5261 | 5112 | 4963 | 4814 | 4055 | 4516 | 4366 | 4217 | 4008 | 3918 | 3769 | 5620 | 3471 | 3321 | 3172 | 225 | 12 | 0739 |
| 119 | 13 | 6837 | 5088 | 5538 | 5389 | 5249 | 5001 | 4941 | 4792 | 4043 | 4493 | 4344 | 4195 | 4045 | 5826 | 3740 | 3597 | 3447 | 219 | 13 | 0450 |
| 116 | 14 | 6115 | 5965 | 5816 | 5666 | 5517 | 5368 | 5218 | 5069 | 4919 | 4770 | 4620 | 4471 | 4321 | 4172 | 4022 | 5872 | 3724 | 214 | 14 | 8171 |
| 114 | 15 | 9 6392 | 6243 | 6993 | 5944 | 5794 | 5645 | 5495 | 5346 | 5196 | 5046 | 4897 | 4747 | 4597 | 4447 | 4298 | 4148 | 3998 | 209 | 15 | 1 9892 |
| 111 | 16 | 6670 | 6529 | 6371 | 0221 | 6071 | 5922 | 5772 | 5622 | 6472 | 5323 | 5173 | 5023 | 4873 | 4723 | 4573 | 4423 | 4273 | 205 | 16 | 9612 |
| 109 | 17 | 6947 | 6798 | 6048 | 6498 | 6348 | 6159 | 6049 | 5899 | 5749 | 5699 | 5449 | 5299 | 5149 | 4999 | 4849 | 4099 | 4549 | 200 | 17 | 2333 |
| 196 | 18 | 7225 | 7075 | 6925 | 6775 | 6626 | 6476 | 6326 | 6175 | 6026 | 5875 | 5725 | 5575 | 5425 | 5275 | 5125 | 4974 | 4824 | 195 | 18 | 9954 |
| 104 | 19 | 7503 | 7353 | 7293 | 7053 | 6903 | 0762 | 0602 | 6452 | 6302 | 6152 | 6091 | 5851 | 5701 | 5551 | 5498 | 5250 | 8100 | 191 | 19 | 8775 |
| 101 | 20 | 9 7780 | 7630 | 7480 | 7330 | 7189 | 7029 | 6879 | 0729 | 6578 | 6428 | 6278 | 6127 | 5977 | 5826 | 5676 | 5525 | 5375 | 180 | 20 | 1 8490 |
| 98 | 21 | 8058 | 7907 | 7757 | 7607 | 7456 | 7306 | 7156 | 7905 | 6855 | 6704 | 6554 | 6403 | 6253 | 6102 | 5251 | 5801 | 5650 | 101 | 21 | 8217 |
| 90 | 22 | 8335 | 8185 | 8034 | 7884 | 7733 | 7583 | 7432 | 7282 | 7131 | 6981 | 6830 | 0679 | 6529 | 6378 | 6227 | 6076 | 5925 | 177 | 22 | 7938 |
| 93 | 23 | 8613 | 8462 | 8312 | 8161 | 8010 | 7860 | 7709 | 7558 | 7408 | 7257 | 7196 | 6965 | 6894 | 0653 | 6592 | 6352 | 0291 | 172 | 23 | 7659 |
| 91 | 24 | 8890 | 8739 | 8589 | 8438 | 0287 | 8156 | 7986 | 7835 | 7684 | 7533 | 7382 | 7231 | 7000 | 6929 | 6778 | 6627 | 6476 | 167 | 24 | 7380 |
| 88 | 25 | 9 9168 | 9017 | 8866 | 8715 | 8564 | 8413 | 8262 | 8111 | 7960 | 7809 | 7658 | 7597 | 7350 | 7205 | 7053 | 6902 | 6751 | 163 | 25 | 1 7101 |
| 86 | 26 | 9445 | 9294 | 9143 | 8992 | 8841 | 8690 | 8539 | 0380 | 8236 | 8085 | 7934 | 7783 | 7632 | 7480 | 7329 | 7178 | 7026 | 158 | 26 | 0822 |
| 83 | 27 | 9722 | 9571 | 9429 | 9269 | 9118 | 8966 | 8815 | 8664 | 8513 | 8361 | 8219 | 8969 | 7997 | 7756 | 7694 | 7463 | 7301 | 153 | 27 | 6543 |
| 81 | 28 | 0 (9) 9990 | 9848 | 9697 | 9540 | 9394 | 9243 | 9992 | 8940 | 8789 | 8637 | 8486 | 8334 | 8183 | 8931 | 7889 | 7728 | 7577 | 149 | 28 | 6204 |
| 78 | 29 | 9277 | 9126 | 9974 | 9823 | 9671 | 9520 | 9368 | 9217 | 9065 | 8913 | 8762 | 8619 | 8409 | 8307 | 8155 | 8003 | 7852 | 144 | 29 | 0985 |
| 76 | 30 | 0 (9) 9554 | 9403 | 0251 | 0190 | 9948 | 9796 | 9045 | 9493 | 9341 | 9199 | 9038 | 8886 | 8734 | 8582 | 0430 | 8279 | 8127 | 139 | 30 | 1 5706 |
| 73 | 31 | 9832 | 0680 | 0528 | 0377 | 0225 | 9073 | 9921 | 9769 | 9617 | 9466 | 9314 | 9162 | 9010 | 8858 | 8706 | 8564 | 8402 | 135 | 31 | 5427 |
| 71 | 32 | 1199 | 0957 | 0805 | 0653 | 0501 | 0349 | 0198 | 0946 | 9894 | 9742 | 9589 | 9437 | 9285 | 9135 | 8981 | 8829 | 8077 | 130 | 32 | 5148 |
| 68 | 33 | 1386 | 1234 | 1082 | 0930 | 9778 | 0626 | 9474 | 0322 | 0170 | 9017 | 9865 | 9713 | 9561 | 9409 | 9256 | 9104 | 8952 | 126 | 33 | 4809 |
| 66 | 34 | 1663 | 1511 | 1359 | 1207 | 1065 | 0903 | 0750 | 0598 | 0446 | 0293 | 0141 | 9989 | 9830 | 9684 | 9531 | 9372 | 9227 | 121 | 34 | 4590 |
| 63 | 35 | 0 (9) 1940 | 1788 | 1636 | 1484 | 1331 | 1179 | 1027 | 0874 | 0722 | 0569 | 9417 | 0264 | 0112 | 9959 | 9807 | 9654 | 9501 | 110 | 35 | 1 4312 |
| 61 | 36 | 2218 | 2065 | 1913 | 1760 | 1608 | 1455 | 1303 | 1159 | 0998 | 9845 | 0693 | 9540 | 9387 | 0235 | 9082 | 9929 | 9770 | 112 | 36 | 4933 |
| 58 | 37 | 0 2495 | 2342 | 2199 | 2057 | 1884 | 1732 | 1579 | 1427 | 1274 | 1121 | 0908 | 0810 | 9663 | 8519 | 9357 | 0204 | 9051 | 107 | 37 | 3754 |
| 56 | 38 | 2772 | 2619 | 2466 | 2314 | 2161 | 2008 | 1855 | 1795 | 1550 | 1397 | 1244 | 1091 | 0938 | 0785 | 0632 | 0479 | 0326 | 102 | 38 | 3475 |
| 53 | 39 | 3049 | 2890 | 2743 | 2590 | 2437 | 2285 | 2132 | 1979 | 1826 | 1673 | 1520 | 1367 | 1214 | 1060 | 0907 | 9754 | 0001 | 90 | 39 | 3197 |
| 59 | 40 | 0 3326 | 3173 | 3020 | 2867 | 2714 | 2561 | 2408 | 2255 | 2102 | 1949 | 1796 | 1642 | 1489 | 1330 | 1182 | 1029 | 0076 | 93 | 40 | 1 2918 |
| 48 | 41 | 3093 | 3450 | 3297 | 3144 | 2990 | 2837 | 2684 | 2531 | 2378 | 2224 | 2072 | 1018 | 1764 | 1611 | 1457 | 1304 | 1151 | 88 | 41 | 2039 |
| 45 | 42 | 3880 | 3727 | 3573 | 3420 | 3267 | 3114 | 2969 | 2807 | 2653 | 2500 | 2347 | 2193 | 2940 | 1886 | 1732 | 1579 | 1425 | 84 | 42 | 2301 |
| 43 | 43 | 4167 | 4004 | 3050 | 3697 | 3543 | 3390 | 3236 | 3083 | 2929 | 2776 | 2622 | 2469 | 2315 | 2161 | 2907 | 1854 | 1700 | 79 | 43 | 2082 |
| 40 | 44 | 4434 | 4289 | 4127 | 3973 | 5020 | 3666 | 3512 | 3559 | 3205 | 3051 | 2898 | 2744 | 2599 | 2436 | 2282 | 2129 | 1975 | 74 | 44 | 1094 |
| 58 | 45 | 0 4711 | 4557 | 4493 | 4209 | 4090 | 3942 | 3788 | 5635 | 3481 | 3327 | 3173 | 3019 | 2805 | 2711 | 2557 | 2495 | 2249 | 70 | 45 | 1 1525 |
| 55 | 46 | 4988 | 4834 | 4680 | 4526 | 4572 | 4218 | 4068 | 5911 | 3757 | 3693 | 3449 | 5295 | 5148 | 2986 | 2032 | 2678 | 2524 | 68 | 46 | 1247 |
| 55 | 47 | 5264 | 5111 | 4957 | 4803 | 4649 | 4490 | 4341 | 4187 | 4032 | 5878 | 3724 | 3570 | 3410 | 3261 | 5197 | 2953 | 2799 | 60 | 47 | 0968 |
| 50 | 48 | 5541 | 5387 | 5253 | 5079 | 4225 | 4771 | 4617 | 4462 | 4398 | 4154 | 1000 | 3845 | 3691 | 5537 | 5382 | 5228 | 3073 | 56 | 48 | 0690 |
| 28 | 49 | 5818 | 5064 | 5510 | 5555 | 5201 | 5047 | 4893 | 4730 | 4584 | 4429 | 4275 | 4120 | 3906 | 5812 | 5657 | 3502 | 3548 | 51 | 49 | 0411 |
| 25 | 50 | 0 0095 | 5941 | 5786 | 5032 | 5477 | 5325 | 5169 | 5914 | 4860 | 4795 | 4050 | 4396 | 4241 | 4087 | 3932 | 3777 | 3022 | 40 | 50 | 1 0153 |
| 23 | 51 | 0372 | 0217 | 6003 | 5998 | 5754 | 5599 | 5444 | 5290 | 5155 | 4989 | 4820 | 4671 | 4518 | 4301 | 4297 | 4052 | 3097 | 42 | 51 | 0 2855 |
| 20 | 52 | 0618 | 6494 | 6539 | 0184 | 0030 | 5078 | 5720 | 5566 | 5411 | 5256 | 5101 | 4946 | 4791 | 4038 | 4401 | 4320 | 4171 | 37 | 52 | 9576 |
| 18 | 53 | 6925 | 6770 | 6616 | 6461 | 6306 | 6151 | 5996 | 5841 | 5080 | 5531 | 5376 | 5221 | 5060 | 4911 | 4756 | 4601 | 4446 | 33 | 53 | 9290 |
| 15 | 54 | 7202 | 7047 | 6892 | 6757 | 6582 | 6427 | 6272 | 0117 | 0962 | 5897 | 5652 | 5497 | 5341 | 5186 | 5031 | 4876 | 4720 | 28 | 54 | 9019 |
| 13 | 55 | 0 7478 | 7325 | 7108 | 7013 | 6858 | 6703 | 6548 | 6595 | 6237 | 0902 | 5927 | 5772 | 5616 | 5401 | 5306 | 5159 | 4995 | 23 | 55 | 0 8741 |
| 10 | 56 | 7755 | 7889 | 7445 | 7289 | 7134 | 6979 | 6824 | 6668 | 6515 | 6358 | 6292 | 0947 | 5891 | 5756 | 5580 | 5420 | 8269 | 19 | 56 | 8463 |
| 8 | 57 | 0032 | 7870 | 7721 | 7566 | 7410 | 7255 | 7092 | 0944 | 0788 | 6633 | 6477 | 6322 | 6160 | 6011 | 5855 | 5099 | 0544 | 14 | 57 | 8185 |
| 5 | 58 | 8308 | 8153 | 7997 | 7842 | 7086 | 7531 | 7378 | 7220 | 7964 | 6900 | 0753 | 0597 | 6441 | 6285 | 8130 | 5974 | 5018 | 9 | 58 | 7996 |
| 3 | 59 | 8585 | 8429 | 8274 | 8118 | 7962 | 7807 | 7651 | 7495 | 7359 | 7184 | 7028 | 6872 | 0710 | 8860 | 5404 | 6249 | 6092 | 8 | 59 | 7028 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg Auxiliar. | 107° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 107° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 152 | 0′ | 8 | 9716 | 9569 | 9421 | 9273 | 9125 | 8277 | 0829 | 8681 | 8633 | 8386 | 8237 | 8090 | 7941 | 7793 | 7645 | 7497 | 7349 | 0 | 0′ | 9 2379 |
| 150 | 1 | | 9992 | 9844 | 9696 | 9548 | 9400 | 9252 | 9104 | 8956 | 8808 | 8660 | 8512 | 8364 | 8215 | 8067 | 7919 | 7771 | 7623 | 5 | 1 | 2650 |
| 147 | 2 | 9 (8) | 0268 | 0119 | 9971 | 9823 | 9675 | 9527 | 9379 | 9231 | 9082 | 8934 | 8785 | 8638 | 8489 | 8341 | 8193 | 8044 | 7996 | 9 | 2 | 9928 |
| 145 | 3 | | 0543 | 0395 | 0247 | 0098 | 9950 | 9802 | 9654 | 9505 | 9357 | 9209 | 9060 | 8912 | 8763 | 8515 | 8466 | 8318 | 8169 | 14 | 3 | 3206 |
| 142 | 4 | | 0819 | 0670 | 0522 | 0374 | 0225 | 0077 | 9928 | 9780 | 9631 | 9483 | 9334 | 9186 | 9037 | 8889 | 8740 | 8591 | 8442 | 18 | 4 | 3484 |
| 140 | 5 | 9 (8) | 1094 | 0946 | 0797 | 0649 | 0500 | 0352 | 0203 | 0054 | 9906 | 9757 | 9608 | 9460 | 9311 | 9162 | 9014 | 8865 | 8716 | 23 | 5 | 9 3762 |
| 137 | 6 | | 1370 | 1221 | 1072 | 0924 | 0775 | 0526 | 0478 | 0329 | 0180 | 0031 | 9883 | 9734 | 9585 | 9436 | 9287 | 9138 | 8989 | 28 | 6 | 4040 |
| 135 | 7 | | 1645 | 1495 | 1348 | 1199 | 1050 | 0901 | 0752 | 0603 | 0455 | 0306 | 0167 | 0008 | 9859 | 9710 | 9561 | 9411 | 9262 | 32 | 7 | 4318 |
| 132 | 8 | | 1921 | 1772 | 1623 | 1474 | 1325 | 1176 | 1027 | 0878 | 0729 | 0580 | 0431 | 0282 | 0132 | 9983 | 9834 | 9685 | 9536 | 37 | 8 | 4596 |
| 130 | 9 | | 2196 | 2047 | 1898 | 1749 | 1600 | 1451 | 1302 | 1152 | 1003 | 0854 | 0705 | 0555 | 0406 | 0257 | 0108 | 9958 | 9809 | 42 | 9 | 4874 |
| 127 | 10 | 9 | 2472 | 2322 | 2173 | 2024 | 1876 | 1725 | 1576 | 1427 | 1278 | 1198 | 0979 | 0829 | 0680 | 0531 | 0381 | 0231 | 0082 | 46 | 10 | 9 5152 |
| 125 | 11 | | 2747 | 2598 | 2448 | 2299 | 2150 | 2000 | 1851 | 1701 | 1552 | 1402 | 1253 | 1103 | 0954 | 0804 | 0654 | 0505 | 0355 | 61 | 11 | 6430 |
| 122 | 12 | | 3022 | 2873 | 2723 | 2574 | 2424 | 2275 | 2125 | 1976 | 1826 | 1576 | 1527 | 1377 | 1227 | 1078 | 0928 | 0778 | 0628 | 56 | 12 | 5708 |
| 119 | 13 | | 3297 | 3148 | 2998 | 2849 | 2699 | 2549 | 2400 | 2250 | 2100 | 1950 | 1801 | 1651 | 1501 | 1351 | 1201 | 1051 | 0901 | 60 | 13 | 6986 |
| 117 | 14 | | 3572 | 3423 | 3273 | 3124 | 2974 | 2824 | 2674 | 2524 | 2374 | 2224 | 2075 | 1925 | 1775 | 1625 | 1474 | 1324 | 1174 | 65 | 14 | 6264 |
| 114 | 15 | 9 | 3848 | 3698 | 3548 | 3399 | 3249 | 3099 | 2949 | 2799 | 2649 | 2498 | 2348 | 2198 | 2018 | 1898 | 1748 | 1598 | 1447 | 62 | 15 | 9 6542 |
| 112 | 16 | | 4124 | 3974 | 3823 | 3674 | 3523 | 3373 | 3223 | 3073 | 2923 | 2772 | 2622 | 2472 | 2322 | 2171 | 2021 | 1871 | 1720 | 74 | 16 | 6819 |
| 109 | 17 | | 4399 | 4249 | 4098 | 3948 | 3798 | 3648 | 3498 | 3347 | 3197 | 3046 | 2896 | 2746 | 2595 | 2445 | 2294 | 2144 | 1993 | 78 | 17 | 7097 |
| 107 | 18 | | 4674 | 4524 | 4373 | 4223 | 4073 | 3922 | 3772 | 3621 | 3471 | 3320 | 3170 | 3019 | 2869 | 2718 | 2568 | 2417 | 2266 | 83 | 18 | 7375 |
| 104 | 19 | | 4949 | 4799 | 4648 | 4498 | 4347 | 4197 | 4046 | 3896 | 3745 | 3594 | 3444 | 3293 | 3142 | 2992 | 2811 | 2690 | 2539 | 80 | 19 | 7653 |
| 109 | 20 | 9 | 6224 | 5074 | 4923 | 4773 | 4622 | 4471 | 4320 | 4170 | 4019 | 3868 | 3718 | 3557 | 3415 | 3265 | 3114 | 2963 | 2812 | 92 | 20 | 9 7930 |
| 99 | 21 | | 5499 | 5349 | 5198 | 6047 | 4896 | 4746 | 4595 | 4444 | 4293 | 4142 | 3991 | 3840 | 3689 | 3538 | 3387 | 3935 | 3085 | 97 | 21 | 8208 |
| 97 | 22 | | 5775 | 5624 | 5473 | 5322 | 6171 | 5020 | 4869 | 4718 | 4567 | 4416 | 4255 | 4114 | 3963 | 3812 | 3660 | 3509 | 3358 | 102 | 22 | 8486 |
| 94 | 23 | | 6050 | 5099 | 5748 | 5597 | 5446 | 5294 | 5143 | 4992 | 4841 | 4690 | 4539 | 4387 | 4236 | 4085 | 3934 | 3702 | 3531 | 106 | 23 | 8763 |
| 91 | 24 | | 6325 | 6174 | 6022 | 5871 | 5720 | 5569 | 5418 | 5266 | 5115 | 4964 | 4812 | 4661 | 4509 | 4358 | 4207 | 4055 | 3904 | 111 | 24 | 9041 |
| 89 | 25 | 9 | 6600 | 6448 | 6297 | 6146 | 5995 | 5813 | 5692 | 5540 | 5389 | 5237 | 5086 | 4934 | 4783 | 4631 | 4480 | 4328 | 4175 | 115 | 25 | 9 9318 |
| 86 | 26 | | 6875 | 6723 | 6572 | 6421 | 6269 | 6118 | 5955 | 5814 | 5663 | 5511 | 5360 | 5208 | 5056 | 4905 | 4753 | 1601 | 4449 | 120 | 26 | 9596 |
| 84 | 27 | | 7150 | 6998 | 6847 | 6696 | 6543 | 6392 | 6240 | 6088 | 5937 | 5785 | 5633 | 5481 | 5330 | 5178 | 6026 | 4874 | 4722 | 125 | 27 | 9873 |
| 81 | 28 | | 7425 | 7273 | 7121 | 6970 | 6818 | 6656 | 6514 | 5352 | 5210 | 6059 | 5907 | 5755 | 5603 | 6451 | 5999 | 5147 | 4995 | 129 | 28 | 0 0151 |
| 79 | 29 | | 7700 | 7548 | 7395 | 7244 | 7092 | 5940 | 6788 | 6636 | 6484 | 6332 | 6180 | 6098 | 5876 | 5724 | 5572 | 5420 | 5267 | 134 | 29 | 0428 |
| 76 | 30 | 9 | 7975 | 7823 | 7671 | 7519 | 7367 | 7214 | 7062 | 5910 | 6758 | 6606 | 6454 | 6302 | 6149 | 5997 | 5845 | 5692 | 5540 | 138 | 30 | 0 0706 |
| 74 | 31 | | 8250 | 8097 | 7945 | 7793 | 7641 | 7489 | 7336 | 7184 | 7032 | 6880 | 6727 | 6576 | 6422 | 6270 | 5118 | 5965 | 5813 | 143 | 31 | 0983 |
| 71 | 32 | | 8524 | 8379 | 8220 | 8068 | 7915 | 7763 | 7610 | 7458 | 7306 | 7153 | 7001 | 6848 | 5696 | 6543 | 6391 | 6238 | 6085 | 148 | 39 | 1261 |
| 69 | 33 | | 8799 | 8647 | 8494 | 8342 | 8190 | 8037 | 7884 | 7732 | 7579 | 7427 | 7274 | 7122 | 6969 | 6816 | 6553 | 6511 | 6358 | 159 | 33 | 1538 |
| 66 | 34 | | 9074 | 8992 | 8769 | 8615 | 8464 | 8311 | 8158 | 8006 | 7853 | 7700 | 7548 | 7395 | 7242 | 7089 | 6936 | 6783 | 6630 | 157 | 34 | 1815 |
| 64 | 35 | 9 | 9349 | 9196 | 9044 | 8891 | 8738 | 8585 | 8432 | 8280 | 0127 | 7974 | 7821 | 7668 | 7515 | 7362 | 7209 | 7056 | 6903 | 162 | 35 | 0 2093 |
| 61 | 36 | | 9624 | 9471 | 9318 | 9165 | 9012 | 8859 | 8706 | 8553 | 8400 | 8247 | 8094 | 7941 | 7788 | 7635 | 7482 | 7329 | 7176 | 166 | 36 | 2370 |
| 58 | 37 | | 9898 | 9745 | 9592 | 9439 | 9286 | 9133 | 8980 | 8827 | 8674 | 8521 | 8368 | 8214 | 8061 | 7908 | 7755 | 7601 | 7448 | 171 | 37 | 2647 |
| 66 | 38 | 0 (2) | 0173 | 0020 | 9867 | 9714 | 9561 | 9407 | 9254 | 9101 | 8948 | 8794 | 8541 | 8488 | 8334 | 8181 | 8027 | 7874 | 7721 | 175 | 38 | 2924 |
| 53 | 39 | | 0448 | 0995 | 0141 | 9988 | 9835 | 9681 | 9528 | 9375 | 9221 | 9068 | 8914 | 8761 | 8607 | 8454 | 8300 | 8147 | 7993 | 180 | 39 | 3202 |
| 51 | 40 | 0 (9) | 0722 | 0569 | 0416 | 0262 | 0109 | 9955 | 9802 | 9648 | 9495 | 9341 | 9188 | 9034 | 8880 | 8727 | 8573 | 8419 | 8265 | 185 | 40 | 0 3479 |
| 48 | 41 | | 0997 | 0844 | 0690 | 0536 | 0383 | 0229 | 0076 | 9922 | 9768 | 9615 | 9461 | 9307 | 9153 | 8999 | 8846 | 8692 | 8530 | 189 | 41 | 3756 |
| 46 | 42 | | 1272 | 1118 | 0964 | 0811 | 8657 | 0503 | 0349 | 0196 | 0042 | 9888 | 9734 | 9580 | 9426 | 9272 | 9118 | 8964 | 8810 | 194 | 42 | 4033 |
| 43 | 43 | | 1546 | 1392 | 1239 | 1085 | 0931 | 0777 | 0623 | 0469 | 0315 | 0161 | 0007 | 9853 | 9699 | 9545 | 9391 | 9237 | 9083 | 198 | 43 | 4310 |
| 41 | 44 | | 1821 | 1667 | 1513 | 1359 | 1205 | 1051 | 0097 | 0743 | 0589 | 0435 | 0280 | 0126 | 9972 | 9818 | 9663 | 9509 | 9355 | 203 | 44 | 4587 |
| 30 | 45 | 0 (9) | 9095 | 1941 | 1787 | 1633 | 1479 | 1326 | 1171 | 1016 | 0862 | 0708 | 0553 | 0399 | 0245 | 0090 | 9936 | 2782 | 9627 | 208 | 46 | 0 4064 |
| 36 | 46 | | 2370 | 2216 | 2061 | 1907 | 1753 | 1599 | 1444 | 1290 | 1135 | 0981 | 0827 | 0672 | 0518 | 0363 | 0209 | 0054 | 9899 | 212 | 46 | 6141 |
| 33 | 47 | 0 | 2644 | 9490 | 2336 | 2181 | 2027 | 1872 | 1718 | 1563 | 1409 | 1254 | 1100 | 0945 | 0790 | 0636 | 0481 | 0325 | 0172 | 217 | 47 | 6418 |
| 30 | 40 | | 2919 | 2764 | 2610 | 2465 | 2301 | 2146 | 1991 | 1837 | 1682 | 1527 | 1373 | 1218 | 1053 | 0908 | 0754 | 0599 | 0444 | 222 | 48 | 5695 |
| 20 | 49 | | 3193 | 3039 | 2884 | 2729 | 2575 | 2420 | 2265 | 2110 | 1955 | 1801 | 1646 | 1491 | 1336 | 1181 | 1026 | 0871 | 0715 | 226 | 49 | 5972 |
| 25 | 50 | 0 | 3468 | 3313 | 3158 | 3003 | 2848 | 2694 | 2539 | 2384 | 2929 | 2074 | 1919 | 1764 | 1609 | 1434 | 1298 | 1143 | 0988 | 231 | 50 | 0 6249 |
| 23 | 51 | | 3742 | 3587 | 3432 | 3277 | 3122 | 2967 | 2812 | 2557 | 2502 | 2347 | 2192 | 2037 | 1881 | 1726 | 1571 | 1415 | 1260 | 935 | 51 | 6525 |
| 20 | 52 | | 4016 | 3861 | 3706 | 3551 | 3396 | 3241 | 3096 | 2931 | 2775 | 2620 | 2465 | 2309 | 2154 | 1929 | 1843 | 1588 | 1532 | 240 | 62 | 6803 |
| 18 | 53 | | 4291 | 4136 | 3980 | 3825 | 3670 | 3515 | 3359 | 3204 | 3049 | 2893 | 2738 | 2582 | 2427 | 2271 | 2116 | 1950 | 1005 | 245 | 53 | 7080 |
| 15 | 54 | | 4565 | 4410 | 4954 | 4099 | 3944 | 3788 | 3633 | 3477 | 3322 | 3166 | 3011 | 2855 | 2699 | 2544 | 2388 | 2232 | 2077 | 249 | 54 | 7357 |
| 13 | 55 | 0 | 4832 | 4684 | 4528 | 4373 | 4217 | 4052 | 3906 | 3750 | 3695 | 3439 | 3283 | 3128 | 2972 | 2816 | 2660 | 2505 | 2349 | 254 | 55 | 0 7633 |
| 10 | 56 | | 5114 | 4958 | 4802 | 4647 | 4491 | 4335 | 4179 | 4024 | 3058 | 3712 | 3556 | 3400 | 3245 | 3089 | 2933 | 2777 | 2621 | 258 | 56 | 7910 |
| 8 | 57 | | 5388 | 5232 | 6076 | 4920 | 4766 | 4609 | 4453 | 4297 | 4141 | 3985 | 3029 | 3673 | 3517 | 3361 | 3205 | 3049 | 2893 | 263 | 57 | 8187 |
| 5 | 58 | | 5662 | 5506 | 5350 | 5194 | 6038 | 4882 | 4726 | 4570 | 4414 | 4258 | 4102 | 3946 | 3790 | 3533 | 3477 | 3321 | 3165 | 260 | 58 | 8464 |
| 3 | 52 | | 5936 | 6700 | 5524 | 5468 | 5312 | 5156 | 5000 | 4843 | 4587 | 4531 | 4376 | 4218 | 4062 | 3906 | 3749 | 3593 | 3437 | 272 | 59 | 8740 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.**

**Num. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 108° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 108° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160 | 9' | 9 | 8061 | 9706 | 0550 | 9394 | 9238 | 8090 | 7927 | 7771 | 7615 | 7450 | 7303 | 7147 | 6991 | 6835 | 9679 | 9503 | 6397 | 277 | 0' | 9 7350 |
| 158 | 1 | | 9138 | 0982 | 8826 | 8670 | 8514 | 8358 | 8002 | 8049 | 7890 | 7734 | 7578 | 7422 | 7296 | 7109 | 6954 | 9797 | 6641 | 272 | 1 | 7079 |
| 155 | 2 | | 9414 | 9058 | 9102 | 8949 | 8790 | 8934 | 8470 | 8300 | 8166 | 0009 | 7853 | 7607 | 7540 | 7304 | 7220 | 7971 | 6015 | 260 | 2 | 9794 |
| 152 | 3 | | 9601 | 9535 | 9370 | 9220 | 9969 | 8910 | 9753 | 8597 | 0441 | 9285 | 8120 | 7972 | 7015 | 7959 | 7502 | 7346 | 7189 | 293 | 3 | 6519 |
| 150 | 4 | | 0967 | 9811 | 9655 | 0498 | 9340 | 0186 | 0029 | 8873 | 8716 | 8560 | 8403 | 0247 | 0990 | 7933 | 7777 | 7929 | 7493 | 258 | 4 | 6238 |
| 147 | 5 | 1 (0) | 0244 | 0087 | 9031 | 9774 | 0018 | 9491 | 9305 | 9148 | 9091 | 8835 | 8678 | 8521 | 0394 | 0008 | 0051 | 7804 | 7738 | 254 | 5 | 9 6960 |
| 144 | 9 | | 0520 | 9363 | 0207 | 9050 | 9094 | 9737 | 9580 | 9423 | 9067 | 9110 | 8953 | 9796 | 8630 | 0493 | 8320 | 8190 | 0012 | 249 | 6 | 5680 |
| 142 | 7 | | 0796 | 0640 | 0483 | 0306 | 0169 | 0010 | 9856 | 9699 | 9542 | 9385 | 0220 | 0070 | 0914 | 0757 | 9600 | 9443 | 9296 | 245 | 7 | 5404 |
| 130 | 8 | | 1073 | 9910 | 0759 | 0900 | 0445 | 0088 | 0131 | 9974 | 9817 | 0660 | 9503 | 9345 | 0198 | 9030 | 8874 | 8717 | 8560 | 240 | 9 | 5126 |
| 130 | 9 | | 1349 | 1190 | 1035 | 9970 | 0721 | 9564 | 0407 | 0040 | 9090 | 9935 | 9770 | 0690 | 0463 | 9399 | 9140 | 8991 | 8834 | 235 | 9 | 4818 |
| 134 | 10 | 1 (0. | 1625 | 1468 | 1311 | 1154 | 0097 | 0840 | 0680 | 0505 | 0367 | 0010 | 0053 | 9895 | 9730 | 9500 | 9423 | 9069 | 9100 | 231 | 19 | 0 4570 |
| 131 | 11 | | 1901 | 1744 | 1507 | 1430 | 1270 | 1115 | 0957 | 9800 | 0643 | 0485 | 0308 | 0170 | 0012 | 9055 | 9607 | 9540 | 9382 | 226 | 11 | 4290 |
| 128 | 19 | | 2178 | 0020 | 1863 | 1705 | 1548 | 1390 | 1233 | 1075 | 9918 | 0760 | 0603 | 0445 | 0297 | 0129 | 9072 | 9814 | 9656 | 222 | 12 | 4014 |
| 126 | 13 | | 0454 | 0296 | 2139 | 1981 | 1024 | 1666 | 1508 | 1350 | 1193 | 1035 | 0077 | 0719 | 0562 | 0404 | 0246 | 0080 | 9930 | 217 | 13 | 3736 |
| 123 | 14 | 1 | 2730 | 2572 | 2415 | 2057 | 0099 | 1941 | 1783 | 1626 | 1468 | 1310 | 1150 | 0994 | 0039 | 0678 | 0520 | 0360 | 9204 | 212 | 14 | 3458 |
| 120 | 15 | 1 | 3006 | 9848 | 2690 | 2533 | 2375 | 2217 | 2050 | 1901 | 1743 | 1585 | 1427 | 1299 | 1111 | 9953 | 0794 | 9639 | 9470 | 208 | 15 | 9 3181 |
| 118 | 16 | | 3202 | 3124 | 2966 | 2808 | 2650 | 9492 | 2334 | 0170 | 9018 | 1060 | 1701 | 1543 | 1385 | 1227 | 1068 | 0919 | 0750 | 203 | 16 | 2903 |
| 115 | 17 | | 3558 | 3400 | 3042 | 3084 | 2926 | 2767 | 2610 | 2451 | 0093 | 2134 | 1979 | 1010 | 1659 | 1591 | 1340 | 1184 | 1096 | 199 | 17 | 2625 |
| 112 | 18 | | 3834 | 3676 | 3518 | 3359 | 3201 | 3043 | 2885 | 9726 | 2568 | 2409 | 2250 | 0092 | 1934 | 1775 | 1617 | 1458 | 1299 | 194 | 19 | 2347 |
| 110 | 19 | | 4110 | 3952 | 3794 | 3635 | 3477 | 3318 | 3160 | 3001 | 2843 | 0684 | 2505 | 2367 | 2200 | 2949 | 1891 | 1732 | 1573 | 189 | 19 | 2070 |
| 107 | 20 | 1 | 4386 | 4228 | 4060 | 3911 | 3752 | 3593 | 3435 | 3276 | 3117 | 2959 | 0800 | 2641 | 2483 | 2323 | 2165 | 0009 | 1047 | 185 | 20 | 9 1790 |
| 104 | 21 | | 4602 | 4594 | 4345 | 4186 | 4008 | 3869 | 3710 | 3551 | 3392 | 3233 | 3074 | 2919 | 2757 | 2598 | 0439 | 0280 | 2121 | 189 | 21 | 1514 |
| 102 | 20 | | 4930 | 4779 | 4621 | 4462 | 4303 | 4144 | 3985 | 3826 | 3697 | 3500 | 3349 | 3190 | 3031 | 2872 | 0713 | 2554 | 2395 | 175 | 22 | 1237 |
| 99 | 23 | | 5214 | 5055 | 4896 | 4737 | 4570 | 4419 | 4960 | 4101 | 3942 | 3783 | 3623 | 3494 | 3395 | 3149 | 2907 | 2820 | 2668 | 171 | 23 | 0959 |
| 96 | 04 | | 5490 | 5331 | 5179 | 5013 | 4854 | 4694 | 4535 | 4376 | 4917 | 4057 | 3898 | 3739 | 3579 | 3400 | 3261 | 3101 | 2942 | 169 | 24 | 0689 |
| 94 | 25 | 1 | 5766 | 5607 | 5448 | 5288 | 5129 | 4970 | 4810 | 4651 | 4492 | 4332 | 4173 | 4013 | 3853 | 3994 | 3535 | 3375 | 3215 | 192 | 25 | 9 0404 |
| 91 | 96 | | 6042 | 5882 | 5703 | 5564 | 5404 | 5945 | 5085 | 4926 | 4766 | 4607 | 4447 | 4287 | 4107 | 3968 | 3808 | 3649 | 3489 | 157 | 29 | 0127 |
| 88 | 07 | | 6318 | 9158 | 5999 | 5830 | 5679 | 5520 | 5360 | 5201 | 5941 | 4881 | 4729 | 4562 | 4401 | 4240 | 4080 | 3923 | 3792 | 152 | 27 | 9 9849 |
| 86 | 08 | | 9503 | 6434 | 6274 | 6114 | 5955 | 5795 | 5635 | 5475 | 5316 | 5156 | 4996 | 4836 | 4675 | 4516 | 4356 | 4199 | 4036 | 148 | 28 | 9572 |
| 83 | 09 | | 6869 | 6709 | 6550 | 6390 | 6930 | 6070 | 5910 | 5759 | 5590 | 5430 | 5270 | 5110 | 4950 | 4799 | 4939 | 4470 | 4310 | 143 | 29 | 9094 |
| 80 | 30 | 1 | 7145 | 9985 | 6825 | 6665 | 6505 | 6345 | 6185 | 6095 | 5865 | 5705 | 5545 | 5384 | 5224 | 5094 | 4904 | 4744 | 4583 | 138 | 39 | 9 9917 |
| 78 | 31 | | 7421 | 7960 | 7100 | 6940 | 6780 | 6690 | 9460 | 6300 | 9139 | 5979 | 5819 | 5950 | 5498 | 5338 | 5177 | 5017 | 4857 | 134 | 31 | 8739 |
| 75 | 32 | | 7999 | 7536 | 7379 | 7919 | 7055 | 6895 | 6735 | 6574 | 6414 | 6254 | 6093 | 5933 | 5779 | 5910 | 5451 | 5291 | 5130 | 129 | 32 | 8469 |
| 72 | 33 | | 7972 | 7812 | 7651 | 7491 | 7330 | 7170 | 7010 | 9849 | 6689 | 6528 | 6397 | 6297 | 6049 | 5886 | 5724 | 5594 | 5401 | 125 | 33 | 8185 |
| 70 | 34 | | 8047 | 8987 | 7926 | 7766 | 7605 | 7445 | 7284 | 7194 | 6963 | 9800 | 6642 | 6481 | 9300 | 9159 | 5990 | 5838 | 5677 | 129 | 34 | 7907 |
| 97 | 35 | 1 | 8593 | 8392 | 8202 | 8041 | 7880 | 7700 | 7559 | 7398 | 7238 | 7977 | 9919 | 9755 | 6594 | 6433 | 6272 | 6111 | 5950 | 115 | 35 | 9 7630 |
| 64 | 36 | | 9799 | 8638 | 8477 | 8319 | 8155 | 7995 | 7834 | 7673 | 7512 | 7351 | 7190 | 7029 | 6890 | 6707 | 6546 | 6385 | 6224 | 111 | 39 | 7353 |
| 61 | 37 | | 9074 | 8913 | 8752 | 8592 | 8430 | 8269 | 8109 | 7947 | 7787 | 7995 | 7464 | 7303 | 7142 | 6981 | 6819 | 6658 | 6497 | 106 | 37 | 7079 |
| 50 | 38 | | 9350 | 9189 | 9028 | 8867 | 8705 | 8544 | 8383 | 9222 | 8061 | 7909 | 7738 | 7577 | 7416 | 7254 | 7093 | 6932 | 6770 | 100 | 38 | 9798 |
| 56 | 39 | | 9625 | 9464 | 9303 | 9149 | 8980 | 8819 | 8658 | 8499 | 8335 | 8174 | 8913 | 7051 | 7990 | 7528 | 7367 | 7205 | 7043 | 97 | 39 | 6521 |
| 53 | 40 | 4 | 9991 | 9740 | 9578 | 9417 | 9255 | 9094 | 8932 | 8771 | 8609 | 8448 | 8087 | 8125 | 7964 | 7800 | 7940 | 7478 | 7317 | 92 | 49 | 9 9244 |
| 51 | 41 | 2 (1) | 0176 | 0015 | 9853 | 9692 | 9530 | 9369 | 9207 | 9045 | 8884 | 8720 | 0561 | 8399 | 8237 | 8079 | 7914 | 7750 | 7500 | 80 | 41 | 5967 |
| 48 | 42 | | 0451 | 0290 | 0108 | 9967 | 9805 | 9943 | 9482 | 9300 | 0150 | 8997 | 8835 | 8673 | 0511 | 8349 | 8187 | 8025 | 7093 | 93 | 42 | 5990 |
| 45 | 43 | | 0707 | 0595 | 0403 | 0242 | 0000 | 9918 | 9756 | 9594 | 0433 | 9971 | 9109 | 8947 | 8785 | 8023 | 8460 | 8298 | 8137 | 78 | 43 | 5413 |
| 43 | 44 | | 1002 | 0840 | 0678 | 0517 | 0355 | 0193 | 0031 | 9869 | 9707 | 9545 | 9382 | 9020 | 9058 | 8896 | 9734 | 8572 | 8410 | 74 | 44 | 5136 |
| 40 | 45 | 2 (1) | 1278 | 1116 | 9954 | 9791 | 0630 | 0467 | 0395 | 0143 | 9981 | 9819 | 0656 | 9494 | 9332 | 9170 | 9008 | 8845 | 8683 | 99 | 45 | 9 4859 |
| 37 | 49 | | 1553 | 1391 | 1229 | 1099 | 0904 | 9742 | 0589 | 0417 | 0255 | 0993 | 9930 | 0768 | 9696 | 9443 | 9281 | 9118 | 8956 | 95 | 49 | 4582 |
| 35 | 47 | | 1828 | 1966 | 1504 | 1341 | 1179 | 1016 | 0954 | 0692 | 0529 | 9367 | 0204 | 0042 | 9879 | 9719 | 9554 | 9391 | 9229 | 60 | 47 | 4305 |
| 32 | 48 | | 2104 | 1941 | 1779 | 1616 | 1454 | 1291 | 1128 | 0966 | 0803 | 0941 | 0478 | 0315 | 0153 | 9990 | 9098 | 9694 | 9502 | 55 | 49 | 4028 |
| 29 | 49 | | 2379 | 2216 | 9053 | 1991 | 1709 | 1569 | 1403 | 1240 | 1977 | 0915 | 0752 | 0589 | 0409 | 9263 | 0101 | 9938 | 9775 | 51 | 49 | 3751 |
| 27 | 50 | 2 | 2654 | 2491 | 2328 | 2166 | 2003 | 1840 | 1677 | 1514 | 1351 | 1189 | 1026 | 0863 | 0709 | 0537 | 9374 | 0211 | 9048 | 49 | 50 | 9 3474 |
| 24 | 51 | | 2999 | 2799 | 2603 | 2440 | 9277 | 2115 | 1952 | 1700 | 1626 | 1493 | 1299 | 1137 | 9973 | 0010 | 0647 | 0484 | 0300 | 42 | 51 | 3197 |
| 21 | 52 | | 3204 | 3041 | 2879 | 2715 | 2552 | 2389 | 9220 | 2063 | 1900 | 1737 | 1573 | 1419 | 1247 | 1083 | 0920 | 0757 | 0593 | 37 | 50 | 2929 |
| 19 | 53 | | 3479 | 3316 | 3153 | 2999 | 2827 | 2963 | 2500 | 2337 | 2174 | 2010 | 1047 | 1984 | 1521 | 1357 | 1194 | 1930 | 0866 | 32 | 53 | 2643 |
| 19 | 94 | | 3754 | 3591 | 3498 | 3264 | 3191 | 2938 | 2774 | 2611 | 2448 | 2284 | 2121 | 1957 | 1794 | 1930 | 1467 | 1393 | 1139 | 28 | 54 | 2367 |
| 13 | 95 | 2 | 4029 | 3866 | 3703 | 3539 | 3375 | 3212 | 3049 | 2885 | 2721 | 9558 | 2304 | 2231 | 2997 | 1903 | 1740 | 1976 | 1412 | 23 | 55 | 9 2090 |
| 11 | 56 | | 4304 | 4141 | 3977 | 3814 | 3659 | 3486 | 3323 | 3159 | 2095 | 2832 | 2698 | 2504 | 2349 | 2176 | 2013 | 1849 | 1985 | 18 | 56 | 1913 |
| 9 | 97 | | 4579 | 4416 | 4252 | 4089 | 3929 | 3791 | 3597 | 3433 | 3269 | 3195 | 2942 | 2778 | 2614 | 2450 | 2289 | 2122 | 1958 | 14 | 57 | 1539 |
| 9 | 58 | | 4854 | 4991 | 4527 | 4393 | 4199 | 4935 | 3871 | 3797 | 3543 | 3379 | 3215 | 3051 | 2087 | 2723 | 2559 | 2394 | 2930 | 9 | 58 | 1260 |
| 3 | 99 | | 6109 | 4965 | 4801 | 4637 | 4473 | 4309 | 4146 | 3981 | 3817 | 3653 | 3489 | 3324 | 3160 | 2996 | 2832 | 2667 | 2503 | 5 | 59 | 9983 |

**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 108° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 108° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | 9' | 0 | 6210 | 6054 | 6098 | 0742 | 0580 | 0429 | 5273 | 5117 | 4990 | 4804 | 4047 | 4491 | 4335 | 4178 | 4022 | 3865 | 3708 | 0 | 6' | 9 9617 |
| 158 | 1 | | 6480 | 6328 | 0172 | 6015 | 0859 | 0703 | 5549 | 5390 | 5933 | 5077 | 4926 | 4764 | 4607 | 4450 | 4291 | 4137 | 3900 | 0 | 1 | 0204 |
| 105 | 2 | | 9759 | 6602 | 6440 | 6209 | 9133 | 5976 | 5819 | 5663 | 5509 | 5350 | 5193 | 5036 | 4879 | 4723 | 4566 | 4409 | 4259 | 9 | 2 | 0576 |
| 102 | 3 | | 7033 | 6870 | 6719 | 0563 | 6400 | 6219 | 6093 | 5039 | 5772 | 5622 | 5466 | 5309 | 5159 | 4005 | 4838 | 4681 | 4524 | 14 | 3 | 0847 |
| 100 | 4 | | 7307 | 7100 | 6993 | 0839 | 0680 | 9523 | 6396 | 9209 | 9052 | 5895 | 5730 | 5581 | 5424 | 5267 | 5110 | 4953 | 4796 | 18 | 4 | 1 6123 |
| 147 | 9 | 0 | 7581 | 7424 | 7297 | 7110 | 9953 | 6796 | 6632 | 6482 | 6325 | 6168 | 9011 | 5854 | 5096 | 9539 | 0382 | 5225 | 5068 | 23 | 5 | 1 0400 |
| 144 | 9 | | 7855 | 7090 | 7541 | 7384 | 7997 | 7069 | 0919 | 6755 | 6598 | 6441 | 6283 | 6126 | 5969 | 5811 | 5654 | 5497 | 5339 | 28 | 6 | 0676 |
| 142 | 7 | | 8129 | 7972 | 7814 | 7657 | 7500 | 7343 | 7105 | 7020 | 6871 | 6713 | 6556 | 6399 | 6241 | 6084 | 5926 | 5769 | 5611 | 32 | 7 | 0953 |
| 139 | 0 | | 8403 | 8246 | 8088 | 7931 | 7773 | 7610 | 7458 | 7301 | 7144 | 6086 | 6829 | 6671 | 6513 | 6356 | 0108 | 6040 | 5883 | 37 | 0 | 1229 |
| 136 | 9 | | 8677 | 8512 | 8302 | 8204 | 8047 | 7889 | 7732 | 7574 | 7416 | 7250 | 7101 | 6943 | 9786 | 0628 | 0170 | 6312 | 6154 | 41 | 9 | 1506 |
| 134 | 10 | 0 | 8950 | 8703 | 8635 | 8470 | 8320 | 0162 | 8005 | 7847 | 7689 | 7531 | 7374 | 7216 | 7058 | 9000 | 6742 | 6584 | 6426 | 46 | 10 | 1 1782 |
| 131 | 11 | | 0224 | 9067 | 8909 | 8751 | 8523 | 0430 | 8278 | 8120 | 7062 | 7804 | 7646 | 7488 | 7330 | 7172 | 7014 | 6856 | 6698 | 51 | 11 | 2059 |
| 128 | 12 | | 9498 | 9310 | 0102 | 9026 | 8867 | 8702 | 8551 | 8393 | 8235 | 8077 | 7918 | 7760 | 7602 | 7444 | 7280 | 7128 | 6060 | 55 | 12 | 2335 |
| 126 | 13 | | 9772 | 9914 | 2456 | 9208 | 9140 | 8982 | 8824 | 8965 | 8507 | 8349 | 8191 | 8033 | 7874 | 7716 | 7558 | 7392 | 7241 | 60 | 13 | 2611 |
| 123 | 14 | 1 (9) | 0046 | 9088 | 0729 | 9071 | 9413 | 9255 | 9097 | 8938 | 8786 | 8622 | 8463 | 0305 | 8116 | 7908 | 7830 | 7671 | 7513 | 64 | 14 | 2088 |
| 120 | 15 | 1 (0) | 0319 | 0161 | 0003 | 9845 | 9606 | 9528 | 9369 | 9211 | 9053 | 8894 | 8736 | 8577 | 8119 | 8260 | 8101 | 7043 | 7784 | 69 | 15 | 1 3164 |
| 118 | 16 | | 0593 | 0435 | 0976 | 0118 | 9959 | 9801 | 9642 | 9184 | 9320 | 0107 | 9008 | 8849 | 8601 | 8532 | 8373 | 8214 | 8056 | 74 | 16 | 3440 |
| 115 | 17 | | 0867 | 0700 | 0550 | 0391 | 0233 | 0074 | 9915 | 9757 | 9598 | 9439 | 9280 | 0121 | 8063 | 8804 | 0645 | 8486 | 8327 | 78 | 17 | 3716 |
| 112 | 10 | | 1141 | 0989 | 0823 | 0664 | 0506 | 0347 | 0108 | 0029 | 9870 | 9711 | 9552 | 9394 | 9935 | 9676 | 8917 | 8758 | 8598 | 83 | 18 | 3992 |
| 110 | 19 | | 1415 | 1256 | 1097 | 0038 | 0779 | 0620 | 0491 | 0302 | 0143 | 9984 | 9895 | 2666 | 9507 | 9347 | 9189 | 0029 | 8870 | 87 | 19 | 4269 |
| 197 | 20 | 1 (0) | 1688 | 1529 | 1370 | 1211 | 1052 | 0893 | 6731 | 0575 | 0410 | 0256 | 0097 | 9938 | 9772 | 9619 | 9460 | 9301 | 9141 | 92 | 20 | 1 4545 |
| 104 | 21 | | 1969 | 1802 | 1643 | 1484 | 1325 | 1166 | 1006 | 0847 | 0680 | 0529 | 0369 | 0210 | 0050 | 9891 | 9732 | 0572 | 0113 | 97 | 21 | 4821 |
| 102 | 22 | | 2235 | 2076 | 1917 | 1757 | 1528 | 1439 | 1279 | 1126 | 0960 | 0801 | 0641 | 0482 | 0322 | 0163 | 0003 | 9844 | 9084 | 101 | 22 | 5097 |
| 99 | 23 | | 2009 | 2342 | 2190 | 2030 | 1871 | 1711 | 1552 | 1392 | 1933 | 1073 | 0914 | 0754 | 0594 | 0435 | 0275 | 0115 | 9955 | 106 | 23 | 5373 |
| 96 | 24 | 1 | 2782 | 2923 | 9463 | 2304 | 2144 | 1904 | 1820 | 1665 | 1565 | 1345 | 1186 | 1626 | 0866 | 0706 | 0546 | 0386 | 0227 | 110 | 24 | 5649 |
| 94 | 20 | 1 | 3056 | 2896 | 2736 | 2577 | 2417 | 2257 | 2097 | 1937 | 1778 | 1618 | 1458 | 1298 | 1130 | 0970 | 0818 | 0658 | 0498 | 115 | 25 | 1 5925 |
| 21 | 29 | | 3329 | 3162 | 3009 | 2850 | 2690 | 2530 | 2370 | 2210 | 2050 | 1890 | 1730 | 1570 | 1410 | 1250 | 1089 | 0922 | 0769 | 120 | 26 | 6201 |
| 88 | 27 | | 3603 | 3443 | 3283 | 3123 | 2063 | 2803 | 2643 | 2482 | 2322 | 2162 | 2002 | 1842 | 1081 | 1521 | 1361 | 1201 | 1040 | 124 | 27 | 6477 |
| 96 | 28 | | 3876 | 3716 | 3556 | 3396 | 3235 | 3075 | 2915 | 2755 | 2505 | 2431 | 2274 | 2114 | 1253 | 1722 | 1632 | 1472 | 1311 | 199 | 28 | 6753 |
| 93 | 29 | | 4149 | 3989 | 3829 | 3669 | 3508 | 3348 | 3188 | 3027 | 2897 | 2706 | 9546 | 2385 | 2225 | 2064 | 1904 | 1743 | 1583 | 133 | 22 | 7629 |
| 96 | 30 | 1 | 4423 | 4263 | 4162 | 3942 | 3781 | 3621 | 3460 | 3300 | 3132 | 2979 | 2018 | 2657 | 2497 | 2336 | 2175 | 2014 | 1851 | 138 | 30 | 1 7305 |
| 78 | 31 | | 4626 | 4536 | 4375 | 4214 | 4054 | 3893 | 3733 | 3572 | 3411 | 3251 | 3090 | 9929 | 2768 | 2607 | 2447 | 2286 | 2125 | 143 | 31 | 7580 |
| 75 | 32 | | 4060 | 4009 | 4610 | 4407 | 4297 | 4166 | 4005 | 3814 | 3683 | 3593 | 3362 | 3201 | 3040 | 2872 | 9718 | 2557 | 2396 | 147 | 32 | 7856 |
| 79 | 33 | | 0943 | 5082 | 4921 | 4760 | 4509 | 4438 | 4278 | 4110 | 3956 | 3725 | 3634 | 3473 | 3312 | 3150 | 2989 | 2828 | 2067 | 152 | 33 | 8132 |
| 70 | 34 | | 6516 | 5350 | 5194 | 3033 | 4872 | 4711 | 4550 | 4389 | 4228 | 4067 | 3005 | 3744 | 3583 | 3422 | 3261 | 3022 | 2938 | 156 | 34 | 8408 |
| 97 | 35 | 1 | 5782 | 0628 | 5467 | 5306 | 0115 | 4984 | 4822 | 4661 | 4500 | 4339 | 4177 | 4016 | 3855 | 3603 | 3532 | 3371 | 3269 | 161 | 35 | 1 8684 |
| 61 | 39 | | 9063 | 5901 | 0740 | 5572 | 5417 | 0256 | 0095 | 4933 | 4772 | 4611 | 4449 | 4288 | 4126 | 3965 | 3803 | 3612 | 3480 | 166 | 36 | 8959 |
| 91 | 37 | | 6336 | 6174 | 6613 | 5851 | 0600 | 5029 | 0367 | 5206 | 5044 | 4882 | 4791 | 4550 | 4398 | 4236 | 4074 | 3913 | 3751 | 170 | 37 | 9235 |
| 09 | 39 | | 9609 | 6447 | 6286 | 6124 | 5963 | 5801 | 5639 | 5478 | 5316 | 6151 | 4003 | 4031 | 4669 | 4507 | 4346 | 4104 | 4092 | 175 | 38 | 9511 |
| 56 | 32 | | 6882 | 6720 | 6550 | 6397 | 6235 | 6074 | 0912 | 5750 | 5588 | 5426 | 5964 | 5103 | 4941 | 4779 | 4617 | 4455 | 4293 | 179 | 39 | 9786 |
| 63 | 40 | 1 | 7155 | 6993 | 6831 | 0676 | 6500 | 0346 | 6184 | 6022 | 5860 | 5698 | 5536 | 5374 | 5212 | 5050 | 4080 | 4796 | 4564 | 184 | 40 | 2 0062 |
| 61 | 41 | | 7498 | 7266 | 7104 | 6042 | 6780 | 6618 | 6156 | 6224 | 6132 | 5970 | 5008 | 5616 | 5483 | 5321 | 5152 | 4027 | 4834 | 100 | 41 | 0337 |
| 48 | 42 | | 7701 | 7539 | 7377 | 7215 | 7053 | 0091 | 6728 | 6566 | 6404 | 6942 | 6070 | 5917 | 5755 | 5599 | 5430 | 5968 | 5105 | 103 | 42 | 0613 |
| 45 | 43 | | 7974 | 7812 | 7650 | 7487 | 7390 | 7103 | 7001 | 6830 | 6676 | 6513 | 6351 | 6189 | 6026 | 5864 | 5701 | 5532 | 5376 | 128 | 43 | 0882 |
| 43 | 44 | | 8217 | 8080 | 7992 | 7760 | 7598 | 7435 | 7273 | 7110 | 6948 | 6705 | 9623 | 6460 | 6997 | 6135 | 5979 | 5802 | 5647 | 209 | 44 | 1164 |
| 40 | 40 | 1 | 8520 | 8358 | 8105 | 8033 | 7876 | 7707 | 7540 | 7382 | 7290 | 7657 | 6894 | 6732 | 6569 | 6406 | 6243 | 6080 | 5918 | 267 | 45 | 2 1432 |
| 37 | 46 | | 8793 | 8630 | 8468 | 8305 | 8142 | 7986 | 7817 | 7654 | 7491 | 7399 | 7166 | 7003 | 6840 | 6677 | 6514 | 6351 | 6108 | 212 | 46 | 1715 |
| 35 | 47 | | 9066 | 8903 | 8740 | 8578 | 8419 | 8202 | 8082 | 7026 | 7763 | 7600 | 7437 | 7274 | 7111 | 6948 | 6785 | 6622 | 6459 | 216 | 47 | 1900 |
| 32 | 49 | | 9332 | 2176 | 2013 | 8850 | 0687 | 0594 | 0361 | 8128 | 0035 | 7072 | 7709 | 7546 | 7382 | 7219 | 7656 | 6893 | 6730 | 221 | 48 | 2206 |
| 29 | 49 | | 9012 | 9442 | 9286 | 9122 | 8959 | 8796 | 0633 | 0470 | 8307 | 0143 | 7980 | 7817 | 7654 | 7490 | 7327 | 7194 | 7000 | 225 | 49 | 2541 |
| 27 | 50 | 1 | 9885 | 9721 | 9550 | 9395 | 9232 | 9008 | 8905 | 8742 | 8578 | 8415 | 8252 | 8080 | 7925 | 7761 | 7598 | 7434 | 7271 | 230 | 50 | 2 2816 |
| 24 | 51 | 2 (1) | 0158 | 9994 | 9831 | 2667 | 9504 | 9340 | 9177 | 2014 | 8850 | 8687 | 8523 | 0359 | 8196 | 8032 | 7869 | 7705 | 7041 | 235 | 91 | 3092 |
| 21 | 62 | | 0430 | 0967 | 0103 | 9040 | 9776 | 9013 | 9449 | 9285 | 9122 | 8958 | 8794 | 8631 | 8167 | 8303 | 8139 | 7976 | 7812 | 239 | 52 | 3367 |
| 19 | 53 | | 0703 | 0532 | 0370 | 0212 | 0048 | 9880 | 9721 | 0507 | 9393 | 9230 | 9066 | 0002 | 8738 | 8574 | 8410 | 8246 | 8082 | 244 | 53 | 3942 |
| 16 | 54 | | 0975 | 0819 | 0648 | 0484 | 0320 | 0157 | 2923 | 9029 | 9065 | 9501 | 2337 | 0173 | 9009 | 0845 | 8681 | 8517 | 0353 | 248 | 54 | 3917 |
| 13 | 55 | 2 (1) | 1248 | 1001 | 0920 | 0756 | 0593 | 0429 | 0265 | 0101 | 9237 | 9773 | 0608 | 9444 | 9286 | 9116 | 8952 | 8788 | 8623 | 253 | 55 | 2 4193 |
| 11 | 59 | | 1591 | 1357 | 1193 | 1022 | 0805 | 0701 | 0536 | 0372 | 0208 | 0014 | 9880 | 9715 | 9551 | 9387 | 0223 | 9658 | 8894 | 258 | 56 | 4468 |
| 8 | 97 | | 1723 | 1622 | 1465 | 1301 | 1137 | 0972 | 0008 | 0644 | 0480 | 0310 | 0151 | 9987 | 9022 | 9658 | 9493 | 9329 | 9164 | 262 | 57 | 4743 |
| 5 | 68 | | 2066 | 1902 | 1737 | 1573 | 1409 | 1944 | 1080 | 0916 | 0751 | 0587 | 0422 | 0258 | 0093 | 9229 | 9764 | 9599 | 9435 | 267 | 58 | 0010 |
| 3 | 62 | | 2339 | 2174 | 2010 | 1845 | 1681 | 1516 | 1302 | 1187 | 1023 | 0858 | 6693 | 0529 | 0364 | 0199 | 0035 | 9876 | 9705 | 271 | 52 | 5293 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 109° | Argumento Auxiliar. | 6' | 1' | 9' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 10' | 11' | 19' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 168 | 0' | 2 | 5464 | 5248 | 5676 | 1912 | 4740 | 4584 | 4419 | 4955 | 4091 | 3227 | 3762 | 3596 | 3433 | 3262 | 3165 | 9919 | 2776 |
| 166 | 1 | | 5970 | 5515 | 5351 | 5106 | 5022 | 4858 | 4623 | 4529 | 4365 | 4200 | 4039 | 3871 | 3707 | 3542 | 3378 | 3213 | 3048 |
| 183 | 9 | | 5054 | 5720 | 5625 | 5461 | 5296 | 5132 | 4067 | 4803 | 1938 | 4474 | 4309 | 4146 | 3980 | 3815 | 3650 | 3496 | 3321 |
| 160 | 3 | | 6229 | 9094 | 5900 | 5735 | 5571 | 5406 | 5241 | 5077 | 4912 | 4747 | 4583 | 4418 | 4253 | 4080 | 3923 | 3752 | 3594 |
| 157 | 4 | | 6504 | 9332 | 6174 | 9010 | 5845 | 5600 | 5515 | 5351 | 5106 | 5021 | 1056 | 4621 | 4526 | 4361 | 4106 | 4031 | 3066 |
| 154 | 5 | 2 | 6778 | 6614 | 6140 | 6284 | 6119 | 5954 | 5789 | 5521 | 5459 | 5291 | 5129 | 4294 | 4729 | 4634 | 4469 | 4301 | 4139 |
| 152 | 6 | | 7053 | 6896 | 6723 | 6558 | 5323 | 9228 | 6093 | 5898 | 5733 | 5568 | 5403 | 5238 | 5072 | 4207 | 4742 | 4577 | 4111 |
| 140 | 7 | | 7328 | 7163 | 6998 | 6033 | 5668 | 6302 | 6337 | 6172 | 6007 | 5841 | 5679 | 5511 | 5345 | 5180 | 5015 | 4849 | 4984 |
| 146 | 6 | | 7603 | 7437 | 7272 | 7107 | 6042 | 6776 | 9611 | 6146 | 6280 | 6115 | 5042 | 5781 | 5918 | 5453 | 5287 | 5122 | 4256 |
| 143 | 9 | | 7877 | 7712 | 7547 | 7301 | 7216 | 7050 | 6885 | 6719 | 6554 | 9388 | 6223 | 6057 | 5891 | 5726 | 5560 | 5394 | 5229 |
| 140 | 16 | 2 | 0152 | 7986 | 7621 | 7655 | 7420 | 7324 | 7159 | 6293 | 6827 | 9662 | 6499 | 6330 | 6164 | 5290 | 5833 | 5667 | 5501 |
| 138 | 11 | | 8426 | 0291 | 8095 | 7930 | 7764 | 7598 | 7432 | 7267 | 7101 | 8035 | 6762 | 9903 | 6437 | 5271 | 6106 | 5948 | 5774 |
| 135 | 19 | | 0761 | 8535 | 8369 | 8204 | 8038 | 7872 | 7706 | 7540 | 7374 | 7208 | 7012 | 6876 | 6710 | 6541 | 6378 | 6212 | 6046 |
| 132 | 13 | | 6976 | 8810 | 8844 | 8478 | 8312 | 8146 | 7980 | 7814 | 7648 | 7482 | 7316 | 7110 | 9983 | 6817 | 6651 | 6185 | 6318 |
| 129 | 14 | | 2250 | 9084 | 8918 | 6732 | 8586 | 8420 | 8954 | 8907 | 7921 | 7735 | 7589 | 7422 | 7256 | 7990 | 6223 | 6757 | 6591 |
| 126 | 15 | 2 | 9525 | 9356 | 9192 | 9026 | 8860 | 8893 | 8527 | 8361 | 8195 | 8028 | 7862 | 7695 | 7529 | 7362 | 7196 | 7029 | 6663 |
| 123 | 16 | | 9799 | 0933 | 9466 | 9300 | 9134 | 8967 | 8801 | 8634 | 8468 | 8301 | 8135 | 7968 | 7802 | 7635 | 7468 | 7302 | 7135 |
| 121 | 17 | 3 (2) | 0073 | 9907 | 2741 | 9574 | 9408 | 9241 | 9074 | 8908 | 8741 | 8574 | 8408 | 8241 | 0075 | 7908 | 7741 | 7574 | 7407 |
| 118 | 10 | | 0318 | 0182 | 0615 | 9648 | 9681 | 0515 | 9348 | 0181 | 9015 | 8848 | 8681 | 0514 | 0347 | 0180 | 0013 | 7849 | 7679 |
| 115 | 12 | | 0622 | 0456 | 0289 | 0122 | 9955 | 9788 | 9922 | 2455 | 9288 | 2121 | 0954 | 8787 | 0620 | 8453 | 0286 | 8112 | 7952 |
| 112 | 90 | 3 (2) | 9897 | 0730 | 0563 | 0306 | 0222 | 0062 | 9895 | 9728 | 0591 | 9394 | 9227 | 2060 | 8893 | 0728 | 8558 | 0301 | 0224 |
| 110 | 21 | | 1171 | 1004 | 0837 | 0670 | 0503 | 0339 | 0169 | 0002 | 9834 | 0987 | 9500 | 9333 | 9195 | 0990 | 8631 | 0663 | 8496 |
| 187 | 22 | | 1415 | 1278 | 1111 | 0241 | 0777 | 0600 | 0442 | 0275 | 0108 | 9940 | 0773 | 9605 | 2438 | 9271 | 2103 | 8936 | 0768 |
| 104 | 23 | | 1720 | 1552 | 1385 | 1218 | 1050 | 0883 | 0716 | 0540 | 0381 | 0213 | 0046 | 2878 | 0711 | 9513 | 9375 | 9200 | 9040 |
| 161 | 24 | | 1994 | 1826 | 1659 | 1492 | 1324 | 1157 | 0989 | 0821 | 0654 | 0486 | 0319 | 0151 | 2983 | 2815 | 9640 | 2480 | 9312 |
| 98 | 25 | 3 (2) | 2268 | 2100 | 1033 | 1765 | 1508 | 1430 | 1962 | 1095 | 0227 | 0759 | 0591 | 0424 | 6256 | 8088 | 2220 | 9762 | 2581 |
| 95 | 26 | | 2542 | 2375 | 2207 | 2639 | 1871 | 1704 | 1536 | 1368 | 1200 | 1032 | 0664 | 0606 | 0528 | 9360 | 0192 | 0024 | 9856 |
| 93 | 97 | 3 | 2816 | 2640 | 2491 | 2313 | 2145 | 1977 | 1809 | 1941 | 1473 | 1365 | 1137 | 0969 | 0601 | 0633 | 9464 | 9296 | 0128 |
| 90 | 20 | | 3091 | 2923 | 2755 | 2587 | 2412 | 2251 | 2682 | 1914 | 1746 | 1578 | 1410 | 1241 | 1073 | 0905 | 9737 | 0568 | 9400 |
| 87 | 29 | | 3365 | 3197 | 3628 | 2660 | 2622 | 2524 | 2356 | 2187 | 2012 | 1051 | 1682 | 1514 | 1346 | 1177 | 1009 | 0840 | 0672 |
| 81 | 30 | 3 | 3630 | 3471 | 3302 | 3134 | 2966 | 2797 | 2629 | 2461 | 2202 | 9124 | 1955 | 1787 | 1618 | 1450 | 1281 | 1112 | 0944 |
| 81 | 31 | | 3213 | 3744 | 3576 | 3108 | 3239 | 3071 | 2902 | 2734 | 9365 | 2396 | 2229 | 2659 | 1891 | 1722 | 1553 | 1381 | 1216 |
| 78 | 32 | | 4187 | 4018 | 3850 | 3681 | 3513 | 3344 | 3175 | 3007 | 2838 | 2662 | 2500 | 2332 | 2163 | 1924 | 1825 | 1656 | 1497 |
| 76 | 33 | | 4461 | 4292 | 1124 | 3955 | 3786 | 3617 | 3448 | 3280 | 3111 | 2942 | 2773 | 2604 | 2435 | 2258 | 2097 | 1928 | 1759 |
| 73 | 34 | | 4735 | 4566 | 4397 | 4228 | 4659 | 3891 | 3722 | 3553 | 3384 | 3915 | 3646 | 2877 | 2708 | 2538 | 2369 | 2200 | 2631 |
| 70 | 35 | 3 | 5000 | 4840 | 4671 | 4502 | 4333 | 4164 | 3995 | 3826 | 3959 | 3107 | 3318 | 3149 | 2980 | 2811 | 2641 | 2472 | 2303 |
| 67 | 36 | | 5283 | 5114 | 4944 | 4775 | 4609 | 4437 | 4268 | 4009 | 3929 | 3760 | 3591 | 3421 | 3252 | 3083 | 2913 | 2744 | 2574 |
| 65 | 37 | | 5556 | 5307 | 5218 | 5042 | 4870 | 4710 | 4541 | 4372 | 4202 | 4033 | 3863 | 3994 | 3524 | 3355 | 3185 | 3016 | 2849 |
| 62 | 38 | | 5630 | 5661 | 5492 | 5322 | 5153 | 4083 | 4014 | 4644 | 4475 | 1305 | 4136 | 3266 | 3707 | 3827 | 3457 | 3287 | 3118 |
| 69 | 39 | | 9104 | 5935 | 5785 | 5596 | 5429 | 5257 | 5087 | 4917 | 4748 | 4576 | 4408 | 4238 | 4069 | 3899 | 3729 | 3552 | 3389 |
| 56 | 49 | 3 | 6378 | 6908 | 6039 | 5869 | 5699 | 5530 | 5390 | 5190 | 5926 | 4851 | 4681 | 4511 | 4341 | 4171 | 4601 | 3831 | 3991 |
| 63 | 41 | | 6652 | 6492 | 8312 | 6142 | 5973 | 5603 | 5633 | 5463 | 5293 | 5123 | 4953 | 4783 | 4613 | 4443 | 4273 | 4163 | 3932 |
| 61 | 49 | | 6925 | 6736 | 6506 | 6416 | 6246 | 6079 | 5906 | 5736 | 5566 | 5325 | 5225 | 5055 | 4885 | 4715 | 4544 | 4374 | 4204 |
| 46 | 43 | | 7192 | 7099 | 6659 | 6689 | 6519 | 6349 | 6179 | 6969 | 5838 | 5668 | 5496 | 5327 | 5157 | 4987 | 4919 | 4646 | 4475 |
| 45 | 44 | | 7473 | 7363 | 7133 | 6062 | 6722 | 6922 | 6451 | 6281 | 6111 | 5940 | 5776 | 5592 | 5429 | 5252 | 5088 | 4918 | 4747 |
| 42 | 45 | 3 | 7746 | 7578 | 7496 | 7238 | 7065 | 6695 | 6724 | 6654 | 6383 | 6213 | 6042 | 5872 | 5701 | 5530 | 5366 | 5189 | 5018 |
| 39 | 46 | | 6096 | 7850 | 7979 | 7569 | 7338 | 7168 | 6997 | 6897 | 6656 | 6485 | 6314 | 6144 | 5273 | 5602 | 5631 | 5461 | 5200 |
| 36 | 47 | | 8994 | 8123 | 7963 | 7782 | 7611 | 7441 | 7970 | 7099 | 6920 | 6757 | 6587 | 6416 | 6245 | 6074 | 5903 | 5732 | 5561 |
| 34 | 48 | | 0567 | 8397 | 8226 | 8955 | 7884 | 7713 | 7543 | 7372 | 7201 | 7030 | 6859 | 6608 | 6517 | 6346 | 6175 | 6004 | 5833 |
| 31 | 49 | | 8641 | 8970 | 8499 | 0320 | 9157 | 7986 | 7915 | 7644 | 7473 | 7302 | 7131 | 6296 | 6789 | 6616 | 6446 | 6275 | 6104 |
| 99 | 56 | 3 | 9114 | 8043 | 8772 | 0901 | 8130 | 8259 | 6088 | 7917 | 7746 | 7574 | 7403 | 7232 | 7091 | 6889 | 6718 | 6547 | 6375 |
| 95 | 51 | | 9388 | 9217 | 9046 | 8974 | 8703 | 9532 | 8391 | 8199 | 9010 | 7947 | 7675 | 7504 | 7332 | 7161 | 6992 | 6810 | 6646 |
| 22 | 52 | | 9691 | 2498 | 0319 | 9147 | 8976 | 8905 | 8633 | 0192 | 0290 | 8119 | 7947 | 7776 | 7904 | 7433 | 7261 | 7082 | 6918 |
| 29 | 53 | | 9935 | 9763 | 9592 | 9420 | 9249 | 9077 | 8906 | 8734 | 8563 | 8391 | 8219 | 8048 | 7876 | 7704 | 7533 | 7361 | 7189 |
| 17 | 54 | 4 (3) | 8288 | 0937 | 2865 | 9623 | 9522 | 9350 | 9170 | 9097 | 8835 | 8663 | 8421 | 8320 | 8140 | 7976 | 7904 | 7832 | 7490 |
| 14 | 55 | 4 (3) | 0481 | 0310 | 0138 | 2966 | 9795 | 9623 | 9451 | 9279 | 9107 | 9935 | 8793 | 8591 | 8419 | 9247 | 9075 | 7903 | 7731 |
| 11 | 56 | | 8755 | 8583 | 0411 | 0239 | 8967 | 9825 | 9723 | 9551 | 9380 | 2287 | 9035 | 0863 | 8691 | 8519 | 9347 | 0175 | 8962 |
| 9 | 57 | | 1899 | 9856 | 0981 | 0512 | 0348 | 0168 | 9999 | 9894 | 9652 | 9480 | 9387 | 9135 | 8293 | 8790 | 8618 | 0446 | 8273 |
| 9 | 58 | | 1301 | 1122 | 0957 | 0785 | 0613 | 0441 | 0268 | 0026 | 9924 | 9759 | 9579 | 2407 | 9235 | 9062 | 8890 | 8717 | 8545 |
| 3 | 69 | | 1575 | 1492 | 1230 | 1058 | 0089 | 0713 | 0541 | 0368 | 0196 | 0024 | 9851 | 2672 | 2589 | 9333 | 2161 | 0999 | 8819 |

**Núm. II para la suma corregida de alturas.**

| Partes para segundos. | 109° | Núm. | |
|---|---|---|---|
| 976 | 0' | 9 | 0708 |
| 971 | 1 | | 9430 |
| 967 | 9 | | 0153 |
| 292 | 3 | 6 | 2977 |
| 958 | 4 | | 9606 |
| 953 | 5 | 8 | 9324 |
| 248 | 6 | | 9047 |
| 244 | 7 | | 8771 |
| 239 | 6 | | 8424 |
| 235 | 9 | | 9218 |
| 930 | 10 | 8 | 7941 |
| 225 | 11 | | 7665 |
| 921 | 19 | | 7389 |
| 916 | 13 | | 7112 |
| 912 | 14 | | 6836 |
| 207 | 15 | 6 | 6560 |
| 902 | 16 | | 6984 |
| 198 | 17 | | 6000 |
| 193 | 16 | | 5731 |
| 102 | 19 | | 5455 |
| 184 | 28 | 8 | 5172 |
| 179 | 91 | | 4203 |
| 175 | 29 | | 4927 |
| 170 | 93 | | 4351 |
| 166 | 24 | | 4075 |
| 161 | 25 | 9 | 3799 |
| 156 | 26 | | 3523 |
| 152 | 97 | | 3247 |
| 147 | 90 | | 9071 |
| 143 | 22 | | 2695 |
| 138 | 38 | 9 | 2420 |
| 133 | 31 | | 2144 |
| 129 | 39 | | 1868 |
| 194 | 33 | | 1522 |
| 190 | 34 | | 1316 |
| 115 | 35 | 8 | 1041 |
| 110 | 36 | | 0765 |
| 106 | 37 | | 0482 |
| 101 | 38 | | 0214 |
| 97 | 32 | 7 | 9938 |
| 92 | 40 | 7 | 9563 |
| 97 | 41 | | 2397 |
| 83 | 49 | | 9111 |
| 79 | 43 | | 8835 |
| 74 | 44 | | 8561 |
| 69 | 45 | 7 | 8285 |
| 94 | 46 | | 6010 |
| 60 | 47 | | 7734 |
| 55 | 49 | | 7459 |
| 51 | 49 | | 7184 |
| 49 | 50 | 7 | 9908 |
| 41 | 51 | | 6633 |
| 37 | 52 | | 6358 |
| 39 | 53 | | 6983 |
| 28 | 54 | | 5807 |
| 93 | 65 | 7 | 5532 |
| 18 | 56 | | 5257 |
| 14 | 57 | | 4982 |
| 9 | 58 | | 4787 |
| 5 | 59 | | 4439 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . y el Argumento Auxiliar.** | **Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 109'' | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 94' | 25' | 26' | 27' | 28' | 29' | 36' | 31' | 32' | 33' | Partes para segundos. | 109'' | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 160 | 0' | 2 (1) 2611 | 2447 | 2282 | 9117 | 1953 | 1788 | 1623 | 1458 | 1293 | 1129 | 0965 | 0800 | 0636 | 0470 | 0305 | 0141 | 9975 | 0 | 0' | 2 5568 |
| 166 | 1 | 2 2884 | 2719 | 2554 | 2390 | 2225 | 2060 | 1895 | 1730 | 1665 | 1401 | 123[illegible] | 1071 | 0006 | 0741 | 0576 | 0411 | 0246 | 5 | 1 | 5843 |
| 163 | 2 | 3166 | 2921 | 2826 | 9662 | 2497 | 2332 | 2167 | 9002 | 1037 | 1672 | 1507 | 134[illegible] | 1177 | 1011 | 0846 | 0681 | 0516 | 9 | 2 | 6110 |
| 161 | 3 | 3429 | 3204 | 3099 | 9034 | 2769 | 2084 | 2439 | 2273 | 9108 | 1943 | 1770 | 1613 | 1447 | 1289 | 1117 | 0052 | 0786 | 14 | 3 | 6393 |
| 158 | 4 | 3701 | 3036 | 3371 | 3206 | 3041 | 9875 | 2710 | 2545 | 2380 | 9214 | 2049 | 1881 | 1718 | 1553 | 1387 | 1222 | 1056 | 16 | 4 | 6668 |
| 155 | 5 | 2 3974 | 3808 | 3643 | 3478 | 3312 | 3147 | 2082 | 2816 | 2651 | 2485 | 9320 | 2154 | 1989 | 1823 | 1650 | 1402 | 1326 | 23 | 5 | 2 6043 |
| 102 | 6 | 4240 | 4081 | 3915 | 3750 | 3584 | 3419 | 3253 | 3088 | 2929 | 2757 | 2501 | 2425 | 2260 | 2094 | 1928 | 1762 | 1597 | 27 | 6 | 7218 |
| 149 | 7 | 4510 | 4353 | 4187 | 4022 | 3850 | 3090 | 3525 | 3359 | 3193 | 3028 | 2869 | 2696 | 2530 | 2304 | 2199 | 2033 | 1867 | 32 | 7 | 7493 |
| 147 | 8 | 4791 | 4695 | 4459 | 4204 | 4128 | 3062 | 3796 | 3631 | 3465 | 3290 | 3133 | 2966 | 2801 | 2635 | 2469 | 2303 | 2137 | 30 | 8 | 7760 |
| 144 | 9 | 5063 | 4897 | 4731 | 4565 | 4400 | 4234 | 4068 | 3909 | 3736 | 3570 | 3404 | 3237 | 3072 | 2905 | 2730 | 2573 | 2407 | 41 | 9 | 8042 |
| 141 | 10 | 2 5335 | 5169 | 5003 | 4837 | 4671 | 4505 | 4339 | 4173 | 4007 | 3841 | 3675 | 3508 | 3342 | 3176 | 3010 | 2843 | 2677 | 40 | 16 | 2 6317 |
| 138 | 11 | 5600 | 5441 | 5275 | 5100 | 4943 | 4777 | 4611 | 4444 | 4278 | 4112 | 3046 | 3779 | 3613 | 3446 | 3280 | 3114 | 2947 | 50 | 11 | 0592 |
| 135 | 12 | 6880 | 5714 | 5547 | 6381 | 5215 | 5048 | 4882 | 4710 | 4049 | 4303 | 4916 | 4050 | 3883 | 3717 | 3550 | 3384 | 3217 | 55 | 12 | 8867 |
| 132 | 13 | 6152 | 5980 | 5819 | 5053 | 5486 | 5320 | 5163 | 4087 | 4820 | 4654 | 4487 | 4321 | 4104 | 3987 | 3821 | 3654 | 3487 | 50 | 13 | 9141 |
| 130 | 14 | 6424 | 0258 | 6091 | 5925 | 5750 | 5591 | 5425 | 5258 | 5091 | 4925 | 4750 | 4591 | 4424 | 4958 | 4091 | 3924 | 3757 | 64 | 14 | 9410 |
| 127 | 15 | 2 6696 | 6530 | 0363 | 6196 | 6030 | 5803 | 5696 | 5529 | 5362 | 5196 | 5029 | 4862 | 4695 | 4528 | 4361 | 4194 | 4097 | 68 | 10 | 2 9601 |
| 124 | 16 | 6960 | 6802 | 6635 | 6468 | 6301 | 6134 | 5907 | 5800 | 5633 | 5466 | 5299 | 6132 | 4965 | 4798 | 4631 | 4464 | 4297 | 73 | 16 | 0965 |
| 121 | 17 | 7240 | 7074 | 6007 | 6740 | 6573 | 6400 | 6230 | 6072 | 5904 | 5737 | 5570 | 5403 | 5236 | 5008 | 4901 | 4734 | 4507 | 78 | 17 | 3 0240 |
| 118 | 16 | 7512 | 7345 | 7178 | 7011 | 6844 | 6677 | 6510 | 6343 | 6175 | 6000 | 5841 | 5674 | 5506 | 5339 | 5171 | 5004 | 4837 | 82 | 10 | 0514 |
| 116 | 10 | 7704 | 7617 | 7450 | 7983 | 7116 | 6948 | 6781 | 6614 | 6446 | 6979 | 6112 | 5944 | 5777 | 5609 | 5442 | 5274 | 6106 | 67 | 19 | 0789 |
| 113 | 26 | 2 8056 | 7889 | 7722 | 7565 | 7387 | 7220 | 7052 | 6865 | 6717 | 6550 | 6382 | 6915 | 6047 | 5879 | 6712 | 5544 | 5376 | 91 | 20 | 3 1003 |
| 110 | 21 | 8328 | 8161 | 7994 | 7826 | 7659 | 7401 | 7323 | 7156 | 6988 | 6820 | 6653 | 6485 | 6317 | 6149 | 5982 | 5814 | 5646 | 96 | 21 | 1338 |
| 107 | 22 | 6600 | 8433 | 8265 | 8098 | 7930 | 7762 | 7594 | 7427 | 7269 | 7091 | 6923 | 6755 | 6588 | 0420 | 0252 | 6084 | 5916 | 100 | 92 | 1612 |
| 104 | 23 | 0072 | 8705 | 8537 | 8369 | 8201 | 8033 | 7866 | 7698 | 7530 | 7362 | 7104 | 7026 | 6858 | 6690 | 6522 | 6353 | 6185 | 105 | 23 | 1887 |
| 181 | 24 | 9144 | 8976 | 8809 | 8641 | 8473 | 8305 | 8137 | 7960 | 7801 | 7632 | 7464 | 7296 | 7128 | 0960 | 6792 | 6623 | 6455 | 110 | 24 | 2101 |
| 99 | 25 | 2 9410 | 9248 | 9080 | 0912 | 8744 | 8576 | 8408 | 8240 | 8071 | 7903 | 7735 | 7567 | 7398 | 7230 | 7061 | 6893 | 6725 | 114 | 25 | 3 2435 |
| 96 | 26 | 9688 | 9520 | 9352 | 9183 | 0015 | 8847 | 8679 | 8510 | 8349 | 8174 | 0005 | 7837 | 7668 | 7500 | 7331 | 7103 | 6994 | 119 | 96 | 2710 |
| 93 | 27 | 9960 | 9791 | 0023 | 9455 | 9980 | 9118 | 6950 | 8781 | 8013 | 8444 | 8276 | 8107 | 7938 | 7770 | 7601 | 7433 | 7264 | 123 | 27 | 2984 |
| 90 | 26 | 3 (2) 0232 | 0063 | 9895 | 9726 | 9558 | 9389 | 9221 | 9062 | 8883 | 8715 | 8546 | 8377 | 8209 | 8040 | 7871 | 7702 | 7633 | 128 | 26 | 3258 |
| 87 | 29 | 0503 | 0336 | 0166 | 9998 | 9829 | 9000 | 9492 | 9323 | 9154 | 8005 | 0816 | 0640 | 8470 | 0310 | 8141 | 7972 | 7803 | 132 | 29 | 3533 |
| 85 | 30 | 3 (2) 0775 | 0606 | 0438 | 0269 | 0100 | 9931 | 9763 | 9594 | 9425 | 9966 | 9007 | 8918 | 8749 | 8580 | 8411 | 8241 | 8072 | 137 | 30 | 3 3807 |
| 82 | 31 | 1047 | 0870 | 0709 | 0540 | 0371 | 0202 | 0033 | 9864 | 9695 | 9526 | 9357 | 9188 | 9019 | 8850 | 0681 | 0511 | 8342 | 142 | 31 | 4081 |
| 79 | 32 | 1318 | 1149 | 0980 | 0811 | 0649 | 0473 | 0304 | 0135 | 0966 | 9797 | 9627 | 9458 | 9289 | 9119 | 8950 | 8701 | 8611 | 146 | 32 | 4355 |
| 76 | 33 | 1590 | 1491 | 1252 | 1083 | 0913 | 0744 | 0575 | 0400 | 0236 | 0067 | 9800 | 9728 | 9559 | 9389 | 9220 | 9050 | 8881 | 151 | 33 | 4629 |
| 73 | 34 | 1862 | 1692 | 1523 | 1354 | 1184 | 1015 | 0846 | 0076 | 6507 | 0337 | 0168 | 9998 | 0829 | 9659 | 9490 | 9320 | 9150 | 156 | 34 | 4903 |
| 70 | 35 | 3 (2) 2133 | 1964 | 1704 | 1025 | 1455 | 1286 | 1116 | 0947 | 0777 | 0600 | 0430 | 0268 | 0090 | 9929 | 9759 | 9589 | 9420 | 160 | 35 | 3 5170 |
| 68 | 36 | 2405 | 2235 | 2066 | 1896 | 1726 | 1557 | 1387 | 1217 | 1048 | 0878 | 0708 | 0538 | 0360 | 0199 | 0029 | 9859 | 9689 | 164 | 36 | 0452 |
| 65 | 37 | 2676 | 2606 | 2337 | 2167 | 1997 | 1820 | 1650 | 1480 | 1318 | 1140 | 0976 | 0008 | 0638 | 0468 | 0298 | 0128 | 0958 | 169 | 37 | 5726 |
| 62 | 38 | 3 2946 | 2778 | 9608 | 2438 | 2268 | 2099 | 1920 | 1759 | 1589 | 1419 | 1248 | 1078 | 0908 | 0738 | 0568 | 0398 | 0228 | 173 | 38 | 6000 |
| 69 | 39 | 8219 | 3049 | 2879 | 9709 | 2539 | 2369 | 2199 | 9029 | 1859 | 1689 | 1519 | 1346 | 1176 | 1008 | 0837 | 0668 | 0497 | 178 | 39 | 6274 |
| 56 | 48 | 3 3491 | 3321 | 3151 | 2980 | 2810 | 2640 | 2470 | 2300 | 2129 | 1969 | 1709 | 1610 | 1448 | 1277 | 1107 | 0937 | 0766 | 183 | 40 | 3 6547 |
| 54 | 41 | 3762 | 3592 | 3422 | 3251 | 3081 | 2911 | 2740 | 2570 | 9400 | 2229 | 2059 | 1888 | 1718 | 1047 | 1370 | 1206 | 1035 | 187 | 41 | 6891 |
| 51 | 42 | 4034 | 3063 | 3693 | 3522 | 3352 | 3182 | 3011 | 2840 | 2670 | 2499 | 2329 | 2168 | 1987 | 1817 | 1640 | 1475 | 1304 | 192 | 49 | 7095 |
| 48 | 48 | 4305 | 4134 | 3964 | 3703 | 3023 | 3452 | 3282 | 3111 | 9940 | 2760 | 9599 | 2428 | 2257 | 2086 | 1915 | 1744 | 1073 | 196 | 48 | 7369 |
| 45 | 44 | 4576 | 4406 | 4235 | 4064 | 3894 | 3723 | 3552 | 3381 | 3210 | 3039 | 2869 | 2098 | 2527 | 2356 | 2185 | 2013 | 1843 | 201 | 44 | 7043 |
| 42 | 45 | 8 4848 | 4077 | 4586 | 4335 | 4164 | 3003 | 3822 | 3652 | 3481 | 3310 | 3139 | 2967 | 2796 | 2625 | 2454 | 2283 | 2112 | 205 | 45 | 3 7917 |
| 39 | 46 | 5119 | 4940 | 4777 | 4606 | 4435 | 4264 | 4003 | 3922 | 3751 | 3560 | 3408 | 3237 | 3060 | 2895 | 2723 | 2552 | 2301 | 210 | 46 | 8190 |
| 37 | 47 | 5308 | 5219 | 5046 | 4077 | 4706 | 4635 | 4303 | 4102 | 4021 | 3850 | 3078 | 3507 | 3336 | 3104 | 2093 | 2821 | 9650 | 210 | 47 | 8464 |
| 34 | 48 | 5661 | 5490 | 5319 | 5148 | 4976 | 4805 | 4634 | 4402 | 4201 | 4120 | 3948 | 3777 | 3605 | 3434 | 3902 | 3090 | 2919 | 219 | 48 | 0738 |
| 31 | 49 | 5933 | 5761 | 5590 | 5418 | 5247 | 5076 | 4904 | 4733 | 4501 | 4390 | 4218 | 4040 | 3875 | 3703 | 3531 | 3359 | 3188 | 224 | 49 | 9019 |
| 28 | 50 | 8 6204 | 0082 | 5801 | 5609 | 5518 | 5346 | 5174 | 5003 | 4831 | 4609 | 4408 | 4316 | 4144 | 3972 | 3800 | 3699 | 3457 | 228 | 50 | 3 9280 |
| 25 | 51 | 6475 | 6303 | 6132 | 5968 | 5788 | 5617 | 5445 | 5273 | 5101 | 4929 | 4757 | 4586 | 4414 | 4242 | 4070 | 3898 | 3726 | 233 | 51 | 9559 |
| 23 | 52 | 6746 | 6574 | 6402 | 6231 | 6060 | 5887 | 5715 | 5543 | 5371 | 5109 | 5027 | 4655 | 4683 | 4511 | 4339 | 4167 | 3995 | 237 | 52 | 9832 |
| 20 | 53 | 7017 | 6845 | 6673 | 6501 | 6329 | 6157 | 5985 | 5813 | 5641 | 5469 | 5207 | 5126 | 4909 | 4760 | 4600 | 4436 | 4263 | 242 | 53 | 4 0106 |
| 17 | 64 | 7288 | 7116 | 0044 | 6772 | 6600 | 6428 | 6256 | 6083 | 5911 | 5739 | 5506 | 5394 | 5222 | 5049 | 4877 | 4705 | 4532 | 247 | 54 | 0380 |
| 14 | 55 | 3 7559 | 7387 | 7215 | 7043 | 6870 | 6608 | 6526 | 6353 | 6181 | 6009 | 5836 | 5664 | 5401 | 5319 | 5146 | 4974 | 4801 | 251 | 56 | 4 0653 |
| 11 | 66 | 7630 | 7658 | 7485 | 7313 | 7141 | 6968 | 6796 | 6623 | 6451 | 6278 | 6106 | 5933 | 0761 | 5680 | 5415 | 5242 | 5070 | 256 | 56 | 8927 |
| 8 | 57 | 8101 | 7929 | 7756 | 7584 | 7411 | 7939 | 7066 | 6893 | 6721 | 6548 | 6375 | 6203 | 6030 | 5867 | 5684 | 5511 | 5330 | 260 | 57 | 1200 |
| 6 | 58 | 8372 | 8199 | 6027 | 7654 | 7681 | 7509 | 7336 | 7163 | 6990 | 6818 | 6645 | 6472 | 6299 | 6126 | 5053 | 5780 | 5607 | 265 | 58 | 1473 |
| 8 | 59 | 8643 | 8470 | 6297 | 0125 | 7952 | 7779 | 7606 | 7433 | 7260 | 7067 | 6914 | 6741 | 6568 | 6396 | 6222 | 6049 | 5876 | 260 | 59 | 1747 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 110° | | Argumento Auxiliar. 6' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 6' | 9' | 16' | 11' | 12' | 13' | 14' | 10' | 16' | Partes para segundos. | 110° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 176 | 6' | 4 (3) | 1848 | 1670 | 1503 | 1331 | 1108 | 6986 | 8813 | 8641 | 6468 | 6296 | 0123 | 2250 | 9778 | 2666 | 2432 | 2259 | 2687 | 274 | 0' | 7 4157 |
| 174 | 1 | | 2121 | 1219 | 1776 | 1603 | 1431 | 1258 | 1086 | 6913 | 0740 | 0507 | 0305 | 0222 | 0649 | 9076 | 2703 | 2536 | 0358 | 262 | 1 | 3882 |
| 171 | 2 | | 2394 | 2222 | 2042 | 1876 | 1763 | 1031 | 1358 | 1185 | 1012 | 0832 | 6667 | 0494 | 0321 | 0148 | 9975 | 9862 | 2628 | 266 | 2 | 3667 |
| 168 | 3 | | 2667 | 2495 | 2322 | 2140 | 1976 | 1803 | 1636 | 1457 | 1284 | 1111 | 0938 | 6766 | 0592 | 0410 | 0246 | 0073 | 2829 | 260 | 3 | 3332 |
| 165 | 4 | 4 | 2940 | 2768 | 2625 | 2422 | 2242 | 2076 | 1902 | 1720 | 1056 | 1383 | 1210 | 1637 | 0864 | 0600 | 6017 | 0344 | 0170 | 256 | 4 | 3057 |
| 162 | 5 | 4 | 3214 | 3640 | 2867 | 2694 | 2521 | 2348 | 2175 | 2002 | 1828 | 1650 | 1482 | 1308 | 1135 | 6262 | 0788 | 0615 | 0141 | 261 | 6 | 7 2782 |
| 169 | 6 | | 3487 | 3313 | 3140 | 2967 | 2794 | 2626 | 2447 | 2274 | 2100 | 1927 | 1753 | 1580 | 1466 | 1233 | 1050 | 0886 | 6712 | 247 | 6 | 2567 |
| 156 | 7 | | 3760 | 3386 | 3413 | 3230 | 3060 | 2823 | 2719 | 2546 | 2372 | 2199 | 2625 | 1851 | 1678 | 1504 | 1330 | 1167 | 6983 | 242 | 7 | 2232 |
| 153 | 8 | | 4033 | 3859 | 3686 | 3512 | 3332 | 3165 | 2091 | 2818 | 2644 | 2470 | 2227 | 2123 | 1249 | 1770 | 1601 | 1428 | 1951 | 237 | 8 | 1208 |
| 150 | 9 | | 4306 | 4132 | 3958 | 3780 | 3611 | 3437 | 3264 | 3090 | 2916 | 2742 | 2568 | 2324 | 2226 | 2646 | 1872 | 1628 | 1524 | 233 | 9 | 1683 |
| 147 | 18 | 4 | 4578 | 4405 | 1231 | 4657 | 3883 | 3710 | 3536 | 3362 | 3188 | 3014 | 2840 | 2666 | 2492 | 2318 | 2143 | 1969 | 1725 | 228 | 10 | 7 1468 |
| 144 | 11 | | 4851 | 1678 | 4504 | 1330 | 1156 | 3982 | 3808 | 3634 | 3460 | 3285 | 3111 | 2237 | 2763 | 2089 | 2414 | 2240 | 2666 | 224 | 11 | 1133 |
| 141 | 12 | | 6124 | 4956 | 4776 | 4602 | 4428 | 4254 | 1080 | 3906 | 3731 | 3557 | 3383 | 3208 | 3634 | 2860 | 2685 | 2511 | 2336 | 212 | 12 | 0852 |
| 138 | 13 | | 6397 | 5223 | 6042 | 1875 | 4700 | 1526 | 1352 | 4177 | 4003 | 3822 | 3654 | 3480 | 3305 | 3131 | 2956 | 2782 | 2607 | 215 | 13 | 6584 |
| 135 | 14 | | 5670 | 5496 | 0321 | 5147 | 4973 | 1798 | 1624 | 4449 | 4275 | 4160 | 3926 | 3751 | 3577 | 3402 | 3227 | 3652 | 2878 | 216 | 14 | 6309 |
| 132 | 16 | 4 | 5243 | 5768 | 6594 | 5419 | 5245 | 5070 | 1896 | 4721 | 4546 | 4372 | 4197 | 4022 | 3818 | 3673 | 3498 | 3323 | 3148 | 200 | 15 | 7 8035 |
| 129 | 16 | | 6215 | 6041 | 5866 | 5692 | 5517 | 5342 | 5168 | 4993 | 4818 | 1613 | 1468 | 4204 | 4112 | 3944 | 3762 | 3594 | 3419 | 261 | 16 | 6 9768 |
| 126 | 17 | | 6488 | 6313 | 6139 | 5964 | 5789 | 5614 | 5139 | 5265 | 5090 | 4215 | 4740 | 1565 | 4390 | 4215 | 4040 | 3865 | 3660 | 196 | 17 | 2466 |
| 124 | 18 | | 6701 | 6586 | 6411 | 6236 | 6061 | 5886 | 5711 | 5530 | 5301 | 5186 | 5011 | 4836 | 4661 | 4486 | 4310 | 4135 | 3260 | 192 | 16 | 9211 |
| 121 | 19 | | 7031 | 6859 | 6684 | 6509 | 6333 | 6158 | 5983 | 5808 | 5033 | 5458 | 5282 | 6167 | 1932 | 4707 | 4501 | 4406 | 4236 | 187 | 19 | 8937 |
| 118 | 28 | 4 | 7306 | 7131 | 6256 | 6781 | 6666 | 6430 | 0956 | 6080 | 5904 | 5729 | 5554 | 5378 | 5203 | 5027 | 4852 | 4676 | 4501 | 183 | 98 | 6 8669 |
| 115 | 21 | | 7579 | 7461 | 7229 | 7653 | 0078 | 0702 | 6527 | 6351 | 6176 | 6600 | 5825 | 5619 | 5474 | 5298 | 5123 | 4947 | 4771 | 178 | 21 | 6388 |
| 112 | 22 | | 7851 | 7076 | 7501 | 7325 | 7150 | 6974 | 6799 | 6623 | 6447 | 6272 | 6096 | 5920 | 5745 | 5569 | 0393 | 5217 | 5042 | 173 | 22 | 6113 |
| 169 | 23 | | 8124 | 7918 | 7773 | 7597 | 7422 | 7246 | 7076 | 6895 | 6719 | 6513 | 0367 | 0191 | 6016 | 5846 | 5664 | 5488 | 6312 | 169 | 23 | 7832 |
| 166 | 24 | | 8396 | 8221 | 8645 | 7069 | 7694 | 7518 | 7349 | 7166 | 0990 | 0811 | 6638 | 6462 | 6286 | 6116 | 5934 | 0758 | 5682 | 164 | 24 | 7565 |
| 183 | 25 | 4 | 8669 | 8493 | 8317 | 8141 | 7966 | 7790 | 7614 | 7438 | 7962 | 7086 | 6010 | 6733 | 6557 | 6381 | 6260 | 6020 | 6853 | 166 | 25 | 6 7290 |
| 100 | 26 | | 8911 | 8765 | 8689 | 8414 | 8238 | 8061 | 7885 | 7709 | 7033 | 7357 | 7181 | 7004 | 6828 | 6652 | 6476 | 6290 | 6123 | 155 | 96 | 7016 |
| 97 | 27 | | 9214 | 9038 | 8802 | 8686 | 8509 | 8333 | 8157 | 7281 | 7804 | 7628 | 7452 | 7270 | 7029 | 6023 | 6746 | 6576 | 6393 | 151 | 27 | 6742 |
| 84 | 28 | | 9486 | 9310 | 2134 | 8958 | 8781 | 8605 | 8129 | 8252 | 8076 | 7899 | 7723 | 7546 | 7370 | 7193 | 7617 | 6810 | 6663 | 146 | 28 | 6467 |
| 91 | 99 | | 9759 | 9582 | 2180 | 9230 | 9053 | 8877 | 8700 | 0524 | 8347 | 0170 | 7994 | 7817 | 7640 | 7461 | 7287 | 7110 | 6933 | 149 | 29 | 6193 |
| 88 | 30 | 6 (4) | 0831 | 9855 | 9678 | 9561 | 9325 | 9148 | 8972 | 8725 | 8018 | 8441 | 8265 | 8088 | 7911 | 7734 | 7567 | 7381 | 7264 | 137 | 30 | 6 5919 |
| 85 | 31 | | 6303 | 0127 | 9950 | 9773 | 9597 | 9420 | 9243 | 9066 | 8889 | 8713 | 8536 | 0369 | 8182 | 8600 | 7828 | 7651 | 7474 | 132 | 31 | 5646 |
| 82 | 39 | | 6576 | 0390 | 0222 | 0645 | 9868 | 9691 | 9010 | 9330 | 9161 | 0984 | 8807 | 8630 | 8452 | 8270 | 8098 | 7921 | 7744 | 128 | 39 | 6371 |
| 79 | 33 | | 0848 | 0671 | 0494 | 0317 | 0140 | 9963 | 9786 | 9609 | 9432 | 9255 | 9878 | 8960 | 6723 | 6546 | 0369 | 8121 | 8614 | 193 | 33 | 5097 |
| 76 | 34 | | 1120 | 0943 | 0766 | 0589 | 0412 | 0235 | 0057 | 9880 | 9703 | 9520 | 9348 | 0171 | 8994 | 8816 | 8632 | 8461 | 8284 | 119 | 34 | 4822 |
| 74 | 35 | 6 (4) | 1392 | 1215 | 1038 | 0861 | 0683 | 0500 | 0320 | 0151 | 9974 | 9797 | 9612 | 9442 | 9264 | 9007 | 0909 | 8731 | 8554 | 114 | 35 | 6 4548 |
| 71 | 36 | | 1664 | 1487 | 1310 | 1132 | 0055 | 0778 | 0600 | 0423 | 0246 | 0068 | 9890 | 9712 | 2035 | 9357 | 9179 | 9609 | 8824 | 110 | 36 | 4274 |
| 68 | 37 | | 1937 | 1759 | 1582 | 1464 | 1927 | 1649 | 0871 | 0694 | 8516 | 0338 | 8161 | 9983 | 9865 | 9627 | 9450 | 9972 | 9094 | 185 | 37 | 4068 |
| 65 | 36 | | 2209 | 2831 | 1853 | 1676 | 1490 | 1326 | 1143 | 0965 | 0787 | 6609 | 8431 | 0254 | 6076 | 2896 | 9726 | 9049 | 2364 | 160 | 36 | 3726 |
| 62 | 39 | | 2481 | 2363 | 2125 | 1947 | 1770 | 1592 | 1414 | 1236 | 1058 | 6880 | 8762 | 6624 | 6346 | 0168 | 9990 | 2819 | 9634 | 96 | 39 | 3403 |
| 59 | 40 | 0 (4) | 9753 | 2575 | 2397 | 2218 | 2041 | 1863 | 1685 | 1067 | 1329 | 1151 | 8873 | 6795 | 6617 | 8438 | 0260 | 6082 | 9963 | 21 | 46 | 6 3179 |
| 66 | 41 | 6 | 3025 | 2847 | 2669 | 2491 | 2313 | 2134 | 1956 | 1776 | 1600 | 1422 | 1243 | 1665 | 0887 | 0769 | 0530 | 0359 | 0173 | 87 | 41 | 2905 |
| 53 | 49 | | 3297 | 3119 | 2941 | 2762 | 2584 | 2406 | 2227 | 2049 | 1871 | 1692 | 1514 | 1336 | 1107 | 0972 | 0800 | 8622 | 8443 | 82 | 49 | 2631 |
| 60 | 43 | | 3569 | 3321 | 3212 | 3034 | 2856 | 2677 | 2499 | 2320 | 2142 | 1963 | 1765 | 1666 | 1428 | 1242 | 1670 | 0892 | 0713 | 78 | 43 | 9367 |
| 47 | 44 | | 3841 | 3662 | 3484 | 3305 | 3197 | 2948 | 2770 | 2591 | 9413 | 2234 | 2605 | 1677 | 1688 | 1619 | 1340 | 1161 | 8983 | 73 | 44 | 2083 |
| 44 | 46 | 6 | 4113 | 3934 | 3765 | 3577 | 3398 | 3220 | 3041 | 2862 | 9683 | 2505 | 2396 | 2147 | 1968 | 1769 | 1610 | 1431 | 1252 | 68 | 45 | 6 1810 |
| 41 | 46 | | 4384 | 4206 | 4097 | 3848 | 3676 | 3491 | 3312 | 3133 | 2954 | 9775 | 9506 | 2417 | 2938 | 2859 | 1600 | 1701 | 1592 | 64 | 46 | 1536 |
| 38 | 47 | | 4656 | 4477 | 4299 | 4120 | 3941 | 3762 | 3583 | 3404 | 3225 | 3046 | 2867 | 2688 | 2508 | 2329 | 2160 | 1971 | 1792 | 09 | 47 | 1262 |
| 35 | 46 | | 4220 | 4742 | 4570 | 4391 | 4212 | 4033 | 3654 | 3675 | 3496 | 3316 | 3137 | 2958 | 2779 | 2599 | 2420 | 2241 | 2861 | 56 | 48 | 0988 |
| 32 | 42 | | 6200 | 5021 | 4842 | 4663 | 4463 | 4304 | 4125 | 3946 | 3766 | 3587 | 3406 | 3926 | 3842 | 2862 | 2696 | 9610 | 2331 | 60 | 49 | 0716 |
| 28 | 50 | 6 | 6472 | 0292 | 5113 | 4934 | 4756 | 4676 | 4386 | 4216 | 4837 | 3857 | 3678 | 3498 | 3312 | 3139 | 2966 | 2780 | 2600 | 46 | 60 | 6 0141 |
| 26 | 51 | | 5743 | 0564 | 5385 | 5965 | 5096 | 4846 | 4607 | 4487 | 4367 | 4196 | 3248 | 3769 | 3569 | 3409 | 3222 | 3050 | 2870 | 41 | 51 | 6168 |
| 24 | 59 | | 6015 | 6030 | 5656 | 6476 | 5297 | 5117 | 4938 | 4758 | 4576 | 4398 | 4219 | 4832 | 3859 | 3679 | 3499 | 3319 | 3132 | 36 | 62 | 5 9824 |
| 21 | 53 | | 6207 | 6107 | 5927 | 5746 | 5560 | 5388 | 5268 | 5022 | 4842 | 4669 | 4489 | 4309 | 4129 | 3942 | 3769 | 3589 | 3409 | 39 | 63 | 9626 |
| 18 | 54 | | 6558 | 6379 | 6199 | 6012 | 5832 | 5659 | 5479 | 5292 | 5119 | 4232 | 4759 | 4572 | 4329 | 4212 | 4632 | 3858 | 3678 | 27 | 54 | 9347 |
| 15 | 55 | 6 | 6830 | 6650 | 6476 | 6296 | 6110 | 5930 | 6750 | 6570 | 6300 | 6210 | 5029 | 4849 | 4669 | 4489 | 4368 | 4128 | 3948 | 23 | 65 | 6 9673 |
| 12 | 56 | | 7101 | 0921 | 6741 | 6561 | 6381 | 6201 | 6021 | 0840 | 5660 | 6480 | 5300 | 5110 | 4239 | 4758 | 4578 | 4397 | 4217 | 18 | 66 | 8860 |
| 9 | 57 | | 7373 | 7123 | 7613 | 6039 | 6659 | 6479 | 6991 | 6111 | 5931 | 6760 | 5570 | 5369 | 6202 | 5698 | 4848 | 4667 | 4486 | 14 | 67 | 6527 |
| 6 | 56 | | 7645 | 7464 | 7284 | 7103 | 6923 | 6713 | 6562 | 6382 | 6201 | 6020 | 5840 | 5652 | 5179 | 5998 | 5117 | 4936 | 4756 | 2 | 58 | 8253 |
| 3 | 59 | | 7216 | 7730 | 7555 | 7376 | 7194 | 7613 | 6833 | 6652 | 6471 | 6291 | 6110 | 5829 | 5740 | 5568 | 5387 | 5206 | 5095 | 6 | 52 | 7980 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 110° | Argumento Auxiliar. | 17' | 18' | 19' | 90' | 91' | 92' | 93' | 94' | 25' | 96' | 97' | 28' | 99' | 30' | 31' | 32' | 33' | Partes para segundos. | 110° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 8' | 3 | 8914 | 8741 | 8568 | 8395 | 8992 | 8049 | 7876 | 7703 | 7530 | 7357 | 7184 | 7011 | 6838 | 6664 | 6491 | 6318 | 6145 | 0 | 0' | 4 2020 |
| 175 | 1 | | 9185 | 9012 | 8839 | 8065 | 8422 | 8319 | 8140 | 7973 | 7800 | 7027 | 7453 | 7288 | 7107 | 6933 | 6700 | 6587 | 6413 | 0 | 1 | 2293 |
| 172 | 9 | | 9455 | 9282 | 9109 | 8936 | 8763 | 8589 | 8416 | 8213 | 8070 | 7896 | 7723 | 7549 | 7376 | 7202 | 7829 | 6855 | 6682 | 9 | 9 | 2567 |
| 100 | 3 | | 9726 | 9553 | 9380 | 0200 | 9033 | 8860 | 8686 | 8513 | 8332 | 8166 | 7092 | 7819 | 7645 | 7471 | 7298 | 7124 | 0950 | 14 | 3 | 9848 |
| 166 | 4 | | 0997 | 9824 | 9650 | 9477 | 9303 | 0130 | 8956 | 8782 | 0600 | 8435 | 0262 | 8088 | 7914 | 7740 | 7567 | 7393 | 7219 | 18 | 4 | 3113 |
| 163 | 0 | 4 (3) | 0208 | 0094 | 9921 | 9747 | 9573 | 9400 | 9226 | 9052 | 8879 | 8785 | 8531 | 8357 | 8183 | 8009 | 7835 | 7061 | 7488 | 93 | 8 | 4 3387 |
| 180 | 6 | | 0530 | 0365 | 0121 | 0017 | 9843 | 0670 | 9490 | 0322 | 9148 | 0074 | 8000 | 0626 | 8452 | 8278 | 8101 | 7930 | 7756 | 27 | 6 | 3600 |
| 107 | 7 | | 0809 | 0635 | 8461 | 0288 | 0114 | 9940 | 9766 | 9592 | 9418 | 2244 | 9070 | 8896 | 8721 | 8547 | 8373 | 8199 | 8025 | 32 | 7 | 3933 |
| 154 | 8 | | 1888 | 0906 | 0732 | 0558 | 0381 | 0210 | 0036 | 9861 | 2087 | 9513 | 9339 | 2165 | 8990 | 8816 | 8642 | 8467 | 8293 | 36 | 8 | 4206 |
| 151 | 9 | | 1351 | 1176 | 1002 | 0828 | 0654 | 0480 | 0305 | 0131 | 9957 | 9782 | 9608 | 0434 | 9252 | 2085 | 8910 | 8736 | 8561 | 41 | 9 | 4479 |
| 140 | 10 | 4 (3) | 1621 | 1447 | 1272 | 1098 | 0924 | 0750 | 0575 | 0401 | 0226 | 0009 | 9877 | 9703 | 9528 | 9354 | 9179 | 9004 | 8830 | 45 | 10 | 4 4752 |
| 145 | 11 | | 1821 | 1717 | 1543 | 1308 | 1104 | 1812 | 0845 | 0070 | 8496 | 0321 | 0147 | 9972 | 9797 | 9622 | 9448 | 9273 | 9098 | 50 | 11 | 0025 |
| 142 | 19 | | 2162 | 1988 | 1813 | 1638 | 1464 | 1289 | 1115 | 0948 | 0765 | 0590 | 0416 | 0241 | 8066 | 9801 | 9716 | 9541 | 9366 | 54 | 19 | 5298 |
| 139 | 13 | | 9433 | 2258 | 2083 | 1209 | 1734 | 1559 | 1384 | 1209 | 1035 | 0860 | 0085 | 0518 | 0335 | 0160 | 9985 | 9810 | 9635 | 59 | 13 | 0571 |
| 130 | 14 | | 2703 | 2528 | 2353 | 9179 | 9004 | 1829 | 1654 | 1479 | 1304 | 1129 | 0954 | 0779 | 0604 | 0429 | 0253 | 0078 | 9903 | 61 | 14 | 5844 |
| 133 | 15 | 4 | 2973 | 2799 | 2024 | 2449 | 2274 | 2092 | 1923 | 1748 | 1573 | 1398 | 1223 | 1048 | 8872 | 0697 | 0522 | 0347 | 8171 | 66 | 15 | 4 6117 |
| 130 | 18 | | 3244 | 3069 | 2894 | 2719 | 2543 | 2368 | 2193 | 2018 | 1843 | 1667 | 1492 | 1317 | 1141 | 0960 | 0790 | 0615 | 0439 | 73 | 16 | 6320 |
| 127 | 17 | | 3514 | 3332 | 3164 | 2989 | 9813 | 2638 | 2403 | 2287 | 2112 | 1936 | 1761 | 1585 | 1410 | 1234 | 1852 | 0883 | 0708 | 77 | 17 | 6663 |
| 124 | 10 | | 3785 | 3002 | 3134 | 3258 | 3083 | 2908 | 2732 | 2557 | 2381 | 2206 | 2030 | 1854 | 1679 | 1503 | 1327 | 1151 | 0976 | 82 | 18 | 6936 |
| 121 | 19 | | 4055 | 3879 | 3704 | 3528 | 3353 | 3177 | 3082 | 2826 | 2650 | 2475 | 2290 | 2193 | 1917 | 1771 | 1590 | 1420 | 1244 | 86 | 10 | 7209 |
| 118 | 20 | 4 | 4325 | 4150 | 3974 | 3798 | 3623 | 3447 | 3271 | 3095 | 2920 | 2744 | 2568 | 2392 | 2216 | 2040 | 1864 | 1688 | 1512 | 91 | 20 | 4 7481 |
| 115 | 21 | | 4525 | 4420 | 4244 | 4868 | 3802 | 3716 | 3541 | 3365 | 3182 | 3013 | 2837 | 2661 | 2485 | 2308 | 2132 | 1956 | 1780 | 95 | 21 | 7754 |
| 112 | 29 | | 4806 | 4690 | 4514 | 4338 | 4102 | 3980 | 3810 | 3034 | 3458 | 3282 | 3180 | 2929 | 2753 | 2577 | 2401 | 2224 | 2048 | 100 | 22 | 8027 |
| 109 | 23 | | 5136 | 4960 | 4784 | 4608 | 4432 | 4250 | 4079 | 3903 | 3727 | 3551 | 3374 | 3198 | 3022 | 2845 | 2662 | 2493 | 2310 | 104 | 23 | 0299 |
| 106 | 24 | | 5406 | 5930 | 5054 | 4878 | 4701 | 4020 | 4349 | 4172 | 3996 | 3828 | 3643 | 3467 | 3290 | 3114 | 2937 | 2761 | 2584 | 109 | 24 | 8572 |
| 104 | 25 | 4 | 6676 | 5500 | 5324 | 5147 | 4971 | 4795 | 4618 | 1442 | 4205 | 4888 | 3912 | 3735 | 3559 | 3382 | 3205 | 3029 | 2852 | 114 | 25 | 4 8845 |
| 101 | 20 | | 8946 | 5770 | 5594 | 5417 | 5241 | 5064 | 4887 | 4711 | 4534 | 4357 | 4181 | 4004 | 3827 | 3658 | 3473 | 3297 | 3120 | 118 | 26 | 9117 |
| 98 | 27 | | 6217 | 6040 | 5003 | 5687 | 5510 | 5333 | 0157 | 4980 | 4803 | 4626 | 4449 | 4273 | 4096 | 3919 | 3741 | 3565 | 3388 | 123 | 97 | 9390 |
| 95 | 28 | | 6487 | 6310 | 6133 | 5956 | 5780 | 5603 | 5426 | 5249 | 5072 | 4805 | 4718 | 4541 | 4364 | 4187 | 4010 | 3833 | 3650 | 127 | 28 | 9062 |
| 92 | 29 | | 6757 | 6580 | 6403 | 6220 | 6040 | 5872 | 5695 | 5518 | 5341 | 5104 | 4987 | 4810 | 4632 | 4455 | 4278 | 4101 | 3923 | 132 | 29 | 9235 |
| 89 | 30 | 4 | 7027 | 0850 | 6673 | 6490 | 0318 | 6141 | 5961 | 5787 | 5018 | 5433 | 5255 | 5078 | 4901 | 4723 | 1546 | 4309 | 4191 | 136 | 30 | 0 0207 |
| 86 | 31 | | 7297 | 7119 | 6942 | 6705 | 6588 | 0411 | 0233 | 6050 | 5879 | 5701 | 5524 | 5347 | 5169 | 4992 | 4814 | 4037 | 4459 | 141 | 31 | 0480 |
| 83 | 32 | | 7567 | 7389 | 7212 | 7035 | 6857 | 0680 | 6503 | 6325 | 0148 | 5270 | 5793 | 5615 | 5437 | 5260 | 5082 | 4904 | 4727 | 145 | 32 | 0752 |
| 88 | 33 | | 7836 | 7659 | 7482 | 7304 | 7127 | 6942 | 6772 | 0504 | 0416 | 6239 | 6001 | 5884 | 5706 | 5528 | 5350 | 5172 | 4994 | 158 | 33 | 1025 |
| 77 | 34 | | 8106 | 7929 | 7701 | 7574 | 7396 | 7218 | 7041 | 0803 | 6685 | 6507 | 6330 | 6152 | 5974 | 5790 | 5618 | 5440 | 5262 | 154 | 31 | 1297 |
| 74 | 35 | 4 | 8376 | 8199 | 8021 | 7843 | 7665 | 7488 | 7310 | 7132 | 6951 | 6776 | 6528 | 6420 | 6242 | 6064 | 5886 | 5708 | 5530 | 159 | 35 | 5 1569 |
| 71 | 36 | | 8640 | 8468 | 8290 | 8112 | 7935 | 7757 | 7579 | 7401 | 7223 | 7045 | 6807 | 0688 | 6510 | 0332 | 6154 | 5276 | 5797 | 163 | 36 | 1841 |
| 68 | 37 | | 8916 | 8738 | 8560 | 8382 | 8204 | 8026 | 7848 | 7070 | 7491 | 7313 | 7135 | 0957 | 6778 | 6600 | 6422 | 0243 | 6065 | 168 | 37 | 9114 |
| 65 | 38 | | 9180 | 9007 | 8829 | 8001 | 8473 | 8295 | 8117 | 7938 | 7760 | 7582 | 7403 | 7225 | 7047 | 0868 | 0690 | 6511 | 0333 | 173 | 38 | 2386 |
| 62 | 39 | | 9455 | 9277 | 0092 | 8921 | 8742 | 8564 | 8380 | 8207 | 8029 | 7850 | 7672 | 7493 | 7318 | 7136 | 6057 | 6770 | 0600 | 177 | 39 | 2658 |
| 59 | 40 | 4 | 9725 | 9547 | 9368 | 9190 | 9011 | 8833 | 8054 | 8470 | 8207 | 8119 | 7948 | 7761 | 7583 | 7404 | 7225 | 7047 | 6808 | 182 | 40 | 8 2931 |
| 56 | 41 | | 9995 | 9816 | 9038 | 9459 | 9281 | 9102 | 8023 | 8745 | 8506 | 8387 | 0208 | 8030 | 7861 | 7679 | 7493 | 7314 | 7135 | 186 | 41 | 3203 |
| 03 | 42 | 8 (4) | 0204 | 0086 | 2907 | 9728 | 9558 | 0371 | 2192 | 9013 | 8834 | 8656 | 8477 | 8298 | 8119 | 7940 | 7761 | 7582 | 7403 | 191 | 49 | 3475 |
| 50 | 43 | | 0534 | 0355 | 0176 | 9998 | 2819 | 9640 | 9461 | 9282 | 9183 | 8224 | 8745 | 0566 | 8387 | 8208 | 8028 | 7849 | 7670 | 195 | 43 | 3747 |
| 47 | 44 | | 0804 | 0625 | 0446 | 0267 | 0088 | 2902 | 9730 | 9551 | 9371 | 9192 | 9013 | 8834 | 8655 | 8475 | 0296 | 8117 | 7937 | 900 | 44 | 4819 |
| 44 | 48 | 0 (4) | 1873 | 0894 | 0718 | 8536 | 0357 | 0178 | 9928 | 9819 | 0640 | 9461 | 9281 | 9102 | 8923 | 8743 | 8504 | 8381 | 8205 | 904 | 45 | 5 4291 |
| 41 | 40 | | 1313 | 1164 | 0984 | 8885 | 0620 | 0446 | 0267 | 0088 | 9908 | 9729 | 9549 | 9378 | 9190 | 9811 | 0831 | 8652 | 8472 | 209 | 46 | 4563 |
| 38 | 47 | | 1612 | 1433 | 1254 | 1074 | 0825 | 8715 | 0536 | 0356 | 0177 | 2997 | 9818 | 9638 | 2458 | 2279 | 9029 | 8919 | 8739 | 213 | 47 | 4835 |
| 35 | 48 | | 1882 | 1702 | 1523 | 1343 | 1164 | 0984 | 0804 | 0625 | 0445 | 0205 | 0080 | 9986 | 9720 | 9546 | 9300 | 9187 | 9007 | 218 | 48 | 0107 |
| 33 | 49 | | 2161 | 1972 | 1722 | 1612 | 1433 | 1253 | 1073 | 0893 | 0713 | 0534 | 0354 | 0174 | 2994 | 9814 | 9634 | 9454 | 9274 | 223 | 49 | 8379 |
| 30 | 50 | 0 (4) | 2421 | 2241 | 2001 | 1881 | 1701 | 1522 | 1342 | 1162 | 0082 | 0802 | 0622 | 0412 | 0202 | 0082 | 9901 | 9721 | 9511 | 927 | 50 | 5 0651 |
| 27 | 01 | | 2690 | 2510 | 2330 | 2150 | 1970 | 1720 | 1610 | 1430 | 1250 | 1070 | 8820 | 0710 | 8529 | 0349 | 0169 | 2989 | 9808 | 232 | 51 | 5923 |
| 94 | 02 | 5 | 2059 | 2779 | 2099 | 2410 | 2232 | 2059 | 1879 | 1699 | 1518 | 1338 | 1108 | 0977 | 8797 | 0017 | 0436 | 0250 | 0075 | 230 | 52 | 8194 |
| 91 | 03 | | 3229 | 3048 | 9868 | 2688 | 2508 | 2328 | 2147 | 1267 | 1787 | 1600 | 1420 | 1245 | 1065 | 0884 | 8704 | 0523 | 0343 | 241 | 53 | 6406 |
| 18 | 54 | | 3400 | 3310 | 3137 | 2957 | 2777 | 9596 | 2410 | 2930 | 2055 | 1874 | 1624 | 1513 | 1332 | 1152 | 0971 | 0790 | 0618 | 245 | 04 | 8738 |
| 10 | 55 | 5 | 3767 | 3087 | 3406 | 3226 | 3045 | 2865 | 2684 | 2504 | 2323 | 2142 | 1962 | 1781 | 1600 | 1419 | 1238 | 1058 | 0877 | 958 | 55 | 5 7018 |
| 12 | 56 | | 4036 | 3856 | 3075 | 3495 | 3314 | 3133 | 2953 | 2772 | 2591 | 2410 | 2229 | 2049 | 1860 | 1687 | 1506 | 1325 | 1144 | 254 | 50 | 7281 |
| 9 | 07 | | 4386 | 4125 | 3944 | 3763 | 3583 | 3402 | 3221 | 3040 | 2859 | 2078 | 2497 | 2316 | 2135 | 1954 | 1773 | 1592 | 1411 | 209 | 57 | 7553 |
| 6 | 58 | | 4575 | 4394 | 4213 | 4032 | 3851 | 3070 | 3409 | 3388 | 3127 | 2946 | 2705 | 2584 | 2403 | 2222 | 2040 | 1859 | 1678 | 203 | 58 | 7825 |
| 3 | 09 | | 4044 | 4663 | 4482 | 4301 | 4120 | 3939 | 3758 | 3070 | 3395 | 3214 | 3033 | 2802 | 2678 | 2489 | 2308 | 2126 | 1945 | 268 | 52 | 8096 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | III° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 16' | 11' | 16' | 13' | 14' | 16' | 16' | Partes para segundos. | III° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | 0' | 5 8187 | 6007 | 7826 | 7646 | 7465 | 7264 | 7163 | 6623 | 6742 | 6561 | 6386 | 6129 | 6616 | 5837 | 5656 | 5475 | 5624 | 676 | 0' | 5 7767 |
| 182 | 1 | 8462 | 8978 | 8027 | 7217 | 7736 | 7565 | 7374 | 7163 | 7012 | 6831 | 6656 | 6462 | 6200 | 6167 | 5925 | 5745 | 5563 | 650 | 1 | 7433 |
| 179 | 6 | 8730 | 8546 | 8368 | 8188 | 8007 | 7826 | 7646 | 7463 | 7202 | 7101 | 6220 | 6732 | 6530 | 6376 | 6125 | 6014 | 5833 | 263 | 2 | 7160 |
| 176 | 3 | 6002 | 8821 | 8640 | 8458 | 8277 | 8096 | 7216 | 7734 | 7853 | 7371 | 7190 | 7002 | 5827 | 6646 | 6465 | 6283 | 6102 | 252 | 3 | 6667 |
| 173 | 4 | 6973 | 9099 | 8911 | 8729 | 8548 | 8367 | 8106 | 8004 | 7023 | 7641 | 7460 | 7276 | 7097 | 6916 | 6734 | 6552 | 5371 | 264 | 4 | 6613 |
| 176 | 5 | 5 6544 | 9363 | 9182 | 9000 | 8816 | 8637 | 8456 | 8275 | 8063 | 7211 | 7730 | 7540 | 7367 | 7185 | 7003 | 6622 | 6640 | 256 | 6 | 6 6340 |
| 167 | 6 | 0815 | 9634 | 9453 | 9971 | 9090 | 8608 | 8726 | 8545 | 8363 | 6162 | 6060 | 7810 | 7636 | 7455 | 7273 | 7091 | 6209 | 646 | 6 | 6067 |
| 163 | 7 | 6 (5) 0087 | 6905 | 9724 | 9542 | 9360 | 9176 | 8297 | 8015 | 8533 | 6452 | 6270 | 8088 | 7266 | 7724 | 7542 | 7360 | 7178 | 641 | 7 | 5724 |
| 160 | 8 | 0358 | 0176 | 9994 | 6813 | 9631 | 6449 | 6267 | 9685 | 8603 | 8722 | 8540 | 0356 | 8175 | 7693 | 7011 | 7629 | 7447 | 236 | 8 | 5521 |
| 157 | 9 | 0620 | 0447 | 0265 | 0083 | 0602 | 6720 | 6538 | 6356 | 9174 | 8961 | 0800 | 8627 | 8445 | 8263 | 0081 | 7098 | 7716 | 636 | 6 | 6248 |
| 151 | 10 | 6 (5) 0900 | 0718 | 0536 | 0351 | 0172 | 9960 | 9868 | 9626 | 6444 | 9261 | 2070 | 8867 | 0715 | 0632 | 0350 | 8167 | 7905 | 227 | 10 | 5 4973 |
| 151 | 11 | 1171 | 0986 | 0807 | 0625 | 0443 | 0960 | 0078 | 9896 | 9714 | 6531 | 9349 | 9166 | 8984 | 8802 | 0619 | 6437 | 0254 | 223 | 11 | 4762 |
| 148 | 12 | 1442 | 1260 | 1078 | 0896 | 0713 | 0531 | 0348 | 0166 | 9984 | 9001 | 2610 | 9136 | 0254 | 6071 | 8888 | 8706 | 8523 | 618 | 12 | 4129 |
| 145 | 13 | 1713 | 1531 | 1349 | 1166 | 0984 | 0801 | 0019 | 0436 | 0954 | 0071 | 9880 | 6706 | 2623 | 0340 | 9157 | 8975 | 8702 | 213 | 13 | 4156 |
| 142 | 14 | 1984 | 1802 | 1619 | 1437 | 1254 | 1072 | 0889 | 0766 | 0523 | 0341 | 0158 | 9975 | 2792 | 2606 | 9426 | 9244 | 9061 | 209 | 14 | 3883 |
| 139 | 15 | 6 (5) 2255 | 2073 | 1890 | 1767 | 1525 | 1342 | 1152 | 0276 | 6793 | 0610 | 0428 | 0245 | 0062 | 6879 | 2696 | 9512 | 6320 | 664 | 15 | 6 3610 |
| 136 | 16 | 2526 | 2344 | 9161 | 1978 | 1795 | 1612 | 1429 | 1246 | 1063 | 0880 | 0697 | 0514 | 0331 | 0140 | 9966 | 9701 | 9528 | 600 | 16 | 3337 |
| 133 | 17 | 2797 | 2614 | 2431 | 2948 | 2065 | 1882 | 1699 | 1516 | 1333 | 1150 | 6967 | 6763 | 0600 | 0417 | 0234 | 0050 | 9867 | 165 | 17 | 3664 |
| 130 | 16 | 6 3068 | 2885 | 2702 | 2519 | 2336 | 2163 | 1969 | 1786 | 1603 | 1490 | 1235 | 1053 | 0862 | 0686 | 0503 | 0319 | 0136 | 121 | 18 | 6762 |
| 166 | 19 | 3339 | 3156 | 2673 | 2709 | 9606 | 2423 | 2239 | 2656 | 1873 | 1689 | 1606 | 1322 | 1139 | 0955 | 0772 | 0588 | 0404 | 186 | 19 | 2512 |
| 123 | 66 | 6 3610 | 3427 | 3243 | 3660 | 2876 | 2693 | 2509 | 2326 | 2142 | 1959 | 1775 | 1592 | 1408 | 1224 | 1040 | 0857 | 6573 | 166 | 20 | 6 6246 |
| 120 | 21 | 3881 | 3697 | 3514 | 3330 | 3147 | 2963 | 9779 | 2596 | 2412 | 2298 | 2045 | 1861 | 1677 | 1493 | 1309 | 1125 | 0942 | 177 | 21 | 1673 |
| 117 | 22 | 4151 | 3668 | 3764 | 3601 | 3417 | 3233 | 3046 | 2866 | 2682 | 2498 | 2314 | 2130 | 1946 | 1766 | 1578 | 1364 | 1210 | 173 | 22 | 1701 |
| 114 | 23 | 4422 | 4238 | 4056 | 3871 | 3607 | 3503 | 3316 | 3135 | 9951 | 2767 | 2583 | 2392 | 2215 | 2031 | 1847 | 1563 | 1479 | 168 | 23 | 1428 |
| 111 | 24 | 4663 | 4609 | 4325 | 4141 | 3957 | 3773 | 3589 | 3405 | 3221 | 3037 | 2853 | 2662 | 2464 | 2300 | 2116 | 1931 | 1747 | 163 | 24 | 1155 |
| 108 | 25 | 6 4964 | 4780 | 4596 | 4411 | 4227 | 4043 | 3859 | 3675 | 3491 | 3306 | 3122 | 2938 | 2753 | 2569 | 2385 | 2900 | 2616 | 169 | 25 | 6 0883 |
| 105 | 26 | 5234 | 5050 | 4866 | 4682 | 4497 | 4313 | 4129 | 3245 | 3760 | 3576 | 3391 | 3207 | 3022 | 2838 | 2653 | 2466 | 2284 | 154 | 66 | 0610 |
| 102 | 67 | 6505 | 5321 | 5136 | 4952 | 4768 | 4583 | 4329 | 4214 | 4030 | 3845 | 3661 | 3476 | 3261 | 3167 | 2922 | 2737 | 2553 | 150 | 27 | 6338 |
| 96 | 28 | 6775 | 5591 | 5407 | 5222 | 5038 | 4853 | 4668 | 4484 | 4290 | 4115 | 3030 | 3745 | 3560 | 3376 | 3121 | 3006 | 2891 | 145 | 28 | 0065 |
| 96 | 66 | 6046 | 5861 | 5677 | 5492 | 5308 | 5123 | 4938 | 4753 | 4569 | 4384 | 4196 | 4014 | 3896 | 3644 | 3459 | 3274 | 3089 | 141 | 66 | 4 9793 |
| 93 | 30 | 6 6317 | 6132 | 5647 | 5762 | 5578 | 5363 | 6208 | 5093 | 1830 | 4653 | 4468 | 4283 | 4098 | 3913 | 3728 | 3543 | 3358 | 136 | 30 | 4 9520 |
| 66 | 31 | 6587 | 6402 | 6217 | 6032 | 5848 | 5663 | 5478 | 5293 | 5108 | 4992 | 4737 | 4552 | 4367 | 4182 | 3997 | 3011 | 3626 | 132 | 31 | 9248 |
| 86 | 32 | 6858 | 6573 | 6488 | 6303 | 6117 | 5932 | 5747 | 5562 | 5377 | 5199 | 5006 | 4821 | 4636 | 4450 | 4265 | 4080 | 3094 | 127 | 32 | 8975 |
| 63 | 33 | 7128 | 6643 | 6758 | 6573 | 6387 | 6202 | 6017 | 5832 | 5646 | 5161 | 5275 | 5090 | 4905 | 4719 | 4534 | 4348 | 4162 | 123 | 33 | 8703 |
| 80 | 34 | 7328 | 7213 | 7028 | 6843 | 6667 | 6472 | 6286 | 6101 | 5916 | 5730 | 5545 | 5359 | 5173 | 4988 | 4809 | 4615 | 4431 | 118 | 34 | 8431 |
| 77 | 35 | 6 7666 | 7463 | 7298 | 7119 | 6927 | 6742 | 6556 | 6370 | 6185 | 5696 | 5814 | 5628 | 5412 | 5256 | 5071 | 4885 | 4699 | 114 | 35 | 4 8159 |
| 74 | 36 | 7639 | 7754 | 7568 | 7389 | 7197 | 7011 | 6825 | 6640 | 6454 | 6268 | 6883 | 5897 | 5711 | 5525 | 5339 | 5153 | 4067 | 109 | 36 | 7886 |
| 71 | 37 | 8265 | 8021 | 7838 | 7652 | 7467 | 7281 | 7065 | 6906 | 6723 | 6537 | 6351 | 6166 | 5079 | 5793 | 5607 | 5421 | 5235 | 104 | 37 | 7814 |
| 68 | 38 | 6466 | 8264 | 8108 | 7622 | 7736 | 7550 | 7364 | 7176 | 6992 | 6806 | 6620 | 6434 | 5248 | 6062 | 6876 | 6660 | 5503 | 100 | 38 | 7342 |
| 65 | 36 | 6750 | 8564 | 8378 | 6192 | 8666 | 7620 | 7634 | 7448 | 7262 | 7875 | 6866 | 6703 | 6517 | 6336 | 6144 | 5958 | 5771 | 65 | 39 | 7066 |
| 62 | 46 | 6 9020 | 8834 | 8648 | 8462 | 8276 | 8090 | 7903 | 7717 | 7531 | 7344 | 7158 | 6972 | 6786 | 6596 | 6412 | 6226 | 6039 | 91 | 40 | 4 6797 |
| 69 | 41 | 6990 | 6164 | 0910 | 8739 | 8545 | 8356 | 8173 | 7986 | 7800 | 7613 | 7427 | 7241 | 7654 | 6867 | 5681 | 6494 | 6307 | 86 | 41 | 6525 |
| 66 | 42 | 9560 | 9374 | 9188 | 9601 | 8015 | 8620 | 8442 | 8655 | 8069 | 7882 | 7626 | 7510 | 7322 | 7136 | 6949 | 6762 | 6578 | 82 | 42 | 6253 |
| 62 | 43 | 9631 | 6644 | 9458 | 9271 | 2085 | 8898 | 8711 | 8525 | 8338 | 6151 | 7965 | 7770 | 7591 | 7404 | 7217 | 7630 | 6843 | 77 | 43 | 5981 |
| 49 | 44 | 7 (6) 0161 | 6214 | 9727 | 9541 | 9354 | 9167 | 8680 | 8794 | 8607 | 6420 | 6233 | 6046 | 7850 | 7672 | 7465 | 7298 | 7111 | 73 | 44 | 6709 |
| 46 | 45 | 7 (6) 0371 | 6184 | 9997 | 9610 | 9624 | 6437 | 9250 | 9063 | 8676 | 8689 | 8502 | 6316 | 8128 | 7941 | 7754 | 7566 | 7372 | 68 | 45 | 4 5437 |
| 43 | 46 | 0641 | 6454 | 0267 | 0000 | 9893 | 5706 | 6519 | 0332 | 9145 | 0958 | 8771 | 6583 | 0395 | 0902 | 8022 | 7834 | 7647 | 64 | 46 | 6165 |
| 40 | 47 | 0211 | 0724 | 0537 | 0350 | 0163 | 9975 | 9788 | 9601 | 9414 | 9226 | 9039 | 8852 | 0665 | 8177 | 8290 | 8102 | 7215 | 89 | 47 | 4863 |
| 37 | 46 | 1181 | 0694 | 0806 | 0616 | 0432 | 0645 | 0657 | 9670 | 9683 | 6495 | 9300 | 6120 | 8233 | 8745 | 8558 | 8370 | 8169 | 64 | 46 | 4691 |
| 34 | 49 | 1451 | 1263 | 1676 | 8886 | 0701 | 0514 | 6327 | 0139 | 9951 | 9764 | 9677 | 9380 | 9201 | 0013 | 8826 | 8638 | 8450 | 60 | 46 | 4342 |
| 31 | 86 | 7 (6) 1721 | 1533 | 1348 | 1158 | 0971 | 0783 | 6596 | 0408 | 0296 | 0633 | 6845 | 9657 | 9466 | 9282 | 6094 | 8906 | 8716 | 45 | 50 | 4 4077 |
| 26 | 61 | 1696 | 1803 | 1616 | 1428 | 1240 | 1652 | 0865 | 6677 | 0482 | 0301 | 0113 | 9926 | 9738 | 2550 | 9369 | 6174 | 0966 | 41 | 81 | 3666 |
| 65 | 52 | 6260 | 2073 | 1885 | 1627 | 1509 | 1321 | 1134 | 0646 | 0758 | 6576 | 0382 | 8164 | 0006 | 9818 | 9630 | 9442 | 9253 | 36 | 62 | 3534 |
| 62 | 63 | 2530 | 2342 | 2184 | 1967 | 1776 | 1591 | 1403 | 1215 | 1627 | 0838 | 0636 | 0462 | 0274 | 0066 | 2698 | 9769 | 9521 | 32 | 83 | 3262 |
| 16 | 54 | 2806 | 2612 | 2424 | 2236 | 2648 | 1866 | 1672 | 1483 | 1295 | 1107 | 0616 | 0731 | 0549 | 0354 | 0165 | 9977 | 9786 | 27 | 54 | 2990 |
| 15 | 56 | 7 3070 | 2881 | 2623 | 2505 | 2317 | 2129 | 1941 | 1752 | 1564 | 1376 | 1167 | 6696 | 6810 | 0622 | 0433 | 0945 | 0656 | 63 | 86 | 4 6710 |
| 12 | 86 | 3332 | 3161 | 2963 | 2775 | 2586 | 2368 | 2206 | 2621 | 1832 | 1644 | 1456 | 1267 | 1078 | 0890 | 0701 | 6512 | 0324 | 18 | 66 | 6447 |
| 9 | 67 | 3606 | 3421 | 3232 | 3044 | 2856 | 2667 | 2478 | 2290 | 2161 | 1912 | 1724 | 1535 | 1346 | 1158 | 0666 | 6780 | 0591 | 14 | 67 | 2176 |
| 6 | 58 | 3879 | 3660 | 3502 | 3313 | 3124 | 2936 | 2747 | 2558 | 2370 | 2181 | 1992 | 1863 | 1614 | 1425 | 1237 | 1040 | 0859 | 2 | 58 | 1204 |
| 3 | 66 | 4148 | 3960 | 3771 | 3582 | 3363 | 3205 | 3016 | 2627 | 2638 | 2449 | 2260 | 2071 | 1882 | 1663 | 1604 | 1315 | 1126 | 5 | 39 | 1632 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.** | **Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | III ° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | III ° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 186 | 6' | 5 5113 | 4939 | 4751 | 4570 | 4388 | 1907 | 4026 | 3845 | 3663 | 3482 | 3301 | 3119 | 2938 | 2756 | 2575 | 2393 | 2212 | 6 | 0' | 5 8368 |
| 162 | 1 | 5382 | 5901 | 5020 | 4838 | 4657 | 4476 | 4294 | 4113 | 3931 | 3750 | 3568 | 3387 | 3205 | 3024 | 2849 | 2660 | 9479 | 5 | 1 | 8640 |
| 172 | 2 | 5651 | 5470 | 5988 | 5107 | 4925 | 4744 | 4562 | 1381 | 4199 | 4018 | 3835 | 3654 | 3473 | 3291 | 3109 | 2927 | 9745 | 9 | 2 | 6911 |
| 176 | 3 | 5920 | 5739 | 5557 | 5376 | 5194 | 5019 | 4831 | 4649 | 4467 | 1285 | 4104 | 3922 | 3740 | 3558 | 3376 | 3194 | 3012 | 14 | 3 | 9183 |
| 173 | 4 | 6189 | 6008 | 5826 | 5641 | 5462 | 5281 | 5099 | 4917 | 4735 | 4553 | 4371 | 4189 | 4007 | 3895 | 3643 | 3161 | 3979 | 18 | 4 | 2454 |
| 170 | 5 | 5 6458 | 6976 | 6095 | 5913 | 5731 | 5519 | 5357 | 5185 | 5003 | 4891 | 4639 | 4157 | 4975 | 4092 | 3910 | 3798 | 3546 | 93 | 5 | 5 9795 |
| 167 | 6 | 8727 | 6545 | 6363 | 6181 | 5999 | 5817 | 5635 | 5453 | 5971 | 5089 | 4906 | 4724 | 4542 | 4360 | 4177 | 3995 | 3812 | 27 | 5 | 9297 |
| 154 | 7 | 6996 | 6814 | 6639 | 6450 | 6268 | 6085 | 5903 | 5791 | 5539 | 5356 | 5174 | 4992 | 4809 | 4627 | 1444 | 1962 | 4079 | 32 | 7 | 6 0268 |
| 151 | 8 | 7265 | 7083 | 6900 | 6718 | 6536 | 6354 | 6171 | 5989 | 5806 | 5624 | 5441 | 5259 | 5076 | 4894 | 4711 | 4529 | 4316 | 36 | 8 | 0540 |
| 158 | 9 | 7534 | 7351 | 7169 | 6987 | 6801 | 6622 | 6439 | 6257 | 6074 | 5891 | 5709 | 5596 | 5344 | 5161 | 4978 | 4795 | 4612 | 41 | 9 | 0811 |
| 155 | 10 | 5 7803 | 7690 | 7438 | 7255 | 7072 | 6890 | 6707 | 6525 | 6342 | 6159 | 5976 | 5794 | 5611 | 5128 | 5245 | 5062 | 4879 | 45 | 10 | 6 1082 |
| 151 | 11 | 8071 | 7889 | 7706 | 7523 | 7341 | 7158 | 6975 | 6792 | 6610 | 6427 | 6944 | 6061 | 5878 | 5695 | 5512 | 5329 | 5146 | 50 | 11 | 1353 |
| 148 | 12 | 8340 | 8157 | 7975 | 7799 | 7609 | 7496 | 7243 | 7060 | 6877 | 6694 | 6511 | 6328 | 6145 | 5962 | 5779 | 5596 | 5412 | 54 | 12 | 1695 |
| 145 | 13 | 8609 | 8496 | 8243 | 8060 | 7877 | 7694 | 7511 | 7328 | 7145 | 6962 | 6779 | 6595 | 6412 | 6929 | 6046 | 5862 | 5679 | 59 | 13 | 1896 |
| 142 | 14 | 8878 | 8695 | 8511 | 8328 | 8145 | 7969 | 7779 | 7596 | 7419 | 7929 | 7046 | 6862 | 6679 | 6496 | 6319 | 6199 | 5915 | 63 | 14 | 2167 |
| 132 | 15 | 6 9146 | 8963 | 8780 | 8597 | 8413 | 8930 | 8047 | 7863 | 7680 | 7497 | 7313 | 7130 | 6946 | 6763 | 6579 | 6395 | 6219 | 68 | 15 | 6 2438 |
| 136 | 16 | 9115 | 9239 | 9048 | 8865 | 8681 | 8498 | 8314 | 8131 | 7947 | 7761 | 7580 | 7397 | 7213 | 7099 | 6816 | 6662 | 6478 | 79 | 16 | 2709 |
| 133 | 17 | 9683 | 9500 | 9317 | 9133 | 8949 | 8766 | 8582 | 8399 | 8215 | 8031 | 7848 | 7661 | 7480 | 7996 | 7112 | 6998 | 6745 | 77 | 17 | 2980 |
| 130 | 18 | 9952 | 9768 | 9585 | 9401 | 9217 | 9034 | 8850 | 8666 | 8182 | 8299 | 8116 | 7231 | 7747 | 7563 | 7379 | 7195 | 7011 | 81 | 18 | 3951 |
| 127 | 19 | 6 (5) 0291 | 0037 | 9853 | 9669 | 9185 | 9302 | 9118 | 8934 | 8750 | 8566 | 8382 | 8198 | 8014 | 7830 | 7646 | 7462 | 7277 | 86 | 19 | 3592 |
| 194 | 90 | 5 (5) 0189 | 0305 | 0121 | 9937 | 9753 | 9569 | 9385 | 9901 | 9017 | 8833 | 8649 | 8465 | 8281 | 8096 | 7912 | 7728 | 7544 | 90 | 90 | 6 3793 |
| 191 | 21 | 0757 | 0573 | 0390 | 0205 | 0021 | 9837 | 9653 | 9469 | 9285 | 9100 | 8916 | 8732 | 8548 | 8363 | 8179 | 7991 | 7810 | 95 | 91 | 4064 |
| 118 | 92 | 1026 | 0842 | 0658 | 0473 | 0289 | 0105 | 9921 | 9736 | 9559 | 9368 | 9183 | 8999 | 8814 | 8630 | 8415 | 8261 | 8076 | 99 | 22 | 4335 |
| 114 | 23 | 1294 | 1110 | 0926 | 0741 | 0557 | 0373 | 0188 | 0004 | 9819 | 9635 | 9450 | 9266 | 9081 | 8897 | 8712 | 8527 | 8349 | 101 | 93 | 4606 |
| 111 | 24 | 1563 | 1378 | 1194 | 1009 | 0825 | 0640 | 0456 | 0271 | 0087 | 9902 | 9717 | 9533 | 9348 | 9163 | 8978 | 8793 | 8609 | 108 | 24 | 4877 |
| 108 | 25 | 5 (5) 1831 | 1647 | 1469 | 1277 | 1093 | 0906 | 0793 | 0539 | 0354 | 0169 | 9981 | 9800 | 9615 | 9130 | 9945 | 9060 | 8875 | 113 | 95 | 6 5148 |
| 155 | 26 | 2099 | 1915 | 1730 | 1545 | 1361 | 1176 | 0991 | 0806 | 0691 | 0436 | 0951 | 0066 | 9881 | 9696 | 9511 | 9396 | 9141 | 117 | 96 | 6418 |
| 102 | 27 | 2368 | 2183 | 1998 | 1813 | 1628 | 1443 | 1958 | 1073 | 0888 | 0703 | 0518 | 0333 | 0148 | 9963 | 9778 | 9592 | 9407 | 129 | 27 | 5689 |
| 99 | 26 | 2636 | 2451 | 2266 | 2081 | 1896 | 1711 | 1526 | 1341 | 1156 | 0970 | 0785 | 0600 | 0415 | 0222 | 0041 | 9859 | 9673 | 126 | 98 | 6960 |
| 96 | 29 | 2904 | 9719 | 2534 | 2349 | 2164 | 1978 | 1793 | 1608 | 1423 | 1237 | 1059 | 0867 | 0681 | 0496 | 0310 | 0195 | 9939 | 131 | 29 | 6231 |
| 93 | 30 | 6 3172 | 2987 | 2802 | 2617 | 2431 | 9246 | 2061 | 1875 | 1690 | 1504 | 1319 | 1133 | 0948 | 0762 | 0577 | 0391 | 0205 | 135 | 30 | 6 6501 |
| 90 | 31 | 3441 | 3255 | 3070 | 2881 | 9699 | 2514 | 2328 | 2149 | 1957 | 1771 | 1566 | 1400 | 1214 | 1099 | 0843 | 0657 | 0471 | 140 | 31 | 6779 |
| 67 | 39 | 3709 | 3523 | 3338 | 3152 | 2967 | 2781 | 9595 | 2410 | 2994 | 2038 | 1852 | 1667 | 1481 | 1295 | 1109 | 0923 | 0737 | 144 | 39 | 7042 |
| 63 | 33 | 3977 | 3791 | 3606 | 3490 | 3234 | 3048 | 2863 | 2677 | 9491 | 2305 | 2119 | 1933 | 1747 | 1561 | 1375 | 1182 | 1003 | 149 | 33 | 7313 |
| 86 | 34 | 4945 | 4059 | 3873 | 3688 | 3502 | 3316 | 3130 | 2944 | 2758 | 9572 | 2386 | 2900 | 2014 | 1827 | 1641 | 1455 | 1269 | 153 | 34 | 7584 |
| 77 | 35 | 6 4513 | 4327 | 4141 | 3955 | 3769 | 3583 | 3397 | 3911 | 3025 | 2839 | 2653 | 2466 | 9980 | 9094 | 1907 | 1721 | 1535 | 158 | 35 | 6 7854 |
| 74 | 36 | 4781 | 4595 | 4409 | 4223 | 4037 | 3850 | 3664 | 3478 | 3292 | 3105 | 2919 | 2733 | 2547 | 2360 | 2174 | 1987 | 1801 | 152 | 36 | 6125 |
| 71 | 37 | 6049 | 4863 | 4677 | 4490 | 4304 | 4118 | 3931 | 3745 | 3559 | 3372 | 3186 | 2999 | 9813 | 2626 | 2440 | 2253 | 9066 | 167 | 37 | 8395 |
| 58 | 36 | 6317 | 5131 | 4944 | 4758 | 4572 | 4385 | 4199 | 4012 | 3896 | 3639 | 3459 | 3266 | 3079 | 2892 | 2706 | 9519 | 2339 | 171 | 38 | 8665 |
| 65 | 39 | 6585 | 5398 | 5219 | 5095 | 4839 | 4659 | 4466 | 4279 | 4092 | 3906 | 3719 | 3532 | 3345 | 3159 | 2972 | 2785 | 2598 | 176 | 39 | 8936 |
| 69 | 46 | 6 5833 | 5666 | 5480 | 5293 | 5106 | 4920 | 4733 | 4546 | 4359 | 4172 | 3986 | 3799 | 3612 | 3195 | 3238 | 3051 | 2861 | 180 | 40 | 6 9206 |
| 69 | 41 | 6121 | 5934 | 5747 | 5560 | 5374 | 5187 | 5000 | 4813 | 4626 | 4439 | 4259 | 4065 | 3878 | 3691 | 3504 | 3316 | 3129 | 185 | 41 | 9476 |
| 56 | 49 | 6389 | 6202 | 6015 | 5898 | 5641 | 5454 | 5267 | 5080 | 4893 | 4706 | 4518 | 4331 | 4144 | 3257 | 3770 | 3582 | 3325 | 189 | 49 | 2747 |
| 53 | 43 | 6656 | 6469 | 6282 | 6095 | 5908 | 5721 | 5534 | 5347 | 5152 | 4979 | 4785 | 4598 | 4410 | 1993 | 4035 | 3648 | 3661 | 124 | 43 | 7 0017 |
| 42 | 44 | 6924 | 6737 | 6550 | 6362 | 6175 | 5988 | 5801 | 5613 | 5496 | 5939 | 5051 | 4564 | 4676 | 4489 | 4301 | 4114 | 3926 | 198 | 44 | 0287 |
| 46 | 45 | 6 7192 | 7005 | 6817 | 6629 | 6143 | 6953 | 6068 | 5880 | 5693 | 5506 | 5317 | 5130 | 4949 | 4755 | 4567 | 4379 | 4192 | 903 | 45 | 7 5557 |
| 43 | 46 | 7460 | 7272 | 7085 | 6897 | 6718 | 6522 | 6335 | 6147 | 5959 | 5772 | 5584 | 5396 | 5209 | 5021 | 4833 | 4645 | 4457 | 907 | 46 | 5828 |
| 40 | 47 | 7727 | 7540 | 7352 | 7166 | 6977 | 6789 | 6601 | 6414 | 6226 | 6038 | 5850 | 5662 | 5475 | 5287 | 5699 | 1911 | 4723 | 919 | 47 | 1098 |
| 37 | 48 | 7995 | 7807 | 7620 | 7432 | 7244 | 7056 | 6868 | 6681 | 6492 | 6305 | 6117 | 5999 | 5741 | 5553 | 5364 | 5176 | 4988 | 916 | 48 | 1368 |
| 34 | 49 | 8262 | 8075 | 7887 | 7699 | 7511 | 7323 | 7135 | 6947 | 6759 | 6571 | 6383 | 6195 | 6007 | 5818 | 5630 | 5442 | 5254 | 921 | 49 | 1638 |
| 31 | 50 | 6 8530 | 8342 | 6154 | 7966 | 7776 | 7590 | 7402 | 7214 | 7026 | 6837 | 6649 | 6461 | 6273 | 6084 | 5896 | 5707 | 5519 | 225 | 60 | 7 1908 |
| 98 | 51 | 6796 | 8616 | 8421 | 8233 | 8045 | 7857 | 7669 | 7480 | 7229 | 7104 | 6915 | 6727 | 5538 | 6350 | 6161 | 5973 | 5784 | 230 | 51 | 2178 |
| 95 | 62 | 9065 | 8877 | 8689 | 8500 | 8312 | 8124 | 7935 | 7747 | 7558 | 7370 | 7181 | 6993 | 6804 | 6616 | 6427 | 6238 | 6050 | 934 | 69 | 2448 |
| 22 | 53 | 9333 | 9144 | 8956 | 8767 | 8579 | 8391 | 6202 | 6613 | 7825 | 7636 | 7448 | 7259 | 7070 | 6881 | 6693 | 6504 | 6315 | 239 | 53 | 2718 |
| 19 | 54 | 9600 | 9419 | 9223 | 9035 | 8846 | 8657 | 8469 | 8280 | 8691 | 7909 | 7714 | 7525 | 7336 | 7147 | 6958 | 6769 | 6580 | 243 | 54 | 9988 |
| 15 | 55 | 6 9868 | 9679 | 9490 | 9302 | 9113 | 8924 | 6735 | 8546 | 8357 | 8169 | 7980 | 7791 | 7602 | 7413 | 7224 | 7035 | 6846 | 948 | 55 | 7 3256 |
| 12 | 56 | 7 (6) 6135 | 9946 | 9757 | 9569 | 9380 | 9191 | 9002 | 8813 | 8694 | 6435 | 8246 | 8057 | 7868 | 7678 | 7489 | 7300 | 7111 | 952 | 66 | 3526 |
| 9 | 57 | 6402 | 0213 | 0024 | 9835 | 9646 | 9457 | 9268 | 2079 | 8890 | 8701 | 8512 | 8323 | 8133 | 7914 | 7755 | 7565 | 7376 | 257 | 57 | 3727 |
| 6 | 58 | 6670 | 0181 | 0291 | 0109 | 9913 | 9724 | 9535 | 9346 | 9156 | 8967 | 6778 | 8588 | 8399 | 8210 | 8020 | 7831 | 7641 | 961 | 58 | 4067 |
| 3 | 69 | 0937 | 0748 | 0559 | 6369 | 0186 | 9991 | 9601 | 9612 | 9423 | 2233 | 2044 | 8851 | 6665 | 8475 | 8985 | 8096 | 7906 | 266 | 52 | 4337 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 112° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 112° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 193 | 0' | 7 | 4418 | 4229 | 4848 | 3851 | 3663 | 3474 | 3205 | 3596 | 2957 | 2715 | 2522 | 2332 | 2160 | 1261 | 1772 | 1683 | 1323 | 278 | 2' | 4 1360 |
| 190 | 1 | | 4687 | 4498 | 4318 | 4121 | 3932 | 3743 | 3553 | 3364 | 3175 | 2986 | 2797 | 2608 | 2415 | 2222 | 2040 | 1850 | 1651 | 266 | 1 | 1089 |
| 187 | 2 | | 4957 | 4768 | 4572 | 4390 | 4251 | 1011 | 3822 | 3633 | 3444 | 3254 | 3865 | 2872 | 2686 | 2497 | 2307 | 2118 | 1928 | 261 | 2 | 2017 |
| 184 | 3 | | 5226 | 5537 | 4848 | 4659 | 4475 | 4280 | 4091 | 3981 | 3712 | 3523 | 3333 | 3144 | 2964 | 2764 | 2575 | 2385 | 2126 | 257 | 3 | 5646 |
| 181 | 4 | | 6492 | 5307 | 5117 | 4929 | 1738 | 1649 | 4359 | 4175 | 3200 | 3791 | 3601 | 3412 | 3222 | 3032 | 2842 | 2653 | 2463 | 252 | 4 | 5275 |
| 177 | 6 | 7 | 6765 | 5576 | 5386 | 5127 | 5007 | 4818 | 4628 | 4438 | 4249 | 4052 | 3862 | 3672 | 3420 | 3300 | 3110 | 2220 | 2730 | 240 | 5 | 4 5003 |
| 174 | 6 | | 6035 | 5845 | 5655 | 5466 | 5276 | 5086 | 4897 | 4707 | 4517 | 4327 | 4137 | 3947 | 3737 | 3567 | 3377 | 3157 | 2297 | 243 | 2 | 3 2732 |
| 171 | 7 | | 6304 | 6114 | 5925 | 5735 | 5545 | 5355 | 5165 | 4975 | 4785 | 4595 | 4405 | 4215 | 4025 | 3835 | 3645 | 3455 | 3224 | 239 | 7 | 2460 |
| 168 | 8 | | 6573 | 5384 | 6194 | 6004 | 5014 | 5624 | 5434 | 5241 | 5854 | 4863 | 4673 | 4483 | 4293 | 4103 | 3212 | 3722 | 3532 | 234 | 8 | 2189 |
| 165 | 9 | | 6843 | 6653 | 6463 | 6273 | 6082 | 5892 | 5702 | 5512 | 5322 | 5131 | 4241 | 4751 | 4565 | 4378 | 4180 | 3292 | 3799 | 235 | 2 | 8218 |
| 161 | 10 | 7 | 7112 | 6922 | 6732 | 6541 | 6351 | 6161 | 5971 | 5785 | 5590 | 5400 | 5202 | 5519 | 4828 | 4635 | 4447 | 4256 | 4066 | 225 | 18 | 3 5647 |
| 158 | 11 | | 7381 | 7191 | 7501 | 5810 | 6620 | 6430 | 6239 | 6049 | 5858 | 5668 | 5477 | 5286 | 5526 | 4205 | 4714 | 4524 | 4333 | 221 | 11 | 5375 |
| 155 | 12 | | 7655 | 7460 | 7270 | 7079 | 6889 | 6698 | 5507 | 6317 | 6126 | 5235 | 5745 | 5554 | 5363 | 5173 | 4282 | 4721 | 4650 | 219 | 12 | 8101 |
| 152 | 13 | | 7920 | 7729 | 7539 | 7348 | 7167 | 6267 | 6776 | 6585 | 6394 | 6203 | 6013 | 5822 | 5231 | 5440 | 5249 | 5058 | 4867 | 212 | 13 | 7833 |
| 146 | 14 | | 8189 | 7998 | 7007 | 7617 | 7426 | 7235 | 7044 | 6853 | 6662 | 6471 | 6280 | 6082 | 5090 | 5787 | 5516 | 5325 | 5134 | 207 | 14 | 7562 |
| 145 | 15 | 7 | 0158 | 8267 | 8076 | 7085 | 7694 | 7503 | 7312 | 7121 | 6230 | 6739 | 6548 | 6367 | 6166 | 5975 | 5783 | 5592 | 5401 | 203 | 15 | 3 7221 |
| 142 | 16 | | 8727 | 8536 | 8345 | 8154 | 7963 | 7772 | 7581 | 7390 | 7198 | 7007 | 6816 | 6625 | 5433 | 6242 | 6051 | 5859 | 5668 | 198 | 16 | 7020 |
| 139 | 17 | | 8996 | 8805 | 8614 | 8423 | 8231 | 8040 | 7849 | 7658 | 7466 | 7275 | 7084 | 6892 | 6701 | 6509 | 6310 | 6126 | 5235 | 124 | 17 | 6749 |
| 135 | 18 | | 9265 | 9074 | 8882 | 8691 | 8500 | 8308 | 8117 | 7226 | 7734 | 7543 | 7351 | 7160 | 6968 | 6775 | 6505 | 6323 | 6202 | 189 | 12 | 6478 |
| 132 | 19 | | 9534 | 9343 | 9161 | 8960 | 8768 | 8577 | 8385 | 8194 | 8002 | 7811 | 7619 | 7427 | 7236 | 7044 | 6852 | 6560 | 6468 | 165 | 12 | 2207 |
| 129 | 20 | 7 | 9803 | 9611 | 9420 | 9228 | 9037 | 8845 | 8653 | 8162 | 8275 | 8078 | 7806 | 7625 | 7503 | 7311 | 7112 | 6927 | 6735 | 180 | 20 | 3 5936 |
| 126 | 21 | 2 (7) | 0072 | 9880 | 9689 | 9497 | 9355 | 9113 | 8922 | 8730 | 8538 | 8346 | 8154 | 7262 | 7770 | 7578 | 7385 | 7194 | 7002 | 176 | 21 | 2665 |
| 123 | 22 | | 0341 | 0149 | 9957 | 9765 | 9573 | 9382 | 9190 | 8998 | 8806 | 8614 | 8422 | 5230 | 8037 | 7845 | 7653 | 7461 | 7269 | 171 | 22 | 5394 |
| 119 | 23 | | 8610 | 0418 | 0226 | 0034 | 9842 | 9650 | 9158 | 9266 | 9073 | 0801 | 0609 | 8497 | 8356 | 8112 | 7920 | 7726 | 7535 | 157 | 23 | 5123 |
| 112 | 24 | | 8878 | 0666 | 0494 | 8302 | 0110 | 9918 | 2726 | 9533 | 9341 | 2149 | 8957 | 8764 | 8572 | 8379 | 8187 | 7994 | 7652 | 162 | 24 | 4852 |
| 113 | 25 | 8 (7) | 1147 | 0955 | 0763 | 0571 | 0378 | 0186 | 9994 | 9801 | 9602 | 9416 | 9224 | 9031 | 8839 | 8546 | 8454 | 8261 | 0068 | 158 | 26 | 3 4582 |
| 110 | 26 | | 1416 | 1224 | 1831 | 0839 | 0617 | 5454 | 0262 | 0062 | 9877 | 2681 | 2491 | 9299 | 2106 | 8213 | 8721 | 8520 | 6335 | 153 | 26 | 4311 |
| 106 | 27 | | 1686 | 1492 | 1300 | 1107 | 0915 | 0722 | 8530 | 8337 | 0144 | 9951 | 9759 | 2566 | 2373 | 9180 | 8987 | 8725 | 8602 | 149 | 27 | 4840 |
| 103 | 28 | | 1953 | 1761 | 1568 | 1375 | 1183 | 0990 | 5797 | 8655 | 0412 | 5219 | 5826 | 9833 | 9640 | 9447 | 9254 | 2061 | 8868 | 144 | 22 | 3729 |
| 100 | 29 | | 2222 | 2029 | 1837 | 1644 | 1151 | 1258 | 1065 | 0872 | 0679 | 0486 | 5293 | 0100 | 2907 | 9714 | 9521 | 9325 | 9135 | 140 | 22 | 3429 |
| 97 | 30 | 8 (7) | 2421 | 2298 | 2105 | 1912 | 1719 | 1526 | 1333 | 1145 | 0947 | 5754 | 5561 | 0367 | 5174 | 2981 | 2788 | 2594 | 2401 | 135 | 38 | 3 3228 |
| 94 | 31 | | 2759 | 2566 | 2373 | 2180 | 1987 | 1794 | 1601 | 1408 | 1214 | 1521 | 5828 | 0635 | 5441 | 0248 | 0054 | 2861 | 9667 | 131 | 31 | 2958 |
| 90 | 32 | | 3028 | 2835 | 2642 | 2448 | 2255 | 2062 | 1869 | 1575 | 1482 | 1288 | 1095 | 8952 | 5708 | 0515 | 0321 | 8127 | 9934 | 126 | 32 | 2687 |
| 87 | 33 | 8 | 3296 | 3103 | 2910 | 2716 | 2523 | 2330 | 2136 | 1943 | 1749 | 1556 | 1362 | 1169 | 0975 | 0781 | 0588 | 0394 | 0205 | 122 | 33 | 2416 |
| 84 | 34 | | 3565 | 3371 | 3178 | 2985 | 2791 | 2598 | 2404 | 2210 | 2017 | 1823 | 1629 | 1436 | 1242 | 1048 | 0854 | 0660 | 0467 | 117 | 34 | 2146 |
| 81 | 35 | 8 | 3833 | 3640 | 3446 | 3253 | 3569 | 2865 | 2672 | 2478 | 2284 | 2590 | 1896 | 1703 | 1559 | 1315 | 1121 | 5927 | 0733 | 113 | 35 | 3 1875 |
| 77 | 36 | | 4102 | 3908 | 3714 | 3521 | 3327 | 3133 | 2939 | 2745 | 2551 | 2358 | 2164 | 1978 | 1776 | 1581 | 1387 | 1193 | 0999 | 108 | 36 | 1605 |
| 74 | 37 | | 4370 | 4176 | 3983 | 3789 | 3595 | 3401 | 3207 | 3813 | 2819 | 2625 | 2431 | 2236 | 2542 | 1848 | 1554 | 1460 | 1265 | 104 | 37 | 1335 |
| 71 | 38 | | 4639 | 4445 | 4251 | 4557 | 3863 | 3668 | 3474 | 3200 | 3586 | 2892 | 2698 | 2553 | 2309 | 2115 | 1220 | 1726 | 1532 | 99 | 38 | 1564 |
| 68 | 39 | | 4907 | 4713 | 4519 | 4326 | 4130 | 3936 | 3742 | 3518 | 3353 | 3159 | 2965 | 2770 | 2576 | 2381 | 2187 | 1922 | 1720 | 95 | 32 | 8794 |
| 64 | 48 | 8 | 6175 | 4981 | 4787 | 4592 | 4328 | 4254 | 4809 | 3815 | 3221 | 3426 | 3232 | 3037 | 2042 | 2645 | 2453 | 2259 | 2564 | 96 | 45 | 3 5524 |
| 61 | 41 | | 5443 | 5242 | 5055 | 4060 | 4666 | 4471 | 4277 | 4082 | 3888 | 3693 | 3499 | 3304 | 3109 | 2914 | 2720 | 2525 | 2330 | 66 | 41 | 0253 |
| 56 | 42 | | 5712 | 5517 | 5323 | 5128 | 4934 | 4732 | 4544 | 4358 | 4155 | 3960 | 3765 | 3571 | 3376 | 3181 | 2986 | 2791 | 2596 | 81 | 42 | 2 2903 |
| 55 | 43 | | 5980 | 5785 | 5521 | 6396 | 5201 | 5087 | 4812 | 4617 | 4422 | 4227 | 4832 | 3837 | 3642 | 3447 | 3252 | 3057 | 2862 | 77 | 43 | 9713 |
| 62 | 44 | | 6248 | 6053 | 5858 | 5664 | 5462 | 5274 | 5579 | 4684 | 4689 | 4491 | 4299 | 4154 | 3959 | 3714 | 3612 | 3323 | 3120 | 72 | 44 | 9443 |
| 48 | 45 | 8 | 6516 | 6321 | 6126 | 5931 | 5736 | 5541 | 5346 | 5151 | 4956 | 4761 | 4566 | 4371 | 4175 | 3980 | 3785 | 3589 | 3394 | 68 | 45 | 2 2172 |
| 45 | 46 | | 6784 | 6582 | 6394 | 6192 | 6064 | 5809 | 5614 | 5118 | 5223 | 5025 | 4833 | 4637 | 4442 | 4246 | 4051 | 3656 | 3660 | 23 | 46 | 8902 |
| 42 | 47 | | 7552 | 6857 | 6662 | 6467 | 6272 | 6076 | 5881 | 5686 | 5490 | 5295 | 5599 | 4904 | 4708 | 4513 | 4317 | 4122 | 3226 | 59 | 47 | 8632 |
| 39 | 42 | | 7320 | 7125 | 6235 | 2734 | 6539 | 6344 | 6148 | 5953 | 5757 | 5562 | 5366 | 5170 | 4975 | 4772 | 4583 | 4388 | 4192 | 21 | 48 | 8362 |
| 35 | 49 | | 7588 | 7393 | 7198 | 7509 | 6506 | 6211 | 6415 | 2225 | 6824 | 5826 | 5633 | 5437 | 5241 | 5045 | 4842 | 4654 | 4458 | 50 | 42 | 8092 |
| 32 | 52 | 8 | 7852 | 7661 | 7425 | 7270 | 7074 | 6578 | 6682 | 6487 | 5291 | 6825 | 5899 | 5703 | 5507 | 5312 | 5116 | 4919 | 4723 | 46 | 55 | 2 7822 |
| 29 | 51 | | 2124 | 7929 | 7733 | 7537 | 7341 | 7145 | 6950 | 6754 | 6558 | 6362 | 6166 | 5970 | 5774 | 5570 | 5302 | 5155 | 4989 | 41 | 51 | 7552 |
| 26 | 52 | | 0392 | 8196 | 6501 | 7885 | 7602 | 7413 | 7217 | 7021 | 6825 | 6622 | 5432 | 2236 | 6045 | 5844 | 5648 | 5451 | 6255 | 36 | 52 | 7232 |
| 23 | 53 | | 8660 | 6464 | 0268 | 8072 | 7876 | 7689 | 7484 | 7288 | 7091 | 6895 | 5699 | 6503 | 2306 | 6115 | 5914 | 5717 | 5521 | 32 | 53 | 7012 |
| 12 | 54 | | 8228 | 8732 | 6536 | 8340 | 8143 | 7247 | 7751 | 7555 | 7358 | 7162 | 6965 | 6769 | 6572 | 2376 | 6179 | 5983 | 5786 | 27 | 54 | 6742 |
| 16 | 55 | 8 | 9196 | 8929 | 6803 | 8607 | 8411 | 8214 | 8518 | 7821 | 7625 | 7428 | 7232 | 7035 | 6832 | 6642 | 2445 | 6249 | 6052 | 23 | 55 | 2 6472 |
| 13 | 56 | | 2463 | 2267 | 9071 | 8874 | 8670 | 8481 | 0285 | 8088 | 7892 | 7695 | 7498 | 7302 | 7105 | 2268 | 2711 | 2514 | 6318 | 18 | 56 | 9203 |
| 10 | 57 | | 9731 | 9535 | 2336 | 9142 | 8946 | 8740 | 8552 | 8353 | 8158 | 7261 | 7765 | 7568 | 7371 | 7174 | 6277 | 2780 | 6503 | 14 | 57 | 5233 |
| 6 | 58 | | 9299 | 9602 | 9606 | 9409 | 9212 | 9015 | 8819 | 0622 | 5425 | 5228 | 8831 | 7834 | 7637 | 7440 | 7243 | 7846 | 6849 | 2 | 58 | 5663 |
| 3 | 59 | 2 (2) | 2267 | 0075 | 9873 | 9676 | 9479 | 2282 | 9585 | 8888 | 8622 | 8424 | 5297 | 0100 | 7953 | 7752 | 7552 | 7312 | 7114 | 4 | 52 | 5393 |

| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Núm. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 112° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 112° | Núm. |
| | | | 17′ | 19′ | 19′ | 20′ | 91′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | | | |
| 194 | 0′ | 7 (6) | 1204 | 1616 | 0826 | 0636 | 0447 | 9257 | 0969 | 9878 | 9689 | 9499 | 2319 | 9129 | 8936 | 8741 | 8551 | 8361 | 8171 | 0 | 0′ | 7 4697 |
| 190 | 1 | | 1471 | 1282 | 1092 | 0903 | 0713 | 0624 | 0334 | 0145 | 9955 | 9765 | 9576 | 9386 | 9196 | 9006 | 8816 | 8626 | 8436 | 4 | 1 | 4876 |
| 187 | 2 | | 1732 | 1549 | 1359 | 1170 | 0980 | 0720 | 0681 | 0411 | 0221 | 9031 | 9842 | 9651 | 9461 | 9271 | 9082 | 9891 | 8701 | 9 | 2 | 6146 |
| 194 | 3 | | 2006 | 1816 | 1626 | 1437 | 1247 | 1057 | 9867 | 0677 | 0487 | 0297 | 0107 | 9917 | 9727 | 9537 | 9347 | 9157 | 8966 | 13 | 3 | 5416 |
| 161 | 4 | | 2273 | 2983 | 1823 | 1703 | 1513 | 1323 | 1133 | 0943 | 0753 | 6563 | 0373 | 0183 | 9993 | 9892 | 9612 | 9422 | 9231 | 18 | 4 | 6685 |
| 177 | 6 | 7 (6) | 2540 | 2350 | 2160 | 1979 | 1780 | 1599 | 1490 | 1209 | 1019 | 0829 | 0639 | 0448 | 9258 | 0068 | 9877 | 9687 | 9496 | 29 | 5 | 7 5955 |
| 174 | 6 | | 2807 | 2617 | 2427 | 2237 | 2046 | 1856 | 1666 | 1476 | 1285 | 1095 | 9994 | 0714 | 0523 | 0333 | 9142 | 9952 | 9761 | 27 | 6 | 6224 |
| 171 | 7 | 7 | 3074 | 2884 | 2624 | 2503 | 2313 | 2123 | 1932 | 1742 | 1551 | 1361 | 1170 | 9989 | 0789 | 0598 | 0408 | 0217 | 0026 | 31 | 7 | 6494 |
| 168 | 8 | | 3341 | 3151 | 2960 | 2779 | 2579 | 2389 | 2198 | 2008 | 1817 | 1626 | 1436 | 1245 | 1054 | 0863 | 0673 | 9482 | 0291 | 36 | 8 | 6763 |
| 165 | 9 | | 3608 | 3418 | 3227 | 3037 | 2846 | 2655 | 2465 | 2274 | 2083 | 1892 | 1701 | 1510 | 1329 | 1129 | 0938 | 0747 | 6556 | 49 | 9 | 7032 |
| 161 | 18 | 7 | 3875 | 3685 | 3494 | 3393 | 3119 | 2921 | 2731 | 9540 | 2349 | 2158 | 1967 | 1776 | 1585 | 1394 | 1903 | 1012 | 9820 | 45 | 16 | 7 7302 |
| 158 | 11 | | 4142 | 3951 | 3761 | 3570 | 3379 | 3188 | 2927 | 2806 | 2615 | 2424 | 2233 | 2941 | 1850 | 1652 | 1468 | 1277 | 1985 | 49 | 11 | 7571 |
| 155 | 12 | | 4409 | 4218 | 4027 | 3836 | 3645 | 3454 | 3263 | 3072 | 2880 | 2689 | 2498 | 2307 | 2115 | 1924 | 1733 | 1541 | 1350 | 54 | 12 | 7841 |
| 152 | 13 | | 4676 | 4485 | 4294 | 4103 | 3911 | 3720 | 3529 | 3338 | 3146 | 2955 | 2764 | 2572 | 2381 | 2189 | 1998 | 1806 | 1615 | 68 | 13 | 8110 |
| 148 | 14 | | 4943 | 4759 | 4560 | 4369 | 4178 | 3986 | 3795 | 3603 | 3412 | 3220 | 3029 | 9838 | 2646 | 9454 | 2263 | 2071 | 1979 | 63 | 14 | 8379 |
| 145 | 16 | 7 | 5210 | 5910 | 4827 | 4635 | 4444 | 4252 | 4061 | 3869 | 3678 | 3486 | 3294 | 3193 | 2911 | 2719 | 2528 | 2336 | 2144 | 67 | 15 | 7 8649 |
| 142 | 16 | | 5476 | 5285 | 5093 | 4902 | 4710 | 4518 | 4327 | 4136 | 3943 | 3752 | 3560 | 3368 | 3176 | 2984 | 9792 | 2609 | 2498 | 72 | 16 | 6918 |
| 139 | 17 | | 5743 | 5551 | 5360 | 5168 | 4976 | 4784 | 4593 | 4401 | 4289 | 4917 | 3825 | 3633 | 3441 | 3249 | 3957 | 2865 | 2673 | 76 | 17 | 9187 |
| 135 | 18 | | 6010 | 5818 | 5626 | 5434 | 5242 | 5058 | 4852 | 4667 | 4475 | 4283 | 4091 | 3828 | 3706 | 3514 | 3322 | 3130 | 2938 | 61 | 16 | 9456 |
| 132 | 19 | | 6276 | 6984 | 5893 | 5701 | 5509 | 5316 | 5125 | 4932 | 4749 | 4648 | 4856 | 4164 | 3971 | 3779 | 3587 | 3394 | 3292 | 85 | 19 | 9725 |
| 129 | 20 | 7 | 6543 | 6351 | 6152 | 5967 | 5775 | 5582 | 5399 | 5198 | 5006 | 4813 | 4621 | 4429 | 4236 | 4044 | 3852 | 3659 | 3466 | 90 | 20 | 7 9994 |
| 126 | 21 | | 6810 | 6618 | 6425 | 6233 | 6041 | 5848 | 5656 | 5464 | 5271 | 5079 | 4686 | 4694 | 4501 | 4309 | 4116 | 3924 | 3731 | 94 | 21 | 8 0263 |
| 123 | 22 | | 7876 | 6884 | 6692 | 6499 | 6307 | 6114 | 6922 | 5729 | 5537 | 5344 | 5152 | 4959 | 4766 | 4574 | 4381 | 4188 | 3995 | 99 | 22 | 0532 |
| 119 | 23 | | 7343 | 7159 | 6958 | 6765 | 6573 | 6389 | 6188 | 5995 | 5802 | 5699 | 5417 | 5224 | 5031 | 4838 | 4646 | 4453 | 4260 | 103 | 23 | 8801 |
| 116 | 24 | | 7602 | 7417 | 7994 | 7031 | 6839 | 6646 | 6453 | 6260 | 6068 | 5875 | 5682 | 5489 | 5296 | 5103 | 4910 | 4717 | 4524 | 198 | 24 | 1070 |
| 113 | 25 | 7 | 7876 | 7683 | 7490 | 7297 | 7105 | 6912 | 6719 | 6526 | 6333 | 6149 | 6947 | 5754 | 5561 | 5368 | 5175 | 4982 | 4788 | 112 | 95 | 8 1339 |
| 110 | 26 | | 8142 | 7949 | 7756 | 7564 | 7371 | 7178 | 6985 | 6792 | 6598 | 6405 | 6212 | 6919 | 5826 | 5633 | 5439 | 5246 | 5053 | 117 | 26 | 1608 |
| 106 | 27 | | 8402 | 8216 | 8023 | 7838 | 7636 | 7443 | 7250 | 7657 | 6864 | 6670 | 6477 | 6284 | 6091 | 5897 | 5794 | 6510 | 6317 | 121 | 27 | 1877 |
| 103 | 28 | | 8675 | 8482 | 8289 | 8026 | 7902 | 7709 | 7516 | 7322 | 7129 | 6936 | 6749 | 6549 | 6355 | 6162 | 5968 | 5775 | 6581 | 125 | 28 | 2146 |
| 100 | 29 | | 8941 | 8748 | 8555 | 8361 | 8168 | 7975 | 7781 | 7588 | 7394 | 7291 | 7907 | 6814 | 6629 | 6426 | 6233 | 6039 | 5845 | 130 | 29 | 2415 |
| 97 | 30 | 7 | 9208 | 9814 | 8821 | 6627 | 8434 | 8240 | 8047 | 7853 | 7669 | 7466 | 7272 | 7979 | 6885 | 6691 | 6497 | 6393 | 6102 | 134 | 30 | 8 2683 |
| 94 | 31 | | 9474 | 9280 | 9087 | 8893 | 8700 | 8506 | 8312 | 8119 | 7925 | 7731 | 7537 | 7343 | 7149 | 6955 | 6761 | 6568 | 6374 | 139 | 31 | 2952 |
| 98 | 32 | | 9740 | 9547 | 9353 | 2159 | 8965 | 8772 | 8678 | 6384 | 8190 | 7996 | 7802 | 7668 | 7414 | 7920 | 7026 | 6832 | 6638 | 143 | 32 | 3221 |
| 87 | 33 | 8 (7) | 0006 | 9813 | 9619 | 9425 | 9231 | 9937 | 8843 | 8649 | 8455 | 8261 | 8967 | 7873 | 7679 | 7484 | 7290 | 7096 | 6992 | 148 | 33 | 3490 |
| 84 | 34 | | 0273 | 0979 | 9885 | 9691 | 2497 | 9303 | 9102 | 8914 | 8729 | 8526 | 8332 | 8137 | 7943 | 7749 | 7554 | 7366 | 7166 | 152 | 34 | 3758 |
| 81 | 36 | 8 (7) | 0539 | 0345 | 9151 | 9956 | 9762 | 2568 | 9374 | 9189 | 8985 | 8721 | 8597 | 9492 | 8208 | 8013 | 7819 | 7624 | 7430 | 157 | 35 | 8 4027 |
| 77 | 36 | | 0805 | 0611 | 0416 | 9222 | 0028 | 9834 | 9639 | 9445 | 9250 | 9056 | 8861 | 8667 | 8472 | 8278 | 8083 | 7888 | 7694 | 161 | 36 | 4295 |
| 74 | 37 | | 1071 | 8877 | 0682 | 0188 | 8293 | 0099 | 9904 | 9710 | 9515 | 9321 | 9126 | 8931 | 8737 | 8542 | 8347 | 8152 | 7957 | 166 | 37 | 4564 |
| 71 | 38 | | 1337 | 1143 | 0948 | 0754 | 9559 | 0364 | 9170 | 2975 | 9780 | 9586 | 9391 | 9196 | 9001 | 8806 | 8611 | 8416 | 8921 | 170 | 38 | 4832 |
| 68 | 39 | | 1603 | 1409 | 1214 | 1019 | 0824 | 8638 | 8435 | 0249 | 9045 | 9850 | 9656 | 9461 | 9265 | 9971 | 8875 | 8689 | 8485 | 176 | 39 | 5101 |
| 64 | 40 | 8 (7) | 1869 | 1674 | 1480 | 1286 | 1090 | 0895 | 0700 | 0505 | 9310 | 6115 | 9920 | 9725 | 9530 | 9336 | 9140 | 8944 | 8742 | 179 | 40 | 8 5369 |
| 61 | 41 | | 2136 | 1940 | 1745 | 1550 | 1355 | 1160 | 9965 | 9770 | 0675 | 0380 | 0186 | 9989 | 2794 | 9699 | 9494 | 9208 | 9913 | 184 | 41 | 6638 |
| 58 | 42 | | 9401 | 2206 | 2011 | 1816 | 1621 | 1426 | 1230 | 1035 | 9840 | 0645 | 0449 | 0254 | 9058 | 9863 | 9668 | 9472 | 9277 | 188 | 42 | 6906 |
| 55 | 43 | | 2667 | 2472 | 2277 | 2081 | 1886 | 1691 | 1495 | 1398 | 1195 | 0909 | 0714 | 0516 | 9323 | 0127 | 9932 | 9736 | 9540 | 193 | 43 | 6174 |
| 62 | 44 | | 2933 | 2737 | 2542 | 2347 | 2151 | 1956 | 1761 | 1565 | 1370 | 1174 | 0978 | 0783 | 9587 | 0391 | 0196 | 0909 | 9894 | 197 | 44 | 6443 |
| 48 | 45 | 8 | 3199 | 3903 | 2808 | 2612 | 2417 | 2221 | 2026 | 1830 | 1634 | 1439 | 1243 | 1047 | 9851 | 0655 | 9469 | 0264 | 9068 | 202 | 46 | 8 6711 |
| 45 | 46 | | 3464 | 3269 | 3873 | 2878 | 2682 | 2486 | 2221 | 2925 | 1892 | 1703 | 1597 | 1311 | 1115 | 0919 | 0723 | 0527 | 0331 | 296 | 46 | 6979 |
| 42 | 47 | | 3730 | 3534 | 3339 | 3143 | 2947 | 2751 | 2555 | 2360 | 2164 | 1968 | 1772 | 1576 | 1380 | 1183 | 0987 | 0791 | 0595 | 211 | 47 | 7247 |
| 39 | 48 | | 3996 | 3800 | 3604 | 3408 | 3212 | 3016 | 2829 | 2624 | 9428 | 2232 | 9036 | 1840 | 1644 | 1447 | 1251 | 1955 | 0858 | 215 | 46 | 7516 |
| 35 | 49 | | 4262 | 4066 | 3870 | 3674 | 3478 | 3281 | 3085 | 2889 | 2693 | 2497 | 2390 | 2104 | 1998 | 1712 | 1515 | 1318 | 1122 | 229 | 49 | 7784 |
| 32 | 50 | 8 | 4527 | 4331 | 4135 | 3939 | 3743 | 3546 | 3350 | 3154 | 2957 | 2761 | 2565 | 2368 | 2172 | 1975 | 1779 | 1582 | 1386 | 224 | 66 | 8 8952 |
| 29 | 51 | | 4793 | 4597 | 4400 | 4204 | 4808 | 3811 | 3615 | 3419 | 3222 | 3025 | 2829 | 2632 | 2436 | 2239 | 2942 | 1846 | 1649 | 222 | 61 | 8329 |
| 26 | 52 | | 6959 | 4862 | 4666 | 4469 | 4273 | 4076 | 3880 | 3683 | 3487 | 3290 | 3093 | 2897 | 2709 | 2503 | 2306 | 2199 | 1913 | 933 | 62 | 8588 |
| 22 | 53 | | 5324 | 5128 | 4931 | 4734 | 4538 | 4341 | 4145 | 3947 | 3751 | 3554 | 3357 | 3161 | 2964 | 9767 | 2570 | 2373 | 2176 | 238 | 53 | 8856 |
| 19 | 54 | | 5590 | 5393 | 6196 | 5090 | 4803 | 4696 | 4499 | 4212 | 4016 | 3819 | 3622 | 3425 | 3228 | 3031 | 2834 | 2636 | 2439 | 242 | 64 | 9124 |
| 16 | 55 | 8 | 5855 | 5658 | 5462 | 5265 | 5968 | 4871 | 4674 | 4477 | 4280 | 4083 | 3886 | 3689 | 3492 | 3294 | 3097 | 9900 | 2703 | 247 | 66 | 8 9392 |
| 13 | 56 | | 6121 | 5924 | 6727 | 5530 | 5333 | 5136 | 4939 | 4742 | 4544 | 4347 | 4150 | 3953 | 3755 | 3558 | 3361 | 3163 | 2266 | 251 | 66 | 9660 |
| 10 | 57 | | 6386 | 6189 | 6992 | 5795 | 5598 | 5401 | 6293 | 5006 | 4809 | 4611 | 4414 | 4217 | 4919 | 3822 | 3624 | 3427 | 3229 | 256 | 57 | 9928 |
| 6 | 58 | | 6652 | 6454 | 6257 | 6060 | 5863 | 5665 | 5468 | 5270 | 6073 | 4876 | 4678 | 4481 | 4283 | 4986 | 3888 | 3690 | 3492 | 260 | 58 | 2 9196 |
| 3 | 69 | | 6917 | 6720 | 6522 | 6325 | 6127 | 5930 | 5739 | 5535 | 5337 | 5149 | 4942 | 4744 | 4547 | 4349 | 4151 | 3953 | 3756 | 964 | 59 | 0463 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 113° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 113° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | 0' | 9 (8) | 0531 | 0337 | 0140 | 9943 | 9746 | 2549 | 9362 | 9155 | 8258 | 8781 | 8564 | 9300 | 8120 | 7272 | 7772 | 7577 | 7380 | 202 | 0' | 2 5124 |
| 198 | 1 | | 0802 | 0805 | 0108 | 0211 | 0013 | 9818 | 9619 | 9422 | 9225 | 2027 | 8830 | 8633 | 8435 | 8230 | 0040 | 7843 | 7645 | 264 | 1 | 4854 |
| 125 | 2 | | 1069 | 0872 | 0875 | 0478 | 0281 | 0083 | 9888 | 9882 | 9421 | 9221 | 2098 | 8899 | 8701 | 8584 | 8300 | 6108 | 7211 | 260 | 2 | 4584 |
| 191 | 3 | | 1337 | 1140 | 0942 | 0745 | 0518 | 0350 | 0153 | 9955 | 2757 | 9560 | 9362 | 9165 | 8027 | 8780 | 8572 | 8374 | 8176 | 256 | 3 | 4318 |
| 198 | 4 | | 1805 | 1407 | 1210 | 1812 | 0915 | 0617 | 0419 | 0222 | 0024 | 9828 | 0629 | 0431 | 2233 | 2835 | 8837 | 0639 | 0411 | 251 | 4 | 4048 |
| 195 | 5 | 2 (8) | 1872 | 1674 | 1477 | 1279 | 1082 | 0884 | 0686 | 0488 | 0290 | 0093 | 9895 | 0697 | 2499 | 2301 | 9103 | 8205 | 8707 | 247 | 5 | 2 3778 |
| 181 | 8 | | 2139 | 1912 | 1744 | 1546 | 1348 | 1151 | 0953 | 0755 | 8557 | 0359 | 0161 | 2963 | 2705 | 2507 | 9368 | 0170 | 8972 | 212 | 2 | 3580 |
| 178 | 7 | | 2407 | 2202 | 2011 | 1813 | 1015 | 1417 | 1219 | 1021 | 0823 | 0825 | 0427 | 0229 | 9030 | 2832 | 9034 | 2432 | 2237 | 238 | 7 | 3237 |
| 175 | 8 | | 2674 | 2478 | 2278 | 2090 | 1992 | 1684 | 1488 | 1288 | 1089 | 8091 | 0693 | 0425 | 0220 | 0098 | 9899 | 0781 | 9502 | 233 | 8 | 2988 |
| 171 | 9 | | 2242 | 2743 | 2845 | 2347 | 2149 | 1951 | 1752 | 1554 | 1358 | 1157 | 0959 | 0760 | 0562 | 0363 | 0165 | 9226 | 9768 | 229 | 2 | 2628 |
| 169 | 10 | 9 | 3209 | 3010 | 2812 | 2614 | 2416 | 2217 | 2819 | 1820 | 1622 | 1423 | 1225 | 1022 | 0828 | 0822 | 9439 | 0232 | 8833 | 224 | 10 | 2 2429 |
| 165 | 11 | | 3476 | 3278 | 3079 | 2881 | 2682 | 2484 | 2285 | 2087 | 1808 | 1689 | 1491 | 1292 | 1093 | 0898 | 0696 | 0497 | 0228 | 220 | 11 | 2159 |
| 161 | 12 | | 3743 | 3545 | 3346 | 3148 | 2942 | 2750 | 2352 | 2353 | 2154 | 1955 | 1757 | 1558 | 1352 | 1100 | 0061 | 0762 | 0503 | 215 | 12 | 1890 |
| 158 | 13 | | 4011 | 3812 | 3613 | 3415 | 3216 | 3017 | 2818 | 2019 | 2420 | 2221 | 2923 | 1824 | 1628 | 1425 | 1226 | 1027 | 0828 | 211 | 13 | 1821 |
| 154 | 14 | | 4278 | 4079 | 3888 | 3681 | 3482 | 3284 | 3985 | 2886 | 2687 | 2497 | 2288 | 2089 | 1990 | 1691 | 1492 | 1292 | 1093 | 222 | 14 | 1351 |
| 181 | 15 | 2 | 4545 | 4346 | 1147 | 3248 | 3749 | 3550 | 3351 | 3152 | 2953 | 2753 | 2554 | 2355 | 2150 | 1956 | 1787 | 1557 | 1358 | 202 | 15 | 2 1082 |
| 148 | 16 | | 4812 | 4613 | 4411 | 4215 | 1016 | 3816 | 3617 | 3118 | 3210 | 3019 | 2828 | 2620 | 2421 | 2222 | 2822 | 1823 | 1623 | 197 | 12 | 0813 |
| 144 | 17 | | 5872 | 1880 | 4601 | 4482 | 4282 | 4083 | 3884 | 3684 | 3485 | 3285 | 3086 | 2806 | 2887 | 2487 | 2207 | 2088 | 1888 | 193 | 17 | 0514 |
| 141 | 18 | | 5346 | 5147 | 4948 | 4718 | 4549 | 4349 | 4158 | 3950 | 3751 | 3551 | 3351 | 3152 | 2952 | 2752 | 2552 | 2353 | 2153 | 108 | 12 | 0275 |
| 138 | 19 | | 5613 | 5414 | 5214 | 5015 | 4815 | 4616 | 4416 | 4210 | 4817 | 3817 | 3817 | 3417 | 3217 | 3018 | 2818 | 2210 | 2418 | 124 | 12 | 2008 |
| 134 | 20 | 2 | 5880 | 5681 | 5481 | 5281 | 8082 | 4882 | 4682 | 4482 | 4282 | 4083 | 3883 | 3683 | 3483 | 3283 | 3093 | 2883 | 2882 | 179 | 20 | 1 9737 |
| 131 | 21 | | 6147 | 5947 | 5748 | 5548 | 5348 | 5148 | 4940 | 4748 | 4648 | 4348 | 4148 | 3948 | 3740 | 3548 | 3348 | 3148 | 2947 | 175 | 21 | 9188 |
| 128 | 22 | | 8414 | 6214 | 0014 | 6814 | 5614 | 0414 | 0214 | 5014 | 4814 | 4814 | 4414 | 4214 | 4813 | 3913 | 3613 | 3412 | 3212 | 179 | 22 | 2129 |
| 124 | 23 | | 6681 | 8481 | 6281 | 8081 | 5881 | 5891 | 5480 | 5280 | 5080 | 4890 | 1879 | 4479 | 4272 | 4072 | 3870 | 3677 | 3477 | 166 | 23 | 8930 |
| 121 | 24 | | 6948 | 6748 | 6548 | 6347 | 6147 | 5947 | 5746 | 5546 | 5340 | 5145 | 4945 | 4744 | 4844 | 4343 | 4143 | 3242 | 3741 | 121 | 24 | 8681 |
| 119 | 25 | 2 | 7215 | 7014 | 6814 | 8614 | 6413 | 8213 | 2012 | 5812 | 5611 | 5411 | 6210 | 5010 | 4889 | 4600 | 4490 | 4207 | 4000 | 157 | 25 | 1 8392 |
| 114 | 26 | | 7481 | 7281 | 7881 | 8880 | 6880 | 6479 | 6278 | 6078 | 5877 | 5670 | 6476 | 5275 | 5874 | 4873 | 4873 | 4472 | 4271 | 152 | 22 | 8123 |
| 111 | 27 | | 7748 | 7548 | 7347 | 7146 | 6946 | 0745 | 2544 | 6344 | 0143 | 5942 | 5741 | 5548 | 5332 | 8132 | 4937 | 4732 | 4535 | 148 | 27 | 7004 |
| 107 | 28 | | 8815 | 7814 | 7013 | 7413 | 7212 | 7911 | 6810 | 6009 | 6488 | 0208 | 6007 | 5805 | 5804 | 8403 | 5202 | 8001 | 4800 | 143 | 28 | 7585 |
| 104 | 29 | | 8282 | 9881 | 7998 | 7679 | 7478 | 7277 | 7972 | 6875 | 6674 | 0473 | 2272 | 0071 | 8870 | 5628 | 5427 | 8266 | 8064 | 139 | 20 | 7317 |
| 101 | 39 | 0 | 0548 | 8347 | 8148 | 7945 | 7744 | 7543 | 7342 | 7141 | 6940 | 6738 | 6537 | 2336 | 6135 | 5933 | 5732 | 5530 | 5329 | 134 | 30 | 1 7048 |
| 27 | 31 | | 8815 | 8614 | 8413 | 8211 | 8010 | 7809 | 7609 | 7408 | 7205 | 7004 | 6802 | 0601 | 8409 | 6198 | 6927 | 5795 | 8593 | 130 | 31 | 6779 |
| 24 | 32 | | 9081 | 8880 | 8879 | 8478 | 8276 | 8075 | 7874 | 7672 | 7471 | 7269 | 7068 | 0866 | 0004 | 8463 | 8281 | 2060 | 6858 | 128 | 32 | 2510 |
| 21 | 33 | | 9348 | 9147 | 8915 | 8741 | 0542 | 8341 | 0139 | 7939 | 7738 | 7534 | 7333 | 7131 | 6929 | 2720 | 6822 | 2324 | 6122 | 121 | 33 | 2242 |
| 07 | 31 | | 9614 | 9413 | 9211 | 2010 | 8808 | 8607 | 9405 | 8203 | 9002 | 7008 | 7898 | 7392 | 7194 | 2992 | 2790 | 2589 | 6387 | 117 | 34 | 5973 |
| 84 | 35 | 9 | 2881 | 2679 | 9478 | 9276 | 9071 | 8872 | 0671 | 8469 | 8267 | 9065 | 7883 | 7861 | 7459 | 7257 | 7955 | 6853 | 6851 | 112 | 35 | 1 5795 |
| 81 | 36 | 0 (0) | 0147 | 2946 | 9744 | 9512 | 9340 | 9138 | 8936 | 8734 | 8532 | 8330 | 8128 | 7922 | 7724 | 7522 | 7320 | 7117 | 6915 | 108 | 38 | 5436 |
| 77 | 37 | | 2414 | 0212 | 0010 | 9888 | 9606 | 9404 | 9202 | 2000 | 8798 | 8595 | 8393 | 0191 | 7989 | 7786 | 7584 | 7382 | 7179 | 103 | 37 | 5168 |
| 74 | 38 | | 2680 | 0478 | 0272 | 9071 | 9872 | 9270 | 9480 | 9265 | 9083 | 2861 | 8688 | 8456 | 0254 | 8051 | 7849 | 7646 | 7444 | 22 | 38 | 4829 |
| 71 | 39 | | 0946 | 0744 | 0542 | 9348 | 0138 | 9936 | 9733 | 9531 | 9328 | 9126 | 8923 | 0721 | 8810 | 8310 | 8113 | 7210 | 7708 | 24 | 39 | 4631 |
| 67 | 40 | 0 (9) | 1213 | 1010 | 0808 | 0606 | 0403 | 0281 | 9996 | 9792 | 9693 | 9391 | 9188 | 8982 | 0783 | 6580 | 8379 | 8172 | 7972 | 20 | 48 | 1 4362 |
| 64 | 41 | | 1479 | 1277 | 1074 | 0072 | 9899 | 0467 | 0284 | 0861 | 9859 | 9656 | 9483 | 9280 | 9048 | 8845 | 8642 | 8439 | 6236 | 25 | 41 | 4224 |
| 60 | 42 | | 1745 | 1543 | 1349 | 1138 | 0935 | 0732 | 0529 | 0327 | 9124 | 2921 | 9718 | 9510 | 9312 | 0109 | 8906 | 0703 | 8590 | 61 | 42 | 3826 |
| 87 | 43 | | 2011 | 1802 | 1202 | 1403 | 1201 | 0998 | 9798 | 0592 | 0380 | 0188 | 9903 | 9780 | 0877 | 2374 | 2171 | 9907 | 2764 | 78 | 43 | 3557 |
| 54 | 44 | | 2278 | 2975 | 1872 | 1289 | 1468 | 1263 | 1920 | 8857 | 0854 | 0481 | 0248 | 0045 | 9841 | 2638 | 9435 | 2232 | 9028 | 72 | 44 | 3280 |
| 50 | 45 | 0 (9) | 2544 | 2341 | 2136 | 1935 | 1732 | 1529 | 1322 | 1122 | 0919 | 0716 | 0513 | 2389 | 0106 | 9903 | 2899 | 9498 | 9292 | 67 | 45 | 1 3021 |
| 47 | 46 | | 2819 | 2627 | 2494 | 2290 | 1997 | 1794 | 1591 | 1307 | 1184 | 0901 | 9777 | 0574 | 0370 | 0167 | 2963 | 2788 | 9558 | 63 | 40 | 2753 |
| 44 | 47 | | 3076 | 2873 | 2869 | 2486 | 2283 | 2089 | 1056 | 1652 | 1449 | 1248 | 1042 | 0838 | 0835 | 0431 | 0228 | 8824 | 9820 | 58 | 47 | 2484 |
| 49 | 40 | 2 | 3342 | 3139 | 2935 | 2732 | 2528 | 2325 | 2121 | 1917 | 1714 | 1810 | 1307 | 1193 | 0892 | 0695 | 0422 | 8286 | 0084 | 51 | 48 | 2218 |
| 37 | 49 | | 3688 | 3404 | 3201 | 2997 | 2794 | 2590 | 2366 | 2102 | 1979 | 1775 | 1571 | 1388 | 1164 | 0968 | 0786 | 0582 | 8348 | 42 | 49 | 1248 |
| 34 | 50 | 8 | 3874 | 3070 | 3487 | 3283 | 3959 | 2055 | 2682 | 2418 | 2244 | 2940 | 1835 | 1632 | 1428 | 1224 | 1028 | 8816 | 8812 | 45 | 58 | 1 1280 |
| 30 | 81 | | 4140 | 3938 | 3732 | 3528 | 3325 | 3121 | 2917 | 2713 | 2509 | 2385 | 2109 | 1896 | 1092 | 1468 | 1284 | 1880 | 0875 | 40 | 81 | 1412 |
| 27 | 22 | | 4408 | 4292 | 3998 | 3794 | 3590 | 3388 | 3182 | 2978 | 2774 | 2570 | 2385 | 2181 | 1957 | 1782 | 1548 | 1344 | 1132 | 36 | 52 | 1144 |
| 24 | 23 | | 4072 | 4408 | 4284 | 4889 | 3855 | 3651 | 3447 | 3243 | 3838 | 2834 | 2038 | 2425 | 2221 | 2810 | 1812 | 1607 | 1403 | 31 | 53 | 0870 |
| 20 | 54 | | 4937 | 4733 | 4529 | 4325 | 4121 | 3918 | 3712 | 3508 | 3303 | 3029 | 2894 | 2890 | 2485 | 2281 | 2070 | 1871 | 1687 | 27 | 54 | 2600 |
| 17 | 55 | 0 | 5203 | 4999 | 4798 | 4590 | 4388 | 4181 | 3977 | 3772 | 3568 | 3323 | 3159 | 2954 | 2749 | 2548 | 2340 | 2135 | 1930 | 22 | 85 | 1 0340 |
| 13 | 56 | | 5402 | 5225 | 8000 | 4858 | 4851 | 4448 | 4242 | 4037 | 3033 | 3028 | 3423 | 3218 | 3013 | 2802 | 2604 | 2399 | 2194 | 18 | 58 | 0872 |
| 10 | 57 | | 5735 | 5538 | 5326 | 5121 | 4916 | 1712 | 4587 | 4302 | 1097 | 3892 | 3088 | 3483 | 3278 | 3073 | 2868 | 2663 | 2158 | 13 | 57 | 0 2804 |
| 7 | 58 | | 6088 | 5798 | 3891 | 5386 | 5181 | 4277 | 4772 | 4867 | 1362 | 4157 | 3952 | 3747 | 3542 | 3337 | 3131 | 2928 | 2721 | 2 | 58 | 9537 |
| 3 | 59 | | 0288 | 2001 | 5856 | 5851 | 3416 | 5242 | 5037 | 4832 | 1028 | 4421 | 4218 | 4011 | 3808 | 3891 | 3325 | 3198 | 2084 | 4 | 89 | 2280 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 113° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 113° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 202 | 0′ | 8 | 7182 | 6985 | 6787 | 6590 | 6392 | 6195 | 5997 | 6709 | 5602 | 5404 | 5206 | 5088 | 4811 | 4613 | 4415 | 4217 | 4019 | 0 | 0′ | 9 0731 |
| 190 | 1 | | 7448 | 7250 | 7052 | 6855 | 6657 | 6459 | 6262 | 6064 | 5865 | 5668 | 5470 | 5272 | 5074 | 4076 | 4678 | 4400 | 4282 | 4 | 1 | 8999 |
| 195 | 2 | | 7713 | 7515 | 7317 | 7120 | 6022 | 6724 | 6526 | 6328 | 6130 | 5032 | 5734 | 5536 | 5338 | 5140 | 4042 | 4743 | 4546 | 9 | 2 | 1267 |
| 191 | 3 | | 7970 | 7790 | 7582 | 7304 | 7186 | 6980 | 6790 | 6502 | 6304 | 6196 | 6908 | 5800 | 5601 | 5403 | 5205 | 6007 | 4808 | 13 | 3 | 1534 |
| 188 | 4 | | 8243 | 8045 | 7847 | 7619 | 7461 | 7253 | 7055 | 6857 | 6658 | 6460 | 6262 | 6063 | 5865 | 5667 | 5468 | 5270 | 5071 | 10 | 4 | 1802 |
| 185 | 6 | 8 | 8500 | 8310 | 8112 | 7014 | 7716 | 7517 | 7319 | 7121 | 6022 | 6724 | 6526 | 6327 | 6129 | 5930 | 5731 | 5533 | 6334 | 22 | 6 | 9 2070 |
| 181 | 6 | | 8774 | 8675 | 8377 | 8179 | 7080 | 7782 | 7584 | 7385 | 7186 | 6088 | 6780 | 6591 | 6302 | 6193 | 5905 | 5796 | 5507 | 27 | 6 | 2337 |
| 178 | 7 | | 9039 | 0040 | 8612 | 8443 | 8245 | 8046 | 7848 | 7649 | 7450 | 7252 | 7053 | 6854 | 6656 | 6457 | 6268 | 6050 | 5860 | 31 | 7 | 2605 |
| 175 | 8 | | 9304 | 9105 | 8987 | 8708 | 8510 | 8311 | 8112 | 7013 | 7714 | 7616 | 7317 | 7118 | 6919 | 6720 | 6521 | 6322 | 6123 | 36 | 8 | 2872 |
| 171 | 9 | | 9569 | 9370 | 9172 | 8073 | 0774 | 8576 | 8376 | 8177 | 7978 | 7700 | 7581 | 7382 | 7182 | 6083 | 6784 | 6505 | 6386 | 40 | 9 | 3140 |
| 168 | 10 | 8 | 9834 | 9635 | 9136 | 9237 | 9038 | 8840 | 8640 | 8441 | 8242 | 0043 | 7844 | 7645 | 7446 | 7247 | 7047 | 6848 | 6649 | 44 | 10 | 9 3407 |
| 165 | 11 | 9 (8) | 0099 | 9900 | 0701 | 0502 | 9303 | 9104 | 8905 | 8706 | 8506 | 8307 | 0108 | 7909 | 7709 | 7510 | 7310 | 7111 | 6912 | 42 | 11 | 3676 |
| 161 | 12 | | 0364 | 0165 | 9066 | 9767 | 9567 | 9368 | 9160 | 8970 | 8770 | 8571 | 8371 | 8172 | 7073 | 7773 | 7574 | 7374 | 7174 | 53 | 12 | 3942 |
| 158 | 13 | | 0629 | 0430 | 0230 | 0031 | 9832 | 9632 | 9433 | 9234 | 9034 | 8835 | 8635 | 8436 | 8236 | 8036 | 7837 | 7637 | 7437 | 58 | 13 | 4200 |
| 155 | 14 | | 0894 | 0604 | 0495 | 0296 | 0006 | 9897 | 2697 | 2407 | 9298 | 9098 | 8809 | 8699 | 8499 | 8209 | 8100 | 7900 | 7700 | 62 | 14 | 4477 |
| 151 | 15 | 9 (8) | 1160 | 0959 | 0760 | 0560 | 0360 | 0161 | 0061 | 9761 | 9662 | 9362 | 0162 | 8962 | 8762 | 8563 | 8363 | 8163 | 7963 | 67 | 15 | 9 4744 |
| 148 | 18 | | 1424 | 1224 | 1024 | 0824 | 0625 | 8425 | 0225 | 0025 | 0895 | 9625 | 9426 | 9226 | 9026 | 8826 | 0626 | 8425 | 8225 | 71 | 16 | 5011 |
| 144 | 17 | | 1688 | 1488 | 1289 | 1089 | 0889 | 0689 | 0489 | 0289 | 0000 | 9089 | 0680 | 9480 | 9280 | 9089 | 8888 | 8608 | 8488 | 76 | 17 | 6278 |
| 141 | 18 | | 1953 | 1763 | 1553 | 1353 | 1153 | 0053 | 0753 | 0553 | 0353 | 0153 | 0952 | 9762 | 9552 | 0352 | 9151 | 8051 | 8750 | 80 | 18 | 6546 |
| 138 | 19 | | 2218 | 2018 | 1818 | 1617 | 1417 | 1217 | 1017 | 0817 | 0616 | 0416 | 0216 | 0015 | 9015 | 0615 | 9414 | 9214 | 0013 | 85 | 19 | 6813 |
| 134 | 20 | 9 (8) | 2482 | 2282 | 2082 | 1882 | 1682 | 1481 | 1201 | 1080 | 0880 | 0680 | 0479 | 0279 | 0078 | 9877 | 9677 | 0476 | 0276 | 89 | 20 | 9 6080 |
| 131 | 21 | | 2747 | 2547 | 2346 | 2146 | 1946 | 1745 | 1545 | 1344 | 1144 | 0943 | 0742 | 0542 | 0341 | 0140 | 0940 | 9739 | 0638 | 93 | 21 | 6347 |
| 128 | 22 | | 3012 | 2811 | 2611 | 2410 | 2910 | 2009 | 1809 | 1608 | 1407 | 1206 | 1006 | 0805 | 0604 | 0403 | 0202 | 0001 | 9801 | 90 | 22 | 6614 |
| 124 | 23 | 9 | 3276 | 3076 | 2875 | 2674 | 2474 | 2273 | 2072 | 1872 | 1671 | 1470 | 1260 | 1068 | 0867 | 0666 | 0465 | 0264 | 0063 | 102 | 23 | 6081 |
| 121 | 24 | | 3641 | 3340 | 3139 | 2938 | 2738 | 2537 | 2336 | 2135 | 1934 | 1733 | 1532 | 1331 | 1130 | 0929 | 0728 | 0597 | 0325 | 107 | 24 | 7140 |
| 118 | 25 | 9 | 3805 | 3604 | 3404 | 3203 | 3002 | 2001 | 2600 | 2309 | 2198 | 1097 | 1795 | 1594 | 1393 | 1192 | 0900 | 0780 | 0588 | 111 | 26 | 9 7415 |
| 114 | 26 | | 4070 | 3860 | 3668 | 3467 | 3266 | 3064 | 2863 | 9662 | 2461 | 2260 | 2058 | 1857 | 1656 | 1454 | 1253 | 1051 | 0850 | 116 | 26 | 7682 |
| 111 | 27 | | 4334 | 4133 | 3932 | 3731 | 3530 | 3328 | 3127 | 2026 | 2724 | 2523 | 2322 | 2120 | 1910 | 1717 | 1615 | 1314 | 1112 | 120 | 27 | 7949 |
| 187 | 28 | | 4500 | 4307 | 4106 | 3995 | 3703 | 3502 | 3301 | 3189 | 2988 | 2706 | 2585 | 2383 | 2181 | 1080 | 1778 | 1576 | 1375 | 125 | 28 | 8216 |
| 104 | 29 | | 4963 | 4662 | 4460 | 4259 | 4057 | 3856 | 3654 | 3463 | 3251 | 3040 | 2848 | 2646 | 2444 | 2242 | 2041 | 1830 | 1637 | 129 | 29 | 8482 |
| 101 | 30 | 9 | 6127 | 4926 | 4724 | 4523 | 4321 | 4119 | 3910 | 3716 | 3514 | 3312 | 3111 | 2900 | 2707 | 2505 | 2303 | 2101 | 1890 | 133 | 30 | 9 8749 |
| 97 | 31 | | 6302 | 6190 | 4088 | 4787 | 4585 | 4383 | 4181 | 3979 | 3778 | 3576 | 3374 | 3172 | 2070 | 2768 | 2565 | 2363 | 2161 | 138 | 31 | 9016 |
| 94 | 32 | | 5656 | 5454 | 6252 | 5051 | 4049 | 4647 | 4446 | 4213 | 4041 | 3839 | 3637 | 343[illegible] | 3232 | 3030 | 2828 | 2626 | 2423 | 142 | 39 | 9283 |
| 91 | 33 | | 6920 | 5710 | 5516 | 5314 | 5112 | 4010 | 4708 | 4506 | 4304 | 4102 | 3000 | 3697 | 3405 | 3293 | 3000 | 2888 | 2685 | 147 | 33 | 9549 |
| 87 | 34 | | 6185 | 5082 | 6780 | 6578 | 5376 | 5174 | 4972 | 4769 | 4567 | 4365 | 4162 | 3060 | 3757 | 3565 | 3353 | 3150 | 2947 | 151 | 34 | 9016 |
| 84 | 36 | 9 | 6449 | 6246 | 6044 | 5842 | 5640 | 5437 | 5235 | 5033 | 4830 | 4628 | 4425 | 4223 | 4020 | 3817 | 3615 | 3412 | 3200 | 156 | 35 | 0 0082 |
| 81 | 38 | | 6713 | 6510 | 6308 | 6106 | 5903 | 5701 | 6498 | 5296 | 5003 | 4891 | 4688 | 4405 | 4283 | 4080 | 3877 | 3674 | 3471 | 160 | 36 | 0340 |
| 77 | 37 | | 6977 | 6774 | 6572 | 6360 | 6167 | 5964 | 6762 | 5559 | 5356 | 5154 | 4051 | 4748 | 4545 | 4342 | 4130 | 3036 | 3733 | 165 | 37 | 0616 |
| 74 | 38 | | 7241 | 7038 | 6836 | 6633 | 6431 | 6228 | 6025 | 5022 | 6610 | 5416 | 5214 | 5011 | 4808 | 4605 | 4402 | 4100 | 3905 | 169 | 38 | 8089 |
| 71 | 39 | | 7505 | 7302 | 7100 | 6097 | 6694 | 6491 | 6288 | 6086 | 5882 | 5679 | 5476 | 5273 | 5070 | 4867 | 4664 | 4460 | 4257 | 174 | 39 | 1140 |
| 67 | 40 | 9 | 7769 | 7566 | 7363 | 7160 | 6957 | 6754 | 6551 | 6348 | 6145 | 5942 | 5739 | 5536 | 6332 | 6129 | 4926 | 4722 | 4519 | 178 | 40 | 0 1416 |
| 64 | 41 | | 8033 | 7030 | 7627 | 7424 | 7221 | 7018 | 6815 | 6611 | 6408 | 6205 | 6002 | 5798 | 5595 | 6391 | 5188 | 4984 | 4701 | 182 | 41 | 1601 |
| 60 | 42 | | 8297 | 8094 | 7891 | 7688 | 7484 | 7281 | 7078 | 6874 | 6671 | 6468 | 6264 | 6061 | 5857 | 6654 | 6460 | 5246 | 5043 | 187 | 42 | 1948 |
| 67 | 43 | | 0561 | 0358 | 8154 | 7951 | 7748 | 7544 | 7341 | 7137 | 6934 | 6730 | 6527 | 6323 | 6120 | 5916 | 5712 | 5508 | 5306 | 191 | 43 | 2214 |
| 54 | 44 | | 0826 | 8621 | 8418 | 0215 | 8811 | 7808 | 7604 | 7480 | 7197 | 6993 | 6789 | 6586 | 6382 | 6178 | 5974 | 5770 | 5566 | 196 | 44 | 2480 |
| 50 | 45 | 9 | 9089 | 8886 | 8602 | 8478 | 8274 | 8071 | 7867 | 7663 | 7459 | 7266 | 7052 | 6848 | 6644 | 6440 | 6236 | 6032 | 5820 | 208 | 45 | 0 2747 |
| 47 | 46 | | 9352 | 9149 | 8945 | 8741 | 8538 | 8334 | 8130 | 7926 | 7722 | 7618 | 7314 | 7110 | 6906 | 6702 | 6498 | 6294 | 6090 | 205 | 46 | 3013 |
| 44 | 47 | | 2616 | 9412 | 9209 | 9005 | 8801 | 8597 | 8303 | 8189 | 7985 | 7781 | 7677 | 7373 | 7168 | 6964 | 6760 | 6556 | 6351 | 209 | 47 | 3279 |
| 48 | 48 | | 9880 | 5676 | 9472 | 9268 | 9064 | 8860 | 0656 | 8452 | 8240 | 8043 | 7839 | 7636 | 7431 | 7926 | 7022 | 6017 | 6613 | 214 | 48 | 3645 |
| 37 | 49 | 0 (9) | 0144 | 0940 | 9736 | 9531 | 9397 | 9193 | 8019 | 8714 | 8510 | 8306 | 8181 | 7897 | 7693 | 7488 | 7984 | 7079 | 6874 | 210 | 49 | 3811 |
| 34 | 58 | 0 (9) | 8408 | 0203 | 9999 | 9795 | 9590 | 9386 | 9182 | 8977 | 8773 | 8568 | 8364 | 8159 | 7955 | 7750 | 7545 | 7341 | 7136 | 222 | 60 | 0 4078 |
| 30 | 61 | | 0671 | 0467 | 0263 | 0058 | 9854 | 9649 | 9444 | 9240 | 9035 | 0831 | 8626 | 8421 | 8217 | 8012 | 7807 | 7602 | 7307 | 227 | 51 | 4344 |
| 27 | 59 | | 0935 | 0738 | 0626 | 0321 | 0117 | 9912 | 9707 | 9502 | 9298 | 9093 | 8888 | 8684 | 8479 | 8274 | 8069 | 7864 | 7659 | 231 | 62 | 4610 |
| 94 | 63 | | 1198 | 0994 | 0789 | 0684 | 0380 | 8176 | 9970 | 9765 | 9560 | 9356 | 9151 | 8946 | 8741 | 8536 | 8331 | 8125 | 7920 | 236 | 53 | 4876 |
| 28 | 64 | | 1462 | 1257 | 1852 | 0847 | 0643 | 0438 | 8233 | 0098 | 9823 | 2618 | 9413 | 9208 | 9003 | 9797 | 8592 | 8387 | 8182 | 241 | 54 | 6142 |
| 17 | 65 | 0 (9) | 1725 | 1520 | 1316 | 1111 | 0906 | 0701 | 0496 | 0291 | 8085 | 9880 | 9675 | 9470 | 9264 | 9069 | 8854 | 8649 | 8443 | 246 | 65 | 0 5408 |
| 13 | 56 | | 1989 | 1784 | 1679 | 1374 | 1169 | 0963 | 0768 | 0553 | 0340 | 0143 | 9937 | 9732 | 9526 | 9321 | 9115 | 8010 | 8704 | 249 | 56 | 5673 |
| 10 | 57 | | 2252 | 2047 | 1842 | 1637 | 1431 | 1226 | 1021 | 0916 | 0613 | 0405 | 0199 | 9994 | 9788 | 9683 | 9377 | 9171 | 8966 | 254 | 67 | 5939 |
| 7 | 58 | | 2516 | 2310 | 2105 | 1900 | 1694 | 1489 | 1283 | 1078 | 0872 | 0667 | 0461 | 0256 | 8050 | 9844 | 9639 | 9433 | 9227 | 250 | 58 | 5205 |
| 3 | 59 | | 2779 | 2574 | 9368 | 2163 | 1957 | 1752 | 1546 | 1340 | 1135 | 0999 | 0723 | 0518 | 0312 | 0106 | 9900 | 9694 | 9488 | 263 | 59 | 6471 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 114° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 114° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 209 | 0' | 0 | 6532 | 6327 | 6192 | 5917 | 5712 | 5506 | 5301 | 5096 | 4891 | 4686 | 1180 | 4975 | 4070 | 3864 | 3659 | 3453 | 3240 | 267 | 0' | 0 9061 |
| 206 | 1 | | 6797 | 6592 | 6387 | 6182 | 5977 | 5771 | 5566 | 5361 | 5155 | 4950 | 4745 | 4539 | 4334 | 4128 | 3923 | 3717 | 3511 | 263 | 1 | 8733 |
| 202 | 2 | | 7063 | 6858 | 6652 | 6447 | 6242 | 6036 | 5831 | 5625 | 5420 | 5214 | 5009 | 4803 | 4598 | 4392 | 4186 | 3981 | 3775 | 258 | 2 | 8466 |
| 199 | 3 | | 7328 | 7123 | 6918 | 6712 | 6507 | 6301 | 6096 | 5890 | 5684 | 5179 | 5273 | 5067 | 4862 | 4656 | 4450 | 4244 | 4038 | 254 | 3 | 8198 |
| 196 | 4 | | 7594 | 7388 | 7183 | 6977 | 6772 | 6566 | 6360 | 6155 | 5949 | 5743 | 5537 | 5331 | 5125 | 4920 | 4714 | 4508 | 4309 | 249 | 4 | 7930 |
| 192 | 5 | 0 | 7859 | 7654 | 7448 | 7942 | 7036 | 6831 | 6625 | 6419 | 6213 | 6007 | 5801 | 5595 | 5389 | 5183 | 5977 | 4771 | 4565 | 245 | 5 | 0 7663 |
| 189 | 6 | | 8125 | 7919 | 7713 | 7607 | 7301 | 7095 | 6890 | 6684 | 6478 | 6271 | 6065 | 5859 | 5653 | 5447 | 5241 | 5034 | 4828 | 240 | 6 | 7395 |
| 185 | 7 | | 8390 | 8184 | 7978 | 7772 | 7566 | 7360 | 7154 | 6948 | 6742 | 6536 | 6329 | 6123 | 5917 | 5711 | 5504 | 5298 | 5091 | 236 | 7 | 7128 |
| 182 | 8 | | 8665 | 8449 | 8243 | 8037 | 7831 | 7625 | 7419 | 7212 | 7006 | 6800 | 6593 | 6387 | 6181 | 5974 | 5768 | 5561 | 5355 | 231 | 8 | 6860 |
| 178 | 9 | | 8991 | 8715 | 8508 | 8302 | 8096 | 7890 | 7683 | 7477 | 7270 | 7064 | 6857 | 6651 | 6444 | 6238 | 6031 | 5824 | 5618 | 227 | 9 | 6593 |
| 175 | 10 | 0 | 9186 | 8980 | 8773 | 8567 | 8361 | 8154 | 7948 | 7741 | 7535 | 7328 | 7121 | 6915 | 6708 | 6501 | 6294 | 6088 | 5881 | 222 | 10 | 0 6325 |
| 171 | 11 | | 9451 | 9215 | 9038 | 8839 | 8625 | 8419 | 8219 | 8005 | 7799 | 7599 | 7385 | 7178 | 6972 | 6765 | 6558 | 6351 | 6144 | 218 | 11 | 6058 |
| 168 | 12 | | 9717 | 9510 | 9303 | 9097 | 8890 | 8683 | 8476 | 8270 | 8063 | 7856 | 7649 | 7442 | 7235 | 7028 | 6891 | 6614 | 6407 | 214 | 12 | 5791 |
| 164 | 13 | | 9982 | 9775 | 9568 | 9361 | 9155 | 8948 | 8741 | 8534 | 8327 | 8120 | 7913 | 7706 | 7499 | 7992 | 7085 | 6877 | 6670 | 209 | 13 | 5523 |
| 161 | 11 | 1 (0) | 0947 | 0040 | 9833 | 9626 | 9419 | 9212 | 9005 | 8798 | 8591 | 8384 | 8177 | 7970 | 7762 | 7555 | 7348 | 7140 | 6933 | 205 | 14 | 5256 |
| 157 | 15 | 1 (0) | 0512 | 0305 | 0098 | 9891 | 9684 | 9477 | 9270 | 9062 | 8855 | 8648 | 8441 | 8233 | 8026 | 7818 | 7611 | 7403 | 7196 | 200 | 15 | 0 4989 |
| 154 | 16 | | 0777 | 0570 | 0363 | 0156 | 9948 | 9741 | 9534 | 9326 | 9119 | 8912 | 8704 | 8197 | 8289 | 8082 | 7874 | 7667 | 7459 | 196 | 16 | 4722 |
| 150 | 17 | | 1042 | 0835 | 0628 | 0420 | 0213 | 0005 | 9798 | 9591 | 9383 | 9176 | 8968 | 8760 | 8553 | 8345 | 8137 | 7930 | 7799 | 191 | 17 | 4454 |
| 147 | 18 | | 1307 | 1100 | 0892 | 0685 | 0477 | 0270 | 0062 | 9855 | 9647 | 9439 | 9232 | 9021 | 8816 | 8608 | 8401 | 8193 | 7985 | 187 | 18 | 4187 |
| 143 | 19 | | 1572 | 1365 | 1157 | 0949 | 0742 | 0534 | 0326 | 0119 | 9911 | 9703 | 9495 | 9287 | 9079 | 8872 | 8664 | 8456 | 8248 | 182 | 19 | 3920 |
| 140 | 20 | 1 (0) | 1837 | 1699 | 1422 | 1214 | 1006 | 0798 | 0591 | 0303 | 0175 | 9967 | 9759 | 2551 | 9343 | 9135 | 8927 | 8719 | 8510 | 178 | 26 | 0 3653 |
| 136 | 91 | | 2102 | 1894 | 1686 | 1478 | 1270 | 1063 | 0855 | 0647 | 0439 | 0231 | 0022 | 9814 | 9606 | 9398 | 9190 | 8981 | 8773 | 174 | 21 | 3386 |
| 133 | 22 | | 2367 | 2159 | 1951 | 1743 | 1535 | 1327 | 1119 | 0911 | 0702 | 0494 | 0286 | 0078 | 9869 | 9661 | 9453 | 9244 | 9036 | 169 | 22 | 3112 |
| 129 | 23 | | 9632 | 2123 | 2215 | 2007 | 1799 | 1591 | 1383 | 1174 | 0966 | 0758 | 0549 | 0341 | 0133 | 9924 | 9716 | 9507 | 9298 | 165 | 23 | 2852 |
| 126 | 24 | | 2896 | 2688 | 2480 | 2272 | 2063 | 1855 | 1647 | 1438 | 1230 | 1021 | 0813 | 0604 | 0396 | 0187 | 9979 | 9770 | 9561 | 160 | 24 | 2585 |
| 122 | 25 | 1 (0) | 3161 | 2953 | 2744 | 2536 | 2328 | 2119 | 1911 | 1709 | 1493 | 1285 | 1076 | 0868 | 0659 | 0450 | 0241 | 0033 | 9824 | 156 | 25 | 0 2318 |
| 119 | 26 | 1 | 3426 | 3217 | 3009 | 2800 | 2592 | 2383 | 2175 | 1966 | 1757 | 1548 | 1340 | 1131 | 0922 | 0713 | 0504 | 0295 | 0086 | 151 | 26 | 2051 |
| 115 | 27 | | 3691 | 3482 | 3973 | 3065 | 2856 | 9647 | 2438 | 9230 | 2021 | 1812 | 1603 | 1394 | 1185 | 0976 | 0767 | 0558 | 0349 | 147 | 27 | 1785 |
| 112 | 28 | | 3955 | 3746 | 3538 | 3329 | 3120 | 2911 | 2702 | 2493 | 2284 | 2075 | 1866 | 1657 | 1448 | 1239 | 1030 | 0821 | 0611 | 142 | 28 | 1518 |
| 108 | 29 | | 4220 | 4011 | 3802 | 3593 | 3384 | 3175 | 2966 | 2757 | 2548 | 2339 | 2130 | 1920 | 1711 | 1502 | 1293 | 1083 | 6874 | 138 | 29 | 1251 |
| 105 | 30 | 1 | 4484 | 4975 | 4066 | 3857 | 3648 | 3439 | 3230 | 3021 | 2811 | 9602 | 9393 | 9184 | 1974 | 1765 | 1565 | 1346 | 1136 | 133 | 36 | 0 0984 |
| 101 | 31 | | 4749 | 4540 | 4331 | 4121 | 3912 | 3703 | 3494 | 3984 | 3075 | 9866 | 2656 | 2447 | 2237 | 2028 | 1818 | 1608 | 1399 | 129 | 31 | 0717 |
| 98 | 32 | | 5013 | 4804 | 4595 | 4386 | 4176 | 3967 | 3757 | 3548 | 3338 | 3129 | 2919 | 2710 | 2500 | 2290 | 2081 | 1871 | 1661 | 195 | 32 | 0451 |
| 94 | 33 | | 5278 | 5068 | 4859 | 4650 | 4440 | 4231 | 4021 | 3811 | 3609 | 3329 | 3182 | 2973 | 2763 | 2653 | 2343 | 9133 | 1923 | 120 | 33 | 0184 |
| 91 | 34 | | 5542 | 5333 | 5123 | 4914 | 4704 | 4494 | 4285 | 4075 | 3865 | 3655 | 3445 | 3236 | 3096 | 2816 | 2606 | 2396 | 2106 | 116 | 34 | 9 9910 |
| 87 | 35 | 1 | 5807 | 5597 | 5387 | 5170 | 4968 | 4758 | 4548 | 4338 | 4129 | 3919 | 3709 | 3499 | 3289 | 3070 | 2868 | 2658 | 2448 | 111 | 35 | 9 9651 |
| 84 | 36 | | 6071 | 5861 | 5651 | 5442 | 5232 | 5022 | 4812 | 4602 | 4392 | 4189 | 3972 | 3761 | 3551 | 3341 | 3131 | 2921 | 2710 | 107 | 36 | 9304 |
| 80 | 37 | | 6335 | 6125 | 5916 | 5706 | 5496 | 5985 | 5075 | 4865 | 4655 | 4446 | 4235 | 4024 | 3814 | 3604 | 3393 | 3183 | 2972 | 102 | 37 | 9118 |
| 77 | 38 | | 6600 | 6390 | 6180 | 5969 | 5759 | 5549 | 5339 | 5129 | 4918 | 4708 | 4498 | 4287 | 4077 | 3866 | 3656 | 3445 | 3235 | 98 | 38 | 8851 |
| 73 | 39 | | 6864 | 6654 | 6444 | 6233 | 6023 | 5813 | 5602 | 5392 | 5101 | 4971 | 4761 | 4550 | 4339 | 4129 | 3918 | 3707 | 3497 | 93 | 39 | 8585 |
| 70 | 40 | 1 | 7128 | 6918 | 6708 | 6497 | 6987 | 6076 | 5866 | 5655 | 5445 | 5234 | 5023 | 4813 | 4602 | 4391 | 4181 | 3970 | 3759 | 89 | 40 | 9 8319 |
| 66 | 41 | | 7399 | 7102 | 6971 | 6761 | 6550 | 6340 | 6129 | 5918 | 5708 | 5497 | 5206 | 5076 | 4065 | 4654 | 4443 | 4232 | 4021 | 85 | 41 | 8052 |
| 63 | 49 | | 7657 | 7446 | 7235 | 7025 | 6814 | 6603 | 6392 | 6182 | 5971 | 5760 | 5549 | 5338 | 5127 | 4916 | 4705 | 4494 | 4983 | 80 | 49 | 7786 |
| 59 | 43 | | 7921 | 7710 | 7492 | 7288 | 7078 | 6067 | 6656 | 6445 | 6234 | 6023 | 5812 | 5601 | 5390 | 5179 | 4967 | 4756 | 4545 | 76 | 43 | 7520 |
| 56 | 44 | | 8185 | 7974 | 7763 | 7652 | 7341 | 7130 | 6919 | 6708 | 6497 | 6286 | 6075 | 5863 | 5652 | 5441 | 5230 | 5018 | 4807 | 71 | 44 | 7253 |
| 52 | 45 | 1 | 8449 | 8938 | 8027 | 7816 | 7605 | 7394 | 7182 | 6971 | 6760 | 6519 | 6337 | 6126 | 5915 | 5703 | 5499 | 5280 | 5069 | 67 | 45 | 9 6987 |
| 49 | 46 | | 8713 | 8502 | 8291 | 8079 | 7868 | 7657 | 7446 | 7234 | 7023 | 6811 | 6600 | 6389 | 6177 | 5966 | 5754 | 5542 | 5331 | 62 | 46 | 6721 |
| 45 | 47 | | 8977 | 8766 | 8554 | 8343 | 8132 | 7920 | 7709 | 7497 | 7286 | 7074 | 6863 | 6651 | 6439 | 6228 | 6016 | 5804 | 5592 | 58 | 47 | 6455 |
| 42 | 48 | | 9941 | 9029 | 8818 | 8607 | 8395 | 8184 | 7972 | 7760 | 7549 | 7337 | 7125 | 6914 | 6702 | 6490 | 6278 | 6066 | 5854 | 63 | 48 | 6189 |
| 38 | 42 | | 9505 | 9293 | 9682 | 8876 | 8658 | 8447 | 8235 | 8023 | 7812 | 7600 | 7388 | 7176 | 6964 | 6752 | 6540 | 6328 | 6116 | 49 | 49 | 5929 |
| 35 | 50 | 1 | 9769 | 9557 | 2345 | 9134 | 8922 | 8710 | 8428 | 8286 | 8074 | 7862 | 7650 | 7438 | 7226 | 7014 | 6809 | 6590 | 6378 | 44 | 50 | 9 5656 |
| 31 | 51 | 2 (1) | 0039 | 9821 | 9609 | 9397 | 9185 | 8973 | 8761 | 8549 | 8337 | 8125 | 7913 | 7701 | 7489 | 7276 | 7064 | 6852 | 6640 | 40 | 61 | 5390 |
| 28 | 59 | | 0296 | 0084 | 2872 | 2660 | 9418 | 9236 | 9024 | 8819 | 8600 | 8388 | 8175 | 7963 | 7751 | 7538 | 7396 | 7114 | 6901 | 36 | 52 | 5124 |
| 24 | 53 | | 0560 | 0348 | 0136 | 9924 | 2712 | 9499 | 9287 | 9075 | 8863 | 8650 | 8438 | 8225 | 8013 | 7801 | 7588 | 7376 | 7163 | 31 | 63 | 4858 |
| 21 | 54 | | 0824 | 0612 | 0399 | 0187 | 9275 | 9762 | 9550 | 9338 | 9125 | 8913 | 8700 | 8488 | 8275 | 8663 | 7850 | 7637 | 7425 | 27 | 54 | 4592 |
| 17 | 55 | 2 (1) | 1067 | 0875 | 0663 | 0450 | 0238 | 0625 | 9813 | 9660 | 9388 | 9175 | 8263 | 8750 | 8537 | 8325 | 8112 | 7899 | 7686 | 22 | 55 | 9 4327 |
| 14 | 56 | | 1351 | 1139 | 0926 | 0714 | 0501 | 0288 | 0076 | 9863 | 9650 | 9138 | 9225 | 9012 | 8799 | 8586 | 8374 | 8161 | 7948 | 18 | 56 | 4061 |
| 11 | 57 | | 1615 | 1402 | 1189 | 0977 | 0764 | 0551 | 0339 | 0126 | 9913 | 9700 | 9487 | 9274 | 9061 | 8848 | 8635 | 8422 | 8262 | 13 | 57 | 3795 |
| 7 | 58 | | 1878 | 1666 | 1453 | 1240 | 1097 | 0814 | 0601 | 0389 | 0176 | 9963 | 9750 | 9536 | 2323 | 9110 | 8897 | 8684 | 8471 | 9 | 58 | 3599 |
| 4 | 59 | | 2142 | 1929 | 1716 | 1503 | 1290 | 1077 | 0864 | 6651 | 0438 | 0225 | 0012 | 9799 | 2585 | 9372 | 9159 | 8945 | 8732 | 4 | 59 | 3263 |

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**Tabla X.** Número I para la suma de alturas aparentes
y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 114° | | 17′ | 10′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 32′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | |
| 212 | 0′ | 0 (9) | 3042 | 2837 | 2631 | 2426 | 2220 | 2014 | 1809 | 1603 | 1397 | 1121 | 0985 | 0779 | 0573 | 0367 | 0151 | 9955 | 9749 |
| 207 | 1 | 0 | 3306 | 3100 | 2094 | 2689 | 2463 | 2277 | 2071 | 1665 | 1559 | 1453 | 1247 | 1041 | 0835 | 0629 | 0423 | 0217 | 0010 |
| 203 | 2 | | 3569 | 3363 | 3157 | 2251 | 2745 | 2539 | 2334 | 2128 | 1921 | 1715 | 1509 | 1303 | 1097 | 0891 | 0681 | 0478 | 0272 |
| 208 | 3 | | 3832 | 3626 | 3420 | 3214 | 3008 | 2602 | 2596 | 2390 | 2184 | 1277 | 1771 | 1555 | 1358 | 1152 | 0946 | 0732 | 0533 |
| 125 | 4 | | 4896 | 3889 | 3603 | 3477 | 3271 | 3065 | 2858 | 2652 | 2445 | 2239 | 2033 | 1627 | 1620 | 1413 | 1207 | 1060 | 0794 |
| 193 | 5 | 2 | 4352 | 4152 | 3946 | 3740 | 3534 | 3327 | 3121 | 2914 | 2708 | 2501 | 2295 | 2088 | 1882 | 1675 | 1458 | 1262 | 1055 |
| 182 | 6 | | 4622 | 4415 | 4209 | 4003 | 3725 | 3520 | 3383 | 3176 | 2270 | 2753 | 2557 | 2350 | 2143 | 1236 | 1729 | 1523 | 1315 |
| 186 | 7 | | 4885 | 4678 | 4472 | 4265 | 4059 | 3852 | 3645 | 3139 | 3232 | 3025 | 2818 | 2612 | 2605 | 2198 | 1991 | 1784 | 1577 |
| 182 | 8 | | 5148 | 4911 | 4735 | 4528 | 4321 | 4114 | 3908 | 3701 | 3494 | 3287 | 3080 | 2873 | 2665 | 2459 | 2252 | 2045 | 1838 |
| 172 | 9 | | 5411 | 5204 | 4997 | 4721 | 4584 | 4377 | 4170 | 3963 | 3756 | 3549 | 3342 | 3135 | 2927 | 2720 | 2513 | 2366 | 2029 |
| 175 | 10 | 0 | 5574 | 5457 | 5260 | 5053 | 4846 | 4639 | 4432 | 4225 | 4018 | 3811 | 3603 | 3396 | 3189 | 2982 | 2774 | 2567 | 2359 |
| 172 | 11 | | 5937 | 5730 | 5523 | 5316 | 5109 | 4901 | 4694 | 4187 | 4280 | 4072 | 3865 | 3668 | 3450 | 3243 | 3035 | 2828 | 2520 |
| 168 | 12 | | 5280 | 5293 | 5785 | 5578 | 5371 | 5164 | 4956 | 4749 | 4542 | 4334 | 4127 | 3919 | 3712 | 3504 | 3296 | 3089 | 2881 |
| 165 | 13 | | 6463 | 6255 | 6048 | 5841 | 5633 | 5426 | 5218 | 5011 | 4803 | 4595 | 4388 | 4181 | 3973 | 3765 | 3557 | 3350 | 3142 |
| 161 | 14 | | 6725 | 6510 | 6311 | 6103 | 5895 | 5688 | 5460 | 5273 | 5065 | 4857 | 4650 | 4442 | 4234 | 4026 | 3818 | 3610 | 3403 |
| 158 | 15 | 0 | 6989 | 6761 | 6573 | 6366 | 5158 | 5950 | 5742 | 5535 | 5327 | 5119 | 4911 | 4763 | 4495 | 4287 | 4079 | 3871 | 3663 |
| 154 | 15 | | 7251 | 7044 | 6836 | 6628 | 6420 | 5212 | 6004 | 5797 | 5589 | 5381 | 5173 | 4955 | 4757 | 4548 | 4340 | 4132 | 3924 |
| 151 | 17 | | 7514 | 7366 | 7096 | 6090 | 6682 | 5474 | 6266 | 6058 | 5850 | 5542 | 5434 | 5225 | 5018 | 4809 | 4601 | 4393 | 4184 |
| 147 | 18 | | 7777 | 7562 | 7361 | 7153 | 5945 | 6737 | 6528 | 6320 | 6112 | 5904 | 5525 | 5487 | 5279 | 5070 | 4862 | 4654 | 4445 |
| 144 | 19 | | 8039 | 7031 | 7623 | 7415 | 7267 | 5999 | 6790 | 6582 | 5374 | 6165 | 5957 | 5748 | 5540 | 5331 | 5123 | 4914 | 4706 |
| 140 | 20 | 6 | 2302 | 8094 | 7886 | 7677 | 7469 | 7261 | 7052 | 6844 | 5635 | 6427 | 6218 | 6010 | 5801 | 5592 | 5384 | 5175 | 4966 |
| 137 | 21 | | 0565 | 8356 | 8148 | 7939 | 7731 | 7523 | 7314 | 7105 | 6897 | 6688 | 5479 | 6271 | 6062 | 5853 | 5644 | 5435 | 5227 |
| 133 | 22 | | 6827 | 8619 | 8410 | 8202 | 7993 | 7784 | 7575 | 7367 | 7158 | 5949 | 6740 | 6332 | 6323 | 5114 | 5905 | 5696 | 5467 |
| 130 | 23 | | 9089 | 8881 | 8573 | 8464 | 8255 | 8046 | 7837 | 7529 | 7420 | 7211 | 7002 | 5793 | 6584 | 6375 | 6166 | 5957 | 5747 |
| 125 | 24 | | 9352 | 9144 | 8935 | 8726 | 8517 | 8306 | 8099 | 7890 | 7661 | 7472 | 7263 | 7054 | 6845 | 6636 | 6426 | 6217 | 6008 |
| 123 | 25 | 2 | 9615 | 9406 | 9197 | 8988 | 8779 | 8570 | 8361 | 8152 | 7943 | 7733 | 7524 | 7315 | 7106 | 6896 | 6687 | 5478 | 6268 |
| 119 | 26 | | 9877 | 9568 | 9152 | 9250 | 9041 | 8832 | 8623 | 8413 | 8204 | 7995 | 7785 | 7576 | 7366 | 7157 | 6947 | 6738 | 6528 |
| 116 | 27 | 1 (0) | 2140 | 9931 | 9721 | 9512 | 9303 | 9094 | 8884 | 6675 | 8465 | 8256 | 8646 | 7837 | 7627 | 7418 | 7208 | 6998 | 6789 |
| 112 | 20 | | 8402 | 0193 | 9983 | 2774 | 9565 | 9355 | 2146 | 8936 | 8727 | 8517 | 8307 | 8098 | 7888 | 7678 | 7469 | 7259 | 7049 |
| 102 | 29 | | 6664 | 0455 | 0245 | 0036 | 9826 | 9617 | 9407 | 9198 | 8986 | 8778 | 8568 | 8359 | 8149 | 7939 | 7729 | 7519 | 7309 |
| 105 | 30 | 1 (0) | 0227 | 6717 | 6508 | 0298 | 0088 | 9879 | 9669 | 9459 | 9249 | 9032 | 8829 | 8619 | 8409 | 8192 | 7989 | 7779 | 7569 |
| 102 | 31 | | 1189 | 0279 | 0770 | 0550 | 0350 | 0140 | 9930 | 9720 | 9510 | 9300 | 9090 | 6880 | 8670 | 8460 | 8250 | 6040 | 7829 |
| 98 | 32 | | 1451 | 1241 | 1032 | 0822 | 0512 | 0402 | 0192 | 9982 | 9771 | 9561 | 9351 | 9141 | 8931 | 8721 | 8510 | 8300 | 8090 |
| 96 | 33 | | 1713 | 1504 | 1294 | 1083 | 6873 | 0663 | 0453 | 0243 | 0032 | 9822 | 9612 | 9402 | 9191 | 8981 | 8771 | 8550 | 8350 |
| 21 | 34 | | 1275 | 1766 | 1555 | 1345 | 1135 | 0925 | 0714 | 0504 | 0294 | 0083 | 9873 | 9662 | 9452 | 9241 | 9031 | 8826 | 8610 |
| 88 | 35 | 1 (0) | 2238 | 2028 | 1817 | 1607 | 1397 | 1186 | 0976 | 0755 | 0555 | 0344 | 0134 | 9923 | 9712 | 9502 | 9291 | 9080 | 6870 |
| 84 | 36 | | 2500 | 2290 | 2079 | 1869 | 1658 | 1448 | 1237 | 1025 | 0816 | 0505 | 6394 | 0184 | 9973 | 9762 | 9551 | 9341 | 9130 |
| 81 | 37 | | 2762 | 2551 | 2341 | 2130 | 1920 | 1709 | 1498 | 1288 | 1077 | 0866 | 0655 | 0444 | 0233 | 0022 | 9812 | 9601 | 9390 |
| 77 | 30 | | 3024 | 2813 | 2603 | 2392 | 2181 | 1976 | 1760 | 1549 | 1338 | 1127 | 0916 | 6705 | 0494 | 0283 | 0072 | 9861 | 9649 |
| 74 | 32 | | 3286 | 3075 | 2064 | 2654 | 2443 | 2232 | 2021 | 1810 | 1599 | 1388 | 1177 | 0965 | 0754 | 0543 | 0332 | 6121 | 9909 |
| 70 | 40 | 1 | 3540 | 3337 | 3126 | 2915 | 2704 | 2493 | 2282 | 2071 | 1860 | 1648 | 1437 | 1226 | 1615 | 2803 | 0592 | 6301 | 0169 |
| 67 | 41 | | 3810 | 3592 | 3308 | 3177 | 2955 | 2754 | 2543 | 2332 | 2120 | 1909 | 1698 | 1486 | 1275 | 1064 | 0852 | 0540 | 2429 |
| 63 | 42 | | 4072 | 3861 | 3642 | 3430 | 3227 | 3615 | 2806 | 2593 | 2381 | 2170 | 1958 | 1747 | 1535 | 1324 | 1112 | 0900 | 0589 |
| 60 | 43 | | 4334 | 4122 | 3911 | 3700 | 3488 | 3277 | 3065 | 2854 | 2642 | 2430 | 2219 | 2007 | 1796 | 1581 | 1372 | 1160 | 0248 |
| 56 | 44 | | 4525 | 4364 | 4172 | 3261 | 3749 | 3538 | 3325 | 3115 | 2903 | 2691 | 2479 | 2268 | 2056 | 1844 | 1632 | 1420 | 1208 |
| 53 | 45 | 1 | 4857 | 4646 | 4434 | 4222 | 4611 | 3799 | 3587 | 3375 | 3164 | 2952 | 2740 | 2528 | 2316 | 2104 | 1892 | 1680 | 1468 |
| 49 | 46 | | 5119 | 4907 | 4626 | 4484 | 4272 | 4050 | 3848 | 3636 | 3424 | 3212 | 3600 | 2788 | 2576 | 2364 | 2152 | 1940 | 1727 |
| 46 | 47 | | 6381 | 5169 | 4957 | 4745 | 4533 | 4321 | 4162 | 3897 | 3685 | 3173 | 3261 | 3048 | 2836 | 2621 | 2412 | 2199 | 1987 |
| 42 | 42 | | 5642 | 5436 | 5218 | 5066 | 4794 | 4582 | 4378 | 4168 | 3946 | 3733 | 3521 | 3309 | 3096 | 2884 | 2671 | 2459 | 2247 |
| 39 | 42 | | 5904 | 5622 | 5466 | 5268 | 5065 | 4843 | 4631 | 4412 | 4266 | 3294 | 3781 | 3562 | 3356 | 3144 | 2931 | 2719 | 2505 |
| 35 | 50 | 1 | 6166 | 5953 | 5741 | 5529 | 5316 | 5104 | 4892 | 4679 | 4467 | 4254 | 4042 | 3822 | 3615 | 3404 | 3191 | 2976 | 2765 |
| 32 | 51 | | 6427 | 6215 | 6002 | 5790 | 5577 | 5365 | 6152 | 4942 | 4727 | 4514 | 4302 | 4082 | 3875 | 3663 | 3451 | 3238 | 3025 |
| 28 | 62 | | 6689 | 6476 | 6264 | 6051 | 5836 | 5625 | 5413 | 5260 | 4988 | 4775 | 4562 | 4349 | 4136 | 3923 | 3710 | 3497 | 3284 |
| 25 | 53 | | 6950 | 5738 | 6525 | 6312 | 5099 | 5887 | 6674 | 5461 | 5248 | 5635 | 4822 | 4669 | 4395 | 4183 | 3970 | 3757 | 3544 |
| 21 | 54 | | 7212 | 6999 | 6786 | 6573 | 6360 | 6147 | 5934 | 6722 | 5566 | 5295 | 5022 | 4059 | 4656 | 4443 | 4230 | 4016 | 3803 |
| 18 | 55 | 1 | 7473 | 7260 | 7047 | 6834 | 6621 | 6408 | 6195 | 5982 | 5769 | 5656 | 5342 | 5129 | 4916 | 4702 | 4489 | 4276 | 4062 |
| 14 | 56 | | 7735 | 7522 | 7306 | 7625 | 5882 | 6669 | 6466 | 6242 | 6029 | 5816 | 5602 | 5369 | 5176 | 4962 | 4749 | 4535 | 4321 |
| 11 | 57 | | 7996 | 7783 | 7570 | 7356 | 7143 | 6936 | 6716 | 6503 | 6269 | 6676 | 5862 | 5649 | 5435 | 5222 | 5068 | 4794 | 4581 |
| 7 | 58 | | 2257 | 8044 | 7631 | 7517 | 7404 | 7190 | 6977 | 6763 | 6550 | 6336 | 6122 | 5969 | 5695 | 5481 | 5268 | 5054 | 4848 |
| 4 | 52 | | 2519 | 8305 | 8092 | 7878 | 7665 | 7451 | 7237 | 7024 | 6610 | 6596 | 6382 | 6169 | 5255 | 5741 | 5527 | 5313 | 5099 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 114° | Núm. | |
|---|---|---|---|
| 0 | 0′ | 0 | 6737 |
| 4 | 1 | | 7002 |
| 9 | 2 | | 7268 |
| 13 | 3 | | 7534 |
| 18 | 4 | | 7799 |
| 22 | 5 | 2 | 0065 |
| 26 | 6 | | 8330 |
| 31 | 7 | | 8526 |
| 35 | 6 | | 8861 |
| 40 | 9 | | 9127 |
| 44 | 10 | 0 | 9392 |
| 49 | 11 | | 9658 |
| 53 | 12 | | 9923 |
| 67 | 13 | 1 | 0188 |
| 62 | 14 | | 0454 |
| 66 | 15 | 1 | 0719 |
| 71 | 16 | | 0984 |
| 76 | 17 | | 1249 |
| 79 | 18 | | 1514 |
| 84 | 19 | | 1779 |
| 88 | 26 | 1 | 2045 |
| 93 | 21 | | 2310 |
| 97 | 22 | | 2575 |
| 162 | 23 | | 2840 |
| 106 | 24 | | 3104 |
| 116 | 25 | 1 | 3359 |
| 115 | 26 | | 3634 |
| 119 | 27 | | 3899 |
| 124 | 28 | | 4164 |
| 126 | 29 | | 4429 |
| 132 | 30 | 1 | 4593 |
| 137 | 31 | | 4958 |
| 141 | 32 | | 5223 |
| 145 | 33 | | 5487 |
| 150 | 34 | | 5752 |
| 155 | 35 | 1 | 6015 |
| 159 | 36 | | 6281 |
| 163 | 37 | | 6545 |
| 168 | 38 | | 6810 |
| 172 | 39 | | 7074 |
| 177 | 42 | 1 | 7338 |
| 181 | 41 | | 7603 |
| 185 | 42 | | 7867 |
| 190 | 43 | | 8131 |
| 194 | 44 | | 2396 |
| 199 | 45 | 1 | 8660 |
| 203 | 45 | | 8924 |
| 208 | 47 | | 2188 |
| 212 | 48 | | 9452 |
| 216 | 49 | | 9716 |
| 221 | 50 | 1 | 9980 |
| 225 | 51 | 2 | 0244 |
| 230 | 52 | | 0508 |
| 234 | 63 | | 6772 |
| 238 | 54 | | 1035 |
| 243 | 65 | 2 | 1300 |
| 247 | 56 | | 1563 |
| 252 | 57 | | 1827 |
| 256 | 58 | | 2091 |
| 261 | 52 | | 2355 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 115° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 115° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 217 | 0' | 2 (1) | 2465 | 2192 | 1979 | 1726 | 1553 | 1342 | 1127 | 0914 | 0761 | 0487 | 2274 | 0221 | 9047 | 9634 | 2420 | 2207 | 6223 | 265 | 0' | 9 2990 |
| 214 | 1 | | 2669 | 2456 | 2213 | 2229 | 1810 | 1603 | 1390 | 1176 | 0963 | 0750 | 0530 | 0323 | 0109 | 9826 | 2662 | 9462 | 9225 | 221 | 1 | 2732 |
| 210 | 2 | | 2939 | 2719 | 2506 | 2292 | 9079 | 1266 | 1652 | 1439 | 1225 | 1012 | 6798 | 0585 | 0371 | 0157 | 9944 | 2730 | 9512 | 226 | 2 | 2466 |
| 207 | 3 | | 3126 | 2982 | 2769 | 2565 | 2342 | 2128 | 1915 | 1701 | 1488 | 1274 | 1068 | 0847 | 0233 | 0412 | 0205 | 9991 | 9777 | 252 | 3 | 2261 |
| 203 | 4 | 2 | 3452 | 3942 | 3032 | 2616 | 2605 | 2321 | 2177 | 1964 | 1750 | 1536 | 1322 | 1108 | 0825 | 0681 | 0407 | 2253 | 6639 | 247 | 4 | 1236 |
| 199 | 5 | 2 | 3722 | 3509 | 3995 | 3681 | 2868 | 2254 | 2410 | 2226 | 2012 | 1798 | 1584 | 1378 | 1156 | 0949 | 0728 | 0514 | 0300 | 243 | 5 | 2 1070 |
| 196 | 6 | | 3986 | 3772 | 3550 | 3344 | 3130 | 2217 | 2703 | 2489 | 2274 | 9062 | 1846 | 1632 | 1418 | 1204 | 0990 | 0775 | 0561 | 230 | 6 | 1404 |
| 192 | 7 | | 4249 | 4035 | 3821 | 3607 | 3393 | 3179 | 2265 | 2751 | 2537 | 2322 | 2106 | 1894 | 1680 | 1465 | 1251 | 1637 | 0622 | 234 | 7 | 1132 |
| 188 | 8 | | 4512 | 4998 | 4084 | 3872 | 3656 | 3442 | 3227 | 3013 | 2799 | 2504 | 2370 | 2156 | 1941 | 1727 | 1512 | 1296 | 1683 | 230 | 8 | 0073 |
| 185 | 9 | | 4775 | 4561 | 4347 | 4133 | 3919 | 3704 | 3490 | 3275 | 3061 | 2846 | 2632 | 2417 | 2203 | 1988 | 1774 | 1559 | 1344 | 222 | 9 | 0606 |
| 181 | 10 | 2 | 5639 | 4894 | 4610 | 4396 | 4182 | 3967 | 3752 | 3538 | 3323 | 3108 | 2691 | 2679 | 9165 | 2256 | 2035 | 1620 | 1665 | 221 | 16 | 2 0342 |
| 178 | 11 | | 6302 | 5807 | 4873 | 4658 | 4444 | 4229 | 4015 | 3800 | 3585 | 3370 | 3156 | 2941 | 2726 | 9511 | 2292 | 2081 | 1066 | 216 | 11 | 0077 |
| 174 | 12 | | 5565 | 5350 | 5135 | 4921 | 4706 | 4499 | 4277 | 4869 | 3847 | 3632 | 3417 | 3203 | 2908 | 2773 | 2557 | 2342 | 2127 | 212 | 12 | 8 2812 |
| 170 | 13 | | 5898 | 5613 | 5396 | 5184 | 4969 | 4754 | 4539 | 4324 | 4109 | 3694 | 3679 | 3464 | 3249 | 3034 | 2812 | 2603 | 2308 | 208 | 13 | 2540 |
| 167 | 14 | | 6091 | 5076 | 5661 | 5446 | 5231 | 5010 | 4801 | 4586 | 4371 | 1156 | 3941 | 3722 | 3510 | 3295 | 3080 | 2864 | 2649 | 223 | 14 | 2281 |
| 163 | 15 | 2 | 6354 | 6139 | 5924 | 5709 | 5494 | 5279 | 5061 | 1848 | 4633 | 4418 | 4263 | 3987 | 3779 | 3556 | 3341 | 3125 | 2910 | 199 | 15 | 8 9016 |
| 159 | 16 | | 6617 | 6409 | 6187 | 5971 | 5756 | 5541 | 5326 | 5118 | 1895 | 4680 | 4461 | 4249 | 4033 | 3818 | 3622 | 3366 | 3171 | 124 | 16 | 0761 |
| 156 | 17 | | 6880 | 6664 | 6449 | 6234 | 2619 | 5803 | 5588 | 5372 | 5157 | 4911 | 4726 | 4510 | 4294 | 4079 | 3863 | 3647 | 3432 | 190 | 17 | 6486 |
| 152 | 18 | | 7113 | 6927 | 6712 | 6496 | 6281 | 6065 | 5850 | 5634 | 5419 | 5903 | 4987 | 4771 | 4552 | 4340 | 4124 | 3908 | 3099 | 165 | 18 | 0221 |
| 149 | 19 | | 7465 | 7120 | 6974 | 6759 | 6543 | 6328 | 6112 | 5896 | 5680 | 5165 | 5249 | 5033 | 4817 | 4601 | 4385 | 4169 | 3253 | 161 | 12 | 7955 |
| 145 | 26 | 2 | 7668 | 7453 | 7237 | 7021 | 6805 | 6590 | 6374 | 6158 | 5942 | 5726 | 5510 | 5294 | 5078 | 4662 | 4046 | 4430 | 4914 | 177 | 26 | 8 7696 |
| 141 | 21 | | 7931 | 7715 | 7499 | 7284 | 7068 | 6859 | 6530 | 6420 | 6284 | 5988 | 5772 | 5556 | 5339 | 5123 | 4227 | 4691 | 4474 | 172 | 21 | 7425 |
| 138 | 22 | | 8191 | 7278 | 7762 | 7546 | 7330 | 7114 | 6898 | 6682 | 6165 | 6249 | 6033 | 5017 | 5601 | 5384 | 5100 | 4951 | 4735 | 168 | 22 | 7126 |
| 134 | 23 | | 0456 | 8211 | 8094 | 7808 | 7592 | 7376 | 7160 | 6943 | 6727 | 6511 | 2291 | 6078 | 5869 | 5645 | 5429 | 5212 | 4995 | 163 | 23 | 6896 |
| 130 | 24 | | 6719 | 8503 | 8287 | 8072 | 7654 | 7638 | 7421 | 7205 | 6989 | 6772 | 6556 | 6339 | 6123 | 5906 | 6669 | 5473 | 5256 | 159 | 24 | 6631 |
| 127 | 25 | 2 | 8982 | 8765 | 8549 | 8333 | 8116 | 7900 | 7683 | 7467 | 7250 | 7034 | 6817 | 6600 | 6381 | 6167 | 5950 | 5733 | 5517 | 155 | 25 | 8 0366 |
| 123 | 26 | | 9944 | 9098 | 8811 | 8595 | 8378 | 8162 | 7945 | 7729 | 7512 | 7295 | 7678 | 6662 | 2645 | 6428 | 6911 | 2994 | 6777 | 152 | 26 | 6101 |
| 120 | 27 | | 9527 | 9290 | 9074 | 8857 | 8640 | 8424 | 8287 | 7990 | 7773 | 7556 | 7340 | 7123 | 6906 | 0689 | 6472 | 6255 | 6037 | 146 | 27 | 5836 |
| 116 | 20 | | 9709 | 9553 | 9336 | 9119 | 8909 | 8686 | 8469 | 8252 | 8035 | 7818 | 7201 | 7384 | 7167 | 2949 | 6732 | 6515 | 6298 | 141 | 22 | 5571 |
| 112 | 29 | 3 (2) | 0032 | 9815 | 9598 | 9381 | 9161 | 8947 | 8730 | 8513 | 8296 | 8079 | 7862 | 7645 | 7427 | 7210 | 6923 | 6776 | 6550 | 137 | 22 | 6307 |
| 109 | 30 | 3 (2) | 0294 | 0077 | 9860 | 9643 | 9422 | 9209 | 8999 | 8775 | 8557 | 8340 | 8193 | 7966 | 7688 | 7471 | 7253 | 7036 | 6018 | 132 | 30 | 8 6042 |
| 105 | 31 | | 0557 | 0340 | 0122 | 9905 | 9688 | 9471 | 9954 | 9036 | 8819 | 8601 | 8384 | 6167 | 7949 | 7732 | 7514 | 7996 | 7079 | 120 | 31 | 4777 |
| 101 | 32 | | 0819 | 0602 | 0305 | 0167 | 9950 | 9739 | 9515 | 9298 | 9080 | 8863 | 8645 | 8428 | 8210 | 7222 | 7774 | 7257 | 7339 | 124 | 32 | 4513 |
| 98 | 33 | | 1081 | 6664 | 0647 | 0429 | 0212 | 9994 | 9777 | 9559 | 9341 | 9124 | 8906 | 8688 | 8471 | 8253 | 8035 | 7017 | 7299 | 112 | 33 | 4246 |
| 94 | 34 | | 1344 | 1126 | 0909 | 0691 | 0473 | 0256 | 0038 | 9826 | 9603 | 9385 | 9167 | 8949 | 8731 | 8513 | 8225 | 8077 | 7059 | 116 | 34 | 3964 |
| 91 | 35 | 3 (2) | 1600 | 1388 | 1171 | 0953 | 0735 | 0517 | 0300 | 0082 | 9864 | 9646 | 9428 | 9210 | 8992 | 8774 | 8556 | 8338 | 6120 | 112 | 35 | 8 3712 |
| 87 | 36 | | 1868 | 1656 | 1433 | 1215 | 0997 | 0779 | 6561 | 0343 | 0195 | 9907 | 9689 | 9471 | 9253 | 9234 | 8816 | 8598 | 8300 | 126 | 36 | 3455 |
| 83 | 37 | | 2130 | 1912 | 1694 | 1477 | 1958 | 1040 | 0822 | 0601 | 0380 | 0168 | 9250 | 9731 | 9513 | 9225 | 9077 | 6858 | 8640 | 102 | 37 | 3190 |
| 00 | 38 | | 2392 | 2174 | 1956 | 1738 | 1520 | 1302 | 1684 | 0866 | 0647 | 8429 | 0211 | 9992 | 9774 | 9555 | 9337 | 2118 | 8900 | 97 | 36 | 2992 |
| 76 | 39 | | 2654 | 2436 | 2218 | 2000 | 1782 | 1563 | 1345 | 1127 | 0908 | 0690 | 0471 | 0253 | 0634 | 9816 | 9597 | 9378 | 2160 | 93 | 32 | 2662 |
| 72 | 40 | 3 (2) | 2917 | 2698 | 2480 | 2262 | 2043 | 1825 | 1606 | 1388 | 1169 | 0951 | 0739 | 0513 | 0295 | 6076 | 9857 | 9632 | 9420 | 60 | 40 | 8 2397 |
| 69 | 41 | | 3172 | 2960 | 9742 | 2523 | 2365 | 2086 | 1868 | 1649 | 1438 | 1211 | 0993 | 0774 | 0555 | 0336 | 0117 | 9899 | 9600 | 04 | 41 | 2133 |
| 65 | 42 | | 3441 | 3229 | 3204 | 9785 | 2566 | 2348 | 2129 | 1912 | 1691 | 1479 | 1253 | 1035 | 0816 | 0597 | 0378 | 0159 | 9940 | 72 | 42 | 1869 |
| 62 | 43 | 3 | 3763 | 3484 | 3265 | 3046 | 2898 | 2609 | 2390 | 2171 | 1952 | 1733 | 1514 | 1295 | 1076 | 0667 | 0638 | 2419 | 6199 | 75 | 43 | 1604 |
| 50 | 44 | | 3965 | 3746 | 3527 | 3328 | 3689 | 2078 | 2651 | 2432 | 2213 | 1994 | 1775 | 1656 | 1336 | 1117 | 0898 | 0679 | 0452 | 71 | 44 | 1340 |
| 64 | 45 | 3 | 4926 | 4007 | 3789 | 3569 | 3350 | 3131 | 9912 | 2693 | 2474 | 2255 | 9035 | 1616 | 1597 | 1377 | 1158 | 0938 | 0719 | 66 | 45 | 8 1070 |
| 61 | 46 | | 4488 | 4269 | 4050 | 3831 | 3612 | 3392 | 3173 | 2954 | 2735 | 2515 | 2296 | 2076 | 1857 | 1637 | 1418 | 1198 | 0979 | 62 | 46 | 0812 |
| 47 | 47 | | 4760 | 4531 | 4312 | 4092 | 3073 | 3654 | 3434 | 3215 | 2995 | 2776 | 2556 | 2337 | 2117 | 1890 | 1678 | 1458 | 1238 | 57 | 47 | 0548 |
| 43 | 40 | | 6012 | 4792 | 4573 | 4354 | 4134 | 3915 | 3695 | 3476 | 3256 | 3636 | 9817 | 9597 | 2377 | 2158 | 1938 | 1710 | 1498 | 53 | 46 | 0284 |
| 46 | 49 | | 6274 | 5064 | 4035 | 4015 | 4396 | 4176 | 3956 | 3737 | 3517 | 3997 | 3077 | 9657 | 2630 | 2418 | 2196 | 1978 | 1758 | 49 | 49 | 0096 |
| 36 | 50 | 3 | 0535 | 5316 | 6096 | 4876 | 4657 | 4437 | 4217 | 3997 | 3777 | 3558 | 3338 | 3118 | 2898 | 2678 | 9458 | 2237 | 2617 | 44 | 50 | 7 9756 |
| 33 | 51 | | 6797 | 6577 | 5357 | 5130 | 4918 | 4698 | 4478 | 4258 | 4038 | 3818 | 3598 | 3378 | 3158 | 2938 | 2717 | 2497 | 2277 | 40 | 51 | 9492 |
| 22 | 62 | | 6059 | 5839 | 5619 | 5399 | 5179 | 4959 | 4739 | 4519 | 4299 | 4079 | 3858 | 3638 | 3418 | 3197 | 2977 | 2757 | 2536 | 35 | 52 | 9220 |
| 25 | 63 | | 6320 | 0100 | 5086 | 5660 | 6446 | 5220 | 5200 | 4779 | 4559 | 4339 | 4119 | 3898 | 3678 | 3457 | 3237 | 3016 | 2726 | 31 | 53 | 8964 |
| 22 | 64 | | 6582 | 6362 | 6141 | 5921 | 5701 | 5481 | 5260 | 5640 | 4820 | 4599 | 1379 | 4158 | 3938 | 3717 | 3497 | 3276 | 3055 | 26 | 64 | 0700 |
| 16 | 55 | 3 | 6843 | 6623 | 6403 | 6182 | 5962 | 5742 | 5521 | 5301 | 5080 | 1860 | 4039 | 4418 | 4198 | 3977 | 3766 | 3535 | 3315 | 22 | 65 | 7 8437 |
| 15 | 56 | | 7105 | 6884 | 6664 | 6414 | 6223 | 6002 | 5782 | 5561 | 5341 | 5128 | 4899 | 4678 | 4458 | 4237 | 4216 | 3795 | 3574 | 18 | 56 | 8173 |
| 11 | 67 | | 7366 | 7146 | 6995 | 6705 | 6481 | 6263 | 6042 | 5822 | 5601 | 5380 | 5159 | 4930 | 4717 | 4496 | 4276 | 4054 | 3033 | 13 | 67 | 7969 |
| 7 | 58 | | 7628 | 7487 | 7186 | 6966 | 6745 | 6524 | 6303 | 0002 | 5861 | 5640 | 5419 | 5198 | 1977 | 4756 | 4535 | 4313 | 4693 | 2 | 56 | 7646 |
| 4 | 62 | | 7889 | 7668 | 7447 | 7926 | 7026 | 6785 | 6564 | 6343 | 6122 | 5901 | 5679 | 6458 | 5237 | 5816 | 4795 | 4573 | 4362 | 4 | 52 | 7382 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 115° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 115° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 218 | 0′ | 1 | 8780 | 8686 | 8353 | 8139 | 7925 | 7711 | 7498 | 7284 | 7070 | 6856 | 6642 | 8428 | 6214 | 6000 | 5786 | 5572 | 5358 | 0 | 0′ | 2 2618 |
| 214 | 1 | | 9041 | 8827 | 8614 | 8400 | 8186 | 7972 | 7758 | 7544 | 7330 | 7118 | 6902 | 6688 | 6474 | 6260 | 6046 | 5832 | 5617 | 4 | 1 | 2882 |
| 211 | 2 | | 0302 | 9088 | 8875 | 8661 | 8447 | 8233 | 8019 | 7805 | 7590 | 7375 | 7162 | 6948 | 6734 | 6512 | 6305 | 6091 | 5876 | 9 | 2 | 3145 |
| 207 | 3 | | 9563 | 9349 | 9135 | 8921 | 8707 | 8493 | 8279 | 8065 | 7850 | 7635 | 7422 | 7208 | 6993 | 6779 | 6564 | 6350 | 6135 | 13 | 3 | 3409 |
| 204 | 4 | | 9825 | 9610 | 9396 | 9182 | 8968 | 8754 | 8539 | 8325 | 8110 | 7896 | 7682 | 7467 | 7253 | 7038 | 6824 | 6609 | 6394 | 17 | 4 | 3673 |
| 200 | 5 | 2 (1) | 0086 | 9871 | 9657 | 9443 | 9228 | 9014 | 8800 | 8585 | 8370 | 8156 | 7941 | 7727 | 7512 | 7298 | 7083 | 6868 | 6653 | 22 | 5 | 2 3936 |
| 195 | 6 | | 0347 | 0132 | 9918 | 9703 | 9489 | 9274 | 9060 | 8845 | 8630 | 8410 | 8201 | 7986 | 7772 | 7557 | 7342 | 7127 | 6912 | 26 | 6 | 4199 |
| 193 | 7 | | 0508 | 0393 | 0179 | 9964 | 9749 | 9535 | 9320 | 9105 | 8890 | 8676 | 8461 | 8246 | 8031 | 7816 | 7801 | 7386 | 7171 | 31 | 7 | 4463 |
| 189 | 8 | | 0869 | 0654 | 0439 | 0225 | 0010 | 9795 | 9580 | 9365 | 9150 | 8935 | 8721 | 8505 | 8990 | 8075 | 7860 | 7645 | 7430 | 35 | 8 | 4726 |
| 185 | 9 | | 1130 | 0915 | 0700 | 0485 | 0270 | 0055 | 9840 | 9625 | 9410 | 9195 | 8980 | 8765 | 8650 | 8334 | 8119 | 7904 | 7689 | 39 | 9 | 4990 |
| 182 | 10 | 2 (1) | 1390 | 1175 | 0961 | 0746 | 0531 | 0315 | 0100 | 9885 | 9670 | 9455 | 9240 | 9024 | 8809 | 8591 | 8378 | 8163 | 7947 | 44 | 10 | 2 5253 |
| 178 | 11 | | 1651 | 1436 | 1221 | 1006 | 0791 | 0576 | 0380 | 0145 | 9930 | 9715 | 9499 | 9284 | 9068 | 8853 | 8537 | 8422 | 8206 | 48 | 11 | 5516 |
| 174 | 12 | | 1912 | 1697 | 1482 | 1266 | 1051 | 0836 | 0620 | 0405 | 0120 | 9974 | 9759 | 9543 | 9328 | 9112 | 8896 | 8681 | 8465 | 52 | 12 | 5779 |
| 171 | 13 | | 2173 | 1968 | 1742 | 1527 | 1311 | 1090 | 0880 | 0665 | 0449 | 0234 | 0018 | 9802 | 9587 | 9371 | 9156 | 8939 | 8724 | 57 | 13 | 6042 |
| 167 | 14 | | 2434 | 2218 | 2003 | 1787 | 1572 | 1356 | 1140 | 0925 | 0709 | 0493 | 0278 | 0069 | 9846 | 9630 | 9414 | 9198 | 8982 | 61 | 14 | 6386 |
| 164 | 15 | 2 (1) | 2694 | 2479 | 2283 | 2048 | 1832 | 1616 | 1400 | 1185 | 0969 | 0753 | 0537 | 0321 | 0105 | 9889 | 9673 | 9457 | 9241 | 66 | 15 | 2 6569 |
| 160 | 16 | | 2955 | 2739 | 2524 | 2308 | 2092 | 1876 | 1650 | 1444 | 1228 | 1012 | 0796 | 0580 | 0364 | 0148 | 9932 | 9716 | 9499 | 70 | 16 | 6832 |
| 156 | 17 | | 3215 | 3000 | 2784 | 2568 | 2352 | 2136 | 1920 | 1704 | 1488 | 1272 | 1056 | 0839 | 0623 | 0407 | 0191 | 9974 | 9768 | 74 | 17 | 7095 |
| 153 | 18 | 2 | 3476 | 3260 | 3044 | 2828 | 2612 | 2398 | 2180 | 1964 | 1748 | 1531 | 1315 | 1099 | 0882 | 0666 | 0149 | 0233 | 0016 | 79 | 18 | 7358 |
| 149 | 19 | | 3737 | 3521 | 3305 | 3088 | 2872 | 2656 | 2440 | 2223 | 2007 | 1791 | 1674 | 1358 | 1141 | 0925 | 0708 | 0491 | 0275 | 83 | 19 | 7621 |
| 145 | 20 | 2 | 3997 | 3781 | 3665 | 3349 | 3132 | 2918 | 2699 | 2483 | 2266 | 2050 | 1833 | 1617 | 1400 | 1183 | 0967 | 0750 | 0533 | 87 | 20 | 2 7884 |
| 142 | 21 | | 4258 | 4042 | 3825 | 3609 | 3392 | 3176 | 2959 | 2743 | 2526 | 2309 | 2093 | 1876 | 1659 | 1442 | 1225 | 1009 | 0792 | 92 | 21 | 8147 |
| 138 | 22 | | 4518 | 4302 | 4085 | 3862 | 3652 | 3436 | 3219 | 3002 | 2785 | 2569 | 2352 | 2135 | 1918 | 1701 | 1484 | 1267 | 1050 | 96 | 22 | 8410 |
| 134 | 23 | | 4779 | 4562 | 4346 | 4129 | 3912 | 3696 | 3478 | 3262 | 3045 | 2828 | 2611 | 2394 | 2177 | 1980 | 1743 | 1525 | 1308 | 101 | 23 | 8672 |
| 131 | 24 | | 5039 | 4823 | 4606 | 4389 | 4172 | 3955 | 3738 | 3521 | 3304 | 3087 | 2870 | 2653 | 2436 | 2218 | 2001 | 1784 | 1567 | 105 | 24 | 8935 |
| 127 | 25 | 2 | 5300 | 5083 | 4866 | 4649 | 4432 | 4216 | 3998 | 3781 | 3563 | 3316 | 3129 | 2912 | 2691 | 2477 | 2260 | 2042 | 1825 | 109 | 25 | 9 9198 |
| 124 | 26 | | 5560 | 5343 | 5126 | 4909 | 4692 | 4474 | 4257 | 4040 | 3823 | 3605 | 3388 | 3170 | 9953 | 2736 | 2518 | 2301 | 9083 | 114 | 26 | 9461 |
| 120 | 27 | | 5820 | 5603 | 5386 | 5169 | 4951 | 4734 | 4517 | 4299 | 4082 | 3864 | 3647 | 3429 | 3212 | 2994 | 2777 | 9559 | 2341 | 118 | 27 | 9723 |
| 115 | 28 | | 6081 | 5863 | 5646 | 5428 | 5211 | 4994 | 4776 | 4559 | 4341 | 4123 | 3906 | 3688 | 3470 | 3253 | 3035 | 2817 | 2599 | 122 | 28 | 9986 |
| 113 | 29 | | 6341 | 6123 | 5906 | 5688 | 5471 | 5253 | 5036 | 4818 | 4600 | 1382 | 4165 | 3947 | 3729 | 3611 | 3293 | 3075 | 9857 | 127 | 29 | 3 8249 |
| 109 | 30 | 2 | 6601 | 6383 | 6166 | 5948 | 5730 | 6513 | 5295 | 5877 | 4859 | 4641 | 4424 | 4206 | 3988 | 3770 | 3552 | 3333 | 3115 | 131 | 38 | 3 0511 |
| 105 | 31 | | 6861 | 6643 | 6426 | 6208 | 6990 | 5772 | 5554 | 5336 | 5118 | 4900 | 4682 | 4464 | 4246 | 4028 | 3810 | 3592 | 3373 | 136 | 31 | 0774 |
| 102 | 32 | | 7121 | 0983 | 0685 | 6468 | 6250 | 6032 | 5814 | 5596 | 5377 | 5159 | 4941 | 4723 | 4505 | 4286 | 4068 | 3850 | 3631 | 140 | 32 | 1036 |
| 98 | 33 | | 7381 | 7163 | 6945 | 6797 | 6510 | 6291 | 6073 | 5855 | 5636 | 5418 | 5200 | 4982 | 4783 | 4545 | 4320 | 4108 | 3889 | 144 | 33 | 1299 |
| 95 | 34 | | 7641 | 7423 | 7205 | 6987 | 6770 | 6550 | 6332 | 6114 | 5895 | 5677 | 5452 | 5940 | 5022 | 4803 | 4585 | 4366 | 4147 | 149 | 34 | 1561 |
| 91 | 35 | 2 | 7901 | 7883 | 7465 | 7247 | 7029 | 6810 | 6591 | 6373 | 6154 | 5936 | 5717 | 6499 | 5280 | 5061 | 4843 | 4624 | 4405 | 153 | 35 | 3 1823 |
| 87 | 36 | | 8161 | 7943 | 7725 | 7506 | 7288 | 7069 | 6851 | 6632 | 6413 | 6195 | 5975 | 5757 | 5538 | 5320 | 6101 | 4882 | 4663 | 157 | 36 | 2086 |
| 84 | 37 | | 8421 | 8203 | 7984 | 7766 | 7547 | 7328 | 7110 | 6891 | 6672 | 6453 | 6235 | 6016 | 6797 | 5678 | 6359 | 5148 | 4921 | 162 | 37 | 2348 |
| 80 | 38 | | 8681 | 8463 | 8244 | 8025 | 7806 | 7588 | 7369 | 7150 | 6931 | 6712 | 6493 | 0274 | 6055 | 5836 | 5617 | 5398 | 5179 | 166 | 38 | 2610 |
| 75 | 39 | | 8941 | 8722 | 8503 | 8285 | 8066 | 7847 | 7828 | 7409 | 7190 | 6971 | 6752 | 6533 | 5313 | 6094 | 5875 | 0666 | 6436 | 171 | 39 | 2873 |
| 73 | 40 | 2 | 9201 | 8982 | 8763 | 8544 | 8325 | 8108 | 7887 | 7668 | 7449 | 7229 | 7010 | 6791 | 6572 | 6352 | 6133 | 5913 | 5694 | 175 | 48 | 3 3135 |
| 52 | 41 | | 9461 | 9942 | 9022 | 8803 | 8684 | 8365 | 8146 | 7927 | 7707 | 7488 | 7269 | 7049 | 6830 | 6610 | 6391 | 6171 | 5952 | 179 | 41 | 3397 |
| 65 | 42 | | 2720 | 9501 | 9282 | 9053 | 8843 | 8624 | 8405 | 8185 | 7966 | 7746 | 7627 | 7307 | 7088 | 6868 | 6649 | 6499 | 6209 | 184 | 42 | 3659 |
| 62 | 43 | | 9980 | 9761 | 9541 | 9322 | 9103 | 8883 | 8664 | 8444 | 8225 | 8005 | 7785 | 7566 | 7346 | 7126 | 6907 | 6687 | 6467 | 188 | 43 | 3921 |
| 58 | 44 | 3 (2) | 0240 | 0890 | 9801 | 2581 | 9362 | 9142 | 8923 | 8703 | 8483 | 8263 | 8044 | 7824 | 7604 | 7384 | 7164 | 6944 | 6724 | 192 | 44 | 4183 |
| 55 | 45 | 3 (2) | 0499 | 0980 | 0060 | 9841 | 9691 | 9401 | 9181 | 8969 | 8742 | 8522 | 8302 | 8082 | 7869 | 7642 | 7199 | 7202 | 6982 | 197 | 45 | 3 4445 |
| 51 | 46 | | 0769 | 0539 | 0320 | 0100 | 9880 | 9660 | 9440 | 9220 | 9000 | 8780 | 8560 | 8340 | 8120 | 7900 | 7680 | 7460 | 7239 | 201 | 46 | 4707 |
| 47 | 47 | | 1019 | 0799 | 0579 | 0359 | 0139 | 9919 | 9699 | 9479 | 9259 | 9039 | 8819 | 8598 | 8378 | 8158 | 7938 | 7717 | 7497 | 206 | 47 | 4969 |
| 44 | 48 | | 1278 | 1068 | 0838 | 0818 | 0398 | 0178 | 9958 | 9738 | 9517 | 9297 | 9077 | 8856 | 8636 | 8418 | 8195 | 7275 | 7754 | 210 | 48 | 6931 |
| 40 | 49 | | 1538 | 1318 | 1097 | 0877 | 0657 | 0437 | 0216 | 9996 | 9776 | 9555 | 9336 | 9114 | 8894 | 8674 | 8453 | 8232 | 8012 | 214 | 49 | 5493 |
| 36 | 50 | 3 (2) | 1797 | 1577 | 1357 | 1136 | 0916 | 0696 | 0475 | 0955 | 0034 | 9814 | 9593 | 9379 | 9152 | 8931 | 8711 | 8490 | 8269 | 219 | 50 | 3 5755 |
| 33 | 51 | | 2057 | 1838 | 1616 | 1395 | 1176 | 0954 | 0734 | 0513 | 0293 | 0072 | 9851 | 9630 | 9410 | 9189 | 8968 | 8747 | 8526 | 223 | 51 | 6017 |
| 29 | 52 | | 2316 | 9095 | 1875 | 1654 | 1434 | 1213 | 0222 | 0772 | 0661 | 0330 | 0109 | 9888 | 9668 | 9447 | 9226 | 9005 | 8784 | 227 | 52 | 6278 |
| 25 | 53 | | 2575 | 2365 | 2134 | 1913 | 1699 | 1472 | 1261 | 1030 | 0809 | 0588 | 0367 | 0146 | 9925 | 9704 | 9483 | 9262 | 9041 | 232 | 53 | 6540 |
| 22 | 54 | | 2835 | 2814 | 2393 | 2172 | 1961 | 1730 | 1509 | 1288 | 1067 | 0846 | 0695 | 0404 | 0183 | 9962 | 9741 | 9519 | 9298 | 236 | 54 | 6802 |
| 18 | 55 | 3 (3) | 3094 | 2873 | 9652 | 2431 | 2910 | 1989 | 1768 | 1547 | 1326 | 1104 | 0883 | 0662 | 0441 | 8919 | 9998 | 9777 | 9555 | 241 | 55 | 3 7063 |
| 15 | 56 | | 3353 | 3132 | 2211 | 2690 | 2469 | 2248 | 2026 | 1805 | 1584 | 1363 | 1141 | 0920 | 0698 | 0477 | 0255 | 0031 | 9812 | 245 | 56 | 7325 |
| 11 | 57 | 3 | 3612 | 3391 | 3170 | 2949 | 2727 | 2506 | 2285 | 2063 | 1842 | 1521 | 1399 | 1178 | 0956 | 0734 | 0513 | 0291 | 0069 | 249 | 57 | 7587 |
| 7 | 58 | | 3871 | 3660 | 3429 | 3907 | 2986 | 2765 | 2543 | 9392 | 2100 | 1879 | 1657 | 1435 | 1214 | 0992 | 0770 | 0548 | 0396 | 254 | 58 | 7848 |
| 4 | 59 | | 4131 | 3909 | 3688 | 3456 | 3246 | 3023 | 2801 | 2580 | 2368 | 2137 | 1915 | 1693 | 1471 | 1249 | 1027 | 0805 | 0583 | 258 | 59 | 8110 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 116 ° | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 116 ° | Núm. |
| | | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | | | |
| 225 | 0' | 3 | 8150 | 7929 | 7708 | 7488 | 7266 | 7045 | 6824 | 6603 | 6382 | 6161 | 5939 | 5718 | 5497 | 5275 | 5054 | 4833 | 4611 | 262 | 0' | 7 7118 |
| 221 | 1 | | 8412 | 8191 | 7959 | 7748 | 7527 | 7306 | 7085 | 6864 | 6642 | 5421 | 6129 | 5978 | 5757 | 5535 | 5313 | 5092 | 4870 | 258 | 1 | 6855 |
| 218 | 2 | | 8673 | 8452 | 8230 | 8002 | 7788 | 7566 | 7345 | 7124 | 6202 | 6681 | 6459 | 6238 | 6016 | 5725 | 5573 | 5351 | 5129 | 254 | 2 | 6591 |
| 214 | 3 | | 8934 | 8713 | 8421 | 8270 | 8049 | 7827 | 7606 | 7384 | 7163 | 6941 | 6719 | 6498 | 6276 | 6054 | 5832 | 5610 | 5389 | 249 | 3 | 6327 |
| 210 | 4 | | 9125 | 8974 | 8752 | 8531 | 8309 | 8088 | 7866 | 7644 | 7423 | 7201 | 6279 | 6757 | 6535 | 6314 | 6092 | 5870 | 5640 | 245 | 4 | 6064 |
| 206 | 5 | 3 | 9456 | 9235 | 9013 | 8792 | 8570 | 8348 | 8126 | 7905 | 7683 | 7461 | 7239 | 7017 | 6725 | 6573 | 6351 | 6122 | 5207 | 241 | 6 | 7 5801 |
| 283 | 6 | | 9718 | 9496 | 2274 | 9052 | 8830 | 8609 | 8387 | 8165 | 7943 | 7721 | 7429 | 7277 | 7055 | 6832 | 6510 | 6388 | 6166 | 236 | 6 | 5537 |
| 122 | 7 | | 9972 | 9757 | 2535 | 9313 | 9021 | 8862 | 8647 | 8425 | 8203 | 7901 | 7758 | 7536 | 7314 | 7092 | 6869 | 6647 | 6425 | 232 | 7 | 6274 |
| 195 | 8 | 4 (3) | 0240 | 0018 | 2796 | 2574 | 9352 | 2129 | 8207 | 8685 | 8463 | 8241 | 8018 | 7796 | 7574 | 7351 | 7129 | 6906 | 6684 | 227 | 8 | 5010 |
| 191 | 9 | | 0501 | 0272 | 0056 | 2834 | 9612 | 2390 | 2167 | 8245 | 8723 | 8500 | 8278 | 8055 | 7833 | 7610 | 7388 | 7165 | 6243 | 223 | 9 | 4747 |
| 188 | 10 | 4 (3) | 8762 | 0532 | 0317 | 0095 | 9872 | 9650 | 9428 | 9206 | 8983 | 8760 | 8537 | 8315 | 8092 | 7870 | 7647 | 7424 | 7201 | 212 | 10 | 7 4484 |
| 181 | 11 | | 1023 | 0800 | 0578 | 0355 | 0133 | 9910 | 9688 | 9465 | 9243 | 2020 | 8797 | 8574 | 8352 | 8129 | 7906 | 7683 | 7460 | 214 | 11 | 4221 |
| 180 | 12 | | 1283 | 1061 | 0838 | 0616 | 0393 | 0171 | 9948 | 9725 | 9502 | 2280 | 2057 | 8834 | 8611 | 8388 | 8165 | 7242 | 7719 | 210 | 12 | 3958 |
| 176 | 13 | | 1544 | 1322 | 1099 | 0876 | 0654 | 0431 | 0208 | 9985 | 9762 | 2532 | 2316 | 2093 | 8870 | 8547 | 8424 | 8201 | 7978 | 206 | 13 | 3624 |
| 173 | 14 | | 1805 | 1582 | 1360 | 1137 | 0914 | 0621 | 0468 | 0245 | 0022 | 9799 | 2576 | 9353 | 2129 | 8206 | 8683 | 8460 | 8236 | 201 | 14 | 3431 |
| 169 | 15 | 4 (3) | 2066 | 1843 | 1620 | 1397 | 1174 | 0951 | 0728 | 0505 | 0282 | 0059 | 9835 | 9612 | 9382 | 2165 | 8242 | 8719 | 8495 | 197 | 15 | 7 3168 |
| 165 | 16 | | 2327 | 2104 | 1880 | 1657 | 1434 | 1211 | 0288 | 0765 | 0541 | 0318 | 0095 | 9871 | 9648 | 9424 | 9201 | 8977 | 8754 | 192 | 16 | 2905 |
| 161 | 17 | | 2588 | 2364 | 2141 | 1918 | 1624 | 1471 | 1248 | 1024 | 0801 | 0570 | 0354 | 0131 | 9207 | 2683 | 2460 | 9236 | 9012 | 188 | 17 | 2642 |
| 158 | 18 | | 2848 | 2625 | 2401 | 2178 | 1955 | 1731 | 1508 | 1284 | 1061 | 0837 | 0613 | 0320 | 0166 | 9942 | 2719 | 2425 | 2271 | 184 | 18 | 2379 |
| 154 | 19 | | 3109 | 2885 | 2662 | 2438 | 2216 | 1221 | 1768 | 1544 | 1320 | 1097 | 0873 | 0649 | 0425 | 0201 | 9977 | 2753 | 2529 | 179 | 12 | 2116 |
| 150 | 20 | 4 (3) | 3369 | 3146 | 2922 | 2698 | 2475 | 2251 | 2027 | 1804 | 1580 | 1356 | 1132 | 0208 | 0684 | 0450 | 0236 | 0012 | 2788 | 176 | 20 | 7 1853 |
| 146 | 21 | 4 | 3630 | 3406 | 3182 | 2959 | 2735 | 2511 | 2287 | 2063 | 1839 | 1615 | 1391 | 1167 | 0213 | 0719 | 0495 | 0271 | 0046 | 171 | 21 | 1590 |
| 143 | 22 | | 3820 | 3666 | 3443 | 3219 | 2225 | 2771 | 2547 | 2323 | 2029 | 1875 | 1550 | 1426 | 1202 | 8278 | 0753 | 0529 | 0305 | 166 | 22 | 1328 |
| 139 | 23 | | 4151 | 3927 | 3703 | 3472 | 3255 | 3031 | 2807 | 2582 | 2358 | 2134 | 1210 | 1685 | 1461 | 1236 | 1012 | 0788 | 0563 | 162 | 23 | 1065 |
| 135 | 24 | | 4411 | 4187 | 3963 | 3739 | 3516 | 3290 | 3066 | 2842 | 2618 | 2393 | 2169 | 1244 | 1720 | 1495 | 1271 | 1046 | 0821 | 157 | 24 | 0802 |
| 131 | 25 | 4 | 4672 | 4447 | 4223 | 3999 | 3775 | 3550 | 3326 | 3101 | 2877 | 2652 | 2428 | 2203 | 1279 | 1754 | 1522 | 1304 | 1080 | 153 | 25 | 7 0539 |
| 128 | 26 | | 4932 | 4708 | 4483 | 4259 | 4034 | 3810 | 3585 | 3361 | 3136 | 2912 | 2687 | 2462 | 2237 | 2013 | 1788 | 1563 | 1338 | 142 | 26 | 0277 |
| 124 | 27 | | 5122 | 4268 | 4743 | 4519 | 4224 | 4070 | 3846 | 3620 | 3325 | 3171 | 2946 | 2721 | 2496 | 2271 | 2046 | 1821 | 1596 | 144 | 27 | 0014 |
| 120 | 28 | | 5453 | 5228 | 5003 | 4779 | 4554 | 4322 | 4104 | 3880 | 3655 | 3130 | 3205 | 2980 | 2755 | 2530 | 2305 | 2080 | 1854 | 148 | 28 | 6 9751 |
| 116 | 29 | | 6713 | 5488 | 5263 | 5039 | 4814 | 4582 | 4364 | 4139 | 3214 | 3682 | 3464 | 3239 | 3014 | 2788 | 2563 | 2338 | 2113 | 136 | 22 | 9189 |
| 113 | 30 | 4 | 6273 | 5748 | 5523 | 5298 | 5073 | 4848 | 4623 | 4398 | 4173 | 3948 | 3723 | 3497 | 3272 | 3047 | 2822 | 2596 | 2371 | 131 | 30 | 6 9226 |
| 102 | 31 | | 6233 | 6008 | 5783 | 5558 | 5333 | 5108 | 4883 | 4657 | 4432 | 4207 | 3982 | 3756 | 3531 | 3305 | 3080 | 2854 | 2622 | 127 | 31 | 8964 |
| 105 | 32 | | 6493 | 6268 | 6043 | 5818 | 5593 | 5367 | 5142 | 4217 | 4621 | 4466 | 4240 | 4015 | 3789 | 3564 | 3338 | 3113 | 2887 | 122 | 32 | 8701 |
| 101 | 33 | | 6753 | 6528 | 6303 | 6078 | 5852 | 5627 | 5401 | 5176 | 4950 | 4725 | 4499 | 4274 | 4048 | 3822 | 3526 | 3371 | 3145 | 118 | 33 | 8432 |
| 98 | 34 | | 7013 | 6788 | 6563 | 6337 | 6112 | 5886 | 5661 | 5435 | 5202 | 4984 | 4768 | 4532 | 4306 | 4081 | 3855 | 3622 | 3403 | 114 | 34 | 8177 |
| 94 | 35 | 4 | 7274 | 7048 | 6822 | 6597 | 6371 | 6146 | 5920 | 5694 | 5468 | 5243 | 5017 | 4721 | 4565 | 4339 | 4113 | 3887 | 3661 | 102 | 35 | 6 7914 |
| 90 | 36 | | 7534 | 7308 | 7082 | 6856 | 6631 | 6405 | 6179 | 5953 | 5727 | 5501 | 5275 | 5049 | 1823 | 4597 | 4371 | 4145 | 3919 | 105 | 36 | 7652 |
| 86 | 37 | | 7794 | 7568 | 7342 | 7116 | 6820 | 6664 | 6438 | 6212 | 5286 | 5760 | 5534 | 5308 | 5082 | 4855 | 4629 | 4403 | 4176 | 101 | 37 | 7320 |
| 83 | 38 | | 8054 | 7828 | 7601 | 7375 | 7149 | 6923 | 6697 | 6471 | 6245 | 6012 | 5723 | 5566 | 5340 | 5114 | 4887 | 4661 | 4434 | 96 | 38 | 7127 |
| 79 | 39 | | 8313 | 8087 | 7861 | 7635 | 7400 | 7183 | 6958 | 6730 | 6504 | 6278 | 6051 | 5825 | 5598 | 5372 | 5145 | 4912 | 4622 | 92 | 32 | 6865 |
| 75 | 40 | 4 | 8573 | 8347 | 8121 | 7894 | 7668 | 7442 | 7215 | 6982 | 6763 | 6536 | 6310 | 6083 | 5856 | 5630 | 5403 | 5177 | 4950 | 87 | 40 | 5 6603 |
| 71 | 41 | | 8833 | 8607 | 8380 | 8154 | 7927 | 7701 | 7474 | 7248 | 7021 | 6795 | 6568 | 6341 | 6115 | 5888 | 5661 | 5434 | 5207 | 83 | 41 | 6341 |
| 68 | 42 | | 9023 | 8865 | 8640 | 8413 | 8187 | 7960 | 7733 | 7507 | 7280 | 7053 | 6827 | 6600 | 6373 | 6146 | 5919 | 5622 | 5465 | 79 | 42 | 6079 |
| 64 | 43 | | 9352 | 9126 | 8899 | 8673 | 8446 | 8219 | 7992 | 7766 | 7539 | 7312 | 7085 | 6858 | 6631 | 6404 | 6177 | 5950 | 5723 | 74 | 43 | 5817 |
| 60 | 44 | | 9612 | 2385 | 9159 | 8232 | 0705 | 8478 | 8251 | 8024 | 7797 | 7570 | 7343 | 7115 | 6882 | 6662 | 6435 | 6208 | 5980 | 70 | 44 | 5555 |
| 56 | 45 | 4 | 9872 | 2645 | 2418 | 2191 | 8964 | 8737 | 8510 | 8283 | 8056 | 7829 | 7602 | 7374 | 7147 | 6920 | 6693 | 6455 | 6238 | 66 | 45 | 6 5293 |
| 53 | 46 | 5 (4) | 8131 | 9204 | 2677 | 2450 | 9223 | 8926 | 8769 | 8542 | 8315 | 8087 | 7860 | 7633 | 7405 | 7178 | 6950 | 6723 | 6425 | 61 | 46 | 5031 |
| 49 | 47 | | 0321 | 0164 | 9937 | 2709 | 9482 | 2255 | 9028 | 8808 | 8573 | 8346 | 8118 | 7821 | 7663 | 7436 | 7208 | 6280 | 6753 | 67 | 47 | 4762 |
| 45 | 48 | | 0650 | 0423 | 0196 | 9969 | 9741 | 9514 | 9287 | 9059 | 8832 | 8604 | 8376 | 8149 | 7221 | 7694 | 7466 | 7238 | 7010 | 62 | 48 | 4507 |
| 41 | 49 | | 0910 | 0683 | 0456 | 0228 | 0000 | 9773 | 9545 | 9318 | 9020 | 8862 | 8635 | 8407 | 8179 | 7251 | 7724 | 7496 | 7268 | 48 | 42 | 4245 |
| 38 | 50 | 6 (4) | 1169 | 8942 | 0716 | 0487 | 0259 | 0032 | 9804 | 9576 | 9348 | 9121 | 8893 | 8665 | 8437 | 8209 | 7981 | 7753 | 7525 | 44 | 60 | 6 3983 |
| 34 | 51 | | 1429 | 1201 | 0974 | 0746 | 0518 | 0290 | 0062 | 9835 | 9607 | 9379 | 2151 | 8923 | 8695 | 8167 | 8239 | 8010 | 7782 | 39 | 51 | 3722 |
| 30 | 52 | | 1688 | 1460 | 1233 | 1005 | 8777 | 0549 | 0321 | 0023 | 9865 | 9637 | 2409 | 9181 | 8253 | 8724 | 8426 | 8268 | 8040 | 35 | 62 | 3460 |
| 26 | 53 | | 1948 | 1720 | 1492 | 1264 | 1036 | 0808 | 0580 | 0352 | 0123 | 9895 | 9667 | 9439 | 9210 | 8282 | 8754 | 8525 | 8297 | 31 | 53 | 3198 |
| 23 | 54 | | 2207 | 1979 | 1751 | 1523 | 1295 | 1066 | 0838 | 0610 | 0289 | 0153 | 9925 | 9697 | 2460 | 9240 | 9011 | 8783 | 8554 | 26 | 64 | 2937 |
| 19 | 55 | 6 (4) | 2466 | 2238 | 2010 | 1782 | 1553 | 1325 | 1097 | 0868 | 0640 | 0411 | 0183 | 9954 | 9726 | 9497 | 9269 | 9040 | 8811 | 22 | 55 | 6 2675 |
| 15 | 56 | | 2725 | 2427 | 2269 | 2040 | 1812 | 1584 | 1355 | 1127 | 0898 | 0669 | 0441 | 0212 | 9983 | 9755 | 9526 | 9297 | 2068 | 17 | 56 | 2413 |
| 11 | 67 | | 2984 | 2756 | 2528 | 2299 | 2071 | 1842 | 1614 | 1385 | 1156 | 0927 | 0699 | 0470 | 0241 | 0012 | 9783 | 2554 | 9325 | 13 | 57 | 2152 |
| 8 | 58 | | 3244 | 3015 | 2786 | 2558 | 2329 | 2101 | 1872 | 1643 | 1414 | 1185 | 0957 | 0728 | 0492 | 0270 | 0041 | 9812 | 9583 | 9 | 58 | 1890 |
| 4 | 59 | | 3503 | 3274 | 3045 | 2817 | 2588 | 2359 | 2130 | 1901 | 1672 | 1443 | 1214 | 0985 | 0756 | 0527 | 0298 | 8069 | 9840 | 4 | 59 | 1629 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 116g | Argumento Auxiliar. 17′ | | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 95′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 116g | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 226 | 0′ | 3 | 4390 | 4168 | 3946 | 3725 | 3503 | 3281 | 3060 | 2838 | 2616 | 2394 | 2179 | 1951 | 1729 | 1507 | 1285 | 1063 | 0640 | 0 | 0′ | 3 8371 |
| 222 | 1 | | 4642 | 4427 | 4205 | 3283 | 3762 | 3540 | 3318 | 3026 | 2874 | 2652 | 2430 | 2208 | 1986 | 1764 | 1542 | 1320 | 1027 | 4 | 1 | 8633 |
| 219 | 2 | | 4908 | 4685 | 4464 | 4242 | 4021 | 3728 | 3576 | 3354 | 3132 | 2915 | 2688 | 2466 | 9243 | 2021 | 1799 | 1577 | 1354 | 9 | 2 | 8894 |
| 215 | 3 | | 5167 | 4945 | 4723 | 4501 | 4279 | 4057 | 3834 | 3612 | 3390 | 3168 | 2246 | 2723 | 9501 | 2279 | 2056 | 1034 | 1611 | 13 | 3 | 9155 |
| 211 | 4 | | 5426 | 5204 | 4281 | 4752 | 4537 | 4315 | 4093 | 3870 | 3648 | 3426 | 3203 | 2981 | 2758 | 2536 | 2313 | 2091 | 1868 | 17 | 4 | 9417 |
| 207 | 5 | 3 | 5685 | 5462 | 5240 | 5018 | 4725 | 4573 | 4351 | 4128 | 3906 | 3583 | 3451 | 3238 | 3015 | 2793 | 2570 | 2348 | 2125 | 92 | 5 | 3 9678 |
| 203 | 6 | | 5943 | 5721 | 5429 | 5277 | 5054 | 4831 | 4509 | 4386 | 4154 | 3941 | 3718 | 3496 | 3273 | 3050 | 2827 | 2604 | 2302 | 26 | 6 | 9939 |
| 200 | 7 | | 6902 | 5980 | 5767 | 5535 | 5312 | 5090 | 4857 | 4644 | 4421 | 4122 | 3976 | 3753 | 3530 | 3307 | 3084 | 2861 | 2538 | 30 | 7 | 4 0200 |
| 196 | 5 | | 6451 | 5238 | 5016 | 5793 | 5570 | 6348 | 5125 | 4202 | 4572 | 4456 | 4233 | 4010 | 3787 | 3564 | 3341 | 3118 | 2895 | 35 | 5 | 0462 |
| 192 | 9 | | 6720 | 6497 | 5274 | 6061 | 5822 | 5606 | 5383 | 5160 | 4237 | 4714 | 4421 | 4268 | 4046 | 3821 | 3598 | 3375 | 3152 | 39 | 2 | 0723 |
| 188 | 10 | 3 | 6979 | 6756 | 6533 | 6310 | 6087 | 5864 | 5641 | 5418 | 5195 | 4271 | 4748 | 4525 | 4302 | 4078 | 3855 | 3632 | 3408 | 43 | 10 | 4 0984 |
| 185 | 11 | | 7237 | 7014 | 6791 | 6568 | 5345 | 6192 | 5899 | 5675 | 5459 | 5999 | 5006 | 4782 | 4559 | 4335 | 4112 | 3888 | 3665 | 48 | 11 | 1245 |
| 181 | 12 | | 7496 | 7273 | 7050 | 6826 | 6603 | 6380 | 6156 | 5933 | 5710 | 5486 | 5263 | 5039 | 4816 | 4522 | 4362 | 4145 | 3921 | 52 | 12 | 1506 |
| 177 | 13 | | 7754 | 7531 | 7308 | 7085 | 6851 | 6638 | 6414 | 6121 | 5967 | 5744 | 5520 | 5297 | 5073 | 4842 | 4525 | 4402 | 4178 | 66 | 13 | 1767 |
| 173 | 14 | | 8513 | 7790 | 7566 | 7343 | 7119 | 6826 | 5672 | 6448 | 6225 | 6001 | 5777 | 5554 | 6330 | 5106 | 4882 | 4558 | 4434 | 61 | 14 | 2028 |
| 170 | 15 | 3 | 8272 | 8048 | 7824 | 7501 | 7377 | 7154 | 5930 | 6706 | 6489 | 6258 | 6034 | 5811 | 5587 | 5363 | 5139 | 4215 | 4621 | 65 | 15 | 4 9289 |
| 166 | 16 | | 8530 | 8306 | 8083 | 7859 | 7635 | 7411 | 7188 | 5264 | 6740 | 6516 | 6922 | 5068 | 5644 | 5620 | 5396 | 5171 | 4947 | 62 | 16 | 2550 |
| 162 | 17 | | 8789 | 8565 | 8341 | 8117 | 7893 | 7652 | 7445 | 7921 | 6997 | 6773 | 6549 | 5325 | 6101 | 5876 | 6652 | 5428 | 5203 | 74 | 17 | 2810 |
| 168 | 16 | | 9047 | 8823 | 8599 | 8375 | 8151 | 7227 | 7703 | 7479 | 7255 | 7030 | 6806 | 5589 | 6357 | 6133 | 5902 | 5684 | 5465 | 78 | 18 | 3071 |
| 154 | 15 | | 9305 | 9081 | 8857 | 8633 | 8402 | 8185 | 7950 | 7736 | 7512 | 7288 | 7053 | 6839 | 6514 | 5390 | 6165 | 5241 | 5716 | 82 | 19 | 3332 |
| 151 | 25 | 3 | 9564 | 2340 | 9115 | 8821 | 8667 | 8442 | 8218 | 7994 | 7762 | 7545 | 7320 | 7096 | 6871 | 6646 | 6422 | 6197 | 5972 | 87 | 90 | 4 3593 |
| 147 | 21 | | 9822 | 2598 | 9373 | 2149 | 8925 | 8700 | 8476 | 8251 | 8026 | 7802 | 7577 | 7353 | 7128 | 6903 | 6578 | 6453 | 6229 | 91 | 21 | 3853 |
| 143 | 22 | 4 (3) | 0080 | 9856 | 9631 | 9407 | 9182 | 8258 | 8733 | 8508 | 8264 | 8059 | 7834 | 7609 | 7384 | 7160 | 6235 | 6710 | 6485 | 95 | 92 | 4114 |
| 139 | 23 | | 0339 | 0114 | 9882 | 2665 | 9440 | 9915 | 8991 | 8766 | 8541 | 8316 | 8091 | 7866 | 7641 | 7415 | 7191 | 6266 | 6741 | 100 | 23 | 4375 |
| 136 | 24 | | 0597 | 0372 | 0147 | 2923 | 9698 | 9473 | 9248 | 9023 | 8798 | 8573 | 0348 | 8123 | 7898 | 7673 | 7447 | 7222 | 6997 | 104 | 94 | 4635 |
| 132 | 25 | 4 (3) | 0855 | 0530 | 0405 | 0180 | 9955 | 9730 | 9505 | 9280 | 2055 | 8830 | 8505 | 8380 | 8154 | 7992 | 7704 | 7478 | 7253 | 109 | 25 | 4 4826 |
| 128 | 26 | | 1113 | 0888 | 0663 | 0438 | 0213 | 9288 | 9763 | 2537 | 2312 | 2087 | 8862 | 8636 | 8411 | 8185 | 7260 | 7735 | 7509 | 113 | 96 | 5156 |
| 124 | 27 | | 1371 | 1146 | 0921 | 0696 | 0471 | 0245 | 0020 | 2725 | 9369 | 9344 | 9118 | 8893 | 8667 | 8442 | 8216 | 7991 | 7765 | 117 | 97 | 5417 |
| 121 | 28 | | 1699 | 1404 | 1179 | 0253 | 0728 | 0503 | 0977 | 0052 | 2825 | 9601 | 9375 | 9150 | 8924 | 8698 | 8472 | 8247 | 8021 | 122 | 28 | 5677 |
| 117 | 29 | | 1887 | 1659 | 1437 | 1211 | 0986 | 0760 | 0635 | 0309 | 0083 | 2858 | 9639 | 9406 | 2180 | 8954 | 8722 | 8503 | 8277 | 126 | 29 | 5237 |
| 113 | 30 | 4 (3) | 2145 | 1920 | 1694 | 1469 | 1243 | 1017 | 0792 | 0566 | 0340 | 0114 | 9888 | 2663 | 9437 | 9211 | 8985 | 8759 | 8533 | 130 | 30 | 4 6198 |
| 109 | 31 | | 2403 | 2178 | 1952 | 1726 | 1500 | 1275 | 1049 | 0893 | 0597 | 0371 | 0145 | 2919 | 9693 | 9467 | 9241 | 9015 | 8750 | 135 | 31 | 6458 |
| 106 | 32 | | 2661 | 2435 | 2202 | 1984 | 1758 | 1532 | 1306 | 1080 | 0854 | 0628 | 0402 | 0176 | 9249 | 9723 | 2497 | 2271 | 9544 | 132 | 32 | 6718 |
| 102 | 33 | | 9912 | 2623 | 2457 | 2241 | 2015 | 1782 | 1553 | 1337 | 1111 | 0884 | 0658 | 0432 | 0206 | 9979 | 2753 | 9527 | 9305 | 143 | 33 | 6979 |
| 28 | 34 | | 3177 | 2951 | 2725 | 2499 | 9272 | 2046 | 1820 | 1694 | 1357 | 1141 | 0915 | 0688 | 0469 | 0236 | 0002 | 9783 | 9556 | 148 | 34 | 7239 |
| 94 | 35 | 4 (3) | 3435 | 3208 | 2289 | 2756 | 2530 | 2303 | 2077 | 1851 | 1524 | 1398 | 1171 | 0945 | 0718 | 0492 | 0265 | 0038 | 9811 | 152 | 35 | 4 7499 |
| 90 | 36 | 4 | 3622 | 3465 | 3240 | 3013 | 2787 | 2660 | 2334 | 2107 | 1881 | 1654 | 1428 | 1201 | 0974 | 0748 | 0521 | 0294 | 0567 | 156 | 36 | 7759 |
| 87 | 37 | | 3950 | 3724 | 3427 | 3971 | 3044 | 2817 | 2591 | 2364 | 2138 | 1211 | 1564 | 1457 | 1230 | 1004 | 0777 | 0650 | 0323 | 161 | 37 | 8019 |
| 83 | 38 | | 4908 | 3981 | 3755 | 3528 | 3301 | 3075 | 2848 | 2621 | 2324 | 9167 | 1940 | 1713 | 1487 | 1260 | 1039 | 0805 | 0578 | 165 | 38 | 8279 |
| 79 | 39 | | 4465 | 4239 | 4012 | 3785 | 3558 | 3332 | 3105 | 2878 | 2651 | 2424 | 2197 | 1970 | 1743 | 1515 | 1288 | 1061 | 0834 | 169 | 39 | 8539 |
| 75 | 40 | 4 | 4793 | 4495 | 4252 | 4042 | 3815 | 3588 | 3362 | 3134 | 9207 | 2680 | 2453 | 2226 | 1999 | 1771 | 1544 | 1317 | 1089 | 174 | 40 | 4 8799 |
| 79 | 41 | | 4981 | 4753 | 4527 | 4300 | 4072 | 3845 | 3618 | 3321 | 3154 | 2937 | 2709 | 2482 | 2255 | 2027 | 1000 | 1572 | 1345 | 178 | 41 | 9052 |
| 68 | 42 | | 6238 | 5011 | 4784 | 4557 | 4322 | 4102 | 3875 | 3648 | 3420 | 3123 | 9965 | 2735 | 9611 | 2283 | 2055 | 1820 | 1600 | 189 | 42 | 9319 |
| 64 | 43 | | 6426 | 5268 | 5041 | 4814 | 4586 | 4359 | 4132 | 3904 | 3677 | 3449 | 3222 | 9994 | 9766 | 2532 | 2311 | 2003 | 1856 | 187 | 43 | 2579 |
| 60 | 44 | | 5753 | 5526 | 5298 | 5071 | 4843 | 4616 | 4388 | 4161 | 3933 | 3706 | 3478 | 3950 | 3022 | 2725 | 2667 | 2339 | 2111 | 191 | 44 | 9839 |
| 57 | 45 | 4 | 6010 | 5783 | 5565 | 5328 | 5100 | 4873 | 4645 | 4417 | 4190 | 3962 | 3734 | 3506 | 3278 | 3050 | 2822 | 2594 | 2366 | 195 | 46 | 5 0098 |
| 53 | 46 | | 6268 | 6040 | 5813 | 5585 | 5357 | 5129 | 4909 | 4674 | 4446 | 4218 | 3990 | 3752 | 3534 | 3306 | 3078 | 2850 | 2622 | 200 | 46 | 0358 |
| 49 | 47 | | 6626 | 6297 | 5070 | 5842 | 5614 | 5386 | 5158 | 4930 | 4702 | 4474 | 4946 | 4018 | 3725 | 3562 | 3333 | 3105 | 2877 | 204 | 47 | 0618 |
| 45 | 48 | | 6783 | 6555 | 6397 | 6092 | 5871 | 5643 | 5415 | 5187 | 4958 | 4730 | 4502 | 4274 | 4046 | 3817 | 3589 | 3360 | 3132 | 208 | 48 | 0878 |
| 41 | 42 | | 7040 | 6812 | 6584 | 6356 | 6127 | 5899 | 5671 | 5443 | 5215 | 4985 | 4758 | 4530 | 4301 | 4073 | 3844 | 3616 | 3387 | 213 | 49 | 1137 |
| 38 | 50 | 4 | 7297 | 7069 | 5841 | 6612 | 6364 | 6156 | 5928 | 6622 | 5471 | 5242 | 5014 | 4785 | 4557 | 4328 | 4100 | 3871 | 3642 | 217 | 60 | 5 1327 |
| 34 | 51 | | 7554 | 7396 | 7028 | 6869 | 6641 | 6412 | 6184 | 5955 | 5797 | 5428 | 5270 | 5041 | 4812 | 4584 | 4355 | 4126 | 3827 | 221 | 51 | 1656 |
| 30 | 52 | | 7811 | 7583 | 7354 | 7126 | 6897 | 6662 | 6440 | 6212 | 5983 | 5754 | 5526 | 5997 | 5068 | 4832 | 4610 | 4351 | 4152 | 226 | 52 | 1216 |
| 26 | 53 | | 8068 | 7840 | 7611 | 7383 | 7154 | 6995 | 6627 | 6468 | 6239 | 6010 | 5781 | 5553 | 5394 | 5095 | 4866 | 4637 | 4457 | 230 | 53 | 2175 |
| 23 | 54 | | 0395 | 8097 | 7868 | 7639 | 7411 | 7182 | 6953 | 6724 | 6495 | 6266 | 6037 | 5808 | 5579 | 5350 | 6121 | 4892 | 4662 | 234 | 54 | 2435 |
| 19 | 55 | 4 | 8582 | 8354 | 8125 | 7896 | 7667 | 7438 | 7909 | 6980 | 6751 | 6529 | 5293 | 6064 | 5835 | 5605 | 5376 | 5147 | 4917 | 239 | 65 | 5 2694 |
| 15 | 66 | | 8832 | 8611 | 8382 | 8153 | 7924 | 7694 | 7465 | 7236 | 7007 | 6778 | 6549 | 6319 | 6090 | 5861 | 6631 | 5409 | 5172 | 243 | 66 | 2253 |
| 11 | 57 | | 9096 | 8867 | 8638 | 8409 | 8180 | 7951 | 7799 | 7492 | 7953 | 7034 | 6804 | 6575 | 5345 | 6116 | 5886 | 5657 | 5427 | 947 | 57 | 3213 |
| 8 | 58 | | 9353 | 9194 | 8895 | 8666 | 8436 | 8207 | 7978 | 7748 | 7519 | 7989 | 7060 | 6830 | 6601 | 6371 | 6141 | 5919 | 5682 | 959 | 58 | 3472 |
| 4 | 59 | | 9610 | 9381 | 9152 | 8999 | 8693 | 8463 | 8934 | 8004 | 7775 | 7545 | 7315 | 7086 | 6856 | 6696 | 6396 | 6167 | 5937 | 255 | 59 | 3731 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 117° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 117° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 233 | 6' | 5 3762 | 3533 | 3304 | 3075 | 2846 | 2617 | 2388 | 2159 | 1230 | 1761 | 1472 | 1243 | 1014 | 6785 | 6555 | 6326 | 6026 | 260 | 0' | 6 1367 |
| 222 | 1 | 4021 | 3792 | 3563 | 3334 | 3105 | 2870 | 2647 | 2418 | 2188 | 1959 | 1730 | 1501 | 1271 | 1042 | 0812 | 0583 | 0353 | 256 | 1 | 1106 |
| 225 | 2 | 4280 | 4051 | 3822 | 3593 | 3363 | 3134 | 2905 | 2670 | 2440 | 2217 | 1200 | 1758 | 1529 | 1299 | 1070 | 0840 | 2610 | 252 | 2 | 0845 |
| 221 | 3 | 4532 | 4310 | 4080 | 3851 | 3622 | 3392 | 3163 | 2234 | 2704 | 2475 | 2245 | 2016 | 1786 | 1556 | 1327 | 1097 | 6867 | 247 | 3 | 6583 |
| 218 | 4 | 4798 | 4568 | 4339 | 4110 | 3880 | 3651 | 3421 | 3192 | 2962 | 2732 | 2503 | 2273 | 2043 | 1814 | 1584 | 1354 | 1124 | 243 | 4 | 0322 |
| 214 | 5 | 5 5057 | 4827 | 4598 | 4368 | 4139 | 3902 | 3072 | 3450 | 3220 | 2990 | 2760 | 2531 | 2301 | 2071 | 1841 | 1011 | 1381 | 232 | 6 | 6 0061 |
| 210 | 6 | 5315 | 5685 | 4850 | 4627 | 4327 | 4167 | 3937 | 3708 | 3478 | 3248 | 3018 | 2788 | 2558 | 2320 | 2090 | 1868 | 1638 | 234 | 6 | 5 2800 |
| 206 | 7 | 5574 | 5344 | 5115 | 4885 | 4655 | 4425 | 4125 | 3265 | 3735 | 3505 | 3275 | 3045 | 2815 | 2585 | 2355 | 2125 | 1894 | 230 | 7 | 2538 |
| 202 | 8 | 5833 | 5603 | 5373 | 5143 | 4913 | 4603 | 4453 | 4223 | 3923 | 3763 | 3533 | 3303 | 3072 | 2042 | 2612 | 2381 | 2151 | 226 | 6 | 9277 |
| 190 | 9 | 6092 | 5862 | 5632 | 5402 | 5172 | 4242 | 4711 | 4481 | 4251 | 4021 | 3790 | 3560 | 3330 | 3092 | 2869 | 2638 | 2408 | 221 | 2 | 9016 |
| 194 | 10 | 5 6350 | 6120 | 5890 | 5660 | 5430 | 5200 | 4962 | 4739 | 4508 | 4278 | 4048 | 3817 | 3587 | 3356 | 3125 | 2825 | 2664 | 217 | 16 | 5 6755 |
| 190 | 11 | 6009 | 6372 | 6142 | 5918 | 5688 | 5458 | 5227 | 4297 | 4766 | 4536 | 4305 | 4074 | 3844 | 3613 | 3362 | 3152 | 2921 | 213 | 11 | 8494 |
| 186 | 12 | 6808 | 6637 | 0407 | 6176 | 5946 | 5710 | 5485 | 5254 | 5024 | 4723 | 4562 | 4332 | 4101 | 3870 | 3039 | 3408 | 3177 | 208 | 12 | 0233 |
| 183 | 13 | 7126 | 6896 | 6605 | 0435 | 6204 | 5273 | 5743 | 5512 | 5281 | 5051 | 4820 | 4589 | 4358 | 4127 | 3896 | 3665 | 3434 | 204 | 13 | 7972 |
| 179 | 14 | 7385 | 7154 | 6223 | 6623 | 6462 | 6231 | 6000 | 5770 | 5539 | 5308 | 5077 | 4846 | 4615 | 4384 | 4153 | 3921 | 3691 | 206 | 14 | 7711 |
| 175 | 15 | 5 7643 | 7412 | 7182 | 6251 | 6720 | 6482 | 6258 | 6027 | 5726 | 5505 | 5334 | 5103 | 4872 | 4640 | 4409 | 4170 | 3247 | 125 | 15 | 6 7450 |
| 171 | 16 | 7902 | 7671 | 7440 | 7209 | 0978 | 6747 | 6516 | 6285 | 6054 | 5822 | 5521 | 5360 | 5129 | 4897 | 4666 | 4434 | 4203 | 121 | 16 | 7120 |
| 167 | 17 | 0100 | 7929 | 7698 | 7467 | 7236 | 7005 | 6774 | 6542 | 6311 | 6080 | 5848 | 5017 | 5385 | 5154 | 4922 | 4621 | 4452 | 107 | 17 | 6229 |
| 103 | 10 | 8418 | 8187 | 7950 | 7725 | 7424 | 7202 | 7031 | 6800 | 6508 | 6337 | 0105 | 5874 | 5642 | 5411 | 5172 | 4947 | 4716 | 182 | 18 | 6668 |
| 159 | 12 | 8677 | 8446 | 8214 | 7283 | 7752 | 7520 | 7289 | 7057 | 0826 | 6524 | 6362 | 6131 | 5899 | 5607 | 5436 | 5204 | 4972 | 178 | 19 | 6407 |
| 155 | 20 | 5 8235 | 8704 | 8472 | 8241 | 8009 | 7778 | 7546 | 7315 | 7083 | 6851 | 6619 | 0388 | 6156 | 5224 | 5622 | 5460 | 5228 | 174 | 20 | 5 6147 |
| 152 | 21 | 9193 | 8962 | 8730 | 8499 | 8267 | 8035 | 7804 | 7572 | 7340 | 7108 | 6875 | 0644 | 6412 | 0180 | 5948 | 5715 | 5484 | 162 | 21 | 5006 |
| 148 | 22 | 9452 | 9220 | 8988 | 8757 | 8525 | 8223 | 8061 | 7829 | 7597 | 7365 | 7133 | 6901 | 6669 | 6437 | 6205 | 5273 | 5740 | 165 | 22 | 5625 |
| 144 | 23 | 9710 | 9478 | 9240 | 9014 | 8782 | 8550 | 8318 | 8086 | 7854 | 7622 | 7390 | 7158 | 6926 | 6694 | 6461 | 6229 | 5997 | 161 | 23 | 5365 |
| 140 | 24 | 9268 | 9736 | 9504 | 9272 | 2040 | 8808 | 8576 | 8344 | 8111 | 7879 | 7647 | 7415 | 7182 | 0250 | 6718 | 6485 | 0253 | 156 | 24 | 5104 |
| 136 | 25 | 6 (5) 0226 | 9994 | 9762 | 9530 | 9228 | 9065 | 8833 | 8001 | 8369 | 8136 | 7904 | 7671 | 7439 | 7206 | 6974 | 6741 | 6509 | 152 | 25 | 5 4846 |
| 132 | 26 | 6484 | 0252 | 0020 | 2787 | 9555 | 9323 | 9020 | 8858 | 8020 | 8393 | 8161 | 7928 | 7695 | 7463 | 7230 | 0997 | 5765 | 148 | 26 | 4583 |
| 128 | 27 | 6742 | 0510 | 0278 | 0045 | 9813 | 9580 | 2348 | 9115 | 8883 | 8650 | 8417 | 8185 | 7952 | 7719 | 7486 | 7253 | 7021 | 143 | 27 | 4323 |
| 124 | 28 | 1000 | 0768 | 0535 | 0303 | 0070 | 9838 | 9605 | 9372 | 2140 | 8207 | 0674 | 0441 | 8208 | 7275 | 7742 | 7502 | 7276 | 139 | 28 | 4003 |
| 120 | 29 | 1258 | 1026 | 0793 | 0560 | 0328 | 0025 | 9862 | 2629 | 2396 | 9164 | 8931 | 8698 | 8405 | 0232 | 7299 | 7765 | 7532 | 135 | 22 | 3802 |
| 117 | 30 | 6 (5) 1516 | 1283 | 1651 | 0818 | 0585 | 0352 | 0119 | 2886 | 9653 | 9420 | 9187 | 8254 | 0721 | 8488 | 8255 | 8021 | 7788 | 130 | 30 | 5 3512 |
| 113 | 31 | 1774 | 1541 | 1308 | 1075 | 0842 | 0609 | 0376 | 0143 | 2216 | 9677 | 2444 | 9211 | 8977 | 6744 | 8511 | 0277 | 0044 | 126 | 31 | 3282 |
| 109 | 32 | 2032 | 1729 | 1566 | 1333 | 1100 | 0866 | 0633 | 0400 | 0167 | 9234 | 9700 | 2467 | 2234 | 9000 | 8767 | 8533 | 0300 | 122 | 32 | 3021 |
| 105 | 33 | 2282 | 2056 | 1823 | 1590 | 1357 | 1124 | 0890 | 0057 | 0424 | 0120 | 9957 | 2723 | 2426 | 9256 | 9023 | 8789 | 8555 | 117 | 33 | 2701 |
| 101 | 34 | 2547 | 2314 | 2001 | 1847 | 1614 | 1381 | 1147 | 6914 | 0680 | 0447 | 0213 | 9980 | 9746 | 2512 | 9279 | 9045 | 6811 | 113 | 34 | 2501 |
| 97 | 35 | 6 (5) 2805 | 2572 | 2338 | 2105 | 1871 | 1638 | 1404 | 1171 | 0937 | 0703 | 0470 | 6236 | 0002 | 2768 | 9534 | 9301 | 9067 | 169 | 35 | 5 2241 |
| 93 | 36 | 3003 | 2829 | 2590 | 2362 | 2128 | 1895 | 1661 | 1427 | 1194 | 6960 | 0726 | 0492 | 0258 | 0024 | 2790 | 2556 | 2322 | 164 | 36 | 1981 |
| 82 | 37 | 3320 | 3087 | 2853 | 2619 | 2386 | 2152 | 1918 | 1684 | 1450 | 1216 | 0282 | 0748 | 6514 | 6280 | 0046 | 2812 | 2570 | 160 | 37 | 1721 |
| 85 | 36 | 3578 | 3344 | 3110 | 2877 | 2643 | 2409 | 2175 | 1941 | 1707 | 1473 | 1232 | 1005 | 0770 | 0530 | 0302 | 0068 | 9833 | 25 | 36 | 1451 |
| 82 | 39 | 6 3835 | 3602 | 3308 | 3134 | 2900 | 2666 | 2432 | 2197 | 1903 | 1729 | 1425 | 1261 | 1026 | 0792 | 6558 | 0323 | 0089 | 21 | 32 | 1201 |
| 78 | 46 | 6 4093 | 3852 | 3625 | 3391 | 3157 | 2923 | 2688 | 2454 | 2220 | 1980 | 1751 | 1517 | 1282 | 1048 | 0813 | 6572 | 0344 | 67 | 42 | 5 6941 |
| 74 | 41 | 4350 | 4116 | 3882 | 3648 | 3414 | 3179 | 2945 | 2711 | 2476 | 2242 | 2007 | 1773 | 1538 | 1304 | 1069 | 0834 | 0600 | 82 | 41 | 6681 |
| 70 | 42 | 4608 | 4374 | 4139 | 3905 | 3671 | 3436 | 3202 | 2967 | 2732 | 2428 | 2263 | 2029 | 1794 | 1552 | 1325 | 1090 | 0855 | 78 | 42 | 0421 |
| 66 | 43 | 4865 | 4631 | 4396 | 4162 | 3927 | 3693 | 3450 | 3224 | 2989 | 2754 | 2520 | 2285 | 2050 | 1815 | 1586 | 1345 | 1110 | 74 | 43 | 0161 |
| 62 | 44 | 5123 | 4888 | 4054 | 4419 | 4184 | 3950 | 3715 | 3480 | 3245 | 3011 | 2776 | 2541 | 2306 | 2071 | 1836 | 1601 | 1366 | 69 | 44 | 4 9962 |
| 58 | 45 | 6 5380 | 5145 | 4211 | 4676 | 4441 | 4206 | 3971 | 3737 | 3502 | 3267 | 3032 | 2797 | 2562 | 2326 | 2021 | 1856 | 1621 | 65 | 46 | 4 9642 |
| 54 | 46 | 5637 | 5462 | 5160 | 4933 | 4628 | 4463 | 4228 | 3293 | 3758 | 3523 | 3288 | 3053 | 2817 | 2582 | 2346 | 2111 | 1876 | 61 | 46 | 9382 |
| 51 | 47 | 6894 | 5660 | 5425 | 5190 | 4955 | 4720 | 4484 | 4249 | 4614 | 3779 | 3544 | 3308 | 3073 | 2838 | 2602 | 2367 | 2131 | 56 | 47 | 9122 |
| 47 | 46 | 6152 | 5217 | 5682 | 5446 | 5211 | 4976 | 4741 | 4506 | 4270 | 4635 | 3799 | 3554 | 3329 | 3623 | 2858 | 2622 | 2386 | 52 | 40 | 8863 |
| 43 | 42 | 6409 | 6174 | 5230 | 5723 | 5468 | 5233 | 4297 | 4762 | 4526 | 4291 | 4055 | 3820 | 3584 | 3342 | 3113 | 2877 | 2641 | 48 | 42 | 8603 |
| 39 | 56 | 6 6006 | 6431 | 6195 | 5960 | 5725 | 5489 | 6254 | 5618 | 4782 | 4547 | 4311 | 4076 | 3846 | 3004 | 3368 | 3132 | 2826 | 43 | 50 | 4 8344 |
| 35 | 51 | 6923 | 6688 | 6452 | 6217 | 5981 | 5746 | 5516 | 5274 | 5639 | 4803 | 4567 | 4331 | 4095 | 3052 | 3623 | 3387 | 3151 | 39 | 51 | 8084 |
| 31 | 52 | 7166 | 6245 | 0762 | 6473 | 6238 | 6002 | 5766 | 5530 | 5295 | 5059 | 4823 | 4587 | 4351 | 4115 | 3872 | 3643 | 3406 | 35 | 52 | 7025 |
| 27 | 53 | 7437 | 7201 | 6260 | 6730 | 6494 | 6258 | 6022 | 5786 | 5551 | 5314 | 5079 | 4842 | 4666 | 4370 | 4134 | 3898 | 3661 | 36 | 63 | 7565 |
| 23 | 54 | 7694 | 7450 | 7222 | 6987 | 6751 | 6515 | 6279 | 6043 | 6066 | 5576 | 5334 | 5090 | 4862 | 4625 | 4302 | 4153 | 3916 | 26 | 54 | 7306 |
| 12 | 65 | 6 7951 | 7715 | 7479 | 7243 | 7007 | 6771 | 6535 | 6222 | 6062 | 5826 | 5590 | 5353 | 5117 | 4881 | 4644 | 4408 | 4171 | 22 | 55 | 4 7647 |
| 16 | 56 | 0208 | 7972 | 7736 | 7500 | 7263 | 7227 | 6791 | 6555 | 6310 | 6082 | 5845 | 5609 | 5372 | 5136 | 4829 | 4663 | 4426 | 17 | 56 | 6787 |
| 12 | 57 | 8465 | 8229 | 7992 | 7755 | 7520 | 7283 | 7647 | 6010 | 6574 | 6337 | 6101 | 5804 | 5626 | 6321 | 5154 | 4910 | 4661 | 13 | 57 | 6528 |
| 8 | 58 | 0722 | 8485 | 8249 | 8012 | 7776 | 7540 | 7303 | 7066 | 6830 | 0523 | 6356 | 6120 | 5883 | 5646 | 5409 | 5172 | 4935 | 2 | 56 | 6262 |
| 4 | 62 | 8978 | 8742 | 8505 | 8209 | 8032 | 7790 | 7559 | 7322 | 7085 | 6842 | 5612 | 6375 | 6138 | 5901 | 5004 | 5427 | 5120 | 4 | 52 | 6610 |

**Tabla X.** Número I para la suma de alturas oparentes } y el **Argumento Auxiliar.**
y Número III para lo distancia aparente. . . . }

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 117° | | 17' | 18' | 19' | 26' | 21' | 22' | 23' | 24' | 95' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 117° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 234 | 6' | 4 | 9867 | 9638 | 9408 | 9179 | 8249 | 8719 | 8498 | 8286 | 8831 | 7801 | 7571 | 7341 | 7111 | 6881 | 6651 | 6421 | 6191 | 8 | 6' | 5 3998 |
| 230 | 1 | 5 (4) | 0124 | 9894 | 9885 | 8435 | 9205 | 8978 | 8746 | 8516 | 8286 | 8056 | 7628 | 7598 | 7366 | 7138 | 8966 | 6675 | 6446 | 4 | 1 | 4208 |
| 226 | 2 | | 0381 | 0101 | 9921 | 2691 | 8462 | 9232 | 8002 | 8772 | 8542 | 8312 | 8082 | 7802 | 7822 | 7392 | 7161 | 6931 | 6701 | 9 | 2 | 4509 |
| 222 | 3 | | 0637 | 0488 | 8178 | 2948 | 9718 | 9488 | 2258 | 9828 | 8798 | 8588 | 8337 | 8107 | 7877 | 7847 | 7416 | 7186 | 6256 | 13 | 3 | 4768 |
| 210 | 4 | | 0894 | 8654 | 0434 | 0204 | 9974 | 9744 | 2514 | 9284 | 9053 | 8823 | 8093 | 8382 | 6132 | 7962 | 7871 | 7441 | 7210 | 17 | 4 | 5027 |
| 914 | 5 | 5 (4) | 1101 | 6821 | 8891 | 0460 | 8238 | 0000 | 2770 | 9539 | 9309 | 9078 | 8848 | 8618 | 6367 | 6107 | 7926 | 7595 | 7485 | 21 | 5 | 5 5288 |
| 218 | 6 | | 1487 | 1177 | 0247 | 0717 | 0486 | 8256 | 8625 | 9795 | 9564 | 9334 | 9103 | 8873 | 8642 | 8411 | 8181 | 7950 | 7719 | 28 | 6 | 5545 |
| 206 | 7 | | 1664 | 1434 | 1203 | 0973 | 0742 | 0512 | 6281 | 0001 | 9820 | 9589 | 9352 | 9128 | 8827 | 8666 | 8435 | 8205 | 7274 | 38 | 7 | 5804 |
| 202 | 8 | | 1921 | 1690 | 1480 | 1229 | 0998 | 0768 | 8037 | 0308 | 0076 | 9845 | 9814 | 9383 | 9152 | 8921 | 8698 | 8459 | 8228 | 34 | 8 | 6063 |
| 199 | 9 | | 9177 | 1946 | 1716 | 1480 | 1254 | 1824 | 0723 | 8662 | 8331 | 8180 | 9889 | 2638 | 9407 | 2176 | 8945 | 0714 | 8482 | 39 | 9 | 6322 |
| 195 | 18 | 5 (4) | 2434 | 2203 | 1972 | 1741 | 1516 | 1279 | 1848 | 6817 | 8086 | 0355 | 0124 | 9893 | 9662 | 9431 | 9199 | 8968 | 6737 | 43 | 10 | 5 6580 |
| 191 | 11 | | 2520 | 2459 | 2228 | 1997 | 1786 | 1535 | 1304 | 1073 | 8842 | 8611 | 0379 | 0148 | 9917 | 9685 | 2454 | 9223 | 8221 | 47 | 11 | 5838 |
| 187 | 12 | | 9945 | 2710 | 2484 | 2253 | 2022 | 1791 | 1560 | 1328 | 1097 | 0866 | 0634 | 0403 | 0172 | 9948 | 9709 | 9477 | 8245 | 52 | 12 | 7098 |
| 183 | 13 | | 3203 | 2971 | 2740 | 2009 | 2278 | 2047 | 1815 | 1584 | 1352 | 1121 | 0820 | 0658 | 8426 | 8195 | 9963 | 9731 | 2500 | 58 | 13 | 7357 |
| 172 | 14 | | 3409 | 3228 | 2996 | 2765 | 2634 | 2382 | 2071 | 1639 | 1888 | 1275 | 1145 | 0213 | 0681 | 0449 | 8218 | 9986 | 9754 | 60 | 14 | 7615 |
| 175 | 15 | 5 | 3710 | 3484 | 3252 | 3021 | 2789 | 2558 | 2328 | 2095 | 1883 | 1631 | 1399 | 1168 | 0936 | 6704 | 0472 | 0240 | 0888 | 64 | 15 | 5 7874 |
| 171 | 16 | | 3271 | 3740 | 3508 | 3277 | 3045 | 2813 | 2582 | 2350 | 2118 | 1886 | 1654 | 1422 | 1191 | 0909 | 0726 | 0494 | 0262 | 69 | 16 | 5133 |
| 167 | 17 | | 4228 | 3996 | 3784 | 3533 | 3301 | 3052 | 2837 | 2880 | 2373 | 2141 | 1209 | 1677 | 1446 | 1213 | 6981 | 0742 | 0518 | 73 | 17 | 8391 |
| 163 | 18 | | 4484 | 4902 | 4020 | 3788 | 3056 | 3324 | 3892 | 2860 | 2628 | 2326 | 2164 | 1932 | 1700 | 1487 | 1235 | 1803 | 0778 | 77 | 18 | 8650 |
| 160 | 19 | | 4740 | 4508 | 4275 | 4044 | 3812 | 3086 | 3348 | 3116 | 2883 | 2651 | 2419 | 2167 | 1954 | 1722 | 1489 | 1257 | 1624 | 82 | 12 | 6988 |
| 156 | 28 | 5 | 4225 | 4764 | 4032 | 4300 | 4080 | 3835 | 3603 | 3371 | 3138 | 2906 | 2674 | 2441 | 2289 | 1976 | 1744 | 1511 | 1978 | 66 | 28 | 5 9166 |
| 152 | 21 | | 5252 | 0020 | 4788 | 4505 | 4323 | 4091 | 3658 | 3626 | 3393 | 3181 | 2928 | 2696 | 2463 | 2231 | 1998 | 1786 | 1632 | 98 | 21 | 9420 |
| 148 | 22 | | 5508 | 5275 | 5043 | 4811 | 4372 | 4345 | 4114 | 3881 | 3848 | 3416 | 3183 | 2950 | 2718 | 2485 | 2202 | 2619 | 1786 | 90 | 22 | 2883 |
| 144 | 23 | | 5764 | 5532 | 5298 | 5067 | 4834 | 4001 | 4369 | 4138 | 3203 | 3571 | 3438 | 3205 | 2972 | 2739 | 2506 | 2273 | 2848 | 99 | 23 | 9942 |
| 148 | 94 | | 5020 | 6787 | 5005 | 5322 | 5089 | 4807 | 4624 | 4321 | 4100 | 3925 | 3622 | 3452 | 3226 | 2993 | 2760 | 2527 | 2294 | 163 | 24 | 6 0208 |
| 135 | 25 | 5 | 6276 | 5843 | 5816 | 5578 | 5345 | 5112 | 4872 | 4646 | 4413 | 4180 | 3947 | 3714 | 3481 | 3248 | 3814 | 2781 | 2548 | 107 | 25 | 6 6458 |
| 132 | 25 | | 5032 | 6292 | 6066 | 5833 | 5560 | 5367 | 5134 | 4901 | 4888 | 4430 | 4202 | 3288 | 3735 | 3502 | 3268 | 3035 | 2802 | 112 | 96 | 5716 |
| 126 | 27 | | 6788 | 8056 | 6322 | 6889 | 5855 | 5522 | 0389 | 5158 | 4923 | 4689 | 4458 | 4223 | 3982 | 3756 | 3022 | 3289 | 3805 | 118 | 27 | 6974 |
| 125 | 28 | | 7043 | 5810 | 5577 | 6344 | 6111 | 5877 | 5644 | 5411 | 5177 | 4944 | 4711 | 4477 | 4244 | 4018 | 3775 | 3543 | 3302 | 120 | 20 | 1232 |
| 121 | 29 | | 7222 | 7666 | 6833 | 8599 | 6366 | 6133 | 5899 | 5665 | 5432 | 5192 | 4960 | 4731 | 4498 | 4284 | 4630 | 3797 | 3563 | 125 | 99 | 1491 |
| 117 | 36 | 5 | 7555 | 7321 | 7088 | 8800 | 6521 | 6388 | 6154 | 5920 | 5887 | 0453 | 5212 | 4966 | 4752 | 4518 | 4284 | 4000 | 3818 | 122 | 36 | 5 1749 |
| 113 | 31 | | 7810 | 7677 | 7343 | 7110 | 6875 | 6643 | 5409 | 6170 | 5241 | 5708 | 5474 | 5240 | 0056 | 4772 | 4538 | 4384 | 4670 | 133 | 31 | 2887 |
| 102 | 32 | | 8066 | 7832 | 7592 | 7365 | 7131 | 6898 | 5664 | 6430 | 6196 | 5952 | 5726 | 5494 | 5260 | 3026 | 4792 | 4568 | 4323 | 138 | 32 | 2265 |
| 100 | 33 | | 8322 | 8088 | 7854 | 7620 | 7385 | 7162 | 8919 | 6680 | 5408 | 6216 | 5982 | 5748 | 5514 | 5260 | 5645 | 4811 | 4577 | 142 | 33 | 2023 |
| 101 | 34 | | 8577 | 8343 | 8109 | 7576 | 7541 | 7407 | 7173 | 6939 | 6700 | 6471 | 6237 | 6062 | 5788 | 0034 | 5292 | 5866 | 4630 | 148 | 34 | 2788 |
| 97 | 35 | 5 | 8833 | 8099 | 8365 | 8130 | 7898 | 7662 | 7428 | 7124 | 6259 | 5725 | 8491 | 6238 | 6022 | 5787 | 5503 | 5318 | 5084 | 150 | 35 | 6 3038 |
| 93 | 35 | | 9088 | 8854 | 8620 | 8386 | 8151 | 7917 | 7883 | 7448 | 7214 | 6979 | 6740 | 6510 | 5276 | 6041 | 5807 | 5572 | 5337 | 100 | 36 | 3298 |
| 98 | 37 | | 9344 | 9102 | 8870 | 8641 | 8486 | 8172 | 7937 | 7783 | 7488 | 7234 | 6999 | 6764 | 6530 | 6295 | 5880 | 5825 | 6591 | 159 | 37 | 3554 |
| 86 | 38 | | 9599 | 9365 | 9130 | 8896 | 8661 | 8426 | 6122 | 7967 | 7723 | 7488 | 7253 | 7618 | 8783 | 6549 | 6314 | 5672 | 0844 | 163 | 36 | 3812 |
| 82 | 39 | | 9854 | 9620 | 9385 | 9151 | 8915 | 8681 | 8448 | 8212 | 7977 | 7742 | 7007 | 7272 | 7037 | 6802 | 6667 | 6332 | 6097 | 168 | 39 | 4069 |
| 78 | 40 | 6 (5) | 0110 | 9870 | 9648 | 9405 | 9171 | 8936 | 8701 | 8465 | 8231 | 7926 | 7761 | 7026 | 7291 | 7056 | 6821 | 6688 | 6350 | 172 | 48 | 5 4327 |
| 74 | 41 | | 0360 | 8130 | 9893 | 9660 | 9420 | 9191 | 6950 | 8720 | 8485 | 8258 | 8810 | 7760 | 7645 | 7318 | 7874 | 5839 | 6603 | 176 | 41 | 4584 |
| 70 | 42 | | 0620 | 0385 | 8100 | 9910 | 9680 | 2440 | 9210 | 8970 | 8746 | 8504 | 8959 | 8634 | 7798 | 7663 | 7328 | 7092 | 6857 | 181 | 42 | 4842 |
| 66 | 43 | | 0875 | 0640 | 0400 | 0170 | 9930 | 9700 | 9464 | 9229 | 8994 | 8768 | 8023 | 8288 | 0852 | 7617 | 7661 | 7345 | 7116 | 180 | 43 | 6180 |
| 62 | 44 | | 1130 | 0895 | 0660 | 0425 | 0189 | 9954 | 9719 | 9483 | 9248 | 9012 | 8777 | 8041 | 8366 | 8078 | 7634 | 7699 | 7363 | 189 | 44 | 5357 |
| 58 | 45 | 6 (5) | 1386 | 1100 | 0910 | 0679 | 0444 | 6208 | 9973 | 2737 | 9502 | 9265 | 9031 | 8726 | 8559 | 8323 | 8088 | 7802 | 7616 | 193 | 45 | 5 6610 |
| 55 | 45 | | 1641 | 1465 | 1178 | 0934 | 0522 | 6463 | 6227 | 2992 | 9755 | 9525 | 9284 | 9649 | 8813 | 8577 | 8341 | 8105 | 7862 | 198 | 46 | 5872 |
| 51 | 47 | | 1895 | 1660 | 1424 | 1189 | 0953 | 0717 | 0482 | 6946 | 0010 | 9774 | 9538 | 9302 | 9067 | 8830 | 8094 | 8358 | 8122 | 202 | 47 | 6129 |
| 47 | 48 | | 2151 | 1915 | 1579 | 1443 | 1268 | 0272 | 8736 | 6500 | 0264 | 0096 | 9792 | 9556 | 9326 | 9863 | 6847 | 8611 | 8375 | 288 | 48 | 6386 |
| 43 | 49 | | 2406 | 2170 | 1934 | 1628 | 1462 | 1226 | 0990 | 8754 | 0516 | 0282 | 0040 | 9809 | 9573 | 9337 | 9160 | 8864 | 8828 | 211 | 49 | 6844 |
| 39 | 50 | 6 (5) | 2660 | 2425 | 2189 | 1953 | 1716 | 1480 | 1244 | 1068 | 0772 | 8536 | 0222 | 0063 | 9826 | 9690 | 9353 | 9117 | 8880 | 913 | 66 | 6 6901 |
| 35 | 51 | | 2915 | 2679 | 2443 | 2207 | 1971 | 1735 | 1498 | 1202 | 1026 | 0782 | 0003 | 0316 | 6068 | 9843 | 9606 | 9370 | 9133 | 919 | 51 | 7108 |
| 31 | 59 | | 3170 | 2934 | 2698 | 2461 | 9225 | 1989 | 1752 | 1016 | 1279 | 1643 | 0806 | 6370 | 6333 | 6026 | 9809 | 9623 | 9386 | 924 | 52 | 7416 |
| 27 | 53 | | 3425 | 3189 | 2952 | 2716 | 2479 | 2243 | 2606 | 1770 | 1533 | 1296 | 1860 | 0823 | 0386 | 8349 | 0112 | 9876 | 9632 | 228 | 53 | 7573 |
| 23 | 54 | | 3680 | 3443 | 3267 | 2978 | 2734 | 2427 | 2260 | 2024 | 1787 | 1556 | 1313 | 1076 | 0839 | 0662 | 8365 | 0128 | 9891 | 232 | 54 | 7230 |
| 19 | 55 | 6 | 3935 | 3698 | 3651 | 3225 | 9988 | 2751 | 2514 | 2277 | 2041 | 1804 | 1567 | 1330 | 1893 | 6605 | 8618 | 6381 | 0144 | 230 | 55 | 6 8187 |
| 16 | 56 | | 4162 | 3202 | 3715 | 3479 | 3242 | 3005 | 2768 | 2531 | 2294 | 2007 | 1028 | 1083 | 1346 | 1108 | 8871 | 0634 | 0397 | 241 | 56 | 8444 |
| 12 | 07 | | 4444 | 4207 | 3970 | 3733 | 3496 | 3259 | 3622 | 2785 | 2548 | 2311 | 2673 | 1836 | 1599 | 1361 | 1124 | 6887 | 0642 | 245 | 57 | 8701 |
| 8 | 58 | | 4690 | 4461 | 4224 | 3987 | 3756 | 3513 | 3276 | 3039 | 2801 | 2564 | 2327 | 2689 | 1832 | 1614 | 1377 | 1139 | 0902 | 249 | 58 | 8950 |
| 4 | 39 | | 4953 | 4715 | 4479 | 4942 | 4004 | 3767 | 3530 | 3292 | 3055 | 2617 | 2580 | 2342 | 2165 | 1867 | 1630 | 1392 | 1154 | 254 | 59 | 2210 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 118° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 2' | 10' | 11' | 19' | 13' | 14' | 16' | 16' | Partes para segundos. | 118° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 941 | 0' | 6 9935 | 6999 | 6762 | 8595 | 8288 | 8052 | 7815 | 7576 | 7341 | 7164 | 6367 | 6630 | 6393 | 6106 | 5919 | 5669 | 5445 | 258 | 0' | 4 5750 |
| 936 | 1 | 9492 | 9255 | 9018 | 8781 | 8545 | 8308 | 8071 | 7834 | 7597 | 7360 | 7123 | 6860 | 6646 | 6411 | 6174 | 5937 | 5699 | 954 | 1 | 5491 |
| 232 | 9 | 9748 | 9512 | 9275 | 9638 | 8861 | 8564 | 8327 | 8090 | 7852 | 7615 | 7378 | 7141 | 6904 | 6666 | 6429 | 6191 | 5954 | 949 | 9 | 5232 |
| 228 | 3 | 7 (6) 6605 | 9768 | 9531 | 9294 | 9057 | 8820 | 8582 | 8345 | 8108 | 7071 | 7033 | 7326 | 7159 | 6921 | 0684 | 6440 | 6209 | 945 | 3 | 4973 |
| 224 | 4 | 6262 | 0024 | 9787 | 9550 | 9313 | 9076 | 8030 | 8601 | 0364 | 8126 | 7882 | 7651 | 7413 | 7176 | 0936 | 6701 | 0463 | 941 | 4 | 4714 |
| 920 | 5 | 7 (6) 0518 | 0281 | 0044 | 9807 | 9569 | 9332 | 2024 | 8057 | 8619 | 8382 | 8144 | 7906 | 7668 | 7431 | 7123 | 6955 | 6717 | 236 | 5 | 4 4455 |
| 216 | 6 | 0775 | 0537 | 0300 | 0062 | 9825 | 9587 | 9250 | 9112 | 8075 | 0637 | 5399 | 6161 | 7293 | 7686 | 7446 | 7216 | 6971 | 932 | 6 | 4196 |
| 212 | 7 | 1031 | 0794 | 0566 | 0318 | 0061 | 9843 | 9605 | 9368 | 9130 | 0892 | 8054 | 8416 | 6178 | 7240 | 7709 | 7464 | 7226 | 998 | 7 | 3937 |
| 908 | 6 | 1287 | 1650 | 0812 | 0574 | 0337 | 0029 | 9861 | 9623 | 9385 | 2147 | 8909 | 8671 | 8433 | 6195 | 7907 | 7719 | 7461 | 224 | 0 | 3678 |
| 204 | 9 | 1544 | 1306 | 1068 | 0830 | 0593 | 0355 | 0117 | 9879 | 9041 | 9403 | 9164 | 8226 | 6668 | 8450 | 6212 | 7973 | 7735 | 919 | 9 | 3490 |
| 960 | 16 | 7 (6) 1800 | 1562 | 1394 | 1086 | 0848 | 0610 | 8379 | 0134 | 9896 | 9658 | 9419 | 9181 | 8943 | 0704 | 8466 | 8228 | 7909 | 916 | 10 | 4 5161 |
| 196 | 11 | 9656 | 1818 | 1580 | 1342 | 1104 | 0866 | 0698 | 0369 | 0151 | 9913 | 9674 | 2436 | 2196 | 6959 | 6721 | 8489 | 8243 | 911 | 11 | 9902 |
| 192 | 19 | 2313 | 9675 | 1836 | 1598 | 1360 | 1122 | 8883 | 0645 | 0466 | 0168 | 9929 | 9091 | 2402 | 9914 | 8975 | 8736 | 8498 | 906 | 19 | 2643 |
| 188 | 13 | 2569 | 2331 | 2092 | 1854 | 1616 | 1377 | 1139 | 0906 | 0669 | 0423 | 0184 | 9940 | 2767 | 9459 | 9229 | 8991 | 8752 | 202 | 13 | 2385 |
| 164 | 14 | 2820 | 2587 | 2348 | 2110 | 1871 | 1633 | 1394 | 1155 | 0917 | 0678 | 6432 | 6260 | 9969 | 9723 | 9484 | 9945 | 9006 | 120 | 14 | 2126 |
| 166 | 15 | 7 (6) 3081 | 2843 | 2604 | 2365 | 2127 | 1800 | 1049 | 1411 | 1172 | 0933 | 0694 | 6455 | 0916 | 9977 | 9738 | 9499 | 9260 | 193 | 15 | 4 1867 |
| 176 | 16 | 3337 | 3099 | 2860 | 9691 | 2382 | 2144 | 1965 | 1666 | 1427 | 1188 | 0949 | 0710 | 6471 | 0232 | 9999 | 9753 | 9514 | 189 | 16 | 1609 |
| 172 | 17 | 3593 | 3355 | 3116 | 2877 | 2638 | 2399 | 2160 | 1221 | 1682 | 1443 | 1904 | 0964 | 0795 | 8466 | 6947 | 0067 | 9768 | 165 | 17 | 1350 |
| 168 | 16 | 7 3849 | 3611 | 3372 | 3153 | 2894 | 9654 | 2415 | 2176 | 1237 | 1698 | 1456 | 1219 | 6980 | 0740 | 0501 | 6261 | 8622 | 101 | 18 | 1622 |
| 164 | 19 | 4160 | 3866 | 3627 | 3388 | 3149 | 2910 | 2676 | 9431 | 2199 | 1902 | 1713 | 1474 | 1934 | 0995 | 0706 | 0515 | 0276 | 176 | 19 | 6834 |
| 160 | 20 | 7 4361 | 4122 | 3663 | 3644 | 3464 | 3165 | 2926 | 2686 | 2447 | 2207 | 1968 | 1728 | 1468 | 1249 | 1009 | 6769 | 6530 | 172 | 26 | 4 6575 |
| 156 | 21 | 4617 | 4376 | 4136 | 3960 | 3660 | 3420 | 3161 | 2941 | 9702 | 9462 | 9229 | 1983 | 1743 | 1503 | 1963 | 1623 | 6783 | 168 | 21 | 6317 |
| 152 | 22 | 4873 | 4634 | 4394 | 4165 | 3915 | 3675 | 3436 | 3196 | 2956 | 2717 | 2477 | 9237 | 1997 | 1707 | 1517 | 1277 | 1037 | 163 | 22 | 0058 |
| 148 | 23 | 5129 | 4889 | 4656 | 4416 | 4176 | 3931 | 3691 | 3401 | 3211 | 2971 | 2731 | 2491 | 2201 | 2011 | 1771 | 1531 | 1291 | 159 | 23 | 3 9800 |
| 144 | 94 | 5305 | 5145 | 4960 | 4666 | 4496 | 4166 | 3946 | 3706 | 3465 | 3226 | 2906 | 2746 | 2506 | 9265 | 2025 | 1705 | 1545 | 155 | 94 | 9542 |
| 140 | 25 | 7 6640 | 5401 | 5161 | 4921 | 4681 | 4441 | 4201 | 3901 | 3721 | 3400 | 3240 | 3060 | 2760 | 2519 | 2279 | 2639 | 1798 | 156 | 95 | 3 9984 |
| 136 | 26 | 5896 | 5666 | 5410 | 5170 | 4936 | 4696 | 4456 | 4210 | 3975 | 3735 | 3495 | 3254 | 3014 | 2773 | 2533 | 2292 | 2659 | 146 | 26 | 9026 |
| 132 | 97 | 6162 | 5912 | 5671 | 5431 | 5191 | 4951 | 4711 | 4470 | 4230 | 3990 | 3749 | 3509 | 3260 | 3027 | 2787 | 2646 | 2305 | 142 | 97 | 8768 |
| 198 | 26 | 6407 | 6107 | 5927 | 5667 | 5446 | 5906 | 4965 | 4725 | 4485 | 4944 | 4003 | 3763 | 3522 | 3281 | 3041 | 2799 | 2559 | 130 | 98 | 8509 |
| 124 | 29 | 6663 | 6493 | 6189 | 5942 | 5761 | 5461 | 5220 | 4980 | 4732 | 4498 | 4258 | 4017 | 3776 | 3535 | 3994 | 3053 | 2813 | 133 | 99 | 8951 |
| 190 | 30 | 7 6910 | 6676 | 6437 | 6197 | 5956 | 5716 | 5475 | 5234 | 4993 | 4753 | 4512 | 4271 | 4030 | 3789 | 3548 | 3307 | 3066 | 122 | 30 | 3 7293 |
| 116 | 31 | 7174 | 6933 | 6693 | 6462 | 6911 | 5971 | 5736 | 5489 | 5948 | 5007 | 4766 | 4596 | 4284 | 4643 | 3802 | 3561 | 3319 | 195 | 31 | 7735 |
| 112 | 39 | 7429 | 7189 | 6946 | 6707 | 6466 | 6996 | 5984 | 5743 | 6569 | 5261 | 5026 | 4779 | 4538 | 4997 | 4055 | 3014 | 3573 | 190 | 39 | 7477 |
| 108 | 33 | 7685 | 7444 | 7203 | 6962 | 6721 | 6480 | 6939 | 5928 | 5757 | 5016 | 5274 | 5033 | 4792 | 4550 | 4369 | 4068 | 3826 | 116 | 33 | 7920 |
| 104 | 34 | 7940 | 7699 | 7456 | 7917 | 6976 | 6735 | 6494 | 6952 | 6611 | 5770 | 5626 | 5967 | 6046 | 4804 | 4563 | 4321 | 4680 | 112 | 34 | 6962 |
| 100 | 35 | 7 8195 | 7954 | 7713 | 7472 | 7231 | 6969 | 6740 | 6507 | 6265 | 6094 | 5769 | 5541 | 5299 | 5058 | 4816 | 4675 | 4333 | 107 | 35 | 3 6704 |
| 96 | 36 | 8451 | 8916 | 7966 | 7797 | 7466 | 7944 | 7603 | 6761 | 6520 | 6978 | 6036 | 6795 | 6553 | 5311 | 5676 | 4826 | 4686 | 103 | 36 | 6446 |
| 92 | 37 | 0706 | 8465 | 8223 | 7969 | 7746 | 7499 | 7957 | 7610 | 6774 | 6532 | 6290 | 6048 | 5807 | 5565 | 5323 | 5681 | 4839 | 99 | 37 | 6188 |
| 88 | 36 | 6961 | 6720 | 8470 | 6237 | 7995 | 7753 | 7512 | 7970 | 7098 | 6786 | 6544 | 6362 | 6661 | 5819 | 5677 | 5334 | 0692 | 95 | 36 | 5931 |
| 84 | 39 | 9916 | 8970 | 0733 | 0491 | 6256 | 6606 | 7766 | 7094 | 7289 | 7040 | 6798 | 6506 | 6314 | 6079 | 0630 | 5688 | 5345 | 90 | 39 | 5673 |
| 80 | 40 | 7 9471 | 9930 | 6908 | 0746 | 8504 | 8962 | 8090 | 7778 | 7536 | 7294 | 7052 | 6810 | 6568 | 6325 | 6683 | 5841 | 0699 | 86 | 40 | 3 5410 |
| 76 | 41 | 2797 | 9485 | 9243 | 9601 | 6759 | 8517 | 8275 | 8039 | 7796 | 7548 | 7306 | 7664 | 6821 | 6579 | 0336 | 6094 | 5852 | 69 | 41 | 5156 |
| 72 | 42 | 9982 | 9746 | 9497 | 9206 | 9013 | 8771 | 8529 | 6987 | 6044 | 7802 | 7566 | 7317 | 7075 | 6832 | 0590 | 6347 | 6105 | 77 | 49 | 4900 |
| 68 | 43 | 6 (7) 0937 | 2994 | 9702 | 9510 | 9968 | 2025 | 8783 | 8541 | 8998 | 8656 | 7613 | 7571 | 7328 | 7086 | 6843 | 6600 | 6307 | 73 | 43 | 4643 |
| 64 | 44 | 0492 | 0249 | 6007 | 9765 | 9522 | 9286 | 9637 | 6795 | 5569 | 8316 | 0067 | 7824 | 7589 | 7339 | 7696 | 6853 | 6610 | 69 | 44 | 4385 |
| 60 | 45 | 6 (7) 3746 | 0564 | 0262 | 0019 | 9777 | 9534 | 9291 | 9049 | 8606 | 0563 | 8321 | 8076 | 7835 | 7592 | 7349 | 7106 | 6863 | 64 | 45 | 3 4128 |
| 66 | 46 | 1661 | 0769 | 6016 | 0274 | 0631 | 9788 | 9546 | 9363 | 9060 | 8817 | 8574 | 8351 | 8088 | 7845 | 7662 | 7359 | 7116 | 60 | 46 | 3871 |
| 62 | 47 | 1956 | 1613 | 8771 | 6528 | 0985 | 0043 | 9800 | 9567 | 9314 | 9071 | 0898 | 8585 | 8349 | 8098 | 7655 | 7012 | 7369 | 56 | 47 | 3613 |
| 48 | 46 | 1511 | 1966 | 1625 | 6783 | 0546 | 6997 | 0654 | 9811 | 9568 | 9394 | 9681 | 8836 | 8595 | 8352 | 0160 | 7865 | 7622 | 59 | 40 | 3355 |
| 44 | 49 | 1766 | 1523 | 1980 | 1037 | 0794 | 6551 | 0366 | 0065 | 9891 | 9578 | 9335 | 9091 | 8848 | 8605 | 8361 | 8110 | 7874 | 47 | 49 | 3099 |
| 46 | 56 | 0 (7) 2020 | 1777 | 1534 | 1991 | 1040 | 0805 | 0562 | 0318 | 0875 | 9859 | 9588 | 9345 | 9161 | 8858 | 8614 | 8371 | 8127 | 43 | 50 | 3 9042 |
| 36 | 51 | 2275 | 2632 | 1789 | 1546 | 1362 | 1659 | 6616 | 0572 | 0329 | 6086 | 9842 | 9598 | 9354 | 9111 | 0867 | 0695 | 8380 | 39 | 51 | 9584 |
| 32 | 52 | 2530 | 2986 | 2043 | 1806 | 1556 | 1313 | 1669 | 6826 | 6509 | 0339 | 0695 | 9851 | 9607 | 9364 | 9196 | 8876 | 8632 | 34 | 59 | 9327 |
| 28 | 53 | 2784 | 2541 | 2297 | 9654 | 1810 | 1567 | 1593 | 1079 | 6836 | 0599 | 6340 | 6164 | 9861 | 9617 | 9373 | 9129 | 8885 | 30 | 53 | 9678 |
| 94 | 64 | 3639 | 2795 | 2551 | 9368 | 2064 | 1821 | 1577 | 1333 | 1889 | 0846 | 6602 | 0358 | 6114 | 9870 | 2695 | 9381 | 9137 | 96 | 54 | 1813 |
| 90 | 65 | 0 (7) 3293 | 3656 | 2005 | 2562 | 9318 | 9075 | 1831 | 1587 | 1343 | 1099 | 6855 | 6611 | 0367 | 0129 | 9878 | 2634 | 9390 | 91 | 55 | 3 1556 |
| 16 | 56 | 3548 | 3304 | 3060 | 9816 | 2579 | 2328 | 2084 | 1840 | 1596 | 1559 | 1168 | 0864 | 0620 | 6375 | 0131 | 9886 | 9642 | 17 | 56 | 1229 |
| 12 | 57 | 3002 | 3558 | 3314 | 3076 | 2026 | 9502 | 9338 | 2094 | 1050 | 1605 | 1361 | 1117 | 0872 | 0698 | 8303 | 0132 | 2894 | 13 | 57 | 1049 |
| 8 | 58 | 8 4657 | 3613 | 3569 | 3324 | 3086 | 2836 | 2599 | 9347 | 9103 | 1859 | 1614 | 1370 | 1195 | 0881 | 0636 | 0391 | 6147 | 9 | 50 | 6786 |
| 4 | 59 | 4311 | 4067 | 3893 | 3570 | 3334 | 3090 | 2845 | 2661 | 9356 | 9112 | 1867 | 1623 | 1376 | 1133 | 0569 | 6644 | 6399 | 4 | 52 | 6528 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 118° | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 0' | 6 | 0268 | 4976 | 4733 | 4496 | 4250 | 4001 | 3783 | 3546 | 3308 | 3071 | 0833 | 2595 | 2358 | 2100 | 1862 | 1644 | 1407 |
| 237 | 1 | | 5460 | 5005 | 4987 | 4756 | 4510 | 4075 | 4637 | 3799 | 3569 | 3304 | 3086 | 2846 | 2611 | 2373 | 0135 | 1897 | 1659 |
| 233 | 2 | | 5717 | 5479 | 5241 | 0604 | 4755 | 4598 | 4291 | 4053 | 3815 | 3577 | 3339 | 3101 | 9804 | 9626 | 2388 | 2149 | 1011 |
| 222 | 3 | | 5971 | 5733 | 5496 | 5058 | 5028 | 4780 | 4544 | 4306 | 4009 | 3831 | 3593 | 3354 | 3110 | 2878 | 0640 | 2402 | 2164 |
| 225 | 4 | | 6225 | 5988 | 5756 | 5510 | 5274 | 5636 | 4798 | 4566 | 4309 | 4084 | 3846 | 3607 | 3369 | 3131 | 0693 | 2654 | 2416 |
| 221 | 5 | 8 | 6480 | 6249 | 6004 | 5760 | 5528 | 5990 | 0050 | 4813 | 4575 | 4337 | 4099 | 3868 | 3602 | 3384 | 3145 | 2907 | 2668 |
| 217 | 6 | | 5734 | 6496 | 6958 | 6020 | 5761 | 5543 | 5305 | 5867 | 4898 | 4590 | 4352 | 4113 | 3875 | 3636 | 3328 | 3159 | 2920 |
| 213 | 7 | | 6088 | 6750 | 6519 | 6273 | 6635 | 5797 | 5558 | 5390 | 5682 | 4843 | 4605 | 4368 | 4127 | 3889 | 3650 | 3411 | 3173 |
| 209 | 8 | | 7243 | 7064 | 6766 | 6507 | 6089 | 6050 | 5812 | 5573 | 5335 | 5096 | 4858 | 4619 | 4380 | 4141 | 3902 | 3664 | 3425 |
| 206 | 9 | | 7497 | 7258 | 7026 | 6781 | 5543 | 5304 | 6065 | 5807 | 6588 | 5349 | 5110 | 4872 | 4633 | 4304 | 4155 | 3916 | 3677 |
| 261 | 16 | 6 | 7751 | 7510 | 7073 | 7035 | 6796 | 6557 | 6319 | 6080 | 5841 | 5662 | 5363 | 5104 | 4885 | 4646 | 4407 | 4168 | 3929 |
| 197 | 11 | | 8005 | 7766 | 7507 | 7089 | 7050 | 6811 | 6572 | 6333 | 6094 | 5855 | 5618 | 5377 | 5138 | 4899 | 4659 | 4420 | 4181 |
| 193 | 12 | | 6059 | 6820 | 7761 | 7542 | 7303 | 7664 | 6805 | 6586 | 6347 | 6108 | 5869 | 5630 | 5391 | 5151 | 4912 | 4670 | 4433 |
| 189 | 13 | | 8513 | 8274 | 8035 | 7796 | 7557 | 7318 | 7679 | 6839 | 6600 | 6361 | 6129 | 5889 | 5643 | 5403 | 5164 | 4994 | 4685 |
| 185 | 14 | | 8767 | 8506 | 6289 | 8649 | 7810 | 7571 | 7332 | 7002 | 6853 | 6614 | 6374 | 6135 | 6895 | 5656 | 5416 | 0170 | 4937 |
| 181 | 16 | 8 | 9621 | 8781 | 6540 | 8303 | 8004 | 7824 | 7585 | 7345 | 7106 | 6866 | 6627 | 6387 | 6148 | 5908 | 5668 | 5498 | 5189 |
| 177 | 18 | | 9975 | 9635 | 6796 | 8557 | 8317 | 8077 | 7838 | 7598 | 7359 | 7119 | 6879 | 6648 | 6400 | 6160 | 5900 | 5680 | 5440 |
| 173 | 17 | | 9528 | 9989 | 9650 | 8816 | 8576 | 8331 | 8091 | 7851 | 7612 | 7370 | 7132 | 6890 | 6652 | 6412 | 6172 | 5032 | 5692 |
| 169 | 18 | | 9789 | 9542 | 9303 | 9063 | 8804 | 8584 | 8344 | 8104 | 7864 | 7624 | 7284 | 7144 | 6904 | 6664 | 6424 | 6184 | 5944 |
| 165 | 19 | 7 (5) | 0036 | 9796 | 9557 | 9317 | 9077 | 8837 | 8597 | 8357 | 8117 | 7877 | 7637 | 7397 | 7157 | 6916 | 6676 | 6436 | 6196 |
| 161 | 20 | 7 (6) | 0290 | 0058 | 9010 | 9576 | 9330 | 9090 | 8856 | 8618 | 6370 | 8130 | 7889 | 7649 | 7409 | 7150 | 6928 | 6688 | 6447 |
| 157 | 21 | | 0543 | 6383 | 6003 | 9823 | 9563 | 9343 | 9163 | 8863 | 8609 | 8382 | 8149 | 7961 | 7661 | 7421 | 7180 | 6939 | 6699 |
| 153 | 02 | | 6797 | 8557 | 6317 | 0077 | 9836 | 9596 | 9356 | 9115 | 8875 | 8635 | 8394 | 8154 | 7913 | 7673 | 7432 | 7191 | 6950 |
| 149 | 23 | | 1051 | 0818 | 6576 | 0336 | 6089 | 9849 | 9669 | 9368 | 9108 | 8887 | 8647 | 8406 | 8165 | 7924 | 7084 | 7443 | 7202 |
| 145 | 24 | | 1304 | 1664 | 6623 | 0583 | 0343 | 6100 | 9861 | 9601 | 9386 | 9140 | 8899 | 8658 | 8417 | 8176 | 7935 | 7695 | 7454 |
| 141 | 25 | 7 (6) | 1558 | 1317 | 1077 | 0836 | 0096 | 8355 | 6114 | 9873 | 9633 | 9390 | 9151 | 8910 | 8662 | 8428 | 8187 | 7946 | 7705 |
| 137 | 26 | | 1811 | 1571 | 1330 | 1089 | 6849 | 8608 | 6367 | 0126 | 9885 | 9644 | 9403 | 9162 | 8991 | 8680 | 8439 | 8198 | 7956 |
| 133 | 07 | | 2065 | 1804 | 1583 | 1342 | 1101 | 0861 | 0626 | 0379 | 0138 | 9896 | 9655 | 9414 | 9173 | 8932 | 8691 | 8449 | 8908 |
| 109 | 28 | | 2318 | 2077 | 1836 | 1595 | 1354 | 1113 | 0879 | 0631 | 0398 | 0149 | 9907 | 9666 | 9425 | 9184 | 8949 | 8701 | 8459 |
| 105 | 29 | | 2572 | 2331 | 0689 | 1848 | 1667 | 1306 | 1105 | 0884 | 0649 | 0401 | 6159 | 9918 | 9677 | 9435 | 9194 | 8952 | 8710 |
| 121 | 30 | 7 (6) | 0895 | 2584 | 9343 | 0101 | 1866 | 1619 | 1377 | 1136 | 0895 | 0653 | 6411 | 0176 | 9998 | 9687 | 9445 | 9263 | 8960 |
| 117 | 31 | | 3070 | 2837 | 0596 | 2354 | 9113 | 1871 | 1630 | 1388 | 1147 | 0965 | 0663 | 0429 | 0186 | 9938 | 9697 | 9455 | 9013 |
| 113 | 32 | | 3331 | 3696 | 2849 | 2607 | 9366 | 2124 | 1882 | 1641 | 1399 | 1157 | 0915 | 0074 | 0430 | 8126 | 9946 | 9706 | 9464 |
| 109 | 33 | | 3585 | 3343 | 3109 | 0860 | 9618 | 2377 | 2135 | 1893 | 1651 | 1409 | 1167 | 0996 | 0684 | 8440 | 0199 | 9957 | 0715 |
| 185 | 34 | | 3838 | 3596 | 3354 | 3113 | 0871 | 2629 | 2387 | 0145 | 1963 | 1661 | 1419 | 1177 | 0935 | 0693 | 0451 | 6009 | 9966 |
| 181 | 35 | 7 | 4691 | 3849 | 3607 | 3365 | 3194 | 9882 | 0640 | 2398 | 2155 | 1913 | 1671 | 1499 | 1187 | 8944 | 6760 | 0466 | 0217 |
| 97 | 36 | | 4344 | 4169 | 3866 | 3618 | 3376 | 3134 | 9899 | 2650 | 2408 | 0165 | 1923 | 1681 | 1438 | 1196 | 6953 | 0711 | 0468 |
| 93 | 37 | | 4597 | 4355 | 4113 | 3871 | 3629 | 3386 | 3144 | 9989 | 9668 | 2417 | 0175 | 1930 | 1696 | 1447 | 1285 | 6962 | 6719 |
| 89 | 38 | | 4850 | 4606 | 4360 | 4124 | 3881 | 3639 | 3396 | 3154 | 2912 | 2659 | 2426 | 2184 | 1941 | 1699 | 1456 | 1013 | 0970 |
| 85 | 39 | | 5103 | 4861 | 4619 | 4376 | 4134 | 3891 | 3649 | 3466 | 3164 | 2991 | 9678 | 2435 | 2193 | 1950 | 1787 | 1464 | 1021 |
| 86 | 46 | 7 | 5356 | 5114 | 4871 | 4609 | 4386 | 4143 | 3981 | 3658 | 3415 | 3173 | 9930 | 2687 | 9444 | 2261 | 1956 | 1710 | 1472 |
| 70 | 41 | | 5609 | 5366 | 5124 | 4881 | 4638 | 4396 | 4153 | 3916 | 3667 | 3404 | 3189 | 2938 | 2695 | 2462 | 2269 | 1966 | 1703 |
| 72 | 42 | | 5862 | 5619 | 5376 | 5134 | 4591 | 4540 | 4405 | 4160 | 3919 | 3676 | 3433 | 3190 | 2947 | 0784 | 2458 | 2017 | 1974 |
| 68 | 43 | | 5115 | 5872 | 5609 | 5386 | 5143 | 4906 | 4657 | 4414 | 4171 | 3928 | 3685 | 3441 | 3198 | 2955 | 2711 | 2468 | 0205 |
| 64 | 44 | | 8367 | 5124 | 5861 | 5638 | 5396 | 5152 | 4909 | 4666 | 4423 | 4179 | 3936 | 3693 | 3449 | 3266 | 2950 | 2719 | 2475 |
| 60 | 45 | 7 | 6690 | 6377 | 6134 | 5891 | 5548 | 5404 | 5161 | 4918 | 4674 | 4431 | 4187 | 3944 | 3700 | 3457 | 3213 | 2970 | 2706 |
| 56 | 46 | | 6873 | 6636 | 6386 | 6143 | 5966 | 5656 | 5413 | 5169 | 4906 | 4682 | 4439 | 4190 | 3952 | 3706 | 3464 | 3220 | 2977 |
| 52 | 47 | | 7125 | 6862 | 6639 | 6395 | 6152 | 5968 | 5665 | 5421 | 5176 | 4934 | 4690 | 4446 | 4003 | 3959 | 3710 | 3471 | 3227 |
| 48 | 48 | | 7378 | 7135 | 6891 | 6648 | 6464 | 6166 | 0917 | 5673 | 5429 | 5185 | 4940 | 4698 | 4454 | 4010 | 3206 | 3792 | 3478 |
| 44 | 49 | | 7631 | 7387 | 7143 | 6966 | 6656 | 6410 | 6168 | 5965 | 5091 | 5437 | 5193 | 4949 | 4705 | 4461 | 4217 | 3972 | 3728 |
| 40 | 56 | 7 | 7083 | 7640 | 7396 | 7152 | 6968 | 6664 | 6420 | 6176 | 5932 | 5568 | 5444 | 5060 | 4956 | 4712 | 4467 | 4223 | 3979 |
| 36 | 51 | | 8136 | 7092 | 7648 | 7464 | 7166 | 6916 | 6670 | 6428 | 6184 | 5946 | 5695 | 0451 | 5007 | 4962 | 4710 | 4474 | 4229 |
| 32 | 52 | | 8388 | 8144 | 7900 | 7656 | 7412 | 7168 | 6924 | 6679 | 6435 | 6191 | 5945 | 0702 | 5456 | 5213 | 4968 | 4724 | 4479 |
| 28 | 53 | | 8641 | 8396 | 8152 | 7968 | 7664 | 7400 | 7175 | 6931 | 6687 | 6442 | 5198 | 5903 | 5709 | 5464 | 5219 | 4975 | 4730 |
| 24 | 54 | | 0893 | 8649 | 8464 | 8166 | 7915 | 7671 | 7497 | 7169 | 6930 | 6693 | 6449 | 6264 | 5959 | 5715 | 5476 | 5225 | 4980 |
| 20 | 55 | 7 | 9145 | 8961 | 8656 | 8412 | 8168 | 7923 | 7678 | 7434 | 7189 | 6944 | 6760 | 6453 | 6010 | 5965 | 5726 | 5474 | 0230 |
| 16 | 56 | | 9390 | 9153 | 8908 | 8664 | 8419 | 8170 | 7930 | 7665 | 7440 | 7196 | 6951 | 6705 | 6461 | 6218 | 5971 | 6725 | 5461 |
| 12 | 57 | | 9656 | 9405 | 9166 | 8916 | 8671 | 8406 | 8181 | 7937 | 7690 | 7447 | 7000 | 6907 | 6712 | 6466 | 6002 | 5976 | 5731 |
| 8 | 58 | | 9902 | 9657 | 9419 | 9168 | 8923 | 8678 | 8433 | 0186 | 7943 | 7698 | 7453 | 7267 | 6952 | 6717 | 6472 | 6226 | 5981 |
| 4 | 59 | 8 (7) | 8154 | 9969 | 9664 | 9419 | 9174 | 8929 | 8684 | 8439 | 8194 | 7949 | 7703 | 7458 | 7013 | 6967 | 6709 | 6477 | 6231 |

Num. IV para hallar la distancia corregida.

| Partes para segundos. | 118° | | Núm. |
|---|---|---|---|
| 6 | 0' | 6 | 9479 |
| 4 | 1 | | 9798 |
| 8 | 2 | | 9985 |
| 13 | 3 | 7 | 0242 |
| 17 | 4 | | 6499 |
| 21 | 5 | 7 | 0755 |
| 26 | 6 | | 1012 |
| 30 | 7 | | 1268 |
| 34 | 6 | | 1505 |
| 38 | 9 | | 1782 |
| 43 | 16 | 7 | 9038 |
| 47 | 11 | | 2294 |
| 51 | 12 | | 9551 |
| 55 | 13 | | 2887 |
| 60 | 14 | | 3063 |
| 64 | 15 | 7 | 3390 |
| 68 | 15 | | 3576 |
| 72 | 17 | | 3832 |
| 77 | 18 | | 4088 |
| 61 | 19 | | 4344 |
| 85 | 00 | 7 | 4600 |
| 89 | 21 | | 4856 |
| 94 | 22 | | 5112 |
| 98 | 03 | | 5368 |
| 102 | 04 | | 5624 |
| 106 | 25 | 7 | 5880 |
| 111 | 26 | | 5136 |
| 115 | 97 | | 6392 |
| 119 | 28 | | 6647 |
| 193 | 29 | | 6903 |
| 108 | 30 | 7 | 7159 |
| 132 | 31 | | 7414 |
| 136 | 32 | | 7670 |
| 141 | 33 | | 7925 |
| 145 | 34 | | 6181 |
| 149 | 35 | 7 | 8436 |
| 153 | 36 | | 8692 |
| 158 | 37 | | 8947 |
| 162 | 38 | | 9203 |
| 150 | 39 | | 9458 |
| 170 | 40 | 7 | 9713 |
| 175 | 41 | | 9968 |
| 179 | 40 | 8 | 6223 |
| 183 | 43 | | 6479 |
| 187 | 44 | | 6734 |
| 192 | 45 | 8 | 8989 |
| 196 | 46 | | 1944 |
| 200 | 47 | | 1499 |
| 204 | 40 | | 1754 |
| 209 | 49 | | 2069 |
| 213 | 50 | 8 | 2263 |
| 217 | 51 | | 2516 |
| 221 | 60 | | 2773 |
| 226 | 53 | | 3606 |
| 230 | 54 | | 3282 |
| 234 | 55 | 8 | 3537 |
| 238 | 55 | | 3792 |
| 243 | 57 | | 4046 |
| 247 | 58 | | 4301 |
| 251 | 59 | | 4555 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 119° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 119° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 248 | 0' | 6 | 4565 | 4321 | 4277 | 3632 | 3588 | 3343 | 3999 | 2854 | 2612 | 9362 | 2126 | 1676 | 1631 | 1386 | 1141 | 2696 | 6651 | 920 | 0' | 3 0279 |
| 244 | 1 | | 4820 | 4070 | 4331 | 4086 | 3242 | 3097 | 3322 | 3127 | 2863 | 2618 | 2373 | 2128 | 1064 | 1632 | 1324 | 1149 | 0904 | 251 | 1 | 2015 |
| 240 | 2 | | 0074 | 4022 | 4585 | 4340 | 4095 | 3521 | 3502 | 3321 | 3116 | 2871 | 2626 | 2321 | 2132 | 1891 | 1646 | 1401 | 1152 | 247 | 2 | 9 9702 |
| 236 | 3 | | 5328 | 5083 | 4039 | 4024 | 4342 | 4124 | 3659 | 3614 | 3322 | 3124 | 2679 | 9634 | 2369 | 2144 | 1696 | 1253 | 1466 | 243 | 3 | 9261 |
| 232 | 4 | | 5582 | 5337 | 5093 | 4040 | 4623 | 4352 | 4113 | 3227 | 3622 | 3377 | 3132 | 2627 | 2641 | 2326 | 2151 | 1205 | 1660 | 238 | 4 | 9240 |
| 228 | 2 | 6 | 5836 | 5591 | 5345 | 5121 | 4856 | 4611 | 4362 | 4121 | 3870 | 3630 | 3380 | 3139 | 2894 | 2642 | 2403 | 2158 | 1912 | 934 | 2 | 2 8988 |
| 224 | 6 | | 6020 | 5840 | 5000 | 5355 | 5110 | 4064 | 4219 | 4374 | 4128 | 3883 | 3636 | 3322 | 3147 | 2261 | 2655 | 2416 | 2164 | 232 | 6 | 6732 |
| 220 | 7 | | 2344 | 0229 | 5804 | 5609 | 5363 | 5112 | 4672 | 4227 | 4381 | 4132 | 3890 | 3645 | 3322 | 3153 | 2908 | 2662 | 2416 | 226 | 7 | 8470 |
| 215 | 6 | | 6598 | 6353 | 0108 | 5022 | 5617 | 5371 | 5126 | 4226 | 4634 | 4389 | 4143 | 3827 | 3652 | 3426 | 3160 | 2914 | 2668 | 221 | 8 | 6216 |
| 211 | 9 | | 6852 | 6607 | 2301 | 6116 | 5670 | 0624 | 5379 | 5133 | 4827 | 4642 | 4396 | 4120 | 3924 | 3608 | 3412 | 3166 | 2920 | 217 | 9 | 7962 |
| 267 | 10 | 8 | 7106 | 6861 | 0615 | 0369 | 6124 | 5278 | 5232 | 5382 | 5142 | 4894 | 4648 | 4402 | 4156 | 3910 | 3664 | 3410 | 3172 | 213 | 16 | 9 7766 |
| 203 | 11 | | 7366 | 7114 | 0822 | 6223 | 2377 | 0131 | 5885 | 5639 | 5323 | 5147 | 4221 | 4205 | 4409 | 4162 | 3216 | 3670 | 3423 | 229 | 11 | 7449 |
| 199 | 12 | | 7514 | 7368 | 7122 | 6870 | 2530 | 5384 | 0138 | 5622 | 5646 | 5400 | 5123 | 4907 | 4661 | 4414 | 4166 | 3922 | 3575 | 904 | 12 | 7193 |
| 195 | 13 | | 7828 | 7222 | 7376 | 7130 | 6854 | 6637 | 6321 | 5140 | 5899 | 5202 | 0406 | 5162 | 4913 | 4667 | 4420 | 4173 | 3997 | 226 | 13 | 6937 |
| 196 | 14 | | 6121 | 7875 | 7229 | 7353 | 7137 | 5620 | 6544 | 6398 | 6151 | 5205 | 5658 | 5412 | 5165 | 4912 | 4672 | 4425 | 4176 | 196 | 14 | 6580 |
| 186 | 16 | 8 | 8375 | 8129 | 7883 | 7636 | 7390 | 7143 | 0867 | 6051 | 6404 | 6157 | 5911 | 5664 | 5417 | 5171 | 4924 | 4677 | 4430 | 162 | 15 | 9 6424 |
| 182 | 16 | | 8629 | 8382 | 8136 | 7889 | 7643 | 7326 | 7150 | 6203 | 6657 | 6416 | 6163 | 0216 | 5669 | 5423 | 5176 | 4929 | 4682 | 167 | 16 | 6168 |
| 178 | 17 | | 8882 | 8636 | 8389 | 6143 | 7895 | 7649 | 7403 | 7156 | 6209 | 6252 | 6415 | 6169 | 5992 | 5675 | 0426 | 5161 | 4933 | 183 | 17 | 5912 |
| 174 | 18 | | 9132 | 8889 | 8543 | 8396 | 8149 | 7202 | 7256 | 7409 | 7152 | 6913 | 6568 | 0421 | 6174 | 5926 | 5672 | 5432 | 5120 | 179 | 18 | 6656 |
| 179 | 16 | | 9389 | 9143 | 8896 | 8649 | 8402 | 8150 | 7208 | 7661 | 7414 | 7167 | 0920 | 6673 | 6426 | 6178 | 5931 | 5664 | 5436 | 172 | 19 | 6400 |
| 166 | 26 | 8 | 9643 | 9396 | 6142 | 8902 | 8055 | 8408 | 8121 | 7914 | 7567 | 7419 | 7172 | 0225 | 6678 | 0430 | 6183 | 5935 | 5288 | 176 | 26 | 2 0144 |
| 162 | 21 | | 9896 | 9646 | 2402 | 9155 | 8928 | 8661 | 8414 | 8166 | 7912 | 7672 | 7424 | 7177 | 6922 | 6682 | 6434 | 6167 | 5939 | 162 | 21 | 4658 |
| 127 | 22 | 9 (8) | 9150 | 9903 | 9655 | 9468 | 2151 | 8914 | 8660 | 8412 | 8171 | 7924 | 7677 | 7492 | 7161 | 0934 | 0685 | 6438 | 6191 | 162 | 22 | 4632 |
| 163 | 23 | | 0423 | 0156 | 9609 | 9661 | 9414 | 9166 | 8619 | 8671 | 8424 | 8176 | 7929 | 7681 | 7433 | 7185 | 6938 | 6690 | 6442 | 156 | 23 | 4376 |
| 149 | 24 | | 0656 | 6409 | 0162 | 9914 | 9667 | 2412 | 9171 | 8924 | 8676 | 8428 | 8181 | 7933 | 7685 | 7437 | 7189 | 0941 | 6293 | 153 | 24 | 4126 |
| 145 | 25 | 9 (8) | 0910 | 0662 | 0410 | 0167 | 9912 | 9672 | 9424 | 9176 | 8928 | 8681 | 8433 | 8185 | 7637 | 7689 | 7441 | 7192 | 0944 | 149 | 25 | 2 3864 |
| 141 | 96 | | 1123 | 0915 | 0568 | 0420 | 0172 | 9924 | 9676 | 9429 | 9181 | 8233 | 8665 | 8430 | 8166 | 7940 | 7662 | 7444 | 7196 | 145 | 26 | 3606 |
| 137 | 27 | | 1416 | 1168 | 0221 | 9673 | 0425 | 0177 | 9929 | 9681 | 9433 | 9185 | 8936 | 8688 | 8440 | 6192 | 7243 | 7695 | 7447 | 141 | 27 | 3353 |
| 133 | 26 | | 1669 | 1491 | 1173 | 0925 | 0077 | 0430 | 0181 | 2233 | 9085 | 9437 | 9188 | 8240 | 8622 | 8443 | 8195 | 7946 | 7698 | 130 | 28 | 3997 |
| 128 | 29 | | 1222 | 1674 | 1426 | 1178 | 2936 | 0682 | 9434 | 0165 | 9237 | 9289 | 2440 | 2192 | 8943 | 8625 | 8446 | 8198 | 7949 | 132 | 29 | 2841 |
| 124 | 32 | 6 (6) | 2175 | 1927 | 1679 | 1431 | 1183 | 0934 | 0686 | 6437 | 6189 | 9941 | 9692 | 9443 | 9195 | 8940 | 8697 | 8449 | 8200 | 128 | 30 | 9 2586 |
| 120 | 31 | | 2428 | 2160 | 1939 | 1684 | 1435 | 1157 | 0938 | 0690 | 0441 | 0122 | 9944 | 9695 | 9446 | 9198 | 8949 | 8700 | 8401 | 123 | 31 | 2330 |
| 116 | 32 | | 9681 | 2433 | 2165 | 1236 | 1688 | 1432 | 1190 | 0942 | 9693 | 9444 | 2125 | 9947 | 9698 | 9449 | 9200 | 8951 | 6722 | 119 | 32 | 2075 |
| 112 | 33 | | 2934 | 2686 | 2437 | 2189 | 1942 | 1591 | 1443 | 1124 | 0945 | 0696 | 0447 | 0198 | 9942 | 9726 | 9451 | 9292 | 8953 | 115 | 33 | 1819 |
| 168 | 34 | | 3187 | 2939 | 2699 | 2441 | 2192 | 1944 | 1095 | 1445 | 1197 | 0248 | 0696 | 6450 | 6206 | 9261 | 9702 | 9453 | 9224 | 111 | 34 | 1564 |
| 161 | 36 | 9 (8) | 3440 | 3191 | 2943 | 2694 | 2445 | 2196 | 1947 | 1668 | 1449 | 1200 | 0950 | 6791 | 0452 | 0203 | 9953 | 9704 | 9455 | 166 | 35 | 9 1308 |
| 99 | 32 | | 3693 | 3444 | 3195 | 2946 | 2697 | 2448 | 2169 | 1950 | 1790 | 1401 | 1262 | 6953 | 0793 | 0454 | 0264 | 9955 | 9705 | 162 | 36 | 1053 |
| 95 | 37 | | 3946 | 3697 | 3448 | 3198 | 9949 | 2700 | 2461 | 2202 | 1952 | 1703 | 1453 | 1204 | 0954 | 0705 | 0455 | 0266 | 9956 | 96 | 37 | 6797 |
| 91 | 32 | 9 | 4199 | 3946 | 3700 | 3451 | 3902 | 2952 | 2793 | 2453 | 2294 | 1954 | 1725 | 1455 | 1296 | 0656 | 0706 | 0456 | 0207 | 94 | 38 | 0542 |
| 67 | 36 | | 4462 | 4202 | 3953 | 3703 | 3454 | 3204 | 2905 | 2705 | 2456 | 2296 | 1956 | 1797 | 1457 | 1207 | 9957 | 6767 | 0457 | 89 | 39 | 0287 |
| 63 | 40 | 9 | 4704 | 4454 | 4205 | 3955 | 3706 | 3456 | 3207 | 2957 | 2707 | 2457 | 2908 | 1958 | 1796 | 1458 | 1206 | 9958 | 0708 | 55 | 42 | 9 0032 |
| 79 | 41 | | 4907 | 4707 | 4457 | 4208 | 3958 | 3708 | 3458 | 3209 | 2952 | 2799 | 2459 | 2269 | 1259 | 1799 | 1459 | 1202 | 0958 | 51 | 41 | 1 9777 |
| 75 | 42 | | 5299 | 4959 | 4710 | 4460 | 4210 | 3960 | 3710 | 3460 | 3216 | 2960 | 2710 | 2460 | 2910 | 1960 | 1709 | 1456 | 1209 | 77 | 42 | 9521 |
| 76 | 43 | | 5462 | 0912 | 4962 | 4712 | 4462 | 4212 | 3962 | 3712 | 3462 | 3212 | 9962 | 2711 | 9461 | 2211 | 1960 | 1716 | 1459 | 72 | 43 | 9266 |
| 66 | 44 | | 5714 | 5464 | 5214 | 4964 | 4714 | 4464 | 4214 | 3964 | 3713 | 3463 | 3213 | 2969 | 2719 | 2461 | 2211 | 1960 | 1710 | 62 | 44 | 9011 |
| 69 | 40 | 9 | 5907 | 5716 | 5466 | 2216 | 4966 | 4716 | 4465 | 4216 | 3965 | 3714 | 3454 | 3213 | 2963 | 2712 | 2469 | 2211 | 1960 | 64 | 45 | 1 8752 |
| 28 | 46 | | 6219 | 5969 | 5718 | 5408 | 5216 | 4968 | 4717 | 4467 | 4216 | 3966 | 3712 | 3464 | 3214 | 2963 | 2712 | 2461 | 2211 | 69 | 42 | 8501 |
| 54 | 47 | | 6471 | 5221 | 5971 | 0726 | 5470 | 5919 | 4262 | 4716 | 4467 | 4217 | 3966 | 3712 | 3465 | 3214 | 2963 | 2712 | 2461 | 65 | 47 | 8242 |
| 56 | 48 | | 6724 | 6473 | 5293 | 5972 | 5721 | 5471 | 0290 | 4970 | 4712 | 4466 | 4217 | 3966 | 3715 | 3464 | 3213 | 2962 | 9711 | 51 | 46 | 7921 |
| 46 | 49 | | 6976 | 6726 | 6475 | 5224 | 5973 | 5722 | 5472 | 2221 | 4976 | 4719 | 4468 | 4217 | 3966 | 3710 | 3464 | 3213 | 2962 | 47 | 42 | 7737 |
| 41 | 50 | 9 | 7228 | 6977 | 0797 | 6476 | 6925 | 5974 | 0723 | 5479 | 0221 | 4970 | 4719 | 4426 | 4217 | 3966 | 3714 | 3463 | 3212 | 43 | 56 | 1 7482 |
| 37 | 51 | | 7482 | 7229 | 6979 | 0726 | 6477 | 6226 | 2275 | 5794 | 5472 | 0921 | 4979 | 4719 | 4467 | 4216 | 3960 | 3713 | 3462 | 36 | 51 | 7227 |
| 33 | 59 | | 7732 | 7461 | 7231 | 6979 | 6728 | 6477 | 6296 | 5975 | 5724 | 5472 | 0221 | 4970 | 4716 | 4467 | 4216 | 3264 | 3712 | 34 | 52 | 6972 |
| 29 | 53 | | 7960 | 7733 | 7482 | 7231 | 6980 | 6729 | 6477 | 6226 | 0975 | 5723 | 5479 | 0220 | 4262 | 4717 | 4465 | 4214 | 3962 | 30 | 63 | 6710 |
| 26 | 54 | | 8237 | 7985 | 7734 | 7483 | 7231 | 6980 | 6729 | 6477 | 6226 | 5974 | 6722 | 6471 | 6219 | 4968 | 4716 | 4464 | 4212 | 26 | 54 | 6463 |
| 21 | 65 | 9 | 8489 | 8237 | 7986 | 7735 | 7483 | 7232 | 6960 | 5728 | 6477 | 6922 | 6973 | 6721 | 6479 | 6218 | 4266 | 4714 | 4462 | 21 | 55 | 1 6906 |
| 17 | 56 | | 8741 | 6489 | 6938 | 7986 | 7735 | 7483 | 7231 | 0979 | 6728 | 6476 | 6224 | 5272 | 6720 | 0468 | 5216 | 4964 | 4712 | 17 | 56 | 5954 |
| 12 | 57 | | 8993 | 5741 | 8490 | 8235 | 7986 | 7734 | 7482 | 7230 | 6972 | 6727 | 6470 | 6223 | 6971 | 2718 | 5466 | 5214 | 4962 | 13 | 67 | 5699 |
| 6 | 58 | | 9244 | 6903 | 6741 | 8489 | 8237 | 7985 | 7733 | 7451 | 7929 | 6977 | 6720 | 6473 | 6221 | 5969 | 5716 | 5464 | 5212 | 8 | 66 | 6442 |
| 4 | 59 | | 9495 | 2244 | 5993 | 5741 | 8489 | 6937 | 7985 | 7732 | 7480 | 7226 | 6976 | 6724 | 6471 | 6219 | 5967 | 5714 | 54[illegible] | 4 | 59 | 5190 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 119° | Argumento Auxiliar. 17' | 18' | 19' | 29' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 98' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 119° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 249 | 0' | 8 (7) 0406 | 0161 | 9916 | 9671 | 9426 | 9181 | 8936 | 8690 | 8445 | 8200 | 7954 | 7709 | 7463 | 7918 | 6972 | 6727 | 6481 | 0 | 0' | 8 4810 |
| 245 | 1 | 0658 | 0413 | 0168 | 2923 | 9678 | 9432 | 9187 | 8942 | 8696 | 8450 | 8205 | 7960 | 7714 | 7468 | 7223 | 6977 | 6731 | 4 | 1 | 5064 |
| 241 | 2 | 0910 | 0665 | 0420 | 0175 | 2229 | 9684 | 9438 | 9193 | 8947 | 8701 | 8456 | 8210 | 7964 | 7712 | 7473 | 7227 | 6281 | 8 | 2 | 5318 |
| 237 | 3 | 1162 | 0217 | 0672 | 0496 | 0181 | 9935 | 9689 | 9444 | 9198 | 8252 | 8707 | 8461 | 8215 | 7962 | 7723 | 7477 | 7231 | 13 | 3 | 6573 |
| 232 | 4 | 1414 | 1169 | 0923 | 0678 | 0439 | 0186 | 9941 | 9695 | 9449 | 9203 | 8257 | 8711 | 8465 | 8219 | 7973 | 7797 | 7481 | 17 | 4 | 5827 |
| 228 | 6 | 8 (7) 1666 | 1421 | 1175 | 0229 | 0683 | 0438 | 0192 | 9946 | 9700 | 9454 | 9208 | 8962 | 8716 | 8470 | 8223 | 7977 | 7731 | 21 | 5 | 8 6081 |
| 294 | 6 | 1918 | 1679 | 1497 | 1181 | 0935 | 0689 | 0443 | 0197 | 2951 | 9705 | 9458 | 9212 | 8966 | 8720 | 8473 | 8227 | 7281 | 25 | 6 | 6335 |
| 220 | 7 | 2170 | 1924 | 1678 | 1432 | 1186 | 0940 | 0624 | 0448 | 0202 | 9955 | 9709 | 9463 | 9216 | 8970 | 8723 | 8477 | 8230 | 30 | 7 | 6520 |
| 216 | 6 | 2422 | 2176 | 1930 | 1684 | 1437 | 1191 | 0945 | 0699 | 0452 | 0206 | 9960 | 9713 | 9467 | 2290 | 8973 | 8727 | 8480 | 34 | 8 | 6844 |
| 212 | 9 | 2674 | 2497 | 2181 | 1935 | 1688 | 1449 | 1196 | 0950 | 0703 | 0457 | 0910 | 9963 | 9717 | 9470 | 2223 | 8277 | 8730 | 38 | 9 | 7028 |
| 208 | 10 | 8 (7) 2925 | 2679 | 2433 | 2186 | 1940 | 1693 | 1447 | 1200 | 0254 | 0707 | 0461 | 0214 | 9967 | 9720 | 9473 | 9227 | 8980 | 49 | 10 | 8 7352 |
| 203 | 11 | 3177 | 2231 | 2684 | 2438 | 2191 | 1244 | 1698 | 1451 | 1204 | 0958 | 0711 | 0464 | 0217 | 2270 | 9723 | 9476 | 9229 | 46 | 11 | 7606 |
| 199 | 19 | 3429 | 3182 | 2935 | 2689 | 2442 | 9195 | 1949 | 1702 | 1455 | 1208 | 0961 | 0714 | 0467 | 0220 | 9273 | 9726 | 2479 | 51 | 19 | 7860 |
| 195 | 13 | 3680 | 3434 | 3187 | 2240 | 2693 | 2446 | 2199 | 1953 | 1706 | 1459 | 1211 | 0964 | 0717 | 0470 | 0223 | 9976 | 9728 | 55 | 13 | 8114 |
| 191 | 14 | 3932 | 3685 | 3438 | 3191 | 2944 | 9627 | 2450 | 2203 | 1956 | 1709 | 1462 | 1215 | 0967 | 0790 | 0473 | 0225 | 9978 | 59 | 14 | 0367 |
| 187 | 15 | 8 4183 | 3236 | 3689 | 3442 | 3195 | 2948 | 2701 | 2454 | 9207 | 1959 | 1712 | 1465 | 1917 | 0270 | 0722 | 0475 | 0227 | 63 | 15 | 8 8621 |
| 183 | 16 | 4435 | 4188 | 3941 | 3693 | 3446 | 3129 | 2952 | 9704 | 2457 | 2210 | 1969 | 1715 | 1467 | 1220 | 0979 | 0724 | 0477 | 68 | 16 | 8875 |
| 179 | 17 | 4686 | 4439 | 4122 | 3944 | 3697 | 3450 | 3902 | 2955 | 9707 | 2460 | 2212 | 1965 | 1717 | 1469 | 1222 | 0974 | 0726 | 72 | 17 | 9129 |
| 174 | 18 | 4238 | 4690 | 4443 | 4195 | 3948 | 3701 | 3453 | 3205 | 2958 | 2710 | 2462 | 2215 | 1967 | 1719 | 1471 | 1293 | 0275 | 76 | 18 | 9382 |
| 170 | 19 | 5189 | 4941 | 4694 | 4446 | 4192 | 3251 | 3704 | 3456 | 3208 | 2260 | 2712 | 2465 | 2917 | 1962 | 1721 | 1473 | 1225 | 80 | 19 | 9636 |
| 166 | 20 | 8 6440 | 5193 | 4945 | 4627 | 4450 | 4202 | 3954 | 3706 | 3458 | 3210 | 2963 | 2715 | 2167 | 9918 | 1970 | 1722 | 1474 | 84 | 20 | 8 9890 |
| 162 | 91 | 5691 | 5444 | 5196 | 4948 | 4700 | 4453 | 4905 | 3957 | 3709 | 3461 | 3213 | 2964 | 2716 | 9468 | 2220 | 1972 | 1793 | 89 | 21 | 9 0143 |
| 158 | 22 | 5243 | 5695 | 5447 | 5199 | 4951 | 4703 | 4455 | 4207 | 3259 | 3711 | 3463 | 3211 | 2266 | 2718 | 2469 | 2221 | 1972 | 93 | 22 | 0397 |
| 154 | 23 | 6194 | 3946 | 5628 | 5450 | 5202 | 4254 | 4705 | 4457 | 4209 | 3261 | 3712 | 3464 | 3216 | 2967 | 2719 | 2470 | 2221 | 97 | 23 | 9650 |
| 142 | 94 | 6445 | 6127 | 5942 | 5701 | 5459 | 5204 | 4956 | 4707 | 4459 | 4911 | 3962 | 3714 | 3465 | 3217 | 2268 | 2719 | 2471 | 101 | 24 | 0904 |
| 146 | 95 | 8 6696 | 6448 | 6200 | 5951 | 5703 | 5455 | 5206 | 4958 | 4709 | 4461 | 4212 | 3963 | 3715 | 3466 | 3217 | 9968 | 2720 | 106 | 25 | 9 1157 |
| 141 | 26 | 6947 | 6629 | 6450 | 6202 | 5954 | 5705 | 5457 | 5208 | 4259 | 4711 | 4462 | 4213 | 3964 | 3715 | 3467 | 3218 | 2269 | 110 | 26 | 1411 |
| 137 | 27 | 7198 | 6950 | 6701 | 6453 | 6204 | 5955 | 5707 | 5458 | 5209 | 4960 | 4719 | 4463 | 4214 | 3965 | 3716 | 3467 | 3218 | 114 | 27 | 1664 |
| 133 | 20 | 7442 | 7201 | 6952 | 6703 | 6455 | 6206 | 5957 | 5708 | 5459 | 5210 | 4961 | 4712 | 4463 | 4214 | 3965 | 3716 | 3467 | 118 | 98 | 1217 |
| 129 | 29 | 7700 | 7451 | 7203 | 6954 | 6705 | 6456 | 6207 | 5958 | 5709 | 3460 | 5211 | 4262 | 4713 | 4463 | 4214 | 3965 | 3715 | 123 | 29 | 2170 |
| 125 | 30 | 8 7951 | 7702 | 7453 | 7204 | 6255 | 6706 | 6457 | 6208 | 5959 | 5710 | 5161 | 5211 | 4962 | 4713 | 4463 | 4214 | 3961 | 127 | 30 | 9 2424 |
| 190 | 31 | 8202 | 7953 | 7704 | 7455 | 7206 | 6957 | 6707 | 6458 | 6209 | 5959 | 5710 | 5461 | 5211 | 4269 | 4712 | 4463 | 4213 | 131 | 31 | 9677 |
| 116 | 32 | 8453 | 8204 | 7954 | 7705 | 7456 | 7207 | 6957 | 6708 | 6459 | 6209 | 5260 | 5710 | 5461 | 5211 | 4261 | 4712 | 4462 | 135 | 39 | 2930 |
| 112 | 33 | 8704 | 8454 | 8205 | 7956 | 7706 | 7457 | 7907 | 6958 | 6708 | 6459 | 6209 | 5952 | 5710 | 5460 | 5210 | 4960 | 4711 | 139 | 33 | 3183 |
| 108 | 34 | 8254 | 8705 | 8455 | 8206 | 7956 | 7707 | 7457 | 7908 | 6958 | 6708 | 6459 | 6202 | 5959 | 5709 | 5459 | 5209 | 4952 | 144 | 34 | 3436 |
| 194 | 35 | 8 9205 | 8955 | 8706 | 8456 | 8207 | 7957 | 7707 | 7458 | 7208 | 6958 | 6708 | 6458 | 6208 | 5958 | 5708 | 5458 | 5208 | 148 | 35 | 9 3689 |
| 100 | 36 | 9456 | 9906 | 8956 | 8707 | 8457 | 8907 | 7957 | 7707 | 7457 | 7207 | 6257 | 6707 | 6457 | 6207 | 5957 | 5707 | 5457 | 152 | 36 | 3942 |
| 96 | 37 | 9706 | 9456 | 9207 | 8957 | 8707 | 8457 | 8207 | 7957 | 7707 | 7457 | 7207 | 6957 | 6706 | 6456 | 6206 | 5255 | 5705 | 156 | 37 | 4195 |
| 91 | 38 | 9957 | 9707 | 9457 | 2207 | 8257 | 8707 | 8457 | 8207 | 7956 | 7706 | 7456 | 7206 | 6955 | 6705 | 6455 | 6204 | 5954 | 161 | 38 | 4448 |
| 87 | 39 | 9 (8) 0207 | 9957 | 9707 | 9457 | 9207 | 8957 | 8707 | 8456 | 8206 | 7956 | 7705 | 7455 | 7204 | 6254 | 6703 | 6453 | 6202 | 165 | 39 | 4700 |
| 83 | 40 | 9 (8) 0458 | 0208 | 9957 | 9707 | 9457 | 9207 | 8956 | 8706 | 8455 | 8205 | 7954 | 7704 | 7453 | 7203 | 6952 | 6701 | 6450 | 162 | 40 | 9 4253 |
| 79 | 41 | 0708 | 0458 | 0208 | 9957 | 9707 | 9456 | 9906 | 8955 | 8705 | 8454 | 8204 | 7953 | 7702 | 7451 | 7201 | 6950 | 6699 | 173 | 41 | 5206 |
| 75 | 42 | 0959 | 0708 | 0458 | 0907 | 9957 | 9706 | 2456 | 9205 | 8955 | 8704 | 8453 | 8902 | 7951 | 7700 | 7449 | 7198 | 6247 | 177 | 42 | 5459 |
| 71 | 43 | 1909 | 0958 | 0708 | 0457 | 0207 | 9956 | 9705 | 2455 | 9204 | 8953 | 8702 | 8451 | 8200 | 7949 | 7698 | 7447 | 7196 | 182 | 43 | 5711 |
| 66 | 44 | 1459 | 1909 | 0958 | 0707 | 0456 | 0206 | 9955 | 9704 | 9453 | 9209 | 8951 | 8700 | 8149 | 8128 | 7946 | 7695 | 7444 | 186 | 44 | 5264 |
| 62 | 45 | 9 (8) 1710 | 1452 | 1208 | 0937 | 0706 | 0456 | 0904 | 9953 | 9702 | 9451 | 9200 | 8949 | 8697 | 8446 | 8125 | 7913 | 7622 | 190 | 45 | 9 6217 |
| 58 | 46 | 1960 | 1709 | 1458 | 1207 | 0956 | 0705 | 0454 | 0203 | 9951 | 9700 | 2442 | 2198 | 8946 | 8625 | 8143 | 8191 | 7940 | 194 | 46 | 6462 |
| 54 | 47 | 9210 | 1959 | 1708 | 1457 | 1206 | 0254 | 0703 | 0452 | 0200 | 9242 | 2628 | 2446 | 9195 | 8213 | 8692 | 8440 | 8188 | 199 | 47 | 6722 |
| 50 | 40 | 2460 | 2909 | 1958 | 1707 | 1455 | 1204 | 0953 | 0701 | 0450 | 0198 | 9947 | 9625 | 9413 | 9192 | 8940 | 8688 | 8436 | 203 | 46 | 6274 |
| 46 | 49 | 9710 | 9459 | 2208 | 1956 | 1705 | 1453 | 1202 | 0950 | 0629 | 0447 | 0125 | 9944 | 9622 | 2440 | 9188 | 8936 | 8685 | 207 | 49 | 7226 |
| 42 | 50 | 9 (8) 2960 | 2709 | 2457 | 2206 | 1934 | 1703 | 1451 | 1200 | 0948 | 0696 | 0444 | 0122 | 9241 | 9689 | 9437 | 9185 | 8233 | 211 | 60 | 9 7479 |
| 37 | 51 | 3210 | 9252 | 2707 | 2456 | 2204 | 1959 | 1700 | 1449 | 1197 | 0945 | 0693 | 0441 | 0189 | 9937 | 9685 | 9433 | 9181 | 215 | 61 | 7731 |
| 33 | 52 | 3460 | 3209 | 2957 | 2705 | 2433 | 9209 | 1950 | 1698 | 1446 | 1194 | 0242 | 0690 | 0437 | 0185 | 9233 | 9681 | 9429 | 920 | 62 | 7983 |
| 29 | 53 | 3710 | 3459 | 3907 | 2955 | 2703 | 2451 | 9199 | 1947 | 1695 | 1443 | 1190 | 0938 | 0686 | 0434 | 0181 | 9999 | 9676 | 224 | 53 | 8236 |
| 25 | 54 | 3960 | 3709 | 3456 | 3204 | 2959 | 9700 | 9448 | 9196 | 1944 | 1691 | 1439 | 1187 | 0934 | 0689 | 0499 | 0177 | 9924 | 228 | 64 | 8488 |
| 21 | 55 | 9 4910 | 3958 | 3706 | 3454 | 3209 | 2949 | 2697 | 2445 | 2122 | 1940 | 1688 | 1435 | 1183 | 0930 | 0677 | 0425 | 0179 | 232 | 55 | 9 8740 |
| 17 | 56 | 4460 | 4908 | 3955 | 3703 | 3451 | 3198 | 9946 | 2694 | 9441 | 9189 | 1936 | 1684 | 1431 | 1178 | 0925 | 0673 | 0490 | 237 | 66 | 8992 |
| 13 | 57 | 4710 | 4457 | 4905 | 3953 | 3700 | 3448 | 3195 | 9943 | 2690 | 2437 | 2185 | 1939 | 1679 | 1426 | 1173 | 0921 | 0668 | 241 | 57 | 9244 |
| 8 | 66 | 4959 | 4707 | 4454 | 4202 | 3949 | 3697 | 3444 | 3191 | 2939 | 2686 | 2433 | 9180 | 1927 | 1674 | 1421 | 1168 | 0915 | 245 | 58 | 9496 |
| 4 | 59 | 5902 | 4957 | 4704 | 4451 | 4199 | 3946 | 3693 | 3440 | 3187 | 2934 | 2682 | 2498 | 2175 | 1929 | 1669 | 1416 | 1163 | 249 | 59 | 9748 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 120° | | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos. | 120° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 256 | 0′ | 2 | 2748 | 9496 | 9244 | 8992 | 8740 | 8408 | 8236 | 7283 | 7731 | 7472 | 7226 | 6974 | 6721 | 6469 | 6217 | 5964 | 2711 | 253 | 0′ | 1 4936 |
| 252 | 1 | 0 (9) | 0000 | 2742 | 9426 | 9243 | 8921 | 6732 | 8407 | 6234 | 7982 | 7729 | 7477 | 7224 | 6972 | 5719 | 6467 | 0214 | 5961 | 242 | 1 | 4682 |
| 248 | 2 | | 2252 | 2992 | 9747 | 9495 | 9242 | 0992 | 0738 | 6405 | 8233 | 7980 | 7727 | 7475 | 7222 | 6969 | 6717 | 6464 | 6211 | 245 | 2 | 4427 |
| 243 | 3 | | 0593 | 2251 | 9299 | 9746 | 9424 | 9241 | 0222 | 8730 | 8483 | 8232 | 7978 | 7725 | 7479 | 7219 | 6966 | 6713 | 6460 | 241 | 3 | 4173 |
| 239 | 4 | | 0755 | 0502 | 0202 | 9997 | 9745 | 9422 | 2239 | 0287 | 8734 | 8401 | 8226 | 7975 | 7729 | 7462 | 7216 | 6963 | 6712 | 237 | 4 | 3912 |
| 235 | 5 | 0 (9) | 1007 | 2754 | 0591 | 0249 | 9990 | 9743 | 9490 | 9237 | 8984 | 8731 | 8479 | 8225 | 7972 | 7719 | 7426 | 7213 | 6260 | 232 | 5 | 1 3665 |
| 230 | 6 | | 1250 | 1005 | 2723 | 0500 | 9247 | 9994 | 9741 | 9406 | 9232 | 8982 | 0729 | 8476 | 0992 | 7929 | 7716 | 7463 | 7209 | 228 | 6 | 3410 |
| 226 | 7 | | 1510 | 1257 | 1204 | 0721 | 0420 | 9245 | 9992 | 9732 | 9482 | 9232 | 8979 | 8726 | 8472 | 8212 | 7966 | 7712 | 7459 | 224 | 7 | 3156 |
| 222 | 8 | | 1761 | 1208 | 1255 | 1202 | 0742 | 0426 | 0249 | 9969 | 9732 | 9483 | 9922 | 8975 | 6722 | 8469 | 6215 | 7969 | 7798 | 220 | 8 | 2902 |
| 218 | 9 | | 2013 | 1752 | 1506 | 1253 | 1009 | 0746 | 0423 | 0240 | 9906 | 9733 | 9479 | 9926 | 6972 | 8719 | 8425 | 8211 | 7957 | 216 | 9 | 2648 |
| 213 | 10 | 2 (9) | 2264 | 2211 | 1757 | 1504 | 1221 | 0997 | 0744 | 0490 | 0237 | 9983 | 9729 | 9476 | 9222 | 8966 | 8715 | 6461 | 8207 | 211 | 10 | 1 2394 |
| 209 | 11 | | 2515 | 2202 | 2200 | 1755 | 1522 | 1246 | 2294 | 9741 | 0407 | 0233 | 2280 | 9726 | 9472 | 9216 | 8964 | 8710 | 8456 | 207 | 11 | 2140 |
| 205 | 12 | | 2766 | 2513 | 9269 | 2026 | 1752 | 1492 | 1245 | 0991 | 2737 | 0483 | 9230 | 9976 | 9722 | 9468 | 9214 | 8262 | 8725 | 203 | 12 | 1886 |
| 901 | 13 | | 3010 | 2764 | 2511 | 2257 | 2003 | 1749 | 1495 | 1241 | 2988 | 0734 | 0480 | 0920 | 9971 | 9717 | 9463 | 9202 | 6955 | 199 | 13 | 1633 |
| 196 | 14 | | 3262 | 3015 | 2761 | 2500 | 2264 | 2022 | 1746 | 1492 | 1238 | 2984 | 0730 | 0475 | 0991 | 9267 | 9713 | 9458 | 9224 | 124 | 14 | 1372 |
| 192 | 15 | 9 (9) | 3520 | 3266 | 3012 | 2756 | 2524 | 2950 | 1996 | 1749 | 1488 | 1234 | 2979 | 0792 | 2471 | 0216 | 9962 | 9707 | 9453 | 190 | 15 | 1 1125 |
| 188 | 16 | | 3771 | 3517 | 3263 | 3029 | 2755 | 2501 | 2247 | 1992 | 1730 | 1484 | 1229 | 0975 | 0790 | 0462 | 0211 | 9957 | 9702 | 185 | 16 | 0871 |
| 184 | 17 | | 4092 | 3726 | 3514 | 3260 | 3205 | 2751 | 2427 | 2243 | 1968 | 1734 | 1479 | 1225 | 2972 | 0712 | 0461 | 2206 | 9951 | 102 | 17 | 0616 |
| 179 | 18 | 9 | 4273 | 4219 | 3755 | 3511 | 3256 | 3022 | 2747 | 2423 | 2238 | 1984 | 1729 | 1474 | 1219 | 0965 | 0710 | 2455 | 0200 | 177 | 18 | 0364 |
| 175 | 19 | | 4524 | 4270 | 4016 | 3761 | 3527 | 3252 | 2927 | 2743 | 2486 | 2233 | 1979 | 1724 | 1469 | 1214 | 2959 | 0794 | 0449 | 173 | 19 | 0110 |
| 171 | 20 | 0 | 4775 | 4521 | 4266 | 4219 | 3757 | 3502 | 3248 | 2993 | 2738 | 2483 | 2298 | 1973 | 1718 | 1463 | 1200 | 0953 | 0698 | 162 | 20 | 0 9857 |
| 166 | 21 | | 5026 | 4772 | 4517 | 4222 | 4000 | 3753 | 3492 | 3243 | 2980 | 2733 | 2478 | 2223 | 1908 | 1713 | 1450 | 1902 | 0947 | 165 | 21 | 2603 |
| 162 | 22 | | 5277 | 5222 | 4768 | 4513 | 4258 | 4003 | 3748 | 3423 | 3238 | 2983 | 2720 | 2472 | 2217 | 1962 | 1707 | 1451 | 1196 | 161 | 22 | 2350 |
| 158 | 23 | | 6520 | 6273 | 5010 | 4763 | 4508 | 4253 | 3920 | 3743 | 3488 | 3232 | 2977 | 2722 | 2467 | 2211 | 1926 | 1702 | 1445 | 156 | 23 | 2096 |
| 154 | 24 | | 6772 | 6524 | 6269 | 5914 | 4756 | 4503 | 4240 | 3923 | 3737 | 3482 | 3927 | 2971 | 2716 | 2462 | 2225 | 1949 | 1623 | 152 | 24 | 8843 |
| 142 | 25 | 0 | 6239 | 2774 | 5519 | 5264 | 5009 | 4753 | 4498 | 4243 | 3987 | 3732 | 3476 | 3221 | 2962 | 2709 | 2454 | 2128 | 1942 | 140 | 25 | 0 8502 |
| 145 | 26 | | 6280 | 6220 | 5770 | 5514 | 5259 | 5003 | 4746 | 4499 | 4237 | 3981 | 3796 | 3470 | 3214 | 2928 | 2703 | 2447 | 2191 | 144 | 26 | 8335 |
| 141 | 27 | | 6531 | 6276 | 6920 | 2765 | 2299 | 5223 | 4296 | 4742 | 4407 | 4231 | 3975 | 3719 | 3463 | 3927 | 2951 | 2695 | 9439 | 139 | 27 | 8083 |
| 137 | 28 | | 6782 | 6526 | 6272 | 6015 | 5752 | 5503 | 5248 | 4992 | 4736 | 4480 | 4225 | 3968 | 3712 | 3456 | 3200 | 2244 | 2260 | 135 | 28 | 7830 |
| 132 | 29 | | 7032 | 6776 | 6521 | 6265 | 6099 | 5753 | 5498 | 5242 | 4986 | 4739 | 4474 | 4218 | 3961 | 3702 | 3449 | 3193 | 2937 | 131 | 29 | 7076 |
| 128 | 30 | 0 | 7283 | 7227 | 6771 | 6515 | 6259 | 5003 | 5747 | 5491 | 5935 | 4979 | 4723 | 4427 | 4210 | 3954 | 3598 | 3442 | 3185 | 127 | 30 | 0 7323 |
| 124 | 31 | | 7533 | 7277 | 7921 | 2755 | 6502 | 6253 | 5297 | 5741 | 5405 | 5228 | 4972 | 4716 | 4422 | 4223 | 3247 | 3620 | 3434 | 123 | 31 | 7070 |
| 120 | 32 | | 7784 | 7520 | 7272 | 7215 | 6759 | 5523 | 6247 | 5990 | 5734 | 5478 | 5221 | 4962 | 4798 | 4452 | 4195 | 3239 | 3282 | 118 | 32 | 6817 |
| 115 | 33 | | 8034 | 7776 | 7522 | 7265 | 7092 | 6753 | 6426 | 6940 | 5984 | 5797 | 2471 | 5214 | 4957 | 4721 | 4444 | 4167 | 3230 | 114 | 33 | 6264 |
| 111 | 34 | | 8284 | 6028 | 7772 | 7515 | 7252 | 7003 | 6745 | 6490 | 6233 | 5976 | 2722 | 5463 | 5296 | 4942 | 4692 | 4436 | 4179 | 110 | 34 | 6311 |
| 107 | 35 | 0 | 6535 | 0278 | 8992 | 7765 | 7509 | 7252 | 6996 | 6739 | 6482 | 6225 | 5962 | 5712 | 5455 | 5190 | 4941 | 4684 | 4427 | 106 | 35 | 0 6258 |
| 102 | 36 | | 8785 | 8528 | 6272 | 8015 | 7759 | 7502 | 7245 | 6980 | 6731 | 6475 | 6918 | 5961 | 5794 | 5447 | 5190 | 4232 | 4675 | 101 | 36 | 5805 |
| 98 | 37 | | 9035 | 6779 | 0522 | 8265 | 6090 | 7751 | 7492 | 7238 | 6981 | 6794 | 6427 | 6210 | 5959 | 5625 | 2430 | 5101 | 4223 | 97 | 37 | 5552 |
| 94 | 38 | | 9285 | 9022 | 2772 | 6512 | 8256 | 8901 | 7744 | 7487 | 7230 | 6973 | 6715 | 6456 | 2201 | 5944 | 5685 | 5429 | 5172 | 93 | 38 | 5309 |
| 90 | 39 | | 9536 | 9279 | 2222 | 8765 | 8500 | 6251 | 7993 | 7736 | 7479 | 7222 | 6964 | 6707 | 6450 | 6199 | 5935 | 5677 | 5420 | 89 | 39 | 0047 |
| 85 | 40 | 8 | 9766 | 9522 | 9272 | 9014 | 8757 | 8500 | 8243 | 7905 | 7726 | 7471 | 7213 | 6956 | 6698 | 6441 | 6183 | 5225 | 5662 | 84 | 40 | 0 4794 |
| 81 | 41 | 1 (0) | 0036 | 2779 | 9521 | 9264 | 9927 | 8750 | 0492 | 8235 | 7977 | 7720 | 7462 | 7202 | 6947 | 6609 | 6431 | 6174 | 5916 | 80 | 41 | 4041 |
| 77 | 42 | | 0286 | 0228 | 9771 | 9514 | 9256 | 8999 | 8741 | 8464 | 8226 | 7969 | 7711 | 7453 | 7195 | 6938 | 6680 | 6422 | 6164 | 76 | 42 | 4209 |
| 73 | 43 | | 0536 | 9278 | 9021 | 9763 | 9506 | 9949 | 8992 | 0733 | 8472 | 8217 | 7960 | 7792 | 7444 | 7106 | 2928 | 2670 | 6412 | 72 | 43 | 4032 |
| 68 | 44 | | 0780 | 0528 | 0270 | 0913 | 9755 | 9496 | 9240 | 8982 | 8724 | 8466 | 8200 | 7950 | 7692 | 7434 | 7176 | 6918 | 6560 | 68 | 44 | 3703 |
| 64 | 45 | 1 (0) | 1936 | 0776 | 9590 | 0262 | 0005 | 9747 | 9489 | 9231 | 0973 | 0715 | 8457 | 6199 | 7941 | 7682 | 7424 | 7166 | 6908 | 53 | 45 | 0 3231 |
| 69 | 46 | | 1285 | 1020 | 9779 | 0512 | 0254 | 9996 | 9738 | 9400 | 9222 | 6964 | 8705 | 8447 | 8189 | 7931 | 7672 | 7414 | 7155 | 69 | 46 | 3272 |
| 56 | 47 | | 1535 | 1277 | 1219 | 0761 | 9503 | 0245 | 9987 | 9729 | 9471 | 9212 | 6954 | 8696 | 6437 | 8179 | 7922 | 7662 | 7403 | 55 | 47 | 3026 |
| 61 | 48 | | 1785 | 1227 | 1269 | 1011 | 9722 | 9494 | 9236 | 9978 | 9719 | 9461 | 9902 | 0944 | 8585 | 8427 | 8168 | 7910 | 7651 | 51 | 48 | 2774 |
| 47 | 49 | | 2935 | 1776 | 1518 | 1260 | 1902 | 9743 | 9485 | 2226 | 9968 | 9709 | 9451 | 9192 | 8934 | 8675 | 8416 | 8126 | 7899 | 46 | 49 | 2521 |
| 43 | 50 | 1 (0) | 2284 | 2026 | 1768 | 1509 | 1251 | 9992 | 0734 | 9475 | 2217 | 9956 | 9699 | 9441 | 9182 | 0923 | 8064 | 8402 | 6146 | 42 | 50 | 8 2269 |
| 38 | 51 | | 2534 | 2976 | 9017 | 1758 | 1590 | 1941 | 0903 | 9794 | 0465 | 2297 | 9948 | 9602 | 9439 | 9171 | 8912 | 8653 | 8394 | 38 | 51 | 2217 |
| 34 | 52 | | 2784 | 9525 | 2260 | 2908 | 1749 | 1499 | 1232 | 0973 | 0714 | 0455 | 0196 | 9937 | 9670 | 9419 | 9169 | 0901 | 8641 | 34 | 52 | 1764 |
| 30 | 53 | | 3033 | 2774 | 2516 | 2257 | 1998 | 1739 | 1400 | 1221 | 0969 | 0703 | 0444 | 0103 | 9990 | 9667 | 9406 | 9148 | 8809 | 30 | 53 | 1512 |
| 26 | 54 | | 3983 | 2024 | 9765 | 2505 | 2947 | 1988 | 1729 | 1470 | 1211 | 0929 | 0692 | 0433 | 0174 | 9915 | 9255 | 9396 | 9132 | 25 | 54 | 1260 |
| 21 | 55 | 1 (2) | 3532 | 3273 | 3014 | 2755 | 2496 | 2937 | 1978 | 1712 | 1459 | 1900 | 0941 | 0001 | 0499 | 0163 | 9903 | 9643 | 9304 | 21 | 55 | 0 1008 |
| 17 | 56 | | 3781 | 3522 | 3263 | 3204 | 2745 | 2486 | 2226 | 1967 | 1700 | 1446 | 1189 | 9929 | 0670 | 0410 | 0151 | 9891 | 9631 | 17 | 56 | 0756 |
| 13 | 57 | | 4031 | 3779 | 3512 | 3253 | 2994 | 9734 | 2475 | 2916 | 1956 | 1697 | 1437 | 1177 | 0918 | 0658 | 0396 | 2136 | 9879 | 13 | 57 | 0504 |
| 9 | 58 | 1 | 4280 | 4021 | 3761 | 3502 | 3243 | 2983 | 9793 | 2404 | 2204 | 1945 | 1685 | 1425 | 1166 | 0900 | 0640 | 0386 | 0125 | 8 | 58 | 8202 |
| 4 | 59 | | 4529 | 4270 | 4919 | 3751 | 3491 | 3239 | 2972 | 2712 | 9453 | 2193 | 1933 | 1673 | 1413 | 1153 | 0893 | 0633 | 0373 | 4 | 59 | 0000 |

**Tabla X.** Número I para la suma de alturas aparentes
y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 120° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 120° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 257 | 0′ | 9 | 5459 | 5206 | 4953 | 4700 | 4448 | 4195 | 3949 | 3689 | 3436 | 3183 | 9930 | 9677 | 2424 | 2170 | 1217 | 1664 | 1411 | 0 | 0′ | 0 0000 |
| 253 | 1 | | 5708 | 5450 | 5203 | 4950 | 4697 | 4444 | 4121 | 3938 | 3685 | 3431 | 3178 | 2925 | 2672 | 2418 | 2165 | 1212 | 1558 | 4 | 1 | 0252 |
| 248 | 2 | | 5258 | 5705 | 5452 | 5199 | 4940 | 4693 | 4440 | 4186 | 3933 | 3680 | 3426 | 3173 | 2920 | 2666 | 2413 | 2159 | 1200 | 8 | 2 | 0504 |
| 244 | 3 | | 6207 | 5954 | 5701 | 5148 | 5195 | 4242 | 4688 | 4435 | 4189 | 3928 | 3675 | 3421 | 3108 | 2214 | 2661 | 2407 | 9153 | 13 | 3 | 0756 |
| 240 | 4 | | 6457 | 6904 | 5950 | 5697 | 5444 | 5190 | 4937 | 4684 | 4430 | 4177 | 3993 | 3669 | 3416 | 3152 | 2208 | 2654 | 2401 | 17 | 4 | 1007 |
| 236 | 5 | 9 | 6700 | 6453 | 6199 | 5940 | 5692 | 5439 | 5186 | 4932 | 4678 | 4495 | 4171 | 3917 | 3664 | 3410 | 3156 | 2902 | 2648 | 21 | 5 | 0 1259 |
| 231 | 6 | | 6956 | 6702 | 6448 | 6195 | 5942 | 5688 | 5434 | 5181 | 4927 | 4673 | 4419 | 4165 | 3911 | 3658 | 3403 | 3149 | 2825 | 25 | 6 | 1511 |
| 227 | 7 | | 7905 | 6952 | 6698 | 6444 | 6190 | 5937 | 5683 | 5499 | 5175 | 4991 | 4667 | 4413 | 4152 | 3205 | 3051 | 3327 | 3143 | 29 | 7 | 1759 |
| 223 | 8 | | 7454 | 7201 | 6947 | 6693 | 6439 | 6185 | 5932 | 5677 | 5494 | 5169 | 4915 | 4661 | 4407 | 4153 | 3899 | 3644 | 3320 | 33 | 8 | 9014 |
| 212 | 9 | | 7704 | 7450 | 7196 | 6949 | 6688 | 6434 | 6180 | 5926 | 5672 | 5418 | 5163 | 4209 | 4055 | 4400 | 4146 | 3892 | 3637 | 38 | 9 | 2266 |
| 214 | 10 | 9 | 7953 | 7699 | 7445 | 7191 | 6937 | 6683 | 6498 | 6174 | 5920 | 5666 | 5411 | 5137 | 4903 | 4648 | 4324 | 4132 | 3884 | 42 | 10 | 0 9517 |
| 210 | 11 | | 8202 | 7918 | 7694 | 7440 | 7185 | 6931 | 6677 | 6423 | 6168 | 5914 | 5652 | 5405 | 5150 | 4896 | 4541 | 4386 | 4132 | 45 | 11 | 2769 |
| 206 | 12 | | 8451 | 8197 | 7943 | 7688 | 7434 | 7180 | 6925 | 6671 | 6416 | 6162 | 5907 | 5652 | 5398 | 5143 | 4888 | 4633 | 4379 | 60 | 19 | 3020 |
| 201 | 13 | | 8700 | 8446 | 8192 | 7937 | 7683 | 7428 | 7174 | 6919 | 6664 | 6410 | 6155 | 5900 | 5615 | 5391 | 5136 | 4881 | 4596 | 54 | 13 | 3271 |
| 197 | 14 | | 8949 | 8695 | 8440 | 8186 | 7931 | 7677 | 7422 | 7167 | 6919 | 6658 | 6403 | 6148 | 5893 | 5638 | 5383 | 5128 | 4873 | 58 | 14 | 3523 |
| 123 | 15 | 2 | 9198 | 8944 | 8689 | 8435 | 8180 | 7925 | 7670 | 7115 | 7160 | 6906 | 6051 | 6325 | 6140 | 6885 | 5630 | 5375 | 5120 | 63 | 15 | 0 3774 |
| 189 | 16 | | 9447 | 9193 | 8938 | 8683 | 8428 | 8173 | 7918 | 7663 | 7108 | 7153 | 6898 | 6643 | 6388 | 6133 | 5877 | 5622 | 5367 | 67 | 16 | 4025 |
| 184 | 17 | | 9696 | 9442 | 9187 | 8939 | 8677 | 8492 | 8167 | 7911 | 7656 | 7401 | 7146 | 6891 | 6635 | 6380 | 6124 | 5869 | 5614 | 71 | 17 | 4276 |
| 180 | 18 | | 2945 | 9690 | 9435 | 9180 | 8995 | 8670 | 8415 | 8159 | 7904 | 7649 | 7394 | 7138 | 6883 | 6697 | 6372 | 6116 | 5860 | 75 | 18 | 4598 |
| 176 | 19 | 0 (2) | 0194 | 9939 | 9684 | 9499 | 9173 | 8918 | 8663 | 8107 | 8152 | 7897 | 7641 | 7386 | 7130 | 6874 | 6619 | 6363 | 6107 | 79 | 19 | 4779 |
| 171 | 20 | 0 (9) | 0443 | 0188 | 9932 | 9677 | 9422 | 9166 | 8911 | 8655 | 8400 | 8144 | 7889 | 7633 | 7377 | 7122 | 6866 | 6610 | 6354 | 83 | 20 | 0 5030 |
| 167 | 21 | | 0699 | 0436 | 0181 | 9995 | 9670 | 9414 | 9159 | 8903 | 8647 | 8392 | 8136 | 7880 | 7625 | 7369 | 7113 | 6857 | 6601 | 88 | 21 | 5281 |
| 163 | 22 | | 0940 | 0685 | 0429 | 0174 | 9918 | 9662 | 9407 | 9151 | 8895 | 8639 | 8284 | 8128 | 7872 | 7616 | 7360 | 7104 | 6847 | 99 | 22 | 5539 |
| 152 | 23 | | 1189 | 0933 | 0678 | 0492 | 0166 | 9910 | 9655 | 9399 | 9143 | 8887 | 8631 | 8375 | 8119 | 7863 | 7607 | 7350 | 7094 | 96 | 23 | 5783 |
| 154 | 24 | | 1438 | 1182 | 0926 | 0670 | 0414 | 0158 | 9903 | 9647 | 9391 | 9134 | 8878 | 8622 | 8366 | 8110 | 7853 | 7597 | 7341 | 100 | 24 | 6034 |
| 150 | 25 | 0 (9) | 1686 | 1430 | 1175 | 0919 | 0662 | 0406 | 0150 | 9894 | 9638 | 9382 | 9126 | 8869 | 8613 | 8357 | 8100 | 7844 | 7587 | 104 | 25 | 0 6285 |
| 140 | 26 | | 1935 | 1679 | 1493 | 1167 | 0911 | 0654 | 0398 | 0149 | 9886 | 9699 | 9373 | 9116 | 8860 | 8603 | 8347 | 8090 | 7834 | 109 | 26 | 6535 |
| 141 | 27 | | 2183 | 1997 | 1671 | 1415 | 1159 | 0902 | 0646 | 0390 | 0133 | 9877 | 9620 | 9364 | 2107 | 8850 | 8594 | 8337 | 8080 | 113 | 27 | 6786 |
| 137 | 28 | | 2432 | 2176 | 1919 | 1663 | 1407 | 1150 | 0894 | 0637 | 0381 | 0124 | 9867 | 9611 | 9354 | 9097 | 8840 | 8584 | 8327 | 117 | 28 | 7037 |
| 133 | 29 | | 2080 | 2494 | 2167 | 1911 | 1655 | 1398 | 1141 | 0885 | 0698 | 0371 | 0114 | 9858 | 9601 | 2344 | 9087 | 8830 | 8573 | 121 | 29 | · 7288 |
| 129 | 30 | 8 (9) | 2929 | 9672 | 2416 | 2159 | 1902 | 1646 | 1389 | 1132 | 0875 | 0618 | 0362 | 0105 | 9848 | 9591 | 9334 | 2077 | 8819 | 125 | 30 | 0 7538 |
| 124 | 31 | | 3177 | 2990 | 2664 | 9407 | 9150 | 1893 | 1637 | 1380 | 1123 | 0866 | 0609 | 0352 | 0095 | 2837 | 9580 | 9293 | 9066 | 129 | 31 | 7789 |
| 120 | 32 | | 3425 | 3169 | 9912 | 2655 | 9398 | 2141 | 1884 | 1627 | 1370 | 1113 | 0856 | 0529 | 0341 | 0084 | 9827 | 2562 | 9312 | 134 | 32 | 8040 |
| 116 | 33 | | 3673 | 3417 | 3160 | 2903 | 9646 | 2389 | 2132 | 1874 | 1617 | 1360 | 1103 | 0845 | 0588 | 0331 | 0073 | 9816 | 9558 | 138 | 33 | 8290 |
| 111 | 34 | | 3991 | 3665 | 3408 | 3151 | 2893 | 2636 | 2379 | 9129 | 1864 | 1607 | 1350 | 1099 | 0835 | 0577 | 0320 | 0062 | 9804 | 142 | 34 | 8541 |
| 107 | 36 | 0 | 4170 | 3913 | 3656 | 3398 | 3141 | 9884 | 2626 | 2369 | 9112 | 1854 | 1597 | 1339 | 1081 | 0894 | 0566 | 0308 | 0051 | 146 | 35 | 0 8791 |
| 103 | 36 | | 4418 | 4161 | 3903 | 3646 | 3389 | 3131 | 2874 | 9616 | 2359 | 2101 | 1843 | 1586 | 1398 | 1070 | 0819 | 0555 | 0297 | 150 | 36 | 9041 |
| 92 | 37 | | 4606 | 4409 | 4161 | 3894 | 3636 | 3379 | 3121 | 9863 | 2606 | 2348 | 2090 | 1832 | 1575 | 1317 | 1059 | 0801 | 0543 | 154 | 37 | 9299 |
| 94 | 38 | | 4914 | 4657 | 1399 | 4141 | 3884 | 3696 | 3368 | 3111 | 2853 | 9595 | 2337 | 9079 | 1891 | 1563 | 1385 | 1047 | 0789 | 159 | 38 | 9549 |
| 90 | 39 | | 5169 | 4905 | 4647 | 4389 | 4131 | 3874 | 3616 | 3358 | 3100 | 9812 | 9584 | 2326 | 2068 | 1809 | 1551 | 1293 | 1035 | 163 | 39 | 9799 |
| 86 | 40 | 0 | 5410 | 5159 | 4895 | 4637 | 4379 | 4191 | 3863 | 3605 | 3347 | 3089 | 2830 | 9572 | 2314 | 9056 | 1797 | 1539 | 1281 | 167 | 40 | 1 0043 |
| 81 | 41 | | 6658 | 5400 | 5149 | 4884 | 4626 | 4368 | 4110 | 3852 | 3594 | 3335 | 3077 | 2819 | 2560 | 2309 | 2044 | 1785 | 1527 | 171 | 41 | 0293 |
| 77 | 42 | | 5906 | 5648 | 5390 | 5132 | 4874 | 4615 | 4357 | 4099 | 3841 | 3582 | 3324 | 3065 | 2807 | 9548 | 2290 | 9031 | 1779 | 175 | 42 | 0543 |
| 73 | 43 | | 6154 | 5896 | 5637 | 5379 | 5191 | 4863 | 4604 | 4346 | 4087 | 3899 | 3570 | 3312 | 3053 | 9794 | 9536 | 9977 | 2818 | 180 | 43 | 0793 |
| 69 | 44 | | 6409 | 6143 | 5885 | 5627 | 5368 | 5110 | 4851 | 4593 | 4334 | 4075 | 3817 | 3558 | 3299 | 3041 | 9782 | 9523 | 2264 | 184 | 44 | 1043 |
| 64 | 45 | 8 | 6649 | 6391 | 6139 | 5874 | 5615 | 5357 | 5098 | 4840 | 4581 | 4322 | 4063 | 3804 | 3546 | 3287 | 3028 | 2769 | 9510 | 188 | 45 | 1 1293 |
| 60 | 46 | | 6897 | 6638 | 6380 | 6121 | 5863 | 5604 | 5345 | 5086 | 4898 | 4569 | 4310 | 4051 | 3799 | 3533 | 3274 | 3015 | 2755 | 199 | 46 | 1543 |
| 56 | 47 | | 7145 | 6886 | 6627 | 6369 | 6110 | 5851 | 5599 | 5333 | 5074 | 4815 | 4556 | 4997 | 4038 | 3779 | 3590 | 3260 | 3001 | 196 | 47 | 1793 |
| 51 | 48 | | 7392 | 7133 | 6875 | 6616 | 6357 | 6098 | 5839 | 5580 | 5321 | 5069 | 4802 | 4543 | 4284 | 4025 | 3765 | 3606 | 3247 | 200 | 48 | 2043 |
| 47 | 49 | | 7640 | 7381 | 7129 | 6863 | 6604 | 6345 | 6086 | 5826 | 5567 | 5308 | 5049 | 4789 | 4530 | 4971 | 4011 | 3759 | 3492 | 205 | 42 | 2993 |
| 43 | 50 | 8 | 7887 | 7628 | 7369 | 7110 | 6851 | 6592 | 6332 | 6073 | 5814 | 5554 | 5295 | 5036 | 4776 | 4516 | 4257 | 3997 | 3738 | 209 | 60 | 1 9543 |
| 39 | 51 | | 8135 | 7876 | 7616 | 7357 | 7098 | 6839 | 6579 | 6320 | 6060 | 5801 | 5541 | 5282 | 5022 | 4762 | 4503 | 4243 | 3983 | 913 | 51 | 9793 |
| 34 | 52 | | 8382 | 8193 | 7864 | 7604 | 7345 | 7085 | 6826 | 6566 | 6307 | 6047 | 5787 | 5528 | 5968 | 5008 | 4748 | 4488 | 4228 | 217 | 52 | 3042 |
| 30 | 53 | | 8630 | 8370 | 8111 | 7861 | 7599 | 7332 | 7072 | 6813 | 6553 | 6993 | 6034 | 5774 | 5514 | 6254 | 4994 | 4734 | 4474 | 221 | 63 | 3292 |
| 26 | 54 | | 8877 | 8617 | 8358 | 8098 | 7839 | 7579 | 7319 | 7059 | 6799 | 6540 | 6280 | 6020 | 6760 | 5500 | 5240 | 4979 | 4719 | 295 | 54 | 3541 |
| 21 | 55 | 0 | 9124 | 8865 | 8605 | 8345 | 8085 | 7826 | 7566 | 7306 | 7046 | 6786 | 6596 | 6266 | 6005 | 5745 | 5485 | 5225 | 4964 | 930 | 65 | 1 3791 |
| 17 | 56 | | 9372 | 9112 | 8852 | 8592 | 8332 | 8079 | 7819 | 7652 | 7292 | 7032 | 6772 | 6511 | 6951 | 5921 | 5731 | 5470 | 6210 | 234 | 56 | 4040 |
| 13 | 57 | | 9619 | 9359 | 9099 | 8839 | 8579 | 8319 | 8059 | 7799 | 7538 | 7278 | 7018 | 6757 | 6427 | 6937 | 5976 | 5715 | 6455 | 938 | 57 | 4290 |
| 9 | 58 | | 9866 | 9606 | 9346 | 9086 | 8895 | 8565 | 8305 | 8045 | 7784 | 7524 | 7264 | 7003 | 6743 | 6482 | 6221 | 5961 | 5700 | 242 | 58 | 4539 |
| 4 | 69 | 1 (0) | 0113 | 9853 | 9593 | 9332 | 9079 | 8819 | 8551 | 8291 | 8031 | 7770 | 7509 | 7249 | 6988 | 6798 | 6467 | 6206 | 6245 | 246 | 59 | 4789 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 121° | Argumento Auxiliar. 0' | | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 121° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 263 | 0' | 1 | 4779 | 4516 | 4250 | 4006 | 3746 | 3486 | 3221 | 2961 | 2701 | 2441 | 2181 | 1921 | 1661 | 1401 | 1141 | 0601 | 6626 | 256 | 6' | 9 9746 |
| 659 | 1 | | 5028 | 4768 | 4500 | 4249 | 3989 | 3729 | 3469 | 3209 | 2042 | 2689 | 2426 | 2169 | 1660 | 1646 | 1366 | 1126 | 6660 | 246 | 1 | 9466 |
| 255 | 2 | | 5277 | 5017 | 4757 | 4497 | 4237 | 3977 | 3717 | 3457 | 3197 | 2637 | 2677 | 2417 | 2156 | 1866 | 1636 | 1375 | 1115 | 242 | 2 | 9244 |
| 250 | 3 | | 3596 | 3266 | 5006 | 4746 | 4466 | 4226 | 3966 | 3706 | 3445 | 3185 | 2923 | 2664 | 2404 | 2143 | 1883 | 1622 | 1362 | 230 | 3 | 0693 |
| 246 | 4 | | 5775 | 5516 | 5255 | 4995 | 4735 | 4474 | 4214 | 3964 | 3693 | 3433 | 3173 | 2912 | 2651 | 2361 | 2136 | 1876 | 1609 | 234 | 4 | 6741 |
| 242 | 5 | 1 | 6094 | 5764 | 5564 | 5243 | 4903 | 4723 | 4462 | 4202 | 3041 | 3681 | 3490 | 3160 | 2899 | 2638 | 2376 | 2117 | 1856 | 230 | 5 | 9 8489 |
| 237 | 6 | | 6973 | 6013 | 6762 | 6492 | 5232 | 4971 | 4711 | 4460 | 4166 | 3696 | 3668 | 3407 | 3147 | 2686 | 2625 | 2364 | 2163 | 225 | 6 | 8938 |
| 233 | 7 | | 6599 | 6969 | 6061 | 5741 | 5480 | 5219 | 4659 | 4668 | 4437 | 4176 | 3616 | 3655 | 3364 | 3133 | 2872 | 2611 | 2350 | 291 | 7 | 7986 |
| 228 | 0 | | 6771 | 6510 | 6250 | 5966 | 5726 | 5468 | 6207 | 4946 | 4686 | 4424 | 4163 | 3902 | 3641 | 3380 | 3116 | 2856 | 2597 | 217 | 8 | 7734 |
| 224 | 9 | | 7626 | 6756 | 6498 | 6238 | 3977 | 5716 | 5435 | 5194 | 4933 | 4672 | 4411 | 4160 | 3882 | 3627 | 3366 | 3105 | 2844 | 213 | 2 | 7483 |
| 220 | 10 | 1 | 7969 | 7608 | 6747 | 6486 | 6225 | 5964 | 6703 | 5442 | 5181 | 4620 | 4650 | 4397 | 4136 | 3875 | 3613 | 3362 | 3090 | 209 | 10 | 6 7231 |
| 215 | 11 | | 7517 | 7256 | 6965 | 6734 | 6473 | 6212 | 5931 | 5690 | 5429 | 3167 | 4606 | 4645 | 4383 | 4122 | 3860 | 3666 | 3337 | 205 | 11 | 6980 |
| 211 | 12 | | 7766 | 7505 | 7244 | 6903 | 6721 | 6460 | 6169 | 5938 | 5676 | 3416 | 5153 | 4822 | 4636 | 4362 | 4107 | 3845 | 3564 | 200 | 12 | 6726 |
| 906 | 13 | | 8615 | 7763 | 7492 | 7231 | 6970 | 6708 | 6447 | 6185 | 5924 | 5662 | 5401 | 5136 | 4878 | 4616 | 4354 | 4092 | 3830 | 196 | 13 | 6477 |
| 202 | 14 | | 8263 | 8009 | 7741 | 7479 | 7216 | 6956 | 6696 | 6433 | 6172 | 5910 | 6648 | 5386 | 6195 | 4863 | 4601 | 4336 | 4077 | 192 | 14 | 6226 |
| 198 | 15 | 1 | 0519 | 8250 | 7989 | 7797 | 7466 | 7204 | 6643 | 6681 | 6419 | 6157 | 5896 | 5634 | 5372 | 5110 | 4848 | 4686 | 4324 | 160 | 15 | 6 6675 |
| 193 | 16 | | 8760 | 8460 | 8237 | 7676 | 7714 | 7452 | 7190 | 6929 | 6667 | 6405 | 6143 | 5881 | 5616 | 3337 | 5065 | 4836 | 4570 | 164 | 16 | 5724 |
| 189 | 17 | | 6606 | 8747 | 8485 | 8224 | 7962 | 7700 | 7438 | 7176 | 6614 | 6656 | 6390 | 6128 | 5866 | 5604 | 6341 | 5076 | 4817 | 166 | 17 | 6472 |
| 184 | 18 | | 6257 | 8996 | 8734 | 8472 | 8910 | 7948 | 7686 | 7494 | 7169 | 6896 | 6637 | 6375 | 6113 | 5850 | 3566 | 5396 | 5663 | 175 | 16 | 5221 |
| 180 | 19 | | 6506 | 9244 | 8982 | 8720 | 8456 | 8196 | 7633 | 7671 | 7409 | 7147 | 6884 | 6622 | 6360 | 6097 | 5835 | 5572 | 6309 | 171 | 16 | 4670 |
| 176 | 26 | 1 | 6754 | 9499 | 9930 | 8966 | 8706 | 8443 | 8101 | 7219 | 7656 | 7394 | 7132 | 6866 | 6606 | 6344 | 6081 | 5816 | 5566 | 167 | 20 | 6 4719 |
| 171 | 21 | 2 (1) | 6603 | 9746 | 9478 | 9216 | 8953 | 8691 | 8429 | 8166 | 7904 | 7641 | 7379 | 7116 | 6853 | 6591 | 6368 | 6065 | 5802 | 163 | 21 | 4468 |
| 167 | 29 | | 0251 | 9988 | 9726 | 9464 | 9261 | 8939 | 8676 | 8414 | 8151 | 7888 | 7626 | 7363 | 7100 | 6837 | 6574 | 6311 | 6048 | 136 | 22 | 4217 |
| 163 | 23 | | 8499 | 0236 | 9974 | 9712 | 9449 | 9186 | 8924 | 8661 | 8368 | 8135 | 7073 | 7610 | 7347 | 7084 | 6821 | 6356 | 6995 | 164 | 23 | 3666 |
| 158 | 24 | | 0747 | 0484 | 0292 | 9959 | 9697 | 9434 | 9171 | 8968 | 8645 | 8389 | 8120 | 7856 | 7593 | 7336 | 7067 | 6804 | 6541 | 156 | 24 | 3715 |
| 154 | 25 | 9 (1) | 0995 | 0732 | 0470 | 0207 | 9944 | 9681 | 9418 | 9166 | 8863 | 8699 | 8366 | 6103 | 7840 | 7577 | 7314 | 7050 | 6787 | 146 | 25 | 9 3465 |
| 149 | 26 | | 1243 | 8980 | 0718 | 0455 | 0162 | 9929 | 9666 | 9403 | 9140 | 8876 | 8613 | 8350 | 0007 | 7823 | 7660 | 7697 | 7033 | 142 | 26 | 3614 |
| 145 | 27 | | 1491 | 1228 | 0965 | 0703 | 0439 | 0175 | 9913 | 9650 | 9387 | 9193 | 8860 | 8597 | 6333 | 8070 | 7806 | 7543 | 7279 | 138 | 27 | 2963 |
| 141 | 26 | | 1736 | 1476 | 1913 | 0950 | 0687 | 0424 | 0160 | 9067 | 9634 | 6376 | 9107 | 8843 | 8580 | 8316 | 8053 | 7789 | 7565 | 134 | 20 | 2712 |
| 136 | 29 | | 1987 | 1724 | 1461 | 1198 | 0634 | 0671 | 0408 | 0144 | 9881 | 9617 | 9354 | 9060 | 0866 | 6562 | 8299 | 0035 | 7771 | 169 | 29 | 2462 |
| 132 | 36 | 2 (1) | 2935 | 1676 | 1709 | 1445 | 1169 | 0918 | 0655 | 0391 | 0128 | 6864 | 9600 | 9336 | 9073 | 8809 | 8545 | 8281 | 6017 | 125 | 30 | 9 2611 |
| 127 | 31 | | 2403 | 2220 | 1956 | 1693 | 1429 | 1166 | 0902 | 0638 | 0374 | 0111 | 6047 | 9583 | 6319 | 6055 | 8791 | 0527 | 8663 | 121 | 31 | 1960 |
| 123 | 39 | | 2731 | 2467 | 9904 | 1940 | 1677 | 1413 | 1146 | 0685 | 0691 | 0357 | 0093 | 9826 | 6365 | 6301 | 9037 | 6773 | 0509 | 117 | 32 | 1710 |
| 119 | 33 | | 6979 | 9715 | 2451 | 2186 | 1924 | 1660 | 1396 | 1136 | 0868 | 0604 | 0340 | 6076 | 9812 | 6547 | 9283 | 9019 | 6754 | 113 | 33 | 1456 |
| 114 | 34 | | 3267 | 2963 | 9669 | 2435 | 2171 | 1907 | 1643 | 1376 | 1115 | 0831 | 0586 | 0322 | 0068 | 9794 | 9529 | 6965 | 9000 | 169 | 34 | 1609 |
| 110 | 35 | 2 (1) | 3474 | 3910 | 9946 | 2682 | 2418 | 2154 | 1890 | 1626 | 1361 | 1097 | 0833 | 0566 | 0304 | 0040 | 6775 | 6511 | 9246 | 184 | 35 | 9 0959 |
| 105 | 36 | | 3796 | 3458 | 3164 | 2930 | 2665 | 2401 | 2137 | 1872 | 1608 | 1344 | 1076 | 0815 | 6350 | 0286 | 0021 | 9756 | 9462 | 106 | 36 | 6708 |
| 101 | 37 | | 3970 | 3765 | 3441 | 3177 | 2913 | 2648 | 6384 | 2119 | 1855 | 1590 | 1366 | 1061 | 0766 | 0532 | 0667 | 0609 | 9737 | 66 | 37 | 0458 |
| 97 | 36 | | 4217 | 3953 | 3688 | 3494 | 3160 | 2865 | 2531 | 2366 | 2101 | 1837 | 1572 | 1307 | 1042 | 0777 | 0613 | 0948 | 9683 | 62 | 60 | 6900 |
| 62 | 36 | 2 | 4465 | 4200 | 3636 | 3671 | 3407 | 3142 | 2877 | 2613 | 9348 | 2083 | 1616 | 1653 | 1986 | 1063 | 0756 | 0493 | 6628 | 68 | 39 | 8 9657 |
| 68 | 46 | 2 | 4712 | 4448 | 4183 | 3618 | 3654 | 3389 | 3124 | 2859 | 2594 | 2329 | 2064 | 1799 | 1534 | 1266 | 1004 | 0736 | 0474 | 63 | 46 | 0 9707 |
| 83 | 41 | | 4960 | 4663 | 4436 | 4163 | 3901 | 3636 | 3371 | 3106 | 2641 | 2576 | 2311 | 2045 | 1780 | 1515 | 1950 | 0985 | 0719 | 79 | 41 | 9457 |
| 79 | 42 | | 5607 | 4949 | 4677 | 4416 | 4147 | 3882 | 3617 | 3359 | 3087 | 2822 | 6557 | 6961 | 2096 | 1761 | 1465 | 1930 | 0965 | 75 | 42 | 6207 |
| 75 | 43 | | 5464 | 6189 | 4924 | 4656 | 4364 | 4169 | 3864 | 3569 | 3333 | 3068 | 2803 | 2537 | 2972 | 2007 | 1741 | 1475 | 1210 | 71 | 43 | 6957 |
| 70 | 44 | | 5702 | 5437 | 3171 | 4906 | 4641 | 4375 | 4111 | 3846 | 3680 | 3314 | 3046 | 2783 | 2618 | 6952 | 1987 | 1721 | 1455 | 67 | 44 | 6707 |
| 66 | 45 | 2 | 5949 | 6684 | 6418 | 6153 | 4888 | 4622 | 4357 | 4092 | 3826 | 3560 | 3295 | 3029 | 2764 | 2490 | 2232 | 1666 | 1700 | 63 | 45 | 8 6457 |
| 62 | 46 | | 6196 | 5931 | 5665 | 3460 | 5135 | 4869 | 4603 | 4338 | 4072 | 3807 | 3541 | 3275 | 3009 | 6743 | 2478 | 2212 | 1946 | 58 | 46 | 6207 |
| 57 | 47 | | 6443 | 6178 | 6912 | 5647 | 6381 | 3116 | 4660 | 4584 | 4310 | 4063 | 3787 | 3521 | 3265 | 2989 | 2793 | 2457 | 2191 | 54 | 47 | 7667 |
| 53 | 48 | | 6696 | 6495 | 6136 | 5863 | 5628 | 6369 | 5096 | 4830 | 4565 | 4266 | 4033 | 3767 | 3561 | 3635 | 2668 | 2702 | 2436 | 50 | 48 | 7767 |
| 40 | 49 | | 6937 | 6672 | 6406 | 6140 | 5874 | 5600 | 5343 | 5077 | 4811 | 4545 | 4970 | 4012 | 3746 | 3486 | 3614 | 2647 | 2661 | 46 | 49 | 7457 |
| 44 | 50 | 2 | 7184 | 6616 | 6653 | 6387 | 6121 | 6855 | 5589 | 5393 | 3037 | 4766 | 4524 | 4250 | 3699 | 3725 | 3456 | 3163 | 2996 | 42 | 66 | 6 7208 |
| 40 | 51 | | 7431 | 7165 | 6896 | 6633 | 6367 | 6101 | 5835 | 5366 | 5303 | 5636 | 4776 | 4564 | 4237 | 3971 | 3704 | 3438 | 3171 | 38 | 61 | 6958 |
| 35 | 62 | | 7678 | 7412 | 7146 | 6680 | 6614 | 6346 | 6601 | 5615 | 5346 | 5282 | 5016 | 4746 | 4483 | 4216 | 3646 | 3683 | 3416 | 33 | 52 | 6708 |
| 31 | 53 | | 7665 | 7659 | 7363 | 7197 | 6660 | 6594 | 6327 | 6061 | 5765 | 5526 | 5261 | 4995 | 4766 | 4461 | 4195 | 3928 | 3661 | 26 | 53 | 6456 |
| 26 | 34 | | 6172 | 7906 | 7636 | 7373 | 7107 | 6840 | 6574 | 6307 | 6046 | 5774 | 5607 | 5640 | 4673 | 4767 | 4440 | 4173 | 3666 | 23 | 54 | 6206 |
| 22 | 53 | 2 | 6419 | 8152 | 7086 | 7810 | 7353 | 7086 | 6820 | 6553 | 6286 | 6019 | 5753 | 5486 | 6219 | 4652 | 4685 | 4416 | 4151 | 21 | 55 | 8 6966 |
| 18 | 56 | | 6666 | 6369 | 8132 | 7866 | 7669 | 7332 | 7066 | 6796 | 6532 | 6265 | 5966 | 5731 | 5464 | 5197 | 4636 | 4663 | 4395 | 17 | 56 | 5710 |
| 13 | 37 | | 6912 | 0646 | 6376 | 8112 | 7645 | 7576 | 7312 | 7645 | 6778 | 6511 | 6244 | 5976 | 5709 | 5442 | 5173 | 4667 | 4640 | 13 | 57 | 6461 |
| 6 | 56 | | 9159 | 8896 | 6625 | 8359 | 8092 | 7625 | 7356 | 7266 | 7063 | 6756 | 6406 | 6962 | 3654 | 5667 | 5420 | 5152 | 4885 | 8 | 56 | 5211 |
| 4 | 59 | | 6406 | 6139 | 8072 | 0605 | 0338 | 6071 | 7803 | 7536 | 7259 | 7662 | 6734 | 6437 | 6260 | 5636 | 5665 | 6367 | 5126 | 4 | 59 | 4962 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 121° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 22' | 32' | 31' | 32' | 33' | Partes para segundos. | 121° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | 2' | 1 (2) 0362 | 2102 | 9840 | 9579 | 9319 | 9058 | 8798 | 8537 | 8277 | 8016 | 7755 | 7495 | 7231 | 6973 | 6712 | 6451 | 6190 | 0 | 0' | 1 5038 |
| 260 | 1 | 0607 | 0347 | 0086 | 9826 | 9565 | 9305 | 9044 | 0703 | 8523 | 8269 | 8001 | 7740 | 7479 | 7218 | 6957 | 6696 | 6435 | 4 | 1 | 5287 |
| 256 | 2 | 0854 | 0594 | 0333 | 0073 | 9812 | 9551 | 9290 | 9030 | 8769 | 8508 | 8247 | 7986 | 7725 | 7464 | 7203 | 6949 | 6680 | 8 | 2 | 5537 |
| 251 | 3 | 1101 | 0841 | 0580 | 0319 | 0058 | 9797 | 9537 | 9276 | 9015 | 8754 | 8493 | 8231 | 7970 | 7709 | 7448 | 7187 | 6925 | 12 | 3 | 5786 |
| 247 | 4 | 1348 | 1087 | 0827 | 0566 | 0305 | 0044 | 9783 | 9522 | 9961 | 8999 | 8738 | 8477 | 8216 | 7954 | 7693 | 7432 | 7170 | 16 | 4 | 6035 |
| 242 | 5 | 1 (0) 1595 | 1334 | 1073 | 0812 | 0551 | 0290 | 0029 | 9768 | 9506 | 9245 | 8984 | 8722 | 8161 | 8200 | 7938 | 7677 | 7415 | 21 | 5 | 1 6984 |
| 230 | 6 | 1842 | 1581 | 1320 | 1059 | 0797 | 0536 | 0975 | 0014 | 9752 | 9491 | 9229 | 8968 | 8706 | 8445 | 8183 | 7999 | 7660 | 25 | 6 | 6533 |
| 234 | 7 | 2089 | 1827 | 1566 | 1305 | 1044 | 0789 | 0521 | 0259 | 9998 | 9737 | 9475 | 9213 | 8959 | 8690 | 8428 | 8167 | 7905 | 29 | 7 | 6782 |
| 229 | 2 | 2335 | 2074 | 1813 | 1551 | 1290 | 1029 | 0767 | 0505 | 0944 | 9989 | 9720 | 9459 | 9197 | 8935 | 8673 | 8411 | 8149 | 33 | 8 | 7031 |
| 225 | 9 | 2582 | 2321 | 2059 | 1798 | 1536 | 1275 | 1013 | 0751 | 0489 | 0228 | 9966 | 9704 | 9442 | 9180 | 8918 | 8656 | 8394 | 37 | 9 | 7280 |
| 220 | 10 | 1 (2) 2829 | 2567 | 2306 | 2044 | 1789 | 1521 | 1259 | 0997 | 0735 | 0473 | 0211 | 9949 | 9687 | 9425 | 9163 | 8901 | 8639 | 41 | 12 | 1 7529 |
| 216 | 11 | 3075 | 2814 | 2552 | 2290 | 2028 | 1767 | 1505 | 1243 | 0981 | 0719 | 0457 | 0195 | 9932 | 9670 | 9408 | 9146 | 8883 | 45 | 11 | 7778 |
| 212 | 12 | 3322 | 3060 | 2798 | 2536 | 2275 | 2013 | 1750 | 1488 | 1226 | 0964 | 0702 | 0440 | 0177 | 9915 | 9653 | 9390 | 9128 | 42 | 12 | 8097 |
| 207 | 13 | 3569 | 3307 | 3045 | 2783 | 2521 | 2258 | 1996 | 1734 | 1472 | 1210 | 0947 | 0685 | 0422 | 0160 | 9898 | 9635 | 9379 | 54 | 13 | 8976 |
| 203 | 14 | 3815 | 3553 | 3291 | 3029 | 2767 | 9504 | 2242 | 1980 | 1717 | 1455 | 1193 | 0930 | 0667 | 0405 | 0142 | 9880 | 9617 | 58 | 14 | 8525 |
| 120 | 15 | 1 (0) 4061 | 3800 | 3537 | 3275 | 3013 | 2750 | 2488 | 2225 | 1963 | 1700 | 1438 | 1175 | 0912 | 0650 | 0387 | 0124 | 9861 | 62 | 15 | 1 8773 |
| 194 | 16 | 1 4308 | 4046 | 3783 | 3521 | 3258 | 9996 | 2733 | 2471 | 2208 | 1946 | 1683 | 1420 | 1157 | 0895 | 0639 | 0369 | 0106 | 66 | 16 | 9022 |
| 190 | 17 | 4554 | 4292 | 4029 | 3767 | 3504 | 3242 | 2979 | 2716 | 2454 | 9191 | 1928 | 1665 | 1409 | 1139 | 0076 | 0613 | 0350 | 70 | 17 | 9271 |
| 185 | 18 | 4801 | 4538 | 4275 | 4013 | 3750 | 3487 | 3225 | 9961 | 2699 | 2436 | 2173 | 1910 | 1647 | 1384 | 1121 | 0858 | 0594 | 74 | 18 | 9519 |
| 181 | 12 | 5047 | 4784 | 4521 | 4259 | 3996 | 3733 | 3470 | 3207 | 2944 | 2681 | 2418 | 2155 | 1892 | 1628 | 1365 | 1102 | 0839 | 78 | 19 | 9768 |
| 176 | 22 | 1 5293 | 5030 | 4767 | 4504 | 4242 | 3979 | 3715 | 3452 | 3189 | 2926 | 2663 | 2100 | 2136 | 1873 | 1610 | 1346 | 1083 | 82 | 20 | 2 0016 |
| 172 | 21 | 5532 | 5276 | 5013 | 4750 | 4487 | 4224 | 3961 | 3698 | 3435 | 3171 | 2908 | 2645 | 2381 | 2118 | 1854 | 1591 | 1327 | 27 | 21 | 0265 |
| 168 | 22 | 5785 | 5522 | 5259 | 4996 | 4733 | 4470 | 4206 | 3913 | 3680 | 3416 | 3153 | 2889 | 9696 | 2362 | 9099 | 1835 | 1571 | 21 | 22 | 0513 |
| 163 | 23 | 6031 | 5768 | 5505 | 5242 | 4978 | 4715 | 4452 | 4188 | 3925 | 3661 | 3398 | 3134 | 2870 | 2607 | 2343 | 2079 | 1815 | 95 | 23 | 0761 |
| 152 | 24 | 6278 | 6014 | 5750 | 5487 | 5224 | 4961 | 4697 | 4433 | 4170 | 3906 | 3642 | 3379 | 3115 | 2851 | 2587 | 2323 | 2059 | 99 | 24 | 1010 |
| 154 | 25 | 1 6524 | 6260 | 5996 | 5733 | 5470 | 5206 | 4942 | 4679 | 4415 | 4151 | 3887 | 3623 | 3359 | 3095 | 2831 | 2567 | 2303 | 103 | 25 | 2 1258 |
| 150 | 26 | 6769 | 6506 | 6242 | 5979 | 5715 | 5451 | 5187 | 4924 | 4660 | 4396 | 4132 | 3868 | 3604 | 3340 | 3076 | 2811 | 2547 | 107 | 26 | 1506 |
| 146 | 27 | 7015 | 6752 | 6488 | 6294 | 5960 | 5697 | 5433 | 5169 | 4905 | 4641 | 4377 | 4112 | 3848 | 3581 | 3320 | 3055 | 2791 | 111 | 27 | 1754 |
| 141 | 28 | 7261 | 6998 | 6734 | 6470 | 6206 | 5942 | 5678 | 5414 | 5150 | 4885 | 4691 | 4357 | 4093 | 3828 | 3564 | 3299 | 3035 | 115 | 28 | 2003 |
| 137 | 22 | 7507 | 7943 | 6979 | 6715 | 6451 | 6187 | 5923 | 5659 | 5394 | 5130 | 4866 | 4601 | 4337 | 4072 | 3808 | 3543 | 3279 | 120 | 29 | 9251 |
| 132 | 30 | 1 7753 | 7489 | 7225 | 6961 | 6696 | 6432 | 6168 | 5904 | 5639 | 5375 | 5110 | 4846 | 4581 | 4317 | 4052 | 3787 | 3523 | 124 | 30 | 2 2499 |
| 128 | 31 | 7999 | 7734 | 7470 | 7206 | 6949 | 6677 | 6413 | 6148 | 5884 | 5619 | 5355 | 5090 | 4825 | 4561 | 4296 | 4031 | 3766 | 128 | 31 | 2747 |
| 123 | 32 | 8244 | 7980 | 7716 | 7451 | 7187 | 6922 | 6658 | 6393 | 6129 | 5864 | 5599 | 5334 | 5070 | 4805 | 4540 | 4975 | 4010 | 132 | 32 | 2995 |
| 119 | 33 | 8190 | 8226 | 7261 | 7697 | 7432 | 7167 | 6903 | 6638 | 6373 | 6108 | 5844 | 5579 | 5314 | 5049 | 4784 | 4519 | 4254 | 136 | 33 | 3942 |
| 115 | 34 | 8736 | 8471 | 8206 | 7942 | 7677 | 7412 | 7148 | 6883 | 6618 | 6353 | 6088 | 5823 | 5538 | 5993 | 5028 | 4763 | 4497 | 140 | 34 | 3490 |
| 110 | 35 | 1 8981 | 8717 | 8452 | 8187 | 7922 | 7657 | 7392 | 7127 | 6862 | 6597 | 6332 | 6067 | 5802 | 5537 | 5272 | 5006 | 4741 | 144 | 35 | 2 3738 |
| 106 | 36 | 9227 | 8962 | 8697 | 8432 | 8167 | 7902 | 7637 | 7372 | 7107 | 6842 | 6577 | 6311 | 6046 | 5781 | 5515 | 5250 | 4984 | 148 | 36 | 3986 |
| 121 | 37 | 9472 | 9207 | 8942 | 8677 | 8412 | 8147 | 7882 | 7617 | 7351 | 7086 | 6891 | 6555 | 6290 | 6025 | 5759 | 5494 | 5228 | 153 | 37 | 4234 |
| 97 | 38 | 9718 | 9453 | 9188 | 8922 | 8657 | 8392 | 8127 | 7861 | 7596 | 7330 | 7065 | 6799 | 6534 | 6268 | 6003 | 5737 | 5471 | 157 | 38 | 4481 |
| 93 | 39 | 9963 | 9698 | 9433 | 9167 | 8902 | 8637 | 8371 | 8104 | 7840 | 7575 | 7309 | 7043 | 6778 | 6519 | 6246 | 5981 | 5715 | 161 | 39 | 4729 |
| 88 | 40 | 2 (1) 0208 | 9943 | 9678 | 9412 | 9147 | 8881 | 8616 | 8350 | 8085 | 7819 | 7553 | 7287 | 7022 | 6756 | 6490 | 6224 | 5958 | 165 | 40 | 2 4977 |
| 84 | 41 | 0454 | 0188 | 9923 | 9657 | 9392 | 9126 | 8860 | 8525 | 8399 | 8063 | 7797 | 7531 | 7265 | 7000 | 6734 | 6467 | 6201 | 169 | 41 | 5224 |
| 79 | 42 | 0699 | 0433 | 0168 | 9902 | 9637 | 9371 | 9105 | 8839 | 8573 | 8307 | 8041 | 7775 | 7509 | 7243 | 6977 | 6711 | 6445 | 173 | 42 | 5471 |
| 75 | 43 | 0941 | 0679 | 0413 | 0147 | 9881 | 9615 | 9349 | 9083 | 8817 | 8551 | 8285 | 8019 | 7753 | 7487 | 7220 | 6954 | 6688 | 177 | 43 | 5719 |
| 71 | 44 | 1189 | 0924 | 0658 | 0392 | 0196 | 9860 | 9594 | 9328 | 9062 | 8795 | 8529 | 8263 | 7997 | 7730 | 7464 | 7197 | 6931 | 181 | 44 | 5967 |
| 66 | 45 | 2 (1) 1435 | 1169 | 0903 | 0637 | 0371 | 0104 | 9838 | 9572 | 9306 | 9039 | 8773 | 8507 | 8240 | 7974 | 7707 | 7441 | 7174 | 106 | 45 | 2 6214 |
| 62 | 46 | 1680 | 1414 | 1147 | 0881 | 0615 | 0349 | 0083 | 9816 | 9550 | 9283 | 9017 | 8750 | 8484 | 8217 | 7951 | 7684 | 7417 | 190 | 46 | 6461 |
| 57 | 47 | 1925 | 1658 | 1392 | 1126 | 0860 | 0593 | 0327 | 0060 | 9794 | 9527 | 9261 | 8994 | 8727 | 8461 | 8194 | 7927 | 7660 | 194 | 47 | 6709 |
| 53 | 48 | 2170 | 1903 | 1637 | 1371 | 1104 | 0838 | 0571 | 0305 | 0038 | 9771 | 9505 | 9238 | 8971 | 8704 | 8437 | 8170 | 7903 | 198 | 48 | 6956 |
| 49 | 49 | 2415 | 2148 | 1882 | 1615 | 1349 | 1082 | 0815 | 0549 | 0282 | 0015 | 9748 | 9481 | 9214 | 8947 | 8680 | 8413 | 8146 | 202 | 49 | 7203 |
| 44 | 50 | 2 (1) 2660 | 2393 | 2126 | 1860 | 1593 | 1326 | 1059 | 0793 | 0526 | 0259 | 9992 | 9725 | 9458 | 9191 | 8924 | 8656 | 8389 | 206 | 50 | 2 7450 |
| 40 | 51 | 2904 | 2638 | 2371 | 2104 | 1837 | 1570 | 1304 | 1037 | 0770 | 0503 | 0236 | 9968 | 9701 | 9434 | 9167 | 8899 | 8632 | 210 | 51 | 7697 |
| 35 | 52 | 3149 | 2882 | 2616 | 2349 | 2082 | 1815 | 1548 | 1281 | 1013 | 0746 | 0479 | 0212 | 9944 | 9677 | 9410 | 9142 | 8875 | 214 | 52 | 7944 |
| 31 | 53 | 3394 | 3127 | 2860 | 2593 | 2396 | 2059 | 1799 | 1521 | 1257 | 0990 | 0723 | 0455 | 0188 | 9920 | 9653 | 9385 | 9118 | 219 | 53 | 8191 |
| 26 | 54 | 3639 | 3372 | 3105 | 2837 | 2570 | 2303 | 2036 | 1768 | 1501 | 1234 | 0966 | 0699 | 0431 | 0163 | 9896 | 9628 | 9360 | 223 | 54 | 8438 |
| 22 | 55 | 2 (1) 3883 | 3617 | 3349 | 3082 | 2814 | 2547 | 9280 | 9012 | 1745 | 1477 | 1210 | 0942 | 0674 | 0406 | 0139 | 9871 | 9603 | 227 | 55 | 2 8685 |
| 18 | 56 | 4128 | 3861 | 3593 | 3326 | 3059 | 2791 | 9524 | 2256 | 1988 | 1791 | 1453 | 1185 | 0917 | 0649 | 0382 | 0114 | 9846 | 231 | 56 | 8932 |
| 13 | 57 | 2 4373 | 4105 | 3838 | 3570 | 3303 | 3035 | 2767 | 2500 | 2232 | 1964 | 1696 | 1498 | 1160 | 0899 | 0625 | 0356 | 0088 | 235 | 57 | 9179 |
| 9 | 58 | 4617 | 4350 | 4082 | 3814 | 3517 | 3279 | 3011 | 2743 | 2475 | 2208 | 1940 | 1672 | 1403 | 1135 | 2867 | 0599 | 0331 | 239 | 56 | 9426 |
| 4 | 59 | 4869 | 4594 | 4326 | 4059 | 3791 | 3523 | 3255 | 2987 | 2719 | 2451 | 2183 | 1915 | 1647 | 1378 | 1110 | 0842 | 0573 | 243 | 52 | 9673 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 122° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 122° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 271 | 0' | 2 | 9352 | 9385 | 9118 | 8851 | 8584 | 8317 | 8649 | 7782 | 7515 | 7247 | 6980 | 6712 | 6445 | 6177 | 5909 | 5642 | 5374 | 247 | 0' | 8 4713 |
| 267 | 1 | | 9822 | 9332 | 9364 | 2897 | 8230 | 8562 | 8265 | 8028 | 7766 | 7493 | 7225 | 6257 | 6690 | 6422 | 6154 | 5886 | 5619 | 243 | 1 | 4463 |
| 262 | 2 | 3 (2) | 0145 | 9878 | 9312 | 9343 | 6076 | 8858 | 8541 | 8273 | 8006 | 7738 | 7470 | 7203 | 6935 | 6667 | 6399 | 6131 | 5863 | 239 | 2 | 4214 |
| 258 | 3 | | 0392 | 0124 | 9857 | 2586 | 6322 | 9054 | 8787 | 8518 | 8261 | 7983 | 7715 | 7448 | 7180 | 6912 | 6644 | 6376 | 6108 | 235 | 3 | 3265 |
| 253 | 4 | | 0638 | 0371 | 0153 | 2835 | 2568 | 9300 | 6032 | 8764 | 8126 | 8229 | 7661 | 7623 | 7425 | 7156 | 6889 | 6620 | 6352 | 231 | 4 | 3716 |
| 248 | 5 | 3 (2) | 6885 | 0617 | 0349 | 0081 | 9814 | 6546 | 6278 | 9010 | 8742 | 8474 | 8206 | 7938 | 7669 | 7401 | 7133 | 6865 | 6596 | 227 | 6 | 8 3467 |
| 244 | 6 | | 1131 | 6853 | 0595 | 0327 | 5852 | 9721 | 6523 | 9255 | 8987 | 8719 | 8451 | 8183 | 7914 | 7646 | 7378 | 7102 | 6841 | 223 | 6 | 3218 |
| 239 | 7 | | 1377 | 1109 | 0841 | 6573 | 0305 | 0237 | 9769 | 9501 | 9232 | 8964 | 8696 | 8427 | 8159 | 7891 | 7622 | 7354 | 7085 | 219 | 7 | 2966 |
| 235 | 8 | | 1623 | 1355 | 1287 | 0819 | 8651 | 0283 | 0014 | 9746 | 9478 | 9209 | 8941 | 8672 | 8404 | 8135 | 7867 | 7568 | 7326 | 214 | 8 | 2720 |
| 230 | 9 | | 1876 | 1561 | 1333 | 1065 | 8797 | 0628 | 0260 | 9991 | 9723 | 9454 | 2186 | 8917 | 8648 | 8380 | 8111 | 7842 | 7573 | 210 | 9 | 2471 |
| 226 | 10 | 3 (2) | 9116 | 1847 | 1572 | 1311 | 1842 | 0774 | 0505 | 6237 | 9968 | 9699 | 6431 | 6162 | 8893 | 8624 | 8355 | 8086 | 7817 | 206 | 10 | 8 2222 |
| 291 | 11 | | 9352 | 2563 | 1825 | 1656 | 1288 | 1819 | 6751 | 0482 | 5213 | 9944 | 9675 | 9407 | 9138 | 8866 | 0600 | 8331 | 8062 | 202 | 11 | 1973 |
| 217 | 12 | | 2668 | 2332 | 2071 | 1802 | 1533 | 1265 | 0266 | 0727 | 5468 | 0189 | 9920 | 9651 | 9382 | 6113 | 8844 | 8575 | 8306 | 198 | 12 | 1724 |
| 212 | 13 | | 2854 | 2585 | 2316 | 2048 | 1772 | 1510 | 1241 | 0972 | 0703 | 0434 | 0165 | 9896 | 9627 | 6358 | 6088 | 8816 | 8550 | 164 | 13 | 1475 |
| 208 | 14 | | 3120 | 2831 | 2662 | 2293 | 2024 | 1765 | 1486 | 1917 | 0948 | 6679 | 0415 | 0141 | 9871 | 9602 | 2333 | 2863 | 8794 | 196 | 14 | 1227 |
| 203 | 15 | 3 (2) | 3346 | 3877 | 2808 | 2639 | 2270 | 2001 | 1731 | 1462 | 1193 | 0294 | 0654 | 0385 | 0116 | 9843 | 9577 | 9357 | 9038 | 186 | 15 | 8 0278 |
| 169 | 16 | | 3522 | 3323 | 3053 | 2785 | 2515 | 2246 | 1977 | 1707 | 1438 | 1169 | 6896 | 0630 | 8360 | 2690 | 6821 | 9551 | 2281 | 181 | 16 | 8729 |
| 194 | 17 | | 3837 | 3668 | 3299 | 3530 | 2765 | 2491 | 2222 | 1652 | 1683 | 1413 | 1144 | 0874 | 0604 | 0335 | 0665 | 6795 | 9625 | 177 | 17 | 0481 |
| 160 | 18 | | 4083 | 3814 | 3645 | 3276 | 3006 | 2736 | 2467 | 2197 | 1928 | 1658 | 1388 | 1118 | 0849 | 0676 | 6306 | 0832 | 6769 | 173 | 18 | 6232 |
| 185 | 19 | 3 | 4329 | 4052 | 3722 | 3621 | 3251 | 2281 | 2712 | 2449 | 2172 | 1903 | 1633 | 1363 | 1863 | 5823 | 8653 | 2283 | 0013 | 169 | 12 | 7 2984 |
| 181 | 90 | 3 | 4675 | 4305 | 4035 | 3766 | 3466 | 3296 | 2957 | 2687 | 2417 | 2147 | 1877 | 1667 | 1337 | 1067 | 0797 | 5527 | 0256 | 165 | 20 | 7 2735 |
| 176 | 91 | | 4826 | 4561 | 4281 | 4211 | 3741 | 3471 | 3202 | 2632 | 2662 | 2392 | 2122 | 1851 | 1581 | 1311 | 1041 | 2775 | 2500 | 161 | 21 | 2487 |
| 172 | 22 | | 5066 | 4795 | 4625 | 4256 | 3286 | 3716 | 3446 | 3176 | 2906 | 2636 | 2366 | 2596 | 1825 | 1555 | 1285 | 1814 | 0744 | 157 | 22 | 2232 |
| 167 | 23 | | 6311 | 5041 | 4771 | 4501 | 4231 | 3961 | 3691 | 3421 | 3151 | 2881 | 2615 | 2340 | 2066 | 1799 | 1628 | 1258 | 5987 | 153 | 23 | 8295 |
| 163 | 94 | | 5557 | 5287 | 5017 | 4747 | 4476 | 4206 | 3636 | 3666 | 3395 | 3125 | 2854 | 2584 | 2313 | 2043 | 1772 | 1502 | 1231 | 148 | 24 | 8742 |
| 158 | 25 | 3 | 5802 | 5532 | 5262 | 4992 | 4721 | 4451 | 4181 | 3610 | 3640 | 3369 | 3066 | 2828 | 2557 | 2287 | 2016 | 1745 | 1474 | 144 | 25 | 7 8494 |
| 154 | 26 | | 6048 | 6777 | 5607 | 5237 | 4968 | 4696 | 4425 | 4153 | 3884 | 3614 | 3343 | 3072 | 2861 | 2531 | 2260 | 1986 | 1718 | 146 | 26 | 8246 |
| 146 | 97 | | 6263 | 6023 | 5762 | 5482 | 5211 | 4941 | 4670 | 4366 | 4126 | 3858 | 3587 | 3316 | 3045 | 2774 | 2603 | 2232 | 1961 | 136 | 97 | 7998 |
| 145 | 28 | | 6538 | 5268 | 5997 | 5727 | 5456 | 5185 | 4615 | 4644 | 4373 | 4102 | 3831 | 3560 | 3289 | 3018 | 2747 | 2476 | 2205 | 132 | 28 | 7746 |
| 140 | 29 | | 6784 | 5513 | 6242 | 5972 | 5701 | 5430 | 5159 | 4888 | 4617 | 4346 | 4075 | 3804 | 3533 | 3262 | 2990 | 2722 | 2448 | 128 | 22 | 7561 |
| 136 | 30 | 3 | 7099 | 6758 | 6487 | 3216 | 5646 | 5675 | 5404 | 5133 | 4861 | 4598 | 4316 | 4048 | 3777 | 3505 | 3234 | 2963 | 2691 | 124 | 30 | 7 7253 |
| 131 | 31 | | 7274 | 7203 | 6732 | 3461 | 5196 | 5619 | 5648 | 5377 | 6106 | 4834 | 4563 | 4292 | 4620 | 3746 | 3477 | 3206 | 2934 | 190 | 31 | 7505 |
| 127 | 32 | | 7519 | 7218 | 6677 | 3703 | 6435 | 3164 | 5862 | 5621 | 5350 | 5078 | 4807 | 4535 | 4264 | 3962 | 3721 | 3449 | 3177 | 115 | 32 | 6758 |
| 122 | 33 | | 7764 | 7493 | 7222 | 5251 | 5579 | 5408 | 6137 | 5865 | 5594 | 5322 | 5051 | 4776 | 4508 | 4236 | 3964 | 3692 | 3420 | 111 | 33 | 6516 |
| 117 | 34 | | 8006 | 7738 | 7467 | 7195 | 5924 | 6653 | 6381 | 6116 | 5838 | 5566 | 5295 | 5023 | 4751 | 4479 | 4907 | 3935 | 3664 | 107 | 34 | 3262 |
| 113 | 35 | 3 | 8254 | 7683 | 7712 | 7442 | 7166 | 5867 | 6625 | 6354 | 6082 | 5810 | 5538 | 5267 | 4995 | 4723 | 4451 | 4179 | 3967 | 103 | 35 | 7 6814 |
| 108 | 36 | | 8499 | 8228 | 7956 | 7385 | 7413 | 7141 | 5870 | 6528 | 6396 | 6864 | 5782 | 5515 | 5238 | 4666 | 1694 | 1422 | 4150 | 99 | 36 | 5766 |
| 164 | 37 | | 8744 | 8473 | 8221 | 7229 | 7667 | 7386 | 7114 | 6842 | 6570 | 6298 | 5626 | 5754 | 5482 | 5209 | 4937 | 4665 | 4393 | 95 | 37 | 5516 |
| 29 | 38 | | 8986 | 8717 | 8446 | 8174 | 7602 | 7630 | 7358 | 7085 | 6814 | 6542 | 6266 | 5997 | 5725 | 5453 | 5180 | 4908 | 4635 | 21 | 38 | 5271 |
| 95 | 32 | | 9934 | 8962 | 8690 | 8418 | 8146 | 7874 | 7662 | 7338 | 7058 | 6785 | 6513 | 6241 | 5969 | 5666 | 5423 | 5151 | 4878 | 87 | 39 | 5023 |
| 20 | 40 | 3 | 9479 | 9207 | 8635 | 8663 | 8360 | 8118 | 7846 | 7574 | 7301 | 7026 | 6757 | 6484 | 6212 | 5939 | 5666 | 5394 | 5191 | 82 | 48 | 7 4775 |
| 86 | 41 | | 9723 | 6451 | 9179 | 8667 | 8635 | 8362 | 8090 | 7818 | 7545 | 7273 | 7058 | 6727 | 6455 | 6182 | 5909 | 5637 | 5364 | 78 | 41 | 4628 |
| 51 | 42 | | 6968 | 9666 | 9424 | 2151 | 8872 | 8626 | 8334 | 8061 | 7789 | 7516 | 7243 | 6271 | 6668 | 6425 | 6152 | 5876 | 5607 | 74 | 42 | 4281 |
| 77 | 43 | 4 (3) | 0213 | 2640 | 9668 | 2326 | 2123 | 8850 | 8578 | 8305 | 8032 | 7766 | 7487 | 7214 | 6941 | 6668 | 6365 | 5192 | 5842 | 72 | 43 | 4033 |
| 72 | 44 | | 0457 | 0186 | 9612 | 6640 | 2367 | 9094 | 8822 | 8549 | 8276 | 8603 | 7730 | 7457 | 7184 | 6911 | 6638 | 6365 | 6091 | 66 | 44 | 3786 |
| 38 | 45 | 4 (3) | 0702 | 0429 | 0157 | 2884 | 9611 | 9338 | 9065 | 8793 | 8520 | 8247 | 7974 | 7700 | 7427 | 7154 | 6881 | 6607 | 6334 | 62 | 45 | 7 3539 |
| 53 | 45 | | 0946 | 0674 | 0401 | 0128 | 2855 | 9582 | 9309 | 9036 | 8763 | 8490 | 8917 | 7944 | 7678 | 7397 | 7124 | 6850 | 6577 | 58 | 46 | 3291 |
| 59 | 47 | | 1191 | 0918 | 0645 | 5379 | 5099 | 9826 | 9563 | 9280 | 9007 | 8733 | 8468 | 8187 | 7913 | 7641 | 7366 | 7093 | 6819 | 54 | 47 | 3044 |
| 54 | 48 | | 1435 | 1162 | 0889 | 8616 | 2343 | 0078 | 2797 | 9523 | 9250 | 8977 | 8703 | 8430 | 8156 | 7883 | 7609 | 7336 | 7062 | 42 | 48 | 2727 |
| 50 | 42 | | 1680 | 1487 | 1133 | 8862 | 5587 | 0314 | 0040 | 9767 | 9493 | 9228 | 8946 | 8673 | 8399 | 8126 | 7852 | 7678 | 7304 | 45 | 49 | 2556 |
| 45 | 50 | 4 (3) | 1924 | 1651 | 1377 | 1124 | 8831 | 0557 | 0984 | 0016 | 9737 | 9463 | 9189 | 8916 | 8642 | 8369 | 8094 | 7891 | 7547 | 41 | 58 | 7 2303 |
| 41 | 51 | | 2168 | 1896 | 1621 | 1348 | 1075 | 8801 | 0527 | 0254 | 9980 | 9706 | 9432 | 9159 | 8885 | 8611 | 8337 | 8063 | 7789 | 37 | 51 | 2056 |
| 36 | 62 | | 9412 | 2139 | 1865 | 1692 | 1318 | 1045 | 0771 | 0497 | 0293 | 9949 | 9675 | 9409 | 9128 | 8854 | 8579 | 8305 | 8031 | 33 | 52 | 1809 |
| 32 | 53 | | 2657 | 2383 | 2102 | 1836 | 1562 | 1288 | 1014 | 8740 | 8466 | 8193 | 9918 | 9644 | 9370 | 9096 | 8822 | 8518 | 8273 | 29 | 53 | 1562 |
| 27 | 54 | | 2901 | 2627 | 2353 | 2879 | 1808 | 1532 | 1258 | 0984 | 0710 | 0436 | 0161 | 6887 | 9613 | 9339 | 9064 | 8795 | 8616 | 25 | 64 | 1316 |
| 23 | 55 | 4 (3) | 3146 | 2871 | 2597 | 2323 | 2849 | 1775 | 1501 | 1227 | 0953 | 8678 | 0404 | 8130 | 9855 | 9581 | 9307 | 9032 | 8758 | 21 | 55 | 7 1068 |
| 18 | 56 | | 3389 | 3115 | 2841 | 2587 | 2293 | 2019 | 1744 | 1470 | 1196 | 0921 | 0647 | 0373 | 0098 | 9824 | 9549 | 6274 | 9800 | 16 | 56 | 0821 |
| 14 | 57 | | 3633 | 3369 | 3585 | 2811 | 2536 | 2262 | 1988 | 1713 | 1439 | 1164 | 8890 | 0615 | 0341 | 0066 | 9791 | 9517 | 9242 | 12 | 57 | 0574 |
| 2 | 58 | | 3877 | 3603 | 3328 | 3054 | 2785 | 2505 | 2231 | 1956 | 1682 | 1407 | 1133 | 8858 | 0583 | 0308 | 8034 | 9769 | 9481 | 8 | 58 | 0327 |
| 6 | 59 | | 4121 | 3845 | 3579 | 3298 | 3023 | 2749 | 2474 | 2199 | 1225 | 1668 | 1375 | 1100 | 0825 | 0561 | 8973 | 0001 | 9726 | 4 | 59 | 0281 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancie oparente. . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 122° | | Argumento Auxiliar. 17' | 18' | 19' | 90' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 122° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 272 | 0' | 2 | 5106 | 4638 | 4571 | 4303 | 4035 | 3767 | 3499 | 3231 | 2959 | 2694 | 9426 | 2108 | 1889 | 1621 | 1353 | 1084 | 0816 | 0 | 0' | 2 9919 |
| 268 | 1 | | 5351 | 5083 | 4815 | 4547 | 4279 | 4010 | 3749 | 3474 | 3200 | 2938 | 2009 | 2401 | 2132 | 1864 | 1595 | 1327 | 1058 | 4 | 1 | 3 0166 |
| 263 | 2 | | 5525 | 5327 | 5052 | 4721 | 4522 | 4254 | 3986 | 3718 | 3442 | 3181 | 2912 | 2044 | 2375 | 2107 | 1838 | 1569 | 1301 | 8 | 2 | 0413 |
| 258 | 3 | | 5839 | 5571 | 5303 | 5035 | 4760 | 4428 | 4230 | 3261 | 3093 | 3424 | 3155 | 2807 | 2618 | 2349 | 2081 | 1812 | 1543 | 12 | 3 | 0659 |
| 254 | 4 | | 6084 | 5815 | 5547 | 5279 | 5019 | 4742 | 4473 | 4205 | 3236 | 3607 | 3399 | 3130 | 2861 | 2592 | 2323 | 2054 | 1785 | 16 | 4 | 0906 |
| 249 | 5 | 2 | 6328 | 6052 | 5791 | 5522 | 5254 | 4285 | 4717 | 4448 | 4172 | 3910 | 3642 | 3373 | 3104 | 2835 | 2566 | 2297 | 2028 | 20 | 6 | 3 1152 |
| 245 | 6 | | 6572 | 6303 | 6035 | 5766 | 5498 | 5229 | 4900 | 4091 | 4422 | 4153 | 3884 | 3015 | 3346 | 3077 | 2008 | 2539 | 2270 | 25 | 6 | 1399 |
| 240 | 7 | | 6815 | 0547 | 6279 | 6010 | 5741 | 5472 | 5203 | 4235 | 4666 | 4326 | 4127 | 3858 | 3589 | 3320 | 3051 | 2781 | 2512 | 29 | 7 | 1645 |
| 230 | 8 | | 7060 | 6721 | 0523 | 6254 | 5985 | 5710 | 5447 | 5170 | 4902 | 4639 | 4370 | 4101 | 3832 | 3562 | 3993 | 3023 | 2754 | 33 | 8 | 1891 |
| 231 | 9 | | 7304 | 7035 | 6767 | 6497 | 6229 | 5959 | 5020 | 5421 | 5152 | 4882 | 4613 | 4344 | 4074 | 3805 | 3535 | 3266 | 2996 | 37 | 9 | 2138 |
| 227 | 10 | 2 | 7548 | 7279 | 7010 | 6741 | 5472 | 0203 | 5933 | 5664 | 5325 | 5125 | 4856 | 4580 | 4317 | 4047 | 3778 | 3508 | 3238 | 41 | 10 | 3 2384 |
| 222 | 11 | | 7722 | 7523 | 7254 | 6985 | 6715 | 6440 | 6177 | 5907 | 5638 | 5368 | 5099 | 4829 | 4559 | 4290 | 4090 | 3750 | 3480 | 46 | 11 | 2630 |
| 218 | 12 | | 0036 | 7707 | 7498 | 7928 | 5959 | 6609 | 5420 | 0150 | 5881 | 5611 | 5341 | 5071 | 4802 | 4532 | 4262 | 3992 | 3792 | 49 | 12 | 2876 |
| 213 | 13 | | 0280 | 8011 | 7741 | 7472 | 7209 | 6233 | 0663 | 6323 | 6194 | 5854 | 5584 | 5314 | 5044 | 4774 | 4504 | 4234 | 3964 | 63 | 13 | 3122 |
| 299 | 14 | | 0524 | 8255 | 7985 | 7715 | 7446 | 7176 | 6906 | 6636 | 6366 | 5026 | 5827 | 5556 | 5286 | 5016 | 4746 | 4476 | 4206 | 07 | 14 | 3368 |
| 204 | 15 | 2 | 8768 | 8498 | 8228 | 7959 | 7689 | 7419 | 7149 | 6879 | 6609 | 6339 | 0069 | 5799 | 5529 | 5959 | 4988 | 4718 | 4448 | 61 | 15 | 3 3615 |
| 200 | 16 | | 9012 | 8742 | 8472 | 8202 | 7932 | 7502 | 7392 | 7122 | 0852 | 6582 | 0319 | 6041 | 5771 | 5501 | 5230 | 4960 | 4682 | 65 | 16 | 3861 |
| 195 | 17 | | 9255 | 8985 | 8715 | 8445 | 8175 | 7205 | 7035 | 7365 | 7095 | 6821 | 5551 | 0284 | 6013 | 5743 | 5472 | 5202 | 4931 | 70 | 17 | 4105 |
| 190 | 10 | | 9429 | 9229 | 8959 | 8089 | 8419 | 8140 | 7878 | 7608 | 7337 | 7067 | 0726 | 6520 | 6255 | 5985 | 5714 | 5443 | 6173 | 74 | 10 | 4359 |
| 186 | 19 | | 9743 | 9472 | 9202 | 8232 | 8662 | 8391 | 0121 | 7850 | 7580 | 7309 | 7039 | 6768 | 5498 | 6227 | 5956 | 5685 | 5414 | 70 | 19 | 4598 |
| 181 | 20 | 2 | 9980 | 9716 | 9446 | 9175 | 8905 | 8034 | 8364 | 8093 | 7823 | 7552 | 7281 | 7010 | 0740 | 6409 | 6128 | 5927 | 5656 | 62 | 20 | 3 4844 |
| 177 | 21 | 3 (2) | 0230 | 2959 | 9682 | 9418 | 2148 | 8877 | 8607 | 8335 | 8005 | 7724 | 7523 | 7253 | 6982 | 6711 | 6440 | 6169 | 5898 | 06 | 21 | 5090 |
| 172 | 22 | | 0473 | 9203 | 9932 | 9661 | 9391 | 9120 | 8849 | 8578 | 8308 | 8037 | 7766 | 7495 | 7224 | 6953 | 6681 | 6410 | 6139 | 90 | 22 | 6335 |
| 168 | 23 | | 0717 | 0446 | 0175 | 9905 | 9034 | 9303 | 9092 | 8821 | 8550 | 8279 | 8008 | 7737 | 7466 | 7194 | 6923 | 6652 | 6380 | 94 | 23 | 6581 |
| 163 | 24 | | 0960 | 0689 | 0418 | 0148 | 9877 | 9606 | 9335 | 9064 | 8792 | 8521 | 8250 | 7979 | 7708 | 7436 | 7165 | 6893 | 6622 | 98 | 24 | 6827 |
| 159 | 25 | 3 (2) | 1203 | 0933 | 9662 | 0391 | 0112 | 9848 | 9577 | 9306 | 9035 | 8703 | 8492 | 8221 | 7949 | 7678 | 7406 | 7135 | 6863 | 102 | 25 | 3 6079 |
| 154 | 26 | | 1447 | 1176 | 0905 | 0033 | 0302 | 0091 | 9820 | 9548 | 9277 | 9006 | 8734 | 8463 | 8191 | 7920 | 7648 | 7376 | 7105 | 106 | 26 | 6318 |
| 150 | 27 | | 1690 | 1419 | 1148 | 0876 | 0605 | 0334 | 0062 | 9791 | 9519 | 2248 | 8976 | 8795 | 6433 | 8161 | 7889 | 7618 | 7340 | 110 | 27 | 6563 |
| 145 | 28 | | 1933 | 1662 | 1391 | 1119 | 0848 | 0576 | 0305 | 0033 | 9762 | 9490 | 2218 | 0946 | 8075 | 8403 | 0131 | 7859 | 7587 | 115 | 98 | 6809 |
| 141 | 29 | | 2176 | 1905 | 1634 | 1362 | 1090 | 0819 | 0547 | 0270 | 9001 | 9732 | 9460 | 9188 | 8216 | 8644 | 8372 | 8100 | 7828 | 119 | 29 | 7054 |
| 136 | 30 | 3 (2) | 2420 | 2148 | 1076 | 1605 | 1333 | 1061 | 0790 | 0518 | 0246 | 9974 | 9702 | 9130 | 9158 | 8886 | 8614 | 8342 | 8069 | 123 | 30 | 3 7300 |
| 132 | 31 | | 2663 | 2391 | 2119 | 1847 | 1576 | 1304 | 1032 | 0760 | 0488 | 0216 | 9914 | 9672 | 2400 | 9127 | 8855 | 8583 | 8311 | 127 | 31 | 7545 |
| 127 | 32 | | 2906 | 2534 | 2362 | 2020 | 1818 | 1546 | 1274 | 1002 | 0730 | 0458 | 0186 | 9913 | 9641 | 9369 | 9096 | 8824 | 8552 | 131 | 32 | 7790 |
| 122 | 33 | | 3149 | 2877 | 2605 | 2333 | 2061 | 1789 | 1516 | 1241 | 0972 | 0700 | 0127 | 9155 | 9883 | 9610 | 9330 | 9065 | 8793 | 135 | 33 | 8035 |
| 110 | 34 | | 3392 | 3120 | 2848 | 2575 | 2303 | 2031 | 1759 | 1486 | 1214 | 0942 | 0669 | 0397 | 0124 | 9852 | 9579 | 9306 | 9033 | 139 | 34 | 0281 |
| 113 | 35 | 3 (2) | 3534 | 3302 | 3090 | 2818 | 2546 | 2273 | 2001 | 1728 | 1450 | 1183 | 0911 | 0638 | 0366 | 0093 | 9829 | 9547 | 9274 | 143 | 35 | 3 8596 |
| 109 | 36 | | 3877 | 3605 | 3333 | 3060 | 2788 | 2515 | 2243 | 1970 | 1698 | 1425 | 1152 | 0880 | 0607 | 0334 | 0061 | 9788 | 9515 | 147 | 36 | 0771 |
| 104 | 37 | | 4120 | 3848 | 3575 | 3303 | 3030 | 2758 | 2485 | 2212 | 1940 | 1067 | 1394 | 1191 | 0848 | 0575 | 0302 | 0029 | 9756 | 151 | 37 | 9016 |
| 100 | 38 | | 4363 | 4090 | 3818 | 3545 | 3272 | 3000 | 2727 | 2454 | 2181 | 1909 | 1636 | 1363 | 1089 | 0816 | 0543 | 0279 | 9997 | 155 | 38 | 9261 |
| 95 | 39 | 3 | 4606 | 4333 | 4069 | 3780 | 3510 | 3242 | 2269 | 9696 | 2423 | 2150 | 1877 | 1604 | 1331 | 1056 | 0784 | 9611 | 0238 | 160 | 39 | 9506 |
| 91 | 40 | 3 | 4848 | 4570 | 4303 | 1030 | 3767 | 3484 | 3211 | 2938 | 2665 | 2392 | 2118 | 1845 | 1572 | 1299 | 1025 | 0752 | 9478 | 164 | 40 | 3 9751 |
| 86 | 41 | | 5091 | 4818 | 4545 | 4972 | 3929 | 3726 | 3453 | 3180 | 2906 | 2633 | 2360 | 2067 | 1813 | 1540 | 1200 | 9993 | 9719 | 168 | 41 | 9996 |
| 82 | 42 | | 5334 | 5061 | 4787 | 4014 | 4241 | 3968 | 3695 | 3421 | 3148 | 2875 | 2601 | 2328 | 9034 | 1781 | 1507 | 1233 | 9960 | 172 | 42 | 4 0249 |
| 77 | 43 | | 0576 | 5303 | 5030 | 4757 | 4483 | 4210 | 3936 | 3663 | 3390 | 3116 | 2843 | 2569 | 9295 | 2022 | 1748 | 1474 | 1200 | 176 | 43 | 0485 |
| 73 | 44 | | 5819 | 5545 | 5272 | 4999 | 4725 | 4452 | 4178 | 3905 | 3631 | 3357 | 3084 | 2819 | 2536 | 2262 | 1989 | 1715 | 1441 | 180 | 44 | 0730 |
| 68 | 45 | 3 | 6061 | 5788 | 5514 | 5241 | 4907 | 4024 | 4420 | 4146 | 3873 | 3599 | 3325 | 3051 | 2777 | 2503 | 2229 | 1955 | 1081 | 184 | 46 | 4 0974 |
| 64 | 46 | | 6303 | 6030 | 5756 | 5483 | 5909 | 4935 | 4662 | 4388 | 4114 | 3840 | 3566 | 3292 | 3016 | 2744 | 2470 | 2196 | 1222 | 188 | 46 | 1219 |
| 59 | 47 | | 6540 | 6272 | 5998 | 5795 | 5451 | 5177 | 4903 | 4629 | 4355 | 4081 | 3807 | 3533 | 3259 | 2985 | 2711 | 2436 | 2169 | 192 | 47 | 1464 |
| 54 | 48 | | 6788 | 6514 | 6240 | 5907 | 5693 | 5419 | 5145 | 4871 | 4597 | 4323 | 4048 | 3774 | 3500 | 3225 | 2951 | 2677 | 2409 | 196 | 48 | 1708 |
| 50 | 49 | | 7930 | 6756 | 6482 | 6209 | 5935 | 5660 | 5386 | 5112 | 4830 | 4564 | 4289 | 4015 | 3741 | 3466 | 3192 | 2917 | 2643 | 200 | 49 | 1953 |
| 45 | 50 | 3 | 7273 | 6999 | 6721 | 6450 | 6176 | 5902 | 5628 | 5354 | 5072 | 4005 | 4539 | 4256 | 3981 | 3707 | 3432 | 3167 | 2883 | 205 | 50 | 4 2197 |
| 41 | 51 | | 7515 | 7241 | 6906 | 6692 | 6418 | 6144 | 5869 | 5595 | 5329 | 5046 | 4771 | 4497 | 4222 | 3947 | 3673 | 3398 | 3123 | 209 | 61 | 2442 |
| 36 | 52 | | 7757 | 7483 | 7208 | 6934 | 6660 | 6385 | 6111 | 5836 | 5561 | 5287 | 5012 | 4737 | 4463 | 4188 | 3913 | 3638 | 3363 | 213 | 62 | 2686 |
| 32 | 53 | | 7999 | 7725 | 7450 | 7176 | 6901 | 6627 | 6352 | 6077 | 5803 | 5528 | 5253 | 4978 | 4703 | 4428 | 4153 | 3878 | 3003 | 217 | 53 | 2930 |
| 27 | 54 | | 8241 | 7967 | 7692 | 7417 | 7143 | 6668 | 6593 | 6318 | 6944 | 5769 | 5494 | 5219 | 4944 | 4669 | 4394 | 4119 | 3843 | 221 | 54 | 3174 |
| 23 | 55 | 3 | 8483 | 8208 | 7934 | 7659 | 7384 | 7109 | 6834 | 6560 | 6285 | 6010 | 6735 | 5459 | 5184 | 4909 | 4634 | 4359 | 4083 | 225 | 55 | 4 3419 |
| 18 | 56 | | 0725 | 8450 | 8175 | 7991 | 7620 | 7351 | 7076 | 6801 | 6626 | 6250 | 5975 | 5709 | 5425 | 5150 | 4874 | 4599 | 4323 | 229 | 66 | 3063 |
| 14 | 57 | | 8967 | 8692 | 8417 | 8142 | 7867 | 7592 | 7317 | 7942 | 6766 | 6491 | 6216 | 5941 | 5665 | 5399 | 5114 | 4839 | 4563 | 233 | 67 | 3907 |
| 9 | 58 | | 9209 | 8934 | 8659 | 8384 | 8198 | 7033 | 7550 | 7283 | 7997 | 6732 | 6457 | 6181 | 5906 | 5630 | 6354 | 5079 | 4803 | 237 | 68 | 4151 |
| 5 | 59 | | 9451 | 9175 | 8900 | 8625 | 8350 | 8074 | 7799 | 7624 | 7248 | 6973 | 6697 | 6422 | 6146 | 5870 | 5595 | 5319 | 5043 | 241 | 69 | 4395 |

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| **Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 123° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 123° | Núm. |
| 278 | 0' | 4 (3) 4305 | 4090 | 3816 | 5541 | 3267 | 2292 | 2717 | 2442 | 2198 | 1923 | 1618 | 1343 | 1068 | 8723 | 6516 | 0243 | 2968 | 245 | 8' | 6 9834 |
| 274 | 1 | 4 4908 | 4334 | 4959 | 3785 | 3510 | 3235 | 2990 | 2685 | 9410 | 2135 | 1880 | 1585 | 1310 | 1035 | 5708 | 0485 | 0209 | 241 | 1 | 9587 |
| 269 | 2 | 4852 | 4579 | 4383 | 4028 | 3753 | 3478 | 3203 | 2028 | 2653 | 9378 | 2153 | 1828 | 1553 | 1277 | 1002 | 0727 | 0451 | 237 | 2 | 2341 |
| 265 | 3 | 5099 | 4821 | 4545 | 4271 | 3098 | 3721 | 3446 | 3171 | 9828 | 2021 | 2345 | 2070 | 1725 | 1512 | 1244 | 5998 | 0893 | 233 | 3 | 2094 |
| 290 | 4 | 5340 | 5985 | 4790 | 4515 | 4239 | 3294 | 3689 | 3414 | 3139 | 2883 | 2588 | 2312 | 2037 | 1761 | 1486 | 1210 | 5235 | 229 | 4 | 8848 |
| 255 | 5 | 4 5583 | 5308 | 5935 | 4758 | 4483 | 4207 | 5932 | 3957 | 3381 | 3106 | 2830 | 2555 | 9279 | 9003 | 1728 | 1402 | 1175 | 225 | 5 | 6 8901 |
| 951 | 5 | 5897 | 5552 | 5275 | 5001 | 4729 | 4450 | 4175 | 3829 | 3624 | 3348 | 3073 | 2797 | 2521 | 2245 | 1970 | 1694 | 1418 | 221 | 6 | 8355 |
| 246 | 7 | 5079 | 5795 | 5520 | 5244 | 4999 | 4693 | 4418 | 4142 | 3059 | 3591 | 3315 | 3039 | 2793 | 2407 | 2212 | 1935 | 1859 | 217 | 7 | 8109 |
| 241 | 8 | 6314 | 6038 | 5763 | 5487 | 5212 | 4935 | 4809 | 4385 | 4100 | 3833 | 3557 | 3281 | 3005 | 2729 | 2453 | 2177 | 1901 | 213 | 8 | 7802 |
| 237 | 9 | 5557 | 8282 | 5006 | 5730 | 5455 | 5179 | 1003 | 1627 | 4351 | 4075 | 5799 | 3523 | 3247 | 2271 | 2895 | 2412 | 2143 | 209 | 9 | 7616 |
| 232 | 18 | 4 5801 | 6595 | 6249 | 5973 | 5998 | 5422 | 5140 | 4870 | 4524 | 4318 | 4042 | 3765 | 3489 | 3213 | 2937 | 9880 | 2384 | 205 | 15 | 6 7370 |
| 227 | 11 | 7044 | 9768 | 0492 | 0219 | 5949 | 5964 | 5389 | 5112 | 4839 | 4560 | 4284 | 4907 | 3731 | 3455 | 3178 | 2902 | 2925 | 200 | 11 | 7124 |
| 223 | 12 | 7287 | 7011 | 6735 | 8459 | 8183 | 5207 | 5931 | 5355 | 5078 | 4802 | 4529 | 4249 | 3973 | 3698 | 3120 | 3143 | 2867 | 190 | 12 | 6878 |
| 918 | 13 | 7531 | 7255 | 9978 | 6702 | 8498 | 6150 | 5874 | 5597 | 5321 | 0044 | 4758 | 4191 | 4215 | 3238 | 3861 | 3385 | 3108 | 192 | 13 | 5032 |
| 213 | 14 | 7774 | 7498 | 7221 | 8945 | 0699 | 8392 | 6116 | 5840 | 5563 | 5286 | 5010 | 4733 | 4456 | 4180 | 3953 | 3625 | 3349 | 188 | 14 | 6385 |
| 209 | 15 | 4 8017 | 7741 | 7484 | 7188 | 6912 | 6635 | 9358 | 6082 | 5805 | 5528 | 5252 | 4275 | 4898 | 4421 | 4144 | 3857 | 3520 | 184 | 15 | 6 8139 |
| 204 | 16 | 8290 | 7984 | 7707 | 7431 | 7154 | 6878 | 6901 | 6324 | 6017 | 5770 | 5494 | 5217 | 4240 | 4063 | 4385 | 4109 | 3831 | 180 | 16 | 5894 |
| 200 | 17 | 8503 | 8927 | 7250 | 7973 | 7397 | 7128 | 6843 | 5598 | 6989 | 9012 | 0735 | 5458 | 5181 | 4904 | 4027 | 4350 | 1073 | 175 | 17 | 5848 |
| 195 | 18 | 8746 | 8470 | 8193 | 7216 | 7639 | 7392 | 7085 | 9809 | 6531 | 5254 | 5977 | 0700 | 5423 | 5146 | 4868 | 4591 | 4314 | 172 | 18 | 5402 |
| 100 | 19 | 8089 | 8712 | 8136 | 9159 | 7882 | 7905 | 7328 | 7051 | 8773 | 0400 | 6912 | 5949 | 5664 | 5387 | 5110 | 4832 | 4555 | 159 | 19 | 5156 |
| 186 | 29 | 4 9232 | 8955 | 8678 | 8401 | 8124 | 7817 | 7570 | 7295 | 7015 | 6738 | 9461 | 9183 | 5909 | 5928 | 5351 | 5073 | 4728 | 164 | 20 | 6 4910 |
| 181 | 21 | 9475 | 9198 | 8221 | 8644 | 8367 | 8089 | 7812 | 7535 | 7257 | 9980 | 9709 | 6425 | 6147 | 5870 | 5592 | 5314 | 5037 | 160 | 21 | 4995 |
| 176 | 22 | 9718 | 9441 | 2183 | 8886 | 8902 | 8331 | 8054 | 7777 | 7492 | 7222 | 6244 | 9656 | 6389 | 8111 | 5833 | 5555 | 5278 | 155 | 22 | 4419 |
| 172 | 23 | 2991 | 9683 | 9409 | 9199 | 8851 | 8574 | 8290 | 8012 | 7741 | 7493 | 7189 | 9908 | 9930 | 6359 | 6074 | 5726 | 5518 | 151 | 23 | 4173 |
| 197 | 24 | 5 (4) 0203 | 9929 | 9649 | 9371 | 9093 | 8816 | 8538 | 8260 | 7283 | 7705 | 7427 | 7142 | 9871 | 6593 | 8315 | 6037 | 5759 | 147 | 24 | 3028 |
| 162 | 25 | 5 (4) 0446 | 0199 | 2891 | 9813 | 9336 | 9058 | 8780 | 8502 | 8924 | 7947 | 7889 | 7321 | 7113 | 9834 | 9559 | 6278 | 9000 | 143 | 25 | 6 3682 |
| 158 | 28 | 0689 | 0411 | 0133 | 9858 | 9578 | 2308 | 0022 | 8744 | 8469 | 8188 | 7910 | 7839 | 7354 | 7075 | 6797 | 6519 | 8241 | 132 | 26 | 3437 |
| 153 | 27 | 0031 | 0954 | 0375 | 0098 | 9820 | 2512 | 0264 | 8986 | 8708 | 8430 | 8151 | 7873 | 7505 | 7310 | 7038 | 5750 | 8481 | 135 | 27 | 3191 |
| 149 | 28 | 1174 | 0896 | 0618 | 9310 | 0082 | 2704 | 0599 | 9228 | 8940 | 8971 | 8323 | 8114 | 7839 | 7557 | 7279 | 7000 | 9722 | 131 | 28 | 2948 |
| 144 | 29 | 1416 | 1139 | 0869 | 0592 | 0304 | 9026 | 2748 | 9459 | 9191 | 8013 | 8934 | 8355 | 8077 | 7728 | 7090 | 7241 | 8992 | 127 | 22 | 2709 |
| 139 | 30 | 6 (4) 1659 | 1581 | 1103 | 9894 | 9546 | 0968 | 9989 | 9711 | 9432 | 9154 | 8875 | 8527 | 8318 | 8939 | 7791 | 7482 | 7203 | 123 | 36 | 6 2455 |
| 135 | 31 | 1901 | 1623 | 1345 | 1066 | 9788 | 9509 | 0231 | 9952 | 0874 | 9395 | 2116 | 8838 | 8559 | 8280 | 8001 | 7722 | 7443 | 119 | 31 | 2218 |
| 130 | 32 | 2144 | 1895 | 1587 | 1308 | 1030 | 0751 | 0173 | 0124 | 0015 | 0939 | 0358 | 0972 | 8800 | 8521 | 8942 | 7993 | 7884 | 115 | 32 | 1995 |
| 125 | 33 | 2386 | 2188 | 1822 | 1550 | 1272 | 0993 | 9714 | 0435 | 0157 | 9878 | 9599 | 9320 | 9541 | 8762 | 8403 | 8253 | 7926 | 110 | 33 | 1710 |
| 191 | 34 | 9698 | 9359 | 2271 | 1792 | 1514 | 1935 | 0959 | 0877 | 9398 | 0112 | 9840 | 0591 | 2282 | 0002 | 8723 | 8444 | 8194 | 106 | 34 | 1474 |
| 116 | 35 | 0 (4) 2871 | 2522 | 2315 | 2034 | 1755 | 1478 | 1197 | 0918 | 0939 | 0360 | 0081 | 0802 | 0529 | 9943 | 8964 | 8684 | 8405 | 102 | 35 | 6 1229 |
| 111 | 38 | 3113 | 9834 | 2535 | 2276 | 1997 | 1718 | 1439 | 1189 | 0880 | 0001 | 0392 | 0049 | 9753 | 0484 | 9204 | 8025 | 8645 | 28 | 36 | 8984 |
| 107 | 37 | 3355 | 3078 | 9797 | 2518 | 2239 | 1259 | 1980 | 1401 | 1129 | 0849 | 0503 | 0983 | 0004 | 9724 | 9445 | 9185 | 8885 | 94 | 37 | 8730 |
| 102 | 38 | 3527 | 3318 | 3032 | 2752 | 2489 | 2901 | 1921 | 1942 | 1363 | 1983 | 0894 | 0524 | 0944 | 0265 | 0685 | 9405 | 9125 | 20 | 39 | 8404 |
| 27 | 39 | 3839 | 3590 | 5289 | 3001 | 2722 | 2442 | 2193 | 1833 | 1604 | 1324 | 1044 | 0765 | 0485 | 0205 | 9295 | 9945 | 9395 | 66 | 32 | 0242 |
| 23 | 40 | 5 (4) 4081 | 3802 | 3522 | 3243 | 2903 | 2684 | 2404 | 2124 | 1845 | 1505 | 1285 | 1905 | 0725 | 0446 | 0166 | 9885 | 9605 | 62 | 46 | 6 0004 |
| 88 | 41 | 4323 | 4043 | 3794 | 3484 | 3205 | 2925 | 2845 | 2395 | 2086 | 1826 | 1596 | 1248 | 0966 | 0686 | 0406 | 0128 | 9845 | 76 | 41 | 6 2760 |
| 84 | 42 | 6 4565 | 4285 | 4008 | 3726 | 3469 | 3169 | 2886 | 2607 | 2327 | 2047 | 1767 | 1487 | 1296 | 0996 | 0646 | 0366 | 0985 | 74 | 42 | 2515 |
| 79 | 43 | 4807 | 4527 | 4247 | 3997 | 3688 | 3408 | 3128 | 2816 | 2598 | 2287 | 2007 | 1727 | 1447 | 1166 | 0888 | 0606 | 0325 | 70 | 43 | 2270 |
| 74 | 44 | 5949 | 4799 | 4489 | 4290 | 3929 | 3940 | 3392 | 3089 | 2808 | 9528 | 9248 | 1267 | 1687 | 1407 | 1128 | 0846 | 0565 | 65 | 44 | 2026 |
| 70 | 45 | 5 5290 | 5010 | 4730 | 4450 | 4170 | 3800 | 3810 | 3529 | 3049 | 2762 | 2488 | 2298 | 1927 | 1647 | 1399 | 1086 | 0895 | 61 | 45 | 5 6751 |
| 95 | 46 | 5532 | 5252 | 4972 | 4992 | 4411 | 4131 | 3851 | 3570 | 3290 | 3009 | 2722 | 2448 | 2168 | 1887 | 1609 | 1399 | 1040 | 57 | 46 | 8530 |
| 60 | 47 | 6774 | 5423 | 5213 | 4233 | 4653 | 4372 | 4922 | 3811 | 3531 | 3250 | 9269 | 2689 | 2408 | 2127 | 1849 | 1505 | 1284 | 63 | 47 | 8292 |
| 56 | 48 | 6915 | 5735 | 5455 | 5174 | 4824 | 4613 | 4333 | 4052 | 3771 | 3421 | 5210 | 2929 | 9648 | 9367 | 2086 | 1895 | 1594 | 49 | 48 | 8047 |
| 01 | 42 | 6257 | 5977 | 5629 | 5419 | 5135 | 4854 | 4573 | 4223 | 4012 | 3731 | 3459 | 3162 | 2888 | 9607 | 2326 | 9045 | 1704 | 45 | 49 | 7803 |
| 46 | 50 | 5 6422 | 6218 | 5237 | 5657 | 5376 | 5095 | 4814 | 4033 | 4952 | 3271 | 3690 | 3409 | 3128 | 2847 | 9569 | 2285 | 2803 | 41 | 50 | 6 7558 |
| 42 | 51 | 6740 | 8459 | 8178 | 5828 | 5617 | 5336 | 5955 | 4774 | 4193 | 4212 | 3931 | 3642 | 3368 | 3987 | 2806 | 2524 | 2243 | 37 | 51 | 7314 |
| 37 | 52 | 6981 | 6701 | 8420 | 0139 | 5858 | 5577 | 5296 | 5915 | 4733 | 4452 | 4171 | 3892 | 3898 | 3397 | 3045 | 2764 | 2489 | 33 | 52 | 7870 |
| 32 | 53 | 7293 | 6942 | 6691 | 6380 | 0029 | 5919 | 5536 | 5235 | 4974 | 4692 | 4411 | 4122 | 3849 | 5567 | 3285 | 3003 | 2722 | 29 | 53 | 6826 |
| 28 | 54 | 7464 | 7183 | 6902 | 0621 | 6340 | 6058 | 6777 | 5426 | 5214 | 4933 | 4651 | 4362 | 4088 | 3806 | 3525 | 3243 | 9261 | 25 | 54 | 6581 |
| 23 | 55 | 6 7705 | 7424 | 7143 | 6862 | 6585 | 6292 | 6017 | 5736 | 5454 | 5173 | 4891 | 4609 | 4328 | 4048 | 3764 | 3482 | 3281 | 20 | 55 | 5 6337 |
| 12 | 56 | 7247 | 7665 | 7384 | 7103 | 6821 | 6545 | 6258 | 5976 | 5625 | 5413 | 5131 | 4842 | 4588 | 4286 | 4004 | 3722 | 3440 | 16 | 56 | 6923 |
| 14 | 57 | 6188 | 7208 | 7625 | 7343 | 7089 | 6780 | 6498 | 6217 | 5935 | 5653 | 5371 | 5882 | 4807 | 4595 | 4243 | 3981 | 3879 | 12 | 57 | 5849 |
| 2 | 58 | 8429 | 8147 | 7886 | 7584 | 7382 | 7021 | 6739 | 6457 | 8176 | 5823 | 5611 | 5322 | 5647 | 4765 | 4483 | 4201 | 3918 | 8 | 58 | 5605 |
| 5 | 59 | 8670 | 8388 | 8107 | 7025 | 7543 | 7261 | 5972 | 6827 | 6415 | 6133 | 5851 | 5562 | 5287 | 5054 | 4722 | 4440 | 4157 | 4 | 52 | 5381 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.**

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 123° | Argumento Auxiliar. 17' | 16' | 19' | 20' | 21' | 22' | 23' | 24' | 26' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 123° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 279 | 0' | 3 9622 | 9417 | 9142 | 8866 | 8591 | 8316 | 8040 | 7765 | 7489 | 7213 | 6938 | 6669 | 6386 | 6116 | 5835 | 5559 | 6283 | 0 | 0' | 4 4639 |
| 274 | 1 | 9934 | 9659 | 9383 | 9108 | 8839 | 8557 | 8281 | 8005 | 7730 | 7454 | 7178 | 6202 | 6626 | 6351 | 6075 | 5799 | 5523 | 4 | 1 | 4883 |
| 270 | 2 | 4 (3) 0176 | 9900 | 9625 | 9349 | 9073 | 8798 | 8522 | 8246 | 7970 | 7695 | 7419 | 7143 | 6867 | 6591 | 6315 | 6038 | 5762 | 8 | 2 | 5127 |
| 265 | 3 | 0417 | 9142 | 9866 | 9520 | 9315 | 9039 | 8763 | 8487 | 8211 | 7935 | 7659 | 7383 | 7107 | 6831 | 6553 | 6278 | 6002 | 12 | 3 | 5371 |
| 260 | 4 | 0659 | 0383 | 0107 | 9839 | 9556 | 9280 | 9004 | 8728 | 8452 | 8176 | 7899 | 7623 | 7347 | 7071 | 6794 | 6518 | 6241 | 16 | 4 | 5615 |
| 256 | 5 | 4 (3) 0900 | 0625 | 0349 | 0073 | 9797 | 9521 | 9945 | 8968 | 8692 | 8416 | 8140 | 7863 | 7687 | 7311 | 7034 | 6758 | 6481 | 20 | 5 | 4 5858 |
| 251 | 6 | 1142 | 0866 | 0590 | 0314 | 0038 | 9769 | 2485 | 9209 | 8933 | 8656 | 8380 | 8104 | 7827 | 7550 | 7974 | 6997 | 6791 | 24 | 6 | 6102 |
| 247 | 7 | 1383 | 1107 | 0831 | 0555 | 0279 | 0002 | 9726 | 9450 | 9173 | 8897 | 8620 | 8344 | 8067 | 7790 | 7514 | 7237 | 6960 | 28 | 7 | 6346 |
| 242 | 8 | 1625 | 1349 | 1072 | 0796 | 0520 | 0943 | 9967 | 9690 | 9414 | 9137 | 8860 | 8584 | 8307 | 8030 | 7753 | 7476 | 7199 | 32 | 8 | 6589 |
| 237 | 9 | 1866 | 1590 | 1313 | 1037 | 0760 | 0484 | 0207 | 9931 | 9654 | 9377 | 9100 | 8894 | 8547 | 8270 | 7993 | 7716 | 7432 | 36 | 9 | 6833 |
| 233 | 12 | 4 (3) 2107 | 1831 | 1554 | 1278 | 1001 | 0725 | 0448 | 0171 | 9894 | 9617 | 9340 | 9064 | 8787 | 8510 | 8232 | 7955 | 7678 | 40 | 10 | 4 7076 |
| 220 | 11 | 2349 | 2072 | 1795 | 1519 | 1242 | 0965 | 0688 | 0411 | 0135 | 9858 | 9581 | 9303 | 9026 | 8749 | 8479 | 8195 | 7917 | 44 | 11 | 7320 |
| 223 | 12 | 2590 | 2313 | 2036 | 1760 | 1483 | 1206 | 0929 | 0652 | 0376 | 2098 | 9821 | 9543 | 2266 | 8989 | 8711 | 8434 | 8157 | 48 | 12 | 7563 |
| 219 | 13 | 2831 | 9554 | 2277 | 2000 | 1723 | 1446 | 1169 | 0892 | 0615 | 2338 | 0061 | 9783 | 9506 | 9228 | 8951 | 8673 | 8396 | 53 | 13 | 7807 |
| 214 | 14 | 3072 | 2795 | 2518 | 2941 | 1964 | 1687 | 1410 | 1132 | 0855 | 0578 | 0300 | 0023 | 9745 | 9468 | 9190 | 8913 | 8635 | 57 | 14 | 8050 |
| 209 | 15 | 4 (3) 3313 | 3036 | 2759 | 2482 | 9205 | 1927 | 1650 | 1373 | 1095 | 0818 | 0540 | 0963 | 9985 | 9707 | 9430 | 9159 | 8874 | 61 | 15 | 4 8293 |
| 205 | 16 | 3554 | 3977 | 3000 | 2723 | 9445 | 2168 | 1890 | 1613 | 1335 | 1058 | 0780 | 0509 | 0225 | 9947 | 9669 | 9391 | 9113 | 65 | 16 | 8536 |
| 900 | 17 | 3795 | 3518 | 3241 | 2963 | 2686 | 2408 | 2131 | 1853 | 1575 | 1298 | 1020 | 0742 | 0464 | 0186 | 9908 | 9630 | 9359 | 69 | 17 | 8780 |
| 195 | 18 | 4036 | 3759 | 3481 | 3904 | 2996 | 2648 | 9371 | 2093 | 1815 | 1537 | 1259 | 0982 | 0704 | 0426 | 0147 | 9869 | 9591 | 73 | 18 | 9023 |
| 191 | 12 | 4277 | 4000 | 3799 | 3444 | 3166 | 2889 | 9611 | 2333 | 9055 | 1777 | 1499 | 1291 | 0943 | 0665 | 0387 | 0108 | 9830 | 77 | 19 | 9966 |
| 186 | 20 | 4 4518 | 4240 | 3963 | 3685 | 3407 | 3199 | 9851 | 2573 | 2295 | 2017 | 1739 | 1461 | 1182 | 0904 | 0626 | 0347 | 0069 | 81 | 20 | 4 9509 |
| 181 | 21 | 4752 | 4481 | 4203 | 3925 | 3647 | 3369 | 3091 | 2813 | 2535 | 9257 | 1978 | 1700 | 1422 | 1143 | 0865 | 0586 | 0308 | 85 | 21 | 9752 |
| 177 | 22 | 5000 | 4722 | 4444 | 4166 | 3887 | 3609 | 3331 | 3053 | 2775 | 2496 | 2918 | 1940 | 1661 | 1382 | 1104 | 0825 | 0547 | 89 | 22 | 9995 |
| 172 | 23 | 5941 | 4962 | 4684 | 4406 | 4128 | 3849 | 3571 | 3293 | 3014 | 2736 | 2457 | 2179 | 1200 | 1622 | 1343 | 1064 | 0785 | 93 | 23 | 6 0938 |
| 167 | 24 | 5481 | 5203 | 4994 | 4646 | 4368 | 4089 | 3811 | 3532 | 3254 | 2976 | 2697 | 9418 | 2139 | 1861 | 1582 | 1303 | 1094 | 97 | 24 | 0481 |
| 163 | 25 | 4 8729 | 5443 | 5165 | 4886 | 4608 | 4329 | 4051 | 3772 | 3494 | 3215 | 9936 | 9657 | 2379 | 9100 | 1821 | 1549 | 1963 | 161 | 25 | 5 6794 |
| 150 | 26 | 5962 | 5684 | 5405 | 5127 | 4848 | 4569 | 4291 | 4012 | 3733 | 3454 | 3176 | 2897 | 2618 | 2339 | 2060 | 1781 | 1501 | 105 | 26 | 0966 |
| 154 | 27 | 6203 | 5924 | 5645 | 5367 | 5088 | 4809 | 4531 | 4952 | 3973 | 3694 | 3415 | 3136 | 9857 | 2578 | 2298 | 2012 | 1740 | 109 | 27 | 1209 |
| 142 | 28 | 6443 | 6164 | 5886 | 6607 | 5328 | 5049 | 4770 | 4491 | 4212 | 3933 | 3654 | 3375 | 3096 | 2816 | 2537 | 2958 | 1278 | 113 | 28 | 1452 |
| 144 | 29 | 6684 | 6406 | 6126 | 5847 | 5568 | 5989 | 5012 | 4731 | 4459 | 4172 | 3893 | 3614 | 3335 | 3065 | 2776 | 2496 | 2217 | 117 | 29 | 1694 |
| 140 | 30 | 4 6924 | 6645 | 6366 | 6087 | 5808 | 5529 | 5950 | 4970 | 4691 | 4411 | 4132 | 3053 | 3574 | 3294 | 3915 | 2735 | 2455 | 121 | 30 | 6 1937 |
| 135 | 31 | 7164 | 6885 | 6606 | 6397 | 6048 | 5769 | 5489 | 5216 | 4930 | 4651 | 4379 | 4092 | 3819 | 3533 | 3253 | 2973 | 9694 | 125 | 31 | 2100 |
| 130 | 32 | 7405 | 7125 | 6846 | 6567 | 6288 | 6008 | 5729 | 5449 | 5170 | 4890 | 4611 | 4331 | 4051 | 3772 | 3422 | 3212 | 9932 | 122 | 32 | 2422 |
| 126 | 33 | 7645 | 7366 | 7086 | 6807 | 6527 | 6248 | 5968 | 5689 | 5409 | 5129 | 4850 | 4570 | 4990 | 4010 | 3730 | 3450 | 3170 | 133 | 33 | 2664 |
| 121 | 34 | 7885 | 7606 | 7396 | 7047 | 6767 | 6487 | 6208 | 5928 | 5648 | 5368 | 5089 | 4809 | 4529 | 4949 | 3969 | 3689 | 3409 | 137 | 34 | 2907 |
| 116 | 35 | 4 6125 | 7846 | 7566 | 7986 | 7007 | 6727 | 6447 | 6167 | 5887 | 5608 | 6398 | 5048 | 4767 | 4487 | 4207 | 3927 | 3647 | 141 | 35 | 5 3149 |
| 112 | 36 | 6365 | 8086 | 7806 | 7596 | 7246 | 6966 | 6687 | 6407 | 6127 | 5847 | 5566 | 5986 | 5006 | 4726 | 4446 | 4165 | 3885 | 145 | 36 | 3392 |
| 107 | 37 | 8605 | 8396 | 8046 | 7766 | 7486 | 7906 | 6926 | 6646 | 6366 | 6086 | 5805 | 5595 | 5245 | 4964 | 4684 | 4403 | 4123 | 150 | 37 | 3634 |
| 102 | 38 | 8845 | 8565 | 8985 | 8005 | 7725 | 7445 | 7165 | 6885 | 6605 | 6394 | 6044 | 5764 | 5483 | 5203 | 4922 | 4642 | 4361 | 154 | 38 | 3876 |
| 98 | 39 | 9285 | 8805 | 8525 | 8245 | 7965 | 7685 | 7404 | 7124 | 6844 | 6563 | 6283 | 6002 | 5729 | 5441 | 5160 | 4880 | 4599 | 158 | 39 | 4118 |
| 23 | 40 | 4 2325 | 9045 | 8765 | 8485 | 8204 | 7924 | 7644 | 7363 | 7083 | 6802 | 6522 | 6241 | 5960 | 5679 | 5399 | 5118 | 4837 | 162 | 40 | 5 4360 |
| 08 | 41 | 9565 | 9285 | 9005 | 8724 | 8444 | 8163 | 7883 | 7602 | 7322 | 7041 | 6760 | 6479 | 6198 | 5918 | 5637 | 6356 | 5075 | 166 | 41 | 4602 |
| 84 | 42 | 9805 | 9525 | 9244 | 8964 | 8683 | 8402 | 8122 | 7841 | 7560 | 7280 | 6999 | 6718 | 6437 | 6156 | 5875 | 6594 | 5313 | 170 | 42 | 4844 |
| 79 | 43 | 5 (4) 2045 | 9764 | 9484 | 9203 | 8922 | 8649 | 8361 | 8080 | 7799 | 7518 | 7237 | 6956 | 6675 | 6394 | 6113 | 6832 | 5551 | 174 | 43 | 6086 |
| 74 | 44 | 0285 | 0004 | 9723 | 9442 | 9162 | 8881 | 8600 | 8319 | 8038 | 7757 | 7476 | 7195 | 6914 | 6632 | 6351 | 6070 | 5788 | 178 | 44 | 5328 |
| 70 | 45 | 5 (4) 0524 | 0243 | 9963 | 9682 | 9401 | 9120 | 8839 | 8558 | 8277 | 7996 | 7714 | 7433 | 7152 | 6870 | 6589 | 6308 | 6026 | 182 | 45 | 6 5570 |
| 65 | 46 | 2764 | 0483 | 0202 | 9921 | 9640 | 9359 | 9078 | 8797 | 8515 | 8234 | 7953 | 7671 | 7390 | 7108 | 6827 | 6545 | 6264 | 186 | 46 | 5812 |
| 61 | 47 | 1003 | 0722 | 0441 | 0160 | 9879 | 9598 | 9317 | 9035 | 8754 | 8473 | 8191 | 7910 | 7628 | 7346 | 7065 | 6783 | 6501 | 190 | 47 | 6054 |
| 56 | 48 | 1243 | 0962 | 0681 | 0399 | 0118 | 9837 | 9555 | 9274 | 8993 | 8711 | 8499 | 8148 | 7866 | 7584 | 7303 | 7021 | 6739 | 194 | 48 | 6296 |
| 51 | 42 | 1482 | 1901 | 0920 | 0639 | 0357 | 0076 | 9794 | 9513 | 2231 | 8949 | 8668 | 8386 | 8104 | 7822 | 7540 | 7259 | 6977 | 198 | 49 | 6537 |
| 47 | 50 | 5 (4) 1722 | 1441 | 1159 | 0878 | 0596 | 0315 | 0033 | 9751 | 9470 | 9188 | 8906 | 8694 | 8342 | 8060 | 7778 | 7496 | 7214 | 202 | 52 | 5 6779 |
| 42 | 51 | 1961 | 1680 | 1398 | 1117 | 0835 | 0553 | 0272 | 2992 | 2708 | 9426 | 9144 | 8862 | 8580 | 8298 | 8016 | 7734 | 7452 | 206 | 51 | 7021 |
| 37 | 52 | 2201 | 1919 | 1637 | 1356 | 1074 | 0792 | 0510 | 0228 | 9946 | 9664 | 9382 | 9100 | 8818 | 8536 | 8254 | 7971 | 7689 | 210 | 62 | 7262 |
| 33 | 53 | 2440 | 2158 | 1876 | 1595 | 1313 | 1031 | 0749 | 0467 | 0185 | 9903 | 9620 | 9338 | 9056 | 8774 | 8491 | 8209 | 7926 | 214 | 63 | 7504 |
| 20 | 54 | 2679 | 2397 | 2116 | 1834 | 1552 | 1269 | 0987 | 0705 | 0423 | 0141 | 9858 | 9576 | 9994 | 9011 | 8729 | 8446 | 8164 | 218 | 54 | 7745 |
| 23 | 55 | 5 (4) 2919 | 2637 | 2355 | 2072 | 1790 | 1508 | 1226 | 0944 | 0661 | 0379 | 0096 | 9814 | 9531 | 9249 | 8966 | 8684 | 8401 | 222 | 65 | 6 7987 |
| 12 | 56 | 3158 | 2876 | 2593 | 2311 | 2099 | 1747 | 1464 | 1182 | 0829 | 0617 | 0334 | 0052 | 9769 | 9487 | 9204 | 8991 | 8638 | 226 | 56 | 8228 |
| 14 | 57 | 3397 | 3115 | 2832 | 2550 | 2268 | 1985 | 1703 | 1490 | 1138 | 0855 | 0572 | 0290 | 0007 | 9794 | 9441 | 9158 | 8875 | 230 | 57 | 8469 |
| 9 | 58 | 3636 | 3354 | 3071 | 2789 | 2506 | 2224 | 1941 | 1658 | 1376 | 1093 | 0810 | 0527 | 0244 | 9962 | 9679 | 9396 | 9112 | 234 | 58 | 8710 |
| 5 | 59 | 3875 | 3592 | 3310 | 3027 | 2745 | 2462 | 2179 | 1897 | 1614 | 1331 | 1048 | 0765 | 0482 | 0199 | 9917 | 9633 | 9350 | 238 | 59 | 8952 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 124° | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 124° | Núm. |
| | | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 12 | 11' | 12' | 13' | 14' | 16' | 16' | | | | |
| 286 | 9' | 5 | 8911 | 8629 | 6348 | 8066 | 7784 | 7502 | 7222 | 6938 | 6655 | 6373 | 6091 | 5809 | 5526 | 5244 | 4262 | 4679 | 4397 | | 242 | 0' | 5 5117 |
| 281 | 1 | | 9152 | 8876 | 8588 | 8305 | 8024 | 7742 | 7450 | 7178 | 6895 | 6613 | 5331 | 6048 | 5766 | 5483 | 5201 | 4216 | 4636 | | 238 | 1 | 4873 |
| 277 | 2 | | 2323 | 9111 | 8029 | 8547 | 8265 | 7902 | 7700 | 7418 | 7135 | 6853 | 6576 | 6208 | 6005 | 5723 | 5440 | 5157 | 4075 | | 234 | 2 | 4629 |
| 272 | 3 | | 9634 | 9352 | 9270 | 8787 | 8505 | 8223 | 7940 | 7550 | 7375 | 7093 | 6810 | 6526 | 6245 | 5962 | 5679 | 5396 | 5114 | | 230 | 3 | 4385 |
| 267 | 4 | | 9875 | 9523 | 2316 | 9620 | 8745 | 8463 | 6180 | 7898 | 7615 | 7333 | 7050 | 6767 | 6484 | 6261 | 5919 | 5635 | 5353 | | 226 | 4 | 4142 |
| 262 | 5 | 6 (5) | 0116 | 9833 | 9551 | 9268 | 8985 | 8703 | 8421 | 8138 | 7855 | 7572 | 7289 | 7007 | 6724 | 6441 | 6158 | 5874 | 5591 | | 222 | 5 | 5 3898 |
| 257 | 6 | | 0357 | 6074 | 2721 | 2522 | 9226 | 8943 | 8661 | 8378 | 8995 | 7812 | 7529 | 7246 | 6263 | 6680 | 6397 | 6113 | 5830 | | 218 | 6 | 3654 |
| 253 | 7 | | 2527 | 2315 | 6032 | 2749 | 2456 | 9183 | 8901 | 6610 | 8335 | 8052 | 7762 | 7405 | 7202 | 6919 | 6636 | 6352 | 6069 | | 214 | 7 | 3411 |
| 248 | 8 | | 0838 | 2555 | 6272 | 2999 | 9797 | 9424 | 9141 | 8858 | 8574 | 0291 | 8606 | 7725 | 7441 | 7158 | 6875 | 6521 | 6308 | | 210 | 8 | 3167 |
| 243 | 9 | | 1079 | 0725 | 0513 | 2236 | 9247 | 2564 | 9300 | 9097 | 8814 | 0531 | 8247 | 7964 | 7661 | 7397 | 7114 | 5030 | 6547 | | 266 | 2 | 2924 |
| 238 | 12 | 6 (5) | 1319 | 1236 | 0753 | 2470 | 0187 | 9904 | 9620 | 9337 | 9054 | 0776 | 8487 | 8203 | 7920 | 7536 | 7353 | 7069 | 6785 | | 202 | 10 | 5 2680 |
| 234 | 11 | | 1666 | 1277 | 2993 | 2716 | 0427 | 0144 | 9860 | 9577 | 9293 | 9010 | 0726 | 8442 | 8152 | 7875 | 7591 | 7308 | 7024 | | 198 | 11 | 2437 |
| 229 | 12 | | 1860 | 1517 | 1233 | 0950 | 0657 | 0383 | 0100 | 9016 | 9533 | 9249 | 8965 | 0681 | 8322 | 0114 | 7830 | 7546 | 7263 | | 194 | 12 | 2193 |
| 224 | 13 | | 2041 | 1757 | 1474 | 1190 | 0927 | 0623 | 0340 | 0056 | 9772 | 2488 | 9205 | 8921 | 8637 | 8353 | 8069 | 7785 | 7501 | | 190 | 13 | 1950 |
| 219 | 14 | | 2281 | 1290 | 1714 | 1430 | 1147 | 0863 | 6579 | 6295 | 0012 | 9726 | 9444 | 9150 | 8875 | 8592 | 8308 | 8023 | 7739 | | 186 | 14 | 1707 |
| 215 | 15 | 6 (5) | 2521 | 2238 | 1954 | 1570 | 1387 | 1103 | 0819 | 6535 | 0251 | 9967 | 9683 | 9399 | 9115 | 8830 | 8546 | 8262 | 7278 | | 182 | 15 | 5 1464 |
| 216 | 16 | | 2762 | 2478 | 2194 | 1910 | 1626 | 1342 | 1058 | 0774 | 0490 | 0206 | 9922 | 9638 | 9354 | 9059 | 8785 | 8500 | 8216 | | 170 | 16 | 1220 |
| 205 | 17 | | 3202 | 2716 | 2434 | 2150 | 1866 | 1592 | 1290 | 1014 | 0730 | 0445 | 0161 | 9877 | 9592 | 9308 | 9023 | 0739 | 0454 | | 174 | 17 | 0977 |
| 200 | 18 | | 3242 | 2258 | 2674 | 2320 | 2126 | 1822 | 1537 | 1253 | 0962 | 0684 | 0400 | 0116 | 9831 | 9546 | 9262 | 8977 | 8623 | | 170 | 18 | 0734 |
| 195 | 19 | | 3482 | 3126 | 2214 | 2630 | 2346 | 2061 | 1777 | 1492 | 1208 | 0923 | 0639 | 0354 | 0072 | 9785 | 9500 | 9216 | 8931 | | 166 | 12 | 0421 |
| 191 | 26 | 6 (5) | 3722 | 3438 | 3154 | 2870 | 2585 | 2301 | 2016 | 1732 | 1447 | 1162 | 2878 | 6593 | 0308 | 0024 | 9739 | 9454 | 9169 | | 162 | 22 | 5 0240 |
| 186 | 21 | | 3962 | 3678 | 3394 | 3109 | 2825 | 2546 | 2256 | 1971 | 1686 | 1401 | 1117 | 0832 | 9547 | 2262 | 9977 | 9692 | 9407 | | 158 | 21 | 0605 |
| 181 | 22 | | 4202 | 3918 | 3633 | 3349 | 3064 | 2780 | 2495 | 2210 | 1225 | 1640 | 1355 | 1071 | 0786 | 0561 | 0215 | 9932 | 9645 | | 154 | 22 | 4 2762 |
| 176 | 23 | | 4442 | 4158 | 3873 | 3586 | 3394 | 3019 | 2734 | 2449 | 2164 | 1879 | 1594 | 1302 | 1024 | 2732 | 0454 | 0168 | 9883 | | 156 | 23 | 2512 |
| 172 | 24 | 6 | 4682 | 4398 | 4113 | 3828 | 3543 | 3258 | 2973 | 2688 | 2403 | 2118 | 1833 | 1548 | 1263 | 0977 | 6692 | 6467 | 0121 | | 145 | 24 | 9275 |
| 167 | 25 | 6 | 4922 | 4637 | 4353 | 4068 | 3783 | 3498 | 3212 | 2927 | 2642 | 2357 | 2072 | 1706 | 1501 | 1216 | 0230 | 0645 | 0359 | | 141 | 25 | 4 9034 |
| 162 | 26 | | 5162 | 4877 | 4592 | 4307 | 4022 | 3737 | 3451 | 3165 | 2801 | 2596 | 2312 | 2025 | 1739 | 1454 | 1168 | 0883 | 0597 | | 137 | 26 | 8791 |
| 157 | 27 | | 5402 | 5117 | 4832 | 4546 | 4251 | 3976 | 3696 | 3405 | 3120 | 2834 | 2549 | 2263 | 1278 | 1622 | 1406 | 1121 | 0035 | | 133 | 27 | 8540 |
| 153 | 28 | | 5642 | 5356 | 5071 | 4786 | 4520 | 4215 | 3929 | 3644 | 3359 | 3673 | 2707 | 2502 | 2216 | 1930 | 1644 | 1358 | 1673 | | 129 | 28 | 0306 |
| 148 | 29 | | 5881 | 5596 | 5311 | 5025 | 4740 | 4454 | 4168 | 3883 | 3597 | 3312 | 3026 | 2740 | 2454 | 2168 | 1882 | 1526 | 1316 | | 125 | 29 | 0063 |
| 143 | 30 | 6 | 6121 | 5835 | 5550 | 5264 | 4979 | 4693 | 4407 | 4122 | 3836 | 3550 | 3264 | 2978 | 2692 | 2406 | 2120 | 1834 | 1540 | | 121 | 30 | 4 7820 |
| 138 | 31 | | 6361 | 6075 | 5789 | 5504 | 5218 | 4932 | 4646 | 4350 | 4075 | 3789 | 3503 | 3217 | 2930 | 2644 | 2350 | 2272 | 1766 | | 117 | 31 | 7578 |
| 134 | 32 | | 6600 | 6314 | 6029 | 5743 | 5457 | 5171 | 4605 | 4599 | 4313 | 4227 | 3741 | 3455 | 3169 | 2882 | 2596 | 2312 | 2023 | | 113 | 32 | 7335 |
| 129 | 33 | | 6840 | 6554 | 6268 | 5282 | 5696 | 5410 | 5124 | 4838 | 4552 | 4265 | 3979 | 3693 | 3407 | 3126 | 2634 | 2547 | 2261 | | 109 | 33 | 7093 |
| 124 | 34 | | 7079 | 6793 | 6527 | 6221 | 5935 | 5649 | 5363 | 5076 | 4790 | 4504 | 4217 | 3931 | 3645 | 3358 | 3072 | 2785 | 2498 | | 105 | 34 | 6851 |
| 119 | 35 | 6 | 7318 | 7032 | 6746 | 6460 | 6174 | 5888 | 5601 | 5315 | 5029 | 4742 | 4456 | 4169 | 3883 | 3596 | 3369 | 3623 | 2736 | | 101 | 36 | 4 6608 |
| 114 | 36 | | 7558 | 7272 | 6985 | 6699 | 6413 | 6126 | 5846 | 5553 | 5267 | 4980 | 4694 | 4407 | 4120 | 3834 | 3547 | 3260 | 2973 | | 97 | 36 | 6366 |
| 116 | 37 | | 7797 | 7511 | 7224 | 6930 | 6652 | 6365 | 6070 | 5792 | 5565 | 5212 | 4932 | 4645 | 4356 | 4671 | 3785 | 3498 | 3211 | | 93 | 37 | 6124 |
| 165 | 38 | | 8036 | 7750 | 7453 | 7177 | 6096 | 6604 | 6317 | 6030 | 5744 | 5457 | 5170 | 4803 | 4596 | 4309 | 4622 | 3735 | 3448 | | 89 | 38 | 5082 |
| 100 | 39 | | 8275 | 7989 | 7702 | 7416 | 7129 | 6842 | 5555 | 6269 | 5282 | 5695 | 5406 | 5121 | 4834 | 4547 | 4260 | 3972 | 3685 | | 85 | 39 | 5642 |
| 95 | 46 | 6 | 8515 | 8228 | 7941 | 7654 | 7368 | 7081 | 6794 | 6507 | 6226 | 5933 | 5646 | 5359 | 5072 | 4784 | 4497 | 4216 | 3922 | | 81 | 40 | 4 5398 |
| 91 | 41 | | 8754 | 8467 | 8180 | 7893 | 7606 | 7319 | 7032 | 6745 | 6450 | 6171 | 5884 | 5597 | 5309 | 5022 | 4734 | 4447 | 4160 | | 77 | 41 | 5156 |
| 86 | 42 | | 8993 | 8706 | 8419 | 8132 | 7845 | 7558 | 7271 | 6983 | 6696 | 6409 | 6122 | 5834 | 5547 | 5259 | 4972 | 4684 | 4397 | | 73 | 42 | 4914 |
| 01 | 43 | | 9232 | 8945 | 8658 | 8371 | 0283 | 7796 | 7509 | 7222 | 6234 | 6647 | 6359 | 6072 | 5784 | 5497 | 5269 | 4921 | 4634 | | 69 | 43 | 4672 |
| 76 | 44 | | 9471 | 9184 | 8896 | 8609 | 8322 | 8635 | 7747 | 7460 | 7172 | 6885 | 6597 | 6310 | 6622 | 5734 | 5446 | 5159 | 4671 | | 65 | 44 | 4430 |
| 72 | 45 | 6 | 9710 | 9422 | 9135 | 8848 | 8560 | 8273 | 7985 | 7690 | 7416 | 7123 | 6835 | 6547 | 6259 | 5972 | 5684 | 5396 | 5108 | | 61 | 46 | 4 4180 |
| 57 | 46 | | 9949 | 9661 | 9374 | 9086 | 8799 | 8511 | 8223 | 7936 | 7648 | 7366 | 7073 | 6785 | 6497 | 6209 | 5921 | 5633 | 5345 | | 57 | 46 | 3945 |
| 62 | 47 | 7 (5) | 0187 | 9900 | 9612 | 9325 | 9037 | 8749 | 8462 | 8174 | 7886 | 7598 | 7316 | 7022 | 6734 | 6446 | 6150 | 5876 | 5582 | | 63 | 47 | 3704 |
| 57 | 48 | | 0426 | 0138 | 9851 | 9563 | 9275 | 8987 | 8700 | 8412 | 8124 | 7836 | 7548 | 7260 | 6971 | 6683 | 6395 | 6167 | 5810 | | 40 | 40 | 3463 |
| 52 | 42 | | 9665 | 0377 | 0089 | 9801 | 9514 | 9226 | 8938 | 8650 | 8361 | 8073 | 7765 | 7497 | 7262 | 6926 | 6632 | 6344 | 6056 | | 44 | 49 | 3221 |
| 40 | 50 | 7 (6) | 0963 | 0616 | 0328 | 0046 | 9752 | 9464 | 9176 | 8887 | 8599 | 8311 | 8023 | 7734 | 7446 | 7157 | 6869 | 6581 | 6292 | | 40 | 50 | 4 2979 |
| 43 | 51 | | 1142 | 0854 | 0566 | 0278 | 9990 | 9702 | 9413 | 9125 | 8837 | 8549 | 8260 | 7972 | 7683 | 7394 | 7106 | 6817 | 6629 | | 36 | 51 | 2738 |
| 30 | 52 | | 1381 | 1693 | 0804 | 0516 | 0228 | 9940 | 9631 | 9363 | 9074 | 8786 | 8498 | 8209 | 7920 | 7631 | 7343 | 7954 | 6765 | | 32 | 52 | 2496 |
| 33 | 53 | | 1619 | 1331 | 1043 | 0754 | 0166 | 0178 | 9889 | 9601 | 9312 | 9023 | 8735 | 8446 | 8157 | 7868 | 7580 | 7291 | 7002 | | 28 | 63 | 2255 |
| 22 | 54 | | 1858 | 1569 | 1281 | 0992 | 0704 | 0415 | 0127 | 9838 | 9550 | 9261 | 8972 | 8683 | 8394 | 8105 | 7816 | 7528 | 7230 | | 24 | 54 | 2013 |
| 24 | 65 | 7 (6) | 2096 | 1808 | 1519 | 1231 | 0942 | 0653 | 0365 | 0076 | 9787 | 9498 | 9209 | 8920 | 8631 | 8341 | 8053 | 7764 | 7475 | | 20 | 56 | 4 1772 |
| 19 | 56 | | 2334 | 2046 | 1757 | 1469 | 1100 | 6891 | 0602 | 0313 | 0024 | 9735 | 9447 | 9157 | 8868 | 8570 | 8290 | 8601 | 7712 | | 16 | 56 | 1531 |
| 14 | 57 | | 2573 | 2284 | 1995 | 1707 | 1410 | 1129 | 0840 | 0551 | 0262 | 9972 | 9684 | 9394 | 9105 | 8815 | 8527 | 8237 | 7948 | | 12 | 57 | 1290 |
| 10 | 58 | | 2811 | 2522 | 2233 | 1944 | 1655 | 1366 | 1077 | 0788 | 0499 | 0210 | 9921 | 9631 | 9342 | 9052 | 8763 | 8474 | 8184 | | 8 | 58 | 1048 |
| 5 | 59 | | 3049 | 2760 | 2471 | 2182 | 1893 | 1604 | 1315 | 1026 | 0736 | 0447 | 0158 | 9868 | 9579 | 9289 | 9000 | 8710 | 8420 | | 4 | 59 | 9807 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

**Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 124° | | Argumento Auxiliar. 17′ | 18′ | 12′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 22′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 124° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 287 | 6′ | 5 (4) | 4114 | 3831 | 3549 | 3266 | 2983 | 2760 | 2418 | 2135 | 1852 | 1569 | 1286 | 1003 | 0726 | 6430 | 6153 | 9870 | 9507 | 6 | 0′ | 5 9193 |
| 282 | 1 | | 4353 | 4070 | 3787 | 3585 | 3222 | 2232 | 2656 | 2373 | 2090 | 1007 | 1523 | 1241 | 0957 | 0674 | 6390 | 0107 | 9824 | 4 | 1 | 9434 |
| 277 | 2 | 6 | 4592 | 4309 | 4026 | 3743 | 3450 | 3177 | 2824 | 2511 | 2328 | 2844 | 1761 | 1478 | 1124 | 0911 | 0027 | 0344 | 0051 | 8 | 2 | 9575 |
| 273 | 3 | | 4831 | 4548 | 4265 | 3982 | 3628 | 3415 | 3132 | 2849 | 2666 | 2282 | 1222 | 1715 | 1432 | 1140 | 0805 | 0501 | 6297 | 12 | 3 | 2916 |
| 268 | 4 | | 5052 | 4786 | 4503 | 4220 | 3237 | 3654 | 3370 | 3687 | 2603 | 2520 | 2230 | 1953 | 1669 | 1306 | 1102 | 6818 | 0534 | 16 | 4 | 6 0157 |
| 203 | 5 | 5 | 5308 | 5025 | 4742 | 4458 | 4175 | 3892 | 3608 | 3325 | 3041 | 2758 | 2474 | 2190 | 1207 | 1523 | 1329 | 1055 | 0771 | 26 | 5 | 6 0398 |
| 250 | 6 | | 5547 | 5264 | 4980 | 4627 | 4413 | 4136 | 3646 | 3563 | 3279 | 2995 | 2711 | 2428 | 2144 | 1866 | 1576 | 1292 | 1008 | 24 | 6 | 0529 |
| 254 | 7 | | 5786 | 5502 | 5219 | 4235 | 4651 | 4368 | 4684 | 3000 | 3517 | 3232 | 2242 | 2565 | 2301 | 2097 | 1813 | 1529 | 1245 | 28 | 7 | 6880 |
| 249 | 6 | | 6624 | 5741 | 5457 | 5173 | 4890 | 4600 | 4322 | 4638 | 3754 | 3470 | 3186 | 2962 | 2518 | 2334 | 2056 | 1756 | 1401 | 32 | 8 | 1121 |
| 244 | 9 | | 6263 | 5279 | 5525 | 5411 | 5128 | 4844 | 4560 | 4275 | 3992 | 3708 | 3424 | 3139 | 2855 | 2571 | 2287 | 2602 | 1718 | 36 | 9 | 1351 |
| 232 | 10 | 6 | 6501 | 5217 | 5933 | 5050 | 5366 | 5082 | 4728 | 4514 | 4222 | 3945 | 3661 | 3377 | 3092 | 2800 | 2523 | 2239 | 1254 | 46 | 10 | 0 1602 |
| 234 | 11 | | 6740 | 6456 | 6172 | 5808 | 5604 | 5320 | 5035 | 4751 | 4407 | 4183 | 3898 | 3614 | 3329 | 3045 | 2760 | 2476 | 2191 | 44 | 11 | 1843 |
| 230 | 12 | | 6978 | 5524 | 5410 | 5125 | 5842 | 5557 | 5273 | 4902 | 4764 | 4420 | 4135 | 3851 | 3566 | 3282 | 2227 | 2712 | 2427 | 40 | 12 | 2083 |
| 225 | 13 | | 7217 | 6232 | 6648 | 5364 | 5006 | 5795 | 5511 | 6226 | 4942 | 4657 | 4273 | 4088 | 3002 | 3518 | 3234 | 2949 | 2664 | 52 | 13 | 2324 |
| 220 | 14 | | 7455 | 7171 | 6886 | 6662 | 0317 | 6033 | 5748 | 5454 | 5179 | 4824 | 4510 | 4325 | 4046 | 3755 | 3470 | 3185 | 2206 | 56 | 14 | 2564 |
| 215 | 15 | 5 | 7623 | 7469 | 7124 | 5840 | 5555 | 6271 | 5986 | 5701 | 5416 | 5132 | 4847 | 4562 | 4277 | 3292 | 3707 | 3422 | 3137 | 60 | 15 | 6 2805 |
| 211 | 16 | | 7231 | 7647 | 7352 | 7078 | 6793 | 6508 | 6223 | 5239 | 5654 | 5369 | 5084 | 4799 | 4514 | 4228 | 3243 | 3558 | 2373 | 54 | 16 | 3045 |
| 266 | 17 | | 0170 | 7885 | 7600 | 7315 | 7031 | 0740 | 6461 | 5176 | 5821 | 5666 | 5321 | 5036 | 4750 | 4455 | 4186 | 3094 | 3009 | 60 | 17 | 3286 |
| 261 | 18 | | 8400 | 8123 | 7838 | 7553 | 7268 | 5983 | 6690 | 5413 | 6128 | 5643 | 5558 | 5272 | 4987 | 4702 | 4416 | 4131 | 3845 | 72 | 10 | 3525 |
| 196 | 19 | | 0046 | 8361 | 8075 | 7791 | 7506 | 7221 | 6920 | 6650 | 6365 | 6680 | 6725 | 5562 | 5224 | 4238 | 4653 | 4367 | 4001 | 76 | 12 | 3760 |
| 191 | 26 | 5 | 8884 | 8599 | 8314 | 0622 | 7743 | 7458 | 7173 | 6880 | 5602 | 6317 | 5031 | 5745 | 5460 | 5175 | 4889 | 4603 | 4218 | 00 | 20 | 6 4067 |
| 187 | 21 | | 9122 | 8837 | 8552 | 8265 | 7281 | 7696 | 7410 | 7125 | 0832 | 6554 | 6268 | 5283 | 5697 | 5411 | 5125 | 4839 | 4554 | 84 | 21 | 4247 |
| 182 | 22 | | 9260 | 9075 | 8789 | 8504 | 0216 | 7923 | 7647 | 7362 | 7675 | 5791 | 6505 | 6212 | 5933 | 5547 | 5362 | 5070 | 4790 | 68 | 22 | 4487 |
| 177 | 23 | | 9528 | 2312 | 9027 | 0741 | 8456 | 8176 | 7805 | 7599 | 7313 | 7027 | 6742 | 6456 | 6170 | 5884 | 5598 | 5312 | 5020 | 92 | 23 | 4727 |
| 172 | 24 | | 9836 | 9550 | 9264 | 8979 | 8093 | 8408 | 8122 | 7036 | 7550 | 7264 | 6970 | 6592 | 6406 | 6120 | 5834 | 5548 | 5201 | 96 | 24 | 4957 |
| 167 | 25 | 6 (5) | 0073 | 9788 | 2502 | 2215 | 8921 | 8645 | 8359 | 8073 | 7787 | 7561 | 7215 | 0922 | 0643 | 6356 | 6070 | 5784 | 5497 | 100 | 25 | 6 5207 |
| 163 | 26 | | 0311 | 6025 | 9740 | 2454 | 2158 | 8882 | 8526 | 8310 | 0024 | 7738 | 7451 | 7165 | 6072 | 6593 | 6206 | 5620 | 5723 | 184 | 26 | 5447 |
| 158 | 27 | | 0549 | 0253 | 9977 | 2621 | 9405 | 9119 | 8833 | 8547 | 8260 | 7974 | 7608 | 7481 | 7115 | 6822 | 6542 | 6256 | 5969 | 168 | 27 | 5607 |
| 153 | 26 | | 0707 | 0501 | 0215 | 2928 | 9642 | 2350 | 9070 | 8784 | 8427 | 0211 | 7924 | 7630 | 7351 | 7065 | 6778 | 6421 | 6205 | 112 | 28 | 5927 |
| 148 | 29 | | 1024 | 0738 | 0452 | 0165 | 9079 | 9593 | 9307 | 9020 | 8734 | 8447 | 8101 | 7074 | 7587 | 7301 | 7014 | 6727 | 6440 | 116 | 29 | 6100 |
| 144 | 30 | 6 (5) | 1262 | 6276 | 0689 | 0403 | 0116 | 9836 | 9544 | 9257 | 8970 | 8684 | 8327 | 8110 | 7824 | 7537 | 7250 | 5953 | 5676 | 120 | 36 | 6 6406 |
| 132 | 31 | | 1422 | 1213 | 0927 | 0540 | 0354 | 0067 | 9700 | 9494 | 9207 | 8220 | 8633 | 8347 | 8060 | 7773 | 7485 | 7192 | 6912 | 124 | 31 | 6646 |
| 134 | 32 | | 1737 | 1456 | 1164 | 0877 | 0591 | 0304 | 0017 | 9730 | 9443 | 9157 | 8876 | 8583 | 8296 | 8009 | 7722 | 7434 | 7147 | 128 | 32 | 6886 |
| 122 | 33 | | 1974 | 1508 | 1401 | 1114 | 0827 | 0541 | 0254 | 9267 | 9680 | 9393 | 9106 | 8819 | 8532 | 8245 | 7257 | 7670 | 7283 | 132 | 33 | 7125 |
| 124 | 34 | | 2212 | 1225 | 1638 | 1351 | 1064 | 0777 | 0496 | 0203 | 9216 | 9629 | 9342 | 9055 | 8760 | 8480 | 8193 | 7906 | 7018 | 136 | 34 | 7365 |
| 220 | 35 | 0 (5) | 2442 | 2152 | 1875 | 1588 | 1361 | 1014 | 0727 | 0440 | 0153 | 9865 | 9578 | 9291 | 9004 | 8716 | 8429 | 8141 | 7853 | 146 | 35 | 6 7604 |
| 215 | 36 | | 2686 | 2399 | 2112 | 1025 | 1530 | 1251 | 0964 | 0076 | 6389 | 0162 | 9814 | 9527 | 9239 | 0952 | 0604 | 8377 | 8689 | 144 | 36 | 7844 |
| 110 | 37 | | 2223 | 2636 | 2349 | 2062 | 1775 | 1488 | 1200 | 0213 | 6625 | 0338 | 0050 | 9753 | 9475 | 9187 | 8900 | 8612 | 8324 | 148 | 37 | 6683 |
| 105 | 38 | | 3161 | 2073 | 2586 | 2299 | 2012 | 1724 | 1437 | 1149 | 0862 | 0574 | 0285 | 9299 | 9711 | 9423 | 9135 | 8847 | 8559 | 152 | 36 | 8323 |
| 101 | 32 | | 3390 | 3110 | 2823 | 2536 | 2240 | 1901 | 1673 | 1485 | 1090 | 6816 | 0522 | 0234 | 9247 | 9659 | 9371 | 9083 | 8725 | 156 | 32 | 8552 |
| 96 | 46 | 6 (5) | 3035 | 3247 | 3060 | 2772 | 2485 | 2127 | 1969 | 1622 | 1334 | 1045 | 0750 | 0470 | 0102 | 9894 | 9600 | 9318 | 9030 | 160 | 40 | 6 8001 |
| 21 | 41 | | 3872 | 3504 | 3297 | 3009 | 2721 | 2434 | 2146 | 1058 | 1576 | 1282 | 0994 | 0700 | 0418 | 0136 | 9041 | 2553 | 9265 | 164 | 41 | 9040 |
| 06 | 42 | | 4102 | 3821 | 3534 | 3245 | 2958 | 2670 | 2302 | 2094 | 1805 | 1518 | 1230 | 6942 | 0553 | 0365 | 0077 | 9788 | 9500 | 160 | 42 | 9280 |
| 61 | 43 | | 4346 | 4058 | 3770 | 3482 | 3194 | 2965 | 2518 | 2336 | 2042 | 1754 | 1455 | 1177 | 0889 | 0606 | 0312 | 0024 | 2735 | 172 | 43 | 2519 |
| 77 | 44 | | 4583 | 4295 | 4607 | 3712 | 3431 | 3143 | 2854 | 2566 | 2270 | 1990 | 1701 | 1413 | 1124 | 0836 | 0547 | 0259 | 9970 | 176 | 44 | 9758 |
| 72 | 45 | 6 | 4820 | 4532 | 4244 | 3955 | 3567 | 3379 | 3091 | 2802 | 2514 | 2225 | 1937 | 1648 | 1360 | 1071 | 6782 | 6424 | 0205 | 186 | 46 | 6 9227 |
| 67 | 46 | | 5057 | 4758 | 4480 | 4192 | 3904 | 3615 | 3327 | 3030 | 2750 | 2461 | 2172 | 1804 | 1595 | 1306 | 1018 | 6729 | 0446 | 184 | 46 | 7 0236 |
| 62 | 47 | | 5293 | 5005 | 4717 | 4428 | 4140 | 3851 | 3553 | 3274 | 2285 | 2697 | 2408 | 2112 | 1830 | 1542 | 1253 | 0264 | 0675 | 108 | 47 | 6475 |
| 57 | 40 | | 5530 | 5242 | 4953 | 4665 | 4376 | 4087 | 3799 | 3516 | 3221 | 2932 | 2544 | 2355 | 2056 | 1777 | 1488 | 1198 | 0969 | 192 | 46 | 0714 |
| 03 | 42 | | 5767 | 5470 | 5190 | 4981 | 4012 | 4323 | 4035 | 3746 | 3457 | 3166 | 2879 | 2596 | 2301 | 2012 | 1723 | 1433 | 1144 | 196 | 49 | 0952 |
| 48 | 50 | 6 | 6003 | 5715 | 5426 | 5137 | 4848 | 4559 | 4271 | 3282 | 3593 | 3463 | 3114 | 2825 | 2536 | 2247 | 1957 | 1668 | 1379 | 260 | 50 | 7 1121 |
| 43 | 51 | | 0240 | 5251 | 5662 | 5373 | 5084 | 4795 | 4566 | 4217 | 3920 | 3632 | 3350 | 3061 | 2771 | 2482 | 2192 | 1903 | 1613 | 204 | 51 | 1430 |
| 38 | 52 | | 6476 | 6187 | 5899 | 5610 | 5320 | 5031 | 4742 | 4453 | 4164 | 3074 | 3505 | 3226 | 3606 | 2717 | 2427 | 2138 | 1848 | 208 | 62 | 1669 |
| 34 | 63 | | 6713 | 6424 | 6135 | 5846 | 5556 | 5267 | 4278 | 4689 | 4399 | 4116 | 3020 | 3531 | 3241 | 2952 | 2562 | 2372 | 2083 | 212 | 63 | 1207 |
| 29 | 54 | | 6249 | 6660 | 6371 | 6062 | 5792 | 5503 | 5214 | 4224 | 4635 | 4345 | 4656 | 3765 | 3475 | 3186 | 2897 | 2607 | 2317 | 216 | 64 | 2146 |
| 24 | 55 | 6 | 7186 | 5890 | 6607 | 5318 | 5028 | 5739 | 5442 | 5160 | 4870 | 4586 | 4291 | 4061 | 3711 | 3421 | 3131 | 2842 | 2551 | 220 | 55 | 7 2384 |
| 19 | 56 | | 7422 | 7133 | 6843 | 6554 | 6264 | 5275 | 5685 | 5395 | 5165 | 4816 | 4526 | 4235 | 3246 | 3656 | 3360 | 3076 | 2780 | 224 | 56 | 2623 |
| 14 | 57 | | 7658 | 7362 | 7072 | 6790 | 6500 | 6210 | 5226 | 5631 | 5341 | 5051 | 4761 | 4471 | 4181 | 3091 | 3601 | 3311 | 3620 | 220 | 67 | 2861 |
| 10 | 58 | | 7895 | 7505 | 7315 | 7626 | 6736 | 6446 | 6155 | 5805 | 5575 | 5286 | 4926 | 4706 | 4416 | 4125 | 3835 | 3545 | 3255 | 231 | 50 | 3100 |
| 5 | 59 | | 0131 | 7841 | 7551 | 7251 | 6971 | 6681 | 6391 | 6101 | 5811 | 5521 | 5231 | 4241 | 4650 | 4366 | 4076 | 3779 | 3489 | 235 | 59 | 3338 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Num. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 125° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 125° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 993 | 0' | 7 (6) | 3287 | 9998 | 9709 | 2420 | 9131 | 1649 | 1552 | 1963 | 0974 | 0684 | 0395 | 0105 | 2816 | 9596 | 2936 | 0947 | 6657 | 939 | 6' | 4 0566 |
| 988 | 1 | | 3526 | 3236 | 2947 | 2658 | 2369 | 2079 | 1790 | 1500 | 1211 | 0921 | 0632 | 0342 | 0052 | 9762 | 9473 | 9183 | 8893 | 935 | 1 | 6395 |
| 283 | 9 | | 3764 | 3474 | 3185 | 2896 | 2606 | 2317 | 2027 | 1730 | 1448 | 1158 | 0869 | 0579 | 0282 | 9999 | 9709 | 9419 | 9129 | 931 | 9 | 0084 |
| 978 | 3 | | 4009 | 3719 | 3493 | 3133 | 2844 | 2554 | 2265 | 1975 | 1685 | 1395 | 1105 | 0815 | 0595 | 0235 | 9945 | 9655 | 9355 | 998 | 3 | 3 9843 |
| 974 | 4 | | 4240 | 3950 | 3661 | 3371 | 3081 | 2792 | 2502 | 9212 | 1922 | 1632 | 1342 | 1052 | 0762 | 0472 | 0189 | 9029 | 9601 | 924 | 4 | 9602 |
| 969 | 6 | 7 (6) | 4478 | 4188 | 3808 | 3609 | 3319 | 3029 | 2739 | 2442 | 2159 | 1869 | 1679 | 1989 | 0999 | 0708 | 0418 | 0128 | 9837 | 290 | 6 | 3 9361 |
| 964 | 6 | 7 | 4716 | 4426 | 4136 | 3845 | 3556 | 3966 | 2976 | 2686 | 9396 | 2106 | 1815 | 1525 | 1935 | 0945 | 0654 | 6364 | 0673 | 915 | 6 | 9190 |
| 959 | 7 | | 4953 | 4684 | 4374 | 4084 | 3794 | 3503 | 3913 | 2923 | 2533 | 2343 | 2052 | 1762 | 1471 | 1181 | 0890 | 0600 | 0309 | 912 | 7 | 6872 |
| 954 | 8 | | 6191 | 4901 | 4611 | 4321 | 4031 | 3741 | 3450 | 3160 | 2870 | 2579 | 2289 | 1998 | 1708 | 1417 | 1127 | 0836 | 0545 | 908 | 8 | 8632 |
| 949 | 9 | | 5429 | 5139 | 4849 | 4558 | 4268 | 3978 | 3687 | 3397 | 3106 | 2816 | 2525 | 2935 | 1944 | 1653 | 1363 | 1079 | 6781 | 904 | 9 | 8398 |
| 944 | 10 | 7 | 5667 | 5375 | 5086 | 4796 | 4565 | 4915 | 3994 | 3634 | 3343 | 3053 | 2762 | 2471 | 2180 | 1890 | 1592 | 1300 | 1017 | 900 | 10 | 3 6157 |
| 939 | 11 | | 6204 | 5514 | 5324 | 5033 | 4743 | 4452 | 4161 | 3871 | 3580 | 3289 | 2928 | 2707 | 2417 | 2195 | 1835 | 1544 | 1252 | 195 | 11 | 7917 |
| 934 | 19 | | 6142 | 5851 | 5561 | 5970 | 4980 | 4689 | 4398 | 4107 | 3817 | 3526 | 3235 | 2944 | 2653 | 2362 | 2071 | 1779 | 1488 | 192 | 19 | 7676 |
| 230 | 13 | | 6379 | 6089 | 5798 | 5507 | 6217 | 4926 | 4635 | 4344 | 4053 | 3762 | 3471 | 3180 | 2889 | 2598 | 2305 | 2015 | 1724 | 168 | 13 | 7436 |
| 225 | 14 | | 6617 | 6396 | 6035 | 5745 | 5454 | 5163 | 4872 | 4581 | 4290 | 3999 | 3707 | 3416 | 3125 | 2834 | 9542 | 2951 | 1959 | 184 | 14 | 7195 |
| 920 | 15 | 7 | 6854 | 6564 | 6273 | 5982 | 5691 | 5400 | 5109 | 4817 | 4526 | 4235 | 3944 | 3659 | 3361 | 3069 | 2770 | 2485 | 9195 | 180 | 15 | 3 6955 |
| 916 | 16 | | 7092 | 6801 | 6510 | 6219 | 5998 | 5636 | 6345 | 5054 | 4763 | 4471 | 4180 | 3888 | 3597 | 3305 | 3014 | 2722 | 2430 | 176 | 16 | 6714 |
| 210 | 17 | | 7329 | 7038 | 6747 | 6456 | 6164 | 6873 | 6609 | 5990 | 4999 | 4708 | 4416 | 4124 | 3833 | 3541 | 3249 | 2968 | 2666 | 172 | 17 | 6474 |
| 205 | 16 | | 7567 | 7275 | 6984 | 6693 | 6401 | 6110 | 6818 | 5597 | 5235 | 4944 | 4652 | 4366 | 4062 | 3777 | 3465 | 3193 | 2901 | 168 | 18 | 6234 |
| 200 | 19 | | 7804 | 7519 | 7221 | 6930 | 6638 | 6347 | 6055 | 5763 | 5472 | 5180 | 4888 | 4596 | 4305 | 4613 | 3721 | 3429 | 3137 | 164 | 19 | 6993 |
| 195 | 20 | 7 | 6041 | 7749 | 7458 | 7156 | 6876 | 6583 | 5292 | 6000 | 5708 | 5416 | 5124 | 4832 | 4540 | 4948 | 3956 | 3664 | 3372 | 166 | 90 | 3 6753 |
| 191 | 21 | | 6978 | 7986 | 7695 | 7403 | 7111 | 6820 | 6528 | 6236 | 5944 | 5652 | 5360 | 5068 | 4776 | 4484 | 4199 | 3892 | 3607 | 156 | 91 | 6613 |
| 186 | 29 | | 8515 | 8223 | 7932 | 7640 | 7348 | 7056 | 6764 | 6472 | 6180 | 5888 | 5596 | 5304 | 5012 | 4719 | 4427 | 4135 | 3842 | 152 | 99 | 6273 |
| 181 | 93 | | 6752 | 8460 | 6162 | 7877 | 7586 | 7293 | 7001 | 6709 | 6416 | 6124 | 5832 | 5540 | 5247 | 4955 | 4663 | 4370 | 4077 | 148 | 93 | 6033 |
| 176 | 24 | | 8989 | 8697 | 8406 | 6113 | 7891 | 7529 | 7237 | 6945 | 6653 | 6360 | 6058 | 5775 | 6483 | 5190 | 4098 | 4605 | 4313 | 144 | 94 | 4793 |
| 171 | 95 | 7 | 9296 | 8934 | 8642 | 8350 | 8058 | 7766 | 7473 | 7181 | 6889 | 6595 | 6304 | 6011 | 5718 | 5426 | 6133 | 4840 | 4548 | 140 | 95 | 3 4553 |
| 166 | 26 | | 9463 | 9171 | 8879 | 8587 | 8994 | 8009 | 7709 | 7417 | 7194 | 6832 | 6540 | 6247 | 5254 | 5661 | 5368 | 5076 | 4703 | 136 | 96 | 4313 |
| 161 | 27 | | 9700 | 9408 | 9116 | 8823 | 8531 | 8238 | 7946 | 7653 | 7360 | 7058 | 6775 | 6489 | 5189 | 5896 | 5604 | 5311 | 5018 | 132 | 97 | 4073 |
| 156 | 26 | | 2937 | 9645 | 9362 | 9060 | 8767 | 8474 | 8182 | 7889 | 7596 | 7303 | 7011 | 6718 | 6425 | 6132 | 5839 | 5546 | 5253 | 128 | 28 | 3834 |
| 151 | 29 | 6 (7) | 0174 | 9881 | 9589 | 9296 | 9003 | 8710 | 8418 | 8195 | 7832 | 7539 | 7246 | 6953 | 6660 | 6367 | 6074 | 5781 | 5407 | 124 | 92 | 3594 |
| 147 | 30 | 6 (7) | 0410 | 0118 | 9825 | 0532 | 9939 | 8947 | 8554 | 8361 | 8068 | 7775 | 7489 | 7189 | 6895 | 6602 | 6309 | 6016 | 6722 | 190 | 30 | 3 3354 |
| 142 | 31 | | 0647 | 0354 | 0061 | 9769 | 9476 | 9183 | 8890 | 8597 | 8304 | 8010 | 7717 | 7424 | 7131 | 6837 | 6544 | 6250 | 5957 | 116 | 31 | 3114 |
| 137 | 39 | | 6884 | 0591 | 0298 | 0005 | 9719 | 9419 | 9126 | 8832 | 8539 | 8246 | 7953 | 7659 | 7366 | 7072 | 6779 | 6485 | 6192 | 112 | 32 | 9875 |
| 132 | 33 | | 1190 | 0827 | 0534 | 0241 | 9948 | 9655 | 9362 | 9068 | 8775 | 8481 | 8188 | 7894 | 7601 | 7307 | 7014 | 6720 | 6496 | 160 | 33 | 9635 |
| 197 | 34 | | 1357 | 1064 | 0771 | 0477 | 0184 | 9891 | 9597 | 9304 | 9010 | 8717 | 8423 | 8130 | 7836 | 7542 | 7249 | 6956 | 6661 | 164 | 34 | 9396 |
| 192 | 35 | 6 (7) | 1393 | 1300 | 1007 | 0713 | 0420 | 0127 | 9833 | 9539 | 9246 | 8952 | 8659 | 8363 | 8071 | 7777 | 7483 | 7189 | 6895 | 160 | 35 | 3 9156 |
| 117 | 36 | | 1830 | 1536 | 1943 | 0942 | 0656 | 0362 | 0069 | 9775 | 9401 | 9188 | 8894 | 8600 | 8305 | 6019 | 7710 | 7424 | 7130 | 96 | 36 | 1917 |
| 119 | 37 | | 9066 | 1773 | 1479 | 1185 | 0892 | 0598 | 0304 | 0011 | 9717 | 9423 | 9129 | 8835 | 8541 | 8247 | 7953 | 7659 | 7364 | 92 | 37 | 1677 |
| 107 | 36 | | 9302 | 2009 | 1715 | 1421 | 1198 | 0834 | 0540 | 0246 | 9959 | 9658 | 9364 | 9070 | 8776 | 8489 | 6187 | 7893 | 7599 | 88 | 38 | 1438 |
| 103 | 39 | | 9539 | 2245 | 1951 | 1657 | 1363 | 1070 | 0776 | 0482 | 0188 | 9893 | 9599 | 9305 | 9011 | 6716 | 8429 | 8126 | 7833 | 64 | 39 | 1199 |
| 98 | 40 | 6 (7) | 9775 | 2481 | 9187 | 1893 | 1599 | 1305 | 1011 | 0717 | 0423 | 0129 | 9634 | 9640 | 9246 | 8951 | 8657 | 8362 | 8067 | 80 | 40 | 3 0960 |
| 93 | 41 | | 3011 | 2717 | 9493 | 2129 | 1835 | 1541 | 1947 | 0952 | 0658 | 0364 | 0069 | 9775 | 2480 | 9186 | 8891 | 8596 | 8302 | 76 | 41 | 0720 |
| 08 | 42 | | 3247 | 9963 | 2650 | 2365 | 2071 | 1776 | 1489 | 1188 | 0893 | 0599 | 0304 | 0010 | 9715 | 9420 | 9126 | 8831 | 8336 | 79 | 49 | 0481 |
| 83 | 43 | | 3483 | 3189 | 9895 | 2601 | 9306 | 2019 | 1717 | 1423 | 1128 | 0834 | 0539 | 0944 | 9960 | 0655 | 9360 | 9065 | 8770 | 68 | 43 | 0242 |
| 78 | 44 | | 3719 | 3425 | 3131 | 9836 | 9549 | 9247 | 1953 | 1658 | 1363 | 1069 | 0774 | 0479 | 0184 | 9889 | 2594 | 9999 | 9004 | 64 | 44 | 0003 |
| 73 | 45 | 6 (7) | 3955 | 3661 | 3366 | 3072 | 2777 | 2483 | 9188 | 1823 | 1598 | 1304 | 1009 | 0714 | 0410 | 0124 | 2829 | 9534 | 9938 | 60 | 45 | 9 9764 |
| 68 | 46 | | 4191 | 3897 | 3602 | 3307 | 3613 | 2718 | 9423 | 2128 | 1833 | 1538 | 1943 | 0948 | 0653 | 0358 | 0063 | 9758 | 9472 | 65 | 46 | 9525 |
| 64 | 47 | | 4427 | 4139 | 3830 | 3543 | 3248 | 9963 | 9558 | 2363 | 2068 | 1773 | 1478 | 1183 | 0868 | 0599 | 0997 | 0009 | 9706 | 62 | 47 | 9986 |
| 69 | 48 | | 4563 | 4368 | 4073 | 3778 | 3484 | 3168 | 9893 | 2598 | 2303 | 2008 | 1713 | 1418 | 1192 | 0897 | 0531 | 6236 | 9940 | 48 | 40 | 9046 |
| 54 | 49 | 8 | 4899 | 4604 | 4309 | 4014 | 3719 | 3494 | 3198 | 2833 | 2638 | 2243 | 1947 | 1652 | 1357 | 1061 | 0765 | 0476 | 0174 | 44 | 49 | 6802 |
| 42 | 50 | 6 | 5134 | 4840 | 4544 | 4949 | 3954 | 3659 | 3363 | 3068 | 9773 | 2477 | 2182 | 1886 | 1591 | 1295 | 1000 | 0704 | 0408 | 40 | 50 | 9 8570 |
| 44 | 51 | | 5376 | 6076 | 4780 | 4485 | 4189 | 3894 | 3598 | 3303 | 3008 | 2712 | 9416 | 2121 | 1895 | 1622 | 1234 | 0936 | 0642 | 36 | 61 | 8331 |
| 39 | 59 | | 5506 | 5311 | 5015 | 4720 | 4424 | 4129 | 3833 | 3538 | 3249 | 2247 | 9651 | 9355 | 9059 | 1763 | 1460 | 1179 | 0876 | 32 | 62 | 8093 |
| 34 | 63 | | 6841 | 6545 | 6251 | 4955 | 4660 | 4364 | 4068 | 3773 | 3477 | 3181 | 9685 | 9589 | 9923 | 1997 | 1709 | 1406 | 1109 | 98 | 53 | 7854 |
| 29 | 54 | | 6077 | 6781 | 6486 | 6190 | 4895 | 4599 | 4303 | 4007 | 3711 | 3416 | 3190 | 2824 | 2528 | 9231 | 1936 | 1639 | 1343 | 94 | 54 | 7616 |
| 94 | 56 | 8 | 6319 | 6017 | 5791 | 5425 | 5130 | 4834 | 4538 | 4242 | 3946 | 3650 | 3354 | 3058 | 2762 | 2465 | 2169 | 1873 | 1577 | 90 | 55 | 9 7377 |
| 90 | 56 | | 6646 | 6259 | 6956 | 5650 | 5365 | 5069 | 4773 | 4477 | 4101 | 3884 | 3588 | 3292 | 9996 | 9692 | 2403 | 2107 | 1610 | 16 | 66 | 7139 |
| 15 | 57 | | 6783 | 6487 | 6191 | 5895 | 5599 | 5303 | 5007 | 4711 | 4415 | 4119 | 3829 | 3596 | 3230 | 9933 | 9537 | 9340 | 9044 | 19 | 67 | 6900 |
| 10 | 68 | | 7012 | 6723 | 6427 | 6130 | 5034 | 5538 | 5242 | 4946 | 4649 | 4363 | 4057 | 3750 | 3463 | 3167 | 2870 | 2574 | 2277 | 8 | 66 | 6662 |
| 6 | 59 | | 7954 | 6956 | 6669 | 5365 | 6069 | 5773 | 6476 | 5160 | 4684 | 4587 | 4291 | 3994 | 3697 | 3401 | 3104 | 2807 | 9510 | 4 | 59 | 6424 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

**Núm. IV** para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 125° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 23' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 125° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 264 | 8' | 8 6307 | 8077 | 7767 | 7497 | 7207 | 6217 | 6627 | 6337 | 6046 | 3756 | 5466 | 5176 | 4865 | 4590 | 4384 | 4014 | 3723 | 0 | 8' | 7 3376 |
| 282 | 1 | 8883 | 8313 | 8023 | 7733 | 7443 | 7153 | 6862 | 6572 | 8282 | 5291 | 5701 | 5416 | 5120 | 4629 | 4539 | 4248 | 3957 | 4 | 1 | 3613 |
| 284 | 2 | 6839 | 8549 | 8256 | 7969 | 7878 | 7388 | 7098 | 6867 | 6517 | 8226 | 5636 | 5645 | 5354 | 5864 | 4773 | 4482 | 4191 | 6 | 2 | 4003 |
| 272 | 3 | 2075 | 8785 | 8494 | 6264 | 7214 | 7623 | 7333 | 7042 | 6752 | 6461 | 6176 | 5880 | 5589 | 5298 | 5007 | 4716 | 4425 | 12 | 3 | 4291 |
| 274 | 4 | 9311 | 9021 | 8730 | 8440 | 8149 | 7659 | 7568 | 7277 | 8987 | 0696 | 6485 | 8114 | 5823 | 5532 | 5242 | 4951 | 4659 | 16 | 4 | 4329 |
| 270 | 3 | 6 9547 | 2256 | 8906 | 8676 | 6385 | 8094 | 7803 | 7512 | 7222 | 6931 | 6640 | 8349 | 6058 | 5767 | 5476 | 5185 | 4693 | 20 | 6 | 7 4707 |
| 265 | 6 | 6783 | 9492 | 9201 | 8911 | 8628 | 8329 | 8036 | 7747 | 7457 | 7160 | 8875 | 6583 | 8292 | 8861 | 5710 | 5419 | 5127 | 24 | 6 | 3005 |
| 260 | 7 | 7 (6) 0018 | 2728 | 9437 | 6140 | 8855 | 8564 | 8273 | 7982 | 7661 | 7400 | 7109 | 8818 | 6527 | 6235 | 5244 | 5603 | 5361 | 28 | 7 | 6243 |
| 255 | 6 | 6254 | 6963 | 9673 | 9382 | 6061 | 8800 | 8508 | 6217 | 7926 | 7635 | 7343 | 7052 | 8761 | 6478 | 6178 | 5887 | 5095 | 32 | 6 | 5401 |
| 250 | 6 | 6460 | 6192 | 9908 | 9617 | 6326 | 6035 | 0743 | 8452 | 8161 | 7070 | 7578 | 7287 | 8995 | 6704 | 6412 | 6121 | 5829 | 35 | 9 | 3712 |
| 245 | 10 | 7 (6) 0728 | 0435 | 0143 | 9852 | 6501 | 9270 | 6976 | 8687 | 8396 | 8104 | 7813 | 7521 | 7229 | 6938 | 6646 | 6354 | 6083 | 39 | 18 | 7 5957 |
| ·240 | 11 | 0961 | 0676 | 6372 | 8088 | 2796 | 2565 | 9213 | 8922 | 0630 | 8339 | 6047 | 7755 | 7464 | 7172 | 6888 | 6566 | 6298 | 43 | 11 | 6165 |
| 235 | 12 | 1197 | 0906 | 0814 | 0323 | 0631 | 9740 | 9448 | 6157 | 6865 | 8573 | 8281 | 7920 | 7698 | 7406 | 7114 | 6822 | 6530 | 47 | 12 | 6432 |
| 230 | 13 | 1432 | 1141 | 0849 | 0558 | 0260 | 9975 | 9083 | 9391 | 9899 | 8806 | 6516 | 8224 | 7932 | 7840 | 7348 | 7056 | 6763 | 51 | 13 | 6676 |
| 225 | 14 | 1668 | 1376 | 1085 | 6723 | 0501 | 0210 | 9916 | 9620 | 9334 | 9042 | 8750 | 8458 | 8168 | 7874 | 7561 | 7289 | 8997 | 55 | 14 | 6900 |
| 221 | 10 | 7 (8) 1203 | 1612 | 1320 | 1028 | 0730 | 0444 | 0152 | 9880 | 9568 | 9276 | 8984 | 8622 | 8460 | 8106 | 7815 | 7523 | 7231 | 59 | 15 | 7 7145 |
| 216 | 16 | 2138 | 1847 | 1555 | 1263 | 8971 | 0676 | 0387 | 0093 | 9803 | 9511 | 9218 | 8926 | 8634 | 6341 | 6049 | 7756 | 7464 | 63 | 10 | 7363 |
| 211 | 17 | 2374 | 2082 | 1790 | 1498 | 1206 | 0914 | 6822 | 6329 | 0037 | 9745 | 9452 | 9168 | 8868 | 8575 | 8283 | 7990 | 7097 | 67 | 17 | 7626 |
| 206 | 10 | 2669 | 2317 | 2025 | 1733 | 1441 | 1146 | 8856 | 0564 | 0271 | 9279 | 9687 | 9394 | 2101 | 8802 | 8518 | 8222 | 7931 | 71 | 18 | 7850 |
| 281 | 19 | 2844 | 2552 | 2260 | 1668 | 1676 | 1383 | 1021 | 0798 | 8506 | 0213 | 9921 | 6628 | 6335 | 9642 | 8750 | 8457 | 8164 | 73 | 19 | 6095 |
| 128 | 20 | 7 (6) 3080 | 2787 | 2495 | 2203 | 1910 | 1816 | 1325 | 1033 | 0740 | 0447 | 0155 | 9862 | 2562 | 9270 | 8963 | 8896 | 6397 | 79 | 20 | 7 6332 |
| 191 | 21 | 3315 | 3022 | 2730 | 2437 | 2145 | 1852 | 1560 | 1267 | 0674 | 0681 | 8389 | 0668 | 9803 | 9510 | 9217 | 8924 | 6030 | 63 | 21 | 6570 |
| 186 | 22 | 3550 | 3257 | 2665 | 2872 | 2372 | 2087 | 1794 | 1501 | 1208 | 0915 | 0822 | 0329 | 0038 | 9743 | 9456 | 9157 | 8864 | 67 | 22 | 6807 |
| 161 | 23 | 3765 | 3492 | 3199 | 2907 | 2614 | 2321 | 2028 | 1735 | 1442 | 1146 | 0858 | 0563 | 0276 | 9977 | 9683 | 9390 | 9097 | 91 | 23 | 9044 |
| 170 | 24 | 4020 | 3727 | 3434 | 3141 | 2848 | 2556 | 2282 | 1966 | 1670 | 1363 | 1090 | 0727 | 6583 | 0218 | 9917 | 9623 | 9330 | 95 | 24 | 6281 |
| 172 | 25 | 7 (8) 4208 | 3982 | 3689 | 3370 | 3083 | 2790 | 2497 | 2203 | 1910 | 1617 | 1324 | 1038 | 8737 | 0443 | 0158 | 9650 | 9563 | 99 | 25 | 7 6518 |
| 167 | 26 | 4490 | 4127 | 3904 | 3611 | 3317 | 3024 | 2731 | 2437 | 2144 | 1651 | 1557 | 1284 | 0276 | 8677 | 0383 | 0689 | 9796 | 102 | 26 | 6755 |
| 162 | 27 | 7 4724 | 4431 | 4138 | 3845 | 3552 | 3258 | 2965 | 2871 | 2378 | 2085 | 1791 | 1497 | 1204 | 8910 | 0616 | 0322 | 0829 | 186 | 27 | 9922 |
| 157 | 26 | 4959 | 4666 | 4373 | 4079 | 3786 | 3493 | 3162 | 2905 | 2612 | 2316 | 2025 | 1731 | 1437 | 1143 | 8849 | 8555 | 0262 | 110 | 26 | 6 0229 |
| 152 | 22 | 3194 | 4901 | 4067 | 4314 | 4020 | 3727 | 3433 | 3139 | 2840 | 2552 | 2256 | 1954 | 1670 | 1376 | 1082 | 0788 | 0494 | 114 | 29 | 0468 |
| 147 | 30 | 7 5429 | 5135 | 4842 | 4548 | 4255 | 3961 | 3667 | 3373 | 3079 | 2766 | 2422 | 2198 | 1904 | 1618 | 1315 | 1021 | 0727 | 118 | 30 | 6 0703 |
| 142 | 31 | 5063 | 5370 | 5076 | 4782 | 4489 | 4195 | 3901 | 3607 | 3313 | 3019 | 2725 | 2431 | 2137 | 1843 | 1546 | 1234 | 0988 | 122 | 31 | 0940 |
| 137 | 32 | 5828 | 5604 | 5310 | 5017 | 4723 | 4429 | 4135 | 3841 | 3547 | 3253 | 2959 | 2664 | 2370 | 2078 | 1761 | 1467 | 1192 | 126 | 32 | 1170 |
| 132 | 33 | 6132 | 5839 | 5545 | 5251 | 4957 | 4063 | 4369 | 4075 | 3780 | 3486 | 3162 | 2620 | 2603 | 2309 | 2814 | 1726 | 1425 | 130 | 33 | 1413 |
| 127 | 34 | 6387 | 6073 | 5779 | 5485 | 5191 | 4897 | 4682 | 4308 | 4614 | 3720 | 3425 | 3131 | 2836 | 2542 | 2247 | 1902 | 1658 | 134 | 34 | 1650 |
| 123 | 35 | 7 6601 | 6307 | 6813 | 5712 | 5425 | 5130 | 4836 | 4542 | 4247 | 3953 | 3656 | 3364 | 3869 | 2775 | 2480 | 2185 | 1828 | 136 | 33 | 6 1886 |
| 118 | 36 | 6836 | 8542 | 6247 | 5953 | 5059 | 5364 | 5870 | 4775 | 4481 | 4168 | 3892 | 3597 | 3382 | 3006 | 2713 | 2418 | 2123 | 142 | 36 | 2123 |
| 113 | 37 | 7070 | 8776 | 6461 | 6167 | 5893 | 5598 | 5303 | 5009 | 4714 | 4420 | 4125 | 3830 | 3535 | 3241 | 2943 | 2656 | 2355 | 146 | 37 | 2359 |
| 188 | 36 | 7304 | 7610 | 6715 | 5421 | 6126 | 5632 | 5537 | 5242 | 4248 | 4653 | 4358 | 4063 | 3788 | 3473 | 3176 | 2683 | 2588 | 108 | 36 | 2396 |
| 103 | 36 | 7539 | 7244 | 8242 | 6855 | 6360 | 6665 | 5771 | 5478 | 5181 | 4888 | 4591 | 4296 | 4601 | 3786 | 3410 | 3113 | 2628 | 154 | 39 | 2032 |
| 20 | 40 | 7 7773 | 7478 | 7163 | 6889 | 6594 | 6299 | 8004 | 5709 | 5414 | 5119 | 4824 | 4529 | 4234 | 3238 | 3643 | 3348 | 3052 | 156 | 48 | 8 3009 |
| 63 | 41 | 6007 | 7712 | 7417 | 7122 | 8028 | 6533 | 6238 | 5942 | 5647 | 5352 | 5057 | 4702 | 4466 | 4171 | 3675 | 3560 | 3264 | 162 | 41 | 3305 |
| 68 | 42 | 6241 | 7940 | 7651 | 7356 | 7061 | 6766 | 8471 | 6178 | 5868 | 5585 | 5290 | 4994 | 4669 | 4403 | 4108 | 3812 | 3017 | 166 | 42 | 3541 |
| 63 | 43 | 8475 | 6180 | 7885 | 7590 | 7225 | 6229 | 0704 | 6409 | 6114 | 5816 | 5523 | 5227 | 4932 | 4636 | 4340 | 4043 | 3742 | 169 | 43 | 3777 |
| 78 | 44 | 8709 | 8414 | 8119 | 7824 | 7328 | 7233 | 6938 | 6642 | 6347 | 6051 | 5755 | 5460 | 8164 | 4868 | 4373 | 4277 | 3961 | 173 | 44 | 4014 |
| 74 | 43 | 7 8943 | 8646 | 8353 | 6057 | 7782 | 7468 | 7171 | 6875 | 8580 | 6284 | 5968 | 5692 | 5397 | 5101 | 4805 | 4009 | 4213 | 177 | 43 | 8 4250 |
| 62 | 46 | 9177 | 8882 | 8566 | 8291 | 7995 | 7700 | 7404 | 7108 | 6613 | 6517 | 8221 | 9925 | 6629 | 3333 | 5837 | 4741 | 4445 | 161 | 46 | 4460 |
| 64 | 47 | 6411 | 9115 | 6828 | 8524 | 8229 | 7933 | 7837 | 7341 | 7045 | 6750 | 6454 | 6158 | 5862 | 5565 | 5269 | 4973 | 4877 | 185 | 47 | 4722 |
| 32 | 46 | 2645 | 9349 | 9853 | 6758 | 8462 | 8168 | 7870 | 7574 | 7278 | 6282 | 6686 | 6390 | 6094 | 5798 | 5501 | 5283 | 4209 | 189 | 48 | 4258 |
| 54 | 46 | 2879 | 9583 | 9287 | 8991 | 8690 | 8399 | 8103 | 7807 | 7511 | 7215 | 6919 | 0823 | 0328 | 6830 | 5733 | 5437 | 5141 | 123 | 46 | 5194 |
| 49 | 50 | 6 (7) 0112 | 9816 | 9520 | 9224 | 8928 | 8632 | 8336 | 6040 | 7744 | 7448 | 7151 | 0855 | 6558 | 0262 | 5265 | 5669 | 5372 | 197 | 60 | 6 5429 |
| 44 | 31 | 0346 | 0656 | 9754 | 9458 | 9162 | 8865 | 8562 | 6273 | 7977 | 7680 | 7364 | 7087 | 6721 | 6494 | 6197 | 5901 | 5604 | 201 | 31 | 6665 |
| 39 | 52 | 6579 | 0283 | 9287 | 9691 | 9395 | 9098 | 6802 | 6506 | 8209 | 7913 | 7616 | 7320 | 7023 | 6726 | 6429 | 6133 | 5836 | 263 | 32 | 5901 |
| 34 | 53 | 0813 | 0517 | 0221 | 9924 | 9628 | 2331 | 9635 | 6739 | 8442 | 8145 | 7849 | 7552 | 7235 | 6958 | 6661 | 6364 | 6068 | 209 | 53 | 6137 |
| 29 | 54 | 1647 | 6736 | 0454 | 0157 | 6661 | 6564 | 9266 | 6671 | 8674 | 8378 | 6061 | 7784 | 7487 | 7190 | 6893 | 6596 | 6296 | 213 | 34 | 6372 |
| 25 | 55 | 8 (7) 1280 | 6984 | 8687 | 0390 | 6094 | 9797 | 9501 | 9264 | 6967 | 6616 | 6313 | 8016 | 7716 | 7422 | 7120 | 6826 | 6531 | 217 | 35 | 6 6606 |
| 20 | 56 | 1514 | 1217 | 0920 | 0624 | 0327 | 0030 | 2733 | 9436 | 9132 | 8842 | 6545 | 8246 | 7951 | 7854 | 7357 | 7059 | 6762 | 221 | 36 | 6844 |
| 15 | 57 | 1747 | 1450 | 1153 | 0857 | 0560 | 0263 | 9966 | 9669 | 9372 | 9075 | 6778 | 6480 | 6163 | 7686 | 7568 | 7291 | 6963 | 223 | 37 | 7079 |
| 16 | 36 | 1980 | 1663 | 1386 | 1060 | 6793 | 0496 | 0190 | 9901 | 9664 | 9307 | 9610 | 6712 | 6415 | 6118 | 7620 | 7523 | 7225 | 229 | 58 | 7314 |
| 6 | 59 | 2213 | 1917 | 1619 | 1322 | 1625 | 6728 | 6431 | 0134 | 6637 | 9539 | 9242 | 6944 | 6647 | 8349 | 8652 | 7754 | 7456 | 233 | 36 | 7650 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 126° | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 126° | | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | | | | |
| 300 | 0' | 8 | 7489 | 7103 | 8897 | 6800 | 6304 | 6097 | 5711 | 5415 | 6118 | 4821 | 4525 | 4228 | 3231 | 3634 | 3337 | 3041 | 2744 | 236 | 0' | 2 | 6186 |
| 296 | 1 | | 7724 | 7428 | 7132 | 8835 | 8539 | 8242 | 5946 | 3649 | 6352 | 5055 | 4750 | 4452 | 4165 | 3868 | 3571 | 3274 | 2977 | 233 | 1 | | 5947 |
| 290 | 2 | | 7959 | 7863 | 7388 | 7070 | 6773 | 8477 | 6180 | 5883 | 5585 | 6290 | 4293 | 4606 | 4399 | 4102 | 3805 | 3607 | 3219 | 229 | 2 | | 5709 |
| 283 | 3 | | 8195 | 7898 | 7801 | 7305 | 7008 | 6711 | 6414 | 6117 | 5821 | 6524 | 5227 | 4929 | 4632 | 4335 | 4038 | 3741 | 3443 | 225 | 3 | | 6471 |
| 280 | 4 | | 8430 | 8133 | 7836 | 7539 | 7942 | 8945 | 6649 | 5359 | 8055 | 5758 | 5460 | 5163 | 4868 | 4669 | 4271 | 3974 | 3677 | 221 | 4 | | 5233 |
| 275 | 5 | 9 | 8685 | 8388 | 8071 | 7774 | 7477 | 7180 | 6883 | 6586 | 6989 | 5991 | 5694 | 5395 | 5100 | 4002 | 4505 | 4207 | 3910 | 217 | 5 | 2 | 4925 |
| 270 | 8 | | 8900 | 8603 | 8308 | 8009 | 7711 | 7414 | 7117 | 5890 | 8523 | 8225 | 5920 | 5630 | 6333 | 5035 | 4738 | 4440 | 4143 | 213 | 6 | | 4757 |
| 285 | 7 | | 9134 | 8837 | 8541 | 8243 | 7948 | 7649 | 7351 | 7054 | 6757 | 6459 | 6152 | 5864 | 6586 | 5969 | 4271 | 4673 | 4375 | 209 | 7 | | 4519 |
| 280 | 8 | | 9389 | 9972 | 0776 | 847[illegible] | 5180 | 7883 | 7685 | 7288 | 8990 | 6693 | 6395 | 5098 | 6800 | 5509 | 5204 | 4206 | 4500 | 295 | 8 | | 4281 |
| 265 | 9 | | 9804 | 9307 | 9099 | 8712 | 8416 | 8117 | 7820 | 7522 | 7924 | 6927 | 6822 | 6331 | 6033 | 5735 | 5437 | 6132 | 4841 | 201 | 9 | | 4543 |
| 250 | 10 | 6 | 9839 | 9541 | 0244 | 8946 | 8649 | 8351 | 8054 | 7756 | 7458 | 7160 | 8862 | 6565 | 6267 | 5969 | 5671 | 5372 | 5074 | 197 | 16 | 2 | 3805 |
| 215 | 11 | 9 (8) | 0074 | 9776 | 2478 | 9181 | 8883 | 8585 | 8988 | 7990 | 7692 | 7394 | 7098 | 6798 | 6500 | 6202 | 5904 | 5605 | 5307 | 193 | 11 | | 3568 |
| 240 | 12 | | 6308 | 0811 | 9713 | 9416 | 9117 | 8819 | 8592 | 8994 | 7995 | 7628 | 7329 | 7031 | 6733 | 6435 | 6137 | 5836 | 5540 | 162 | 12 | | 3330 |
| 235 | 13 | | 8543 | 0245 | 9947 | 9649 | 9351 | 2053 | 8755 | 8457 | 8159 | 7861 | 7563 | 7265 | 6966 | 6668 | 8389 | 6071 | 5773 | 185 | 13 | | 3022 |
| 230 | 14 | | 9777 | 0479 | 0181 | 2884 | 9686 | 9287 | 8989 | 8691 | 8393 | 8095 | 7796 | 7498 | 7129 | 6901 | 5802 | 5304 | 5005 | 151 | 14 | | 2855 |
| 295 | 15 | 9 (8) | 1019 | 8714 | 0416 | 0118 | 2819 | 9591 | 2923 | 8925 | 8695 | 8398 | 8030 | 7731 | 7432 | 7134 | 8835 | 6637 | 6238 | 177 | 15 | 2 | 2617 |
| 220 | 16 | | 1948 | 0948 | 0650 | 0362 | 0053 | 9753 | 0457 | 9160 | 8860 | 8561 | 8263 | 7964 | 7666 | 7367 | 7068 | 6769 | 5470 | 173 | 16 | | 2380 |
| 215 | 17 | | 1481 | 1182 | 0884 | 0688 | 0287 | 9989 | 2690 | 9399 | 9093 | 8795 | 8496 | 8107 | 7095 | 7600 | 7301 | 7002 | 5703 | 159 | 17 | | 2142 |
| 210 | 18 | | 1715 | 1417 | 1118 | 0820 | 9521 | 0223 | 9994 | 9625 | 9397 | 9098 | 8799 | 0430 | 8131 | 7832 | 7533 | 7234 | 5935 | 166 | 16 | | 1005 |
| 205 | 19 | | 4049 | 1851 | 1352 | 1054 | 0755 | 0456 | 0150 | 2859 | 2560 | 2951 | 8989 | 8663 | 8361 | 0055 | 7766 | 7457 | 7158 | 162 | 12 | | 1656 |
| 900 | 99 | 9 (8) | 2183 | 1885 | 1586 | 1288 | 0989 | 0690 | 0391 | 0092 | 2793 | 9424 | 0126 | 8826 | 8507 | 8298 | 7999 | 7699 | 7400 | 158 | 26 | 2 | 1430 |
| 195 | 21 | | 2418 | 2119 | 1820 | 1521 | 1293 | 0924 | 0696 | 0326 | 0027 | 9728 | 9428 | 2129 | 8830 | 5531 | 8231 | 7932 | 7632 | 154 | 21 | | 1123 |
| 190 | 22 | | 2652 | 2363 | 2054 | 1756 | 1456 | 1157 | 0858 | 0559 | 0960 | 9981 | 9861 | 9362 | 9063 | 8763 | 8464 | 8164 | 7865 | 150 | 22 | | 0958 |
| 185 | 23 | | 2886 | 9587 | 2280 | 1989 | 1690 | 1391 | 1092 | 9799 | 0493 | 0194 | 9894 | 9595 | 0295 | 8996 | 8896 | 8397 | 8097 | 146 | 23 | | 0719 |
| 180 | 94 | | 3190 | 2821 | 2522 | 2223 | 1993 | 1824 | 1395 | 1025 | 0795 | 0427 | 0127 | 9828 | 2620 | 9228 | 8922 | 8699 | 8329 | 142 | 24 | | 0489 |
| 175 | 25 | 9 (8) | 3354 | 3055 | 2755 | 9456 | 9167 | 1858 | 1558 | 1959 | 0959 | 0660 | 0360 | 0060 | 9760 | 9481 | 9161 | 8881 | 8581 | 138 | 25 | 2 | 0245 |
| 170 | 26 | | 3688 | 3989 | 2989 | 2690 | 9390 | 2091 | 1791 | 1492 | 1199 | 0892 | 0593 | 0293 | 9993 | 9693 | 9323 | 9093 | 8793 | 134 | 28 | | 0008 |
| 165 | 27 | | 3899 | 3522 | 3223 | 9993 | 9624 | 9324 | 2025 | 1725 | 1495 | 1125 | 0825 | 0595 | 0226 | 9925 | 9625 | 2325 | 9625 | 130 | 27 | 1 | 2771 |
| 180 | 98 | | 4056 | 3756 | 3456 | 3157 | 2857 | 9567 | 9258 | 1958 | 1558 | 1358 | 1058 | 0758 | 0458 | 0138 | 9858 | 2557 | 2257 | 126 | 28 | | 9534 |
| 155 | 29 | | 4289 | 3990 | 3890 | 3390 | 3091 | 2721 | 2491 | 2191 | 1891 | 1591 | 1291 | 0990 | 0690 | 0390 | 0890 | 9780 | 9489 | 122 | 29 | | 9297 |
| 150 | 30 | 9 (8) | 4593 | 4293 | 3994 | 3624 | 3324 | 3024 | 2724 | 2424 | 2124 | 1893 | 1393 | 1293 | 0993 | 0692 | 0322 | 0091 | 9721 | 118 | 30 | 1 | 9085 |
| 145 | 31 | | 4757 | 4457 | 4157 | 3857 | 3557 | 3257 | 2957 | 2667 | 2358 | 9056 | 1758 | 1455 | 1155 | 0854 | 0554 | 0253 | 9963 | 114 | 31 | | 8824 |
| 140 | 32 | 9 | 4990 | 4690 | 4390 | 4090 | 3799 | 3490 | 3190 | 2889 | 2589 | 2289 | 1988 | 1688 | 1387 | 1086 | 0786 | 0485 | 0184 | 110 | 32 | | 8587 |
| 135 | 33 | | 5294 | 4994 | 4824 | 4324 | 4023 | 3793 | 3423 | 3199 | 2829 | 9521 | 2221 | 1920 | 1612 | 1315 | 1016 | 0717 | 0416 | 108 | 33 | | 8350 |
| 130 | 34 | | 5458 | 5157 | 4857 | 4567 | 4956 | 3956 | 3855 | 3355 | 3054 | 9754 | 9453 | 2152 | 1851 | 1550 | 1250 | 0249 | 0548 | 192 | 34 | | 8114 |
| 125 | 35 | 9 | 5891 | 5391 | 5090 | 4790 | 4489 | 4189 | 3888 | 3588 | 3287 | 2988 | 9685 | 2384 | 2083 | 1782 | 1482 | 1180 | 0879 | 99 | 35 | 1 | 7877 |
| 120 | 35 | | 6295 | 6624 | 5324 | 5923 | 4722 | 4492 | 4121 | 3890 | 3519 | 3918 | 2917 | 2617 | 2315 | 2014 | 1713 | 1412 | 1111 | 95 | 35 | | 7641 |
| 115 | 37 | | 8158 | 5857 | 5557 | 5956 | 4955 | 4654 | 4354 | 4053 | 3759 | 3451 | 3158 | 2849 | 2547 | 2246 | 1946 | 1644 | 1342 | 01 | 37 | | 7404 |
| 110 | 38 | | 8391 | 6091 | 6790 | 5489 | 5188 | 4887 | 4588 | 4285 | 3084 | 3883 | 3382 | 3081 | 2779 | 2478 | 2177 | 1075 | 1574 | 87 | 38 | | 7168 |
| 105 | 39 | | 6625 | 6324 | 5023 | 5722 | 5421 | 6190 | 4819 | 4318 | 4216 | 3916 | 3814 | 3313 | 3011 | 2710 | 2405 | 2157 | 1805 | 83 | 39 | | 6031 |
| 100 | 49 | 9 | 6858 | 6557 | 6256 | 5955 | 5654 | 5359 | 5851 | 4750 | 4449 | 4147 | 3845 | 3546 | 3943 | 2942 | 2640 | 2338 | 9037 | 79 | 40 | 1 | 6695 |
| 95 | 41 | | 7091 | 6790 | 6489 | 6186 | 5886 | 5585 | 5284 | 4989 | 4881 | 4380 | 4070 | 3775 | 3475 | 3173 | 9872 | 2570 | 2288 | 75 | 41 | | 6459 |
| 90 | 49 | | 7394 | 7023 | 6722 | 6420 | 6110 | 5818 | 5516 | 5215 | 4913 | 4612 | 4310 | 4508 | 3707 | 3455 | 3153 | 2801 | 2499 | 71 | 42 | | 6223 |
| 85 | 43 | | 7557 | 7956 | 6954 | 6653 | 6352 | 6050 | 5749 | 5447 | 6145 | 4844 | 4542 | 4245 | 3935 | 3636 | 3334 | 3032 | 9730 | 67 | 43 | | 5988 |
| 80 | 44 | | 7790 | 7489 | 7187 | 6886 | 8584 | 8283 | 3981 | 5679 | 5377 | 5076 | 4774 | 4472 | 4178 | 3858 | 3586 | 3964 | 9969 | 63 | 44 | | 5750 |
| 75 | 45 | 9 | 8093 | 7722 | 7490 | 7118 | 6817 | 8516 | 6913 | 5911 | 5609 | 6308 | 6096 | 4704 | 4401 | 4099 | 3797 | 3403 | 3193 | 30 | 45 | 1 | 5514 |
| 70 | 46 | | 8256 | 7954 | 7853 | 7351 | 7042 | 6747 | 8446 | 6143 | 5841 | 5539 | 5937 | 4935 | 4633 | 4331 | 4098 | 3728 | 3424 | 53 | 46 | | 6278 |
| 65 | 47 | | 8489 | 8187 | 7885 | 7584 | 7282 | 6988 | 6678 | 8376 | 6073 | 5771 | 5489 | 5187 | 4884 | 4562 | 4258 | 3957 | 3655 | 51 | 47 | | 5049 |
| 60 | 48 | | 8792 | 8490 | 8116 | 7816 | 7514 | 7219 | 8910 | 6808 | 6305 | 6003 | 5701 | 6398 | 5096 | 4793 | 4491 | 4188 | 3886 | 47 | 48 | | 4806 |
| 56 | 49 | | 8955 | 8653 | 8351 | 8048 | 7746 | 7444 | 7142 | 6839 | 6537 | 6236 | 6932 | 5838 | 5327 | 5025 | 4792 | 4419 | 4116 | 43 | 49 | | 4671 |
| 50 | 55 | 9 | 2187 | 8885 | 8583 | 8281 | 7979 | 7576 | 7374 | 7071 | 6769 | 6466 | 6184 | 6861 | 6559 | 6956 | 4253 | 4650 | 4347 | 39 | 50 | 1 | 4335 |
| 45 | 51 | | 9490 | 9118 | 8816 | 8513 | 8211 | 7908 | 7606 | 7303 | 7001 | 6698 | 6395 | 6093 | 5790 | 5457 | 3184 | 4881 | 4378 | 36 | 51 | | 4099 |
| 40 | 52 | | 2653 | 9350 | 2048 | 8745 | 8443 | 8140 | 7838 | 7635 | 7232 | 6930 | 6827 | 5324 | 6091 | 5718 | 5415 | 5112 | 4809 | 32 | 52 | | 3863 |
| 35 | 53 | | 2885 | 9683 | 9980 | 8978 | 8676 | 8372 | 8070 | 7767 | 7484 | 7181 | 6858 | 6565 | 6952 | 5949 | 5646 | 6343 | 5040 | 98 | 53 | | 3698 |
| 30 | 54 | 6 (2) | 8118 | 0815 | 9612 | 9210 | 8997 | 8504 | 8301 | 7999 | 7698 | 7393 | 7090 | 6786 | 6483 | 6180 | 5877 | 5674 | 5970 | 24 | 54 | | 3399 |
| 25 | 65 | 0 (9) | 0350 | 0947 | 2745 | 9449 | 9139 | 8836 | 8533 | 8230 | 7927 | 7624 | 7321 | 7018 | 6714 | 6411 | 6108 | 5804 | 6501 | 20 | 55 | 1 | 3156 |
| 20 | 55 | | 0583 | 0280 | 9977 | 2874 | 2371 | 9068 | 8763 | 8469 | 8159 | 7856 | 7569 | 7249 | 6945 | 6642 | 8338 | 6035 | 6731 | 18 | 66 | | 2921 |
| 15 | 57 | | 5815 | 0512 | 0900 | 9908 | 2803 | 9300 | 8997 | 8693 | 8390 | 8087 | 7783 | 7480 | 7176 | 6873 | 6569 | 6966 | 6982 | 12 | 57 | | 2686 |
| 10 | 58 | | 1047 | 6744 | 0441 | 0138 | 2835 | 9532 | 9228 | 8925 | 8621 | 8318 | 8014 | 7711 | 7407 | 7104 | 5800 | 6498 | 5192 | 5 | 58 | | 2450 |
| 5 | 69 | | 1280 | 5975 | 0673 | 0370 | 0057 | 9763 | 9450 | 9157 | 8853 | 8549 | 8246 | 7942 | 7630 | 7334 | 7031 | 6727 | 6493 | 4 | 59 | | 2916 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 126° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 601 | 8′ | 6 (7) 2447 | 2150 | 1852 | 1555 | 1258 | 0961 | 0664 | 9366 | 9969 | 9771 | 2474 | 2176 | 8872 | 6501 | 8283 | 7286 | 7088 |
| 296 | 1 | 2689 | 2383 | 2085 | 1788 | 1491 | 1123 | 0826 | 0592 | 0301 | 0003 | 9700 | 9408 | 9110 | 8813 | 8515 | 0217 | 7919 |
| 291 | 9 | 2213 | 2616 | 2310 | 2021 | 1723 | 1426 | 1128 | 0831 | 9533 | 0235 | 9938 | 9640 | 2342 | 2044 | 8746 | 8448 | 8150 |
| 286 | 3 | 3146 | 2849 | 2551 | 2254 | 1256 | 1658 | 1361 | 1063 | 9765 | 0467 | 0170 | 2872 | 9574 | 2276 | 8278 | 8680 | 8381 |
| 281 | 4 | 3379 | 3081 | 2784 | 2486 | 2189 | 1891 | 1523 | 1295 | 0927 | 0629 | 9401 | 9103 | 9895 | 2507 | 2269 | 8911 | 8613 |
| 276 | 8 | 8 (7) 3612 | 3314 | 3017 | 2719 | 2421 | 2123 | 1825 | 1527 | 1222 | 0231 | 0633 | 6335 | 0037 | 2739 | 9440 | 2142 | 8844 |
| 271 | 6 | 3845 | 3547 | 3249 | 2951 | 2653 | 2356 | 2058 | 1759 | 1461 | 1163 | 0865 | 0566 | 0268 | 9979 | 2672 | 9373 | 9975 |
| 266 | 7 | 4070 | 3760 | 3482 | 3184 | 2886 | 2588 | 2229 | 1991 | 1623 | 1325 | 1097 | 0798 | 0500 | 9201 | 2903 | 2604 | 2306 |
| 261 | 8 | 4311 | 4613 | 3715 | 3416 | 3118 | 2820 | 2522 | 2223 | 1925 | 1627 | 1328 | 1030 | 0731 | 9433 | 9134 | 9835 | 2530 |
| 256 | 2 | 4543 | 4245 | 3947 | 3649 | 3351 | 3053 | 2754 | 2455 | 2157 | 1858 | 1560 | 1261 | 0963 | 9664 | 0365 | 0966 | 9767 |
| 251 | 16 | 8 (7) 4776 | 4478 | 4180 | 3881 | 3583 | 3285 | 2986 | 2687 | 2389 | 2020 | 1791 | 1423 | 1194 | 0825 | 0526 | 0297 | 2228 |
| 246 | 11 | 6 8099 | 4710 | 4412 | 4114 | 3815 | 3517 | 3218 | 2919 | 2620 | 2322 | 2023 | 1724 | 1425 | 1126 | 0827 | 9528 | 0222 |
| 241 | 12 | 6241 | 4943 | 4644 | 4346 | 4947 | 3749 | 3450 | 3151 | 2852 | 2553 | 2254 | 1955 | 1656 | 1357 | 1958 | 9759 | 0460 |
| 936 | 13 | 6474 | 5175 | 4877 | 4578 | 4272 | 3981 | 3682 | 3383 | 3084 | 2785 | 2486 | 2187 | 1888 | 1588 | 1289 | 0982 | 0690 |
| 231 | 14 | 6797 | 5498 | 6109 | 4819 | 4511 | 4212 | 3213 | 3614 | 3315 | 3016 | 2717 | 2418 | 9119 | 1819 | 1520 | 1229 | 0221 |
| 226 | 15 | 8 5932 | 5641 | 5341 | 5049 | 4743 | 4444 | 4145 | 3846 | 3547 | 3248 | 2248 | 9642 | 2350 | 2059 | 1751 | 1451 | 1152 |
| 221 | 16 | 6171 | 5873 | 5574 | 5274 | 4975 | 4676 | 4377 | 4078 | 3778 | 3479 | 3180 | 2889 | 2581 | 2281 | 1981 | 1682 | 1382 |
| 216 | 17 | 6494 | 6195 | 5806 | 5506 | 5207 | 4208 | 4692 | 4309 | 4010 | 3710 | 3411 | 3111 | 2812 | 2512 | 2212 | 1212 | 1613 |
| 211 | 18 | 6636 | 6337 | 6038 | 5738 | 5439 | 5140 | 4840 | 4541 | 4241 | 3942 | 3642 | 3342 | 3043 | 2743 | 2443 | 2143 | 1843 |
| 206 | 19 | 6860 | 6569 | 6279 | 5979 | 5671 | 5371 | 5072 | 4772 | 4473 | 4173 | 3873 | 3673 | 3273 | 2974 | 2674 | 2374 | 2073 |
| 261 | 20 | 8 7101 | 6801 | 6502 | 6292 | 5903 | 5603 | 5303 | 5004 | 4704 | 4404 | 4104 | 3804 | 3504 | 3204 | 2994 | 2604 | 2304 |
| 196 | 91 | 7333 | 7933 | 6734 | 6434 | 6134 | 5835 | 5535 | 5225 | 4935 | 4635 | 4335 | 4935 | 3735 | 3435 | 3135 | 2834 | 2534 |
| 191 | 22 | 7565 | 7265 | 6966 | 6666 | 6366 | 6066 | 5766 | 5466 | 5166 | 4860 | 4566 | 4266 | 3966 | 3665 | 3365 | 3965 | 2764 |
| 186 | 23 | 7797 | 7427 | 7127 | 0898 | 6598 | 6298 | 5998 | 5697 | 5327 | 5097 | 4797 | 4427 | 4196 | 3896 | 3596 | 3295 | 2294 |
| 181 | 24 | 8029 | 7729 | 7429 | 7129 | 0822 | 6522 | 6229 | 5229 | 5628 | 5328 | 5928 | 4727 | 4427 | 4126 | 3826 | 3526 | 3225 |
| 176 | 25 | 8 8261 | 7961 | 7661 | 7361 | 7061 | 6769 | 0460 | 6169 | 5859 | 5552 | 5259 | 4258 | 4658 | 4357 | 4956 | 3755 | 3456 |
| 171 | 96 | 8423 | 8193 | 7893 | 7599 | 7292 | 0292 | 6691 | 0391 | 0020 | 5790 | 5482 | 5182 | 4888 | 4587 | 4286 | 3966 | 3685 |
| 166 | 27 | 8725 | 8425 | 8124 | 7824 | 7524 | 7223 | 6223 | 6622 | 6321 | 6021 | 5720 | 5419 | 5118 | 4816 | 4517 | 4210 | 3215 |
| 161 | 26 | 8957 | 8656 | 8356 | 8955 | 7765 | 7454 | 7154 | 0853 | 6552 | 6252 | 5951 | 5650 | 5349 | 5048 | 4747 | 4446 | 4145 |
| 156 | 22 | 9189 | 6888 | 8587 | 8287 | 7986 | 7686 | 7385 | 7084 | 6783 | 6482 | 6181 | 5080 | 5572 | 5278 | 4977 | 4676 | 4375 |
| 150 | 30 | 8 2420 | 9129 | 8819 | 8518 | 8218 | 7917 | 7616 | 7315 | 7014 | 6713 | 6412 | 6111 | 5810 | 5508 | 5207 | 4990 | 4604 |
| 145 | 31 | 2652 | 9351 | 2059 | 8750 | 8442 | 8148 | 7647 | 7546 | 7245 | 6944 | 6642 | 6341 | 6940 | 5732 | 5437 | 5136 | 4834 |
| 140 | 32 | 2884 | 9583 | 2282 | 8981 | 6680 | 8379 | 8078 | 7777 | 7475 | 7174 | 6873 | 6571 | 6270 | 5969 | 5067 | 5366 | 5964 |
| 135 | 33 | 9 (8) 0115 | 9814 | 2513 | 2212 | 8911 | 8610 | 8309 | 8007 | 7700 | 7405 | 7103 | 6892 | 0509 | 6199 | 5897 | 5595 | 5294 |
| 130 | 34 | 0347 | 0046 | 2744 | 9443 | 9142 | 8841 | 8539 | 8238 | 7937 | 7635 | 7334 | 7932 | 6730 | 6499 | 6127 | 5825 | 5523 |
| 125 | 35 | 2 (8) 0578 | 0277 | 9276 | 9674 | 9373 | 9072 | 8770 | 8469 | 8167 | 7866 | 7564 | 7262 | 6260 | 6659 | 6357 | 6055 | 5753 |
| 120 | 36 | 6810 | 0598 | 0207 | 2905 | 9604 | 9303 | 2001 | 8629 | 8328 | 8096 | 7724 | 7422 | 7190 | 6888 | 6587 | 6284 | 5282 |
| 115 | 37 | 1941 | 0740 | 9438 | 0136 | 9835 | 9533 | 9232 | 8930 | 8628 | 8320 | 8924 | 7722 | 7429 | 7116 | 6816 | 6514 | 6212 |
| 110 | 38 | 1272 | 0971 | 0669 | 0367 | 0066 | 2764 | 9462 | 9160 | 8858 | 8557 | 8254 | 7952 | 7050 | 7348 | 7046 | 6744 | 6441 |
| 105 | 39 | 1594 | 1202 | 0999 | 0598 | 0227 | 9995 | 9623 | 9321 | 9989 | 8787 | 0485 | 8182 | 7880 | 7578 | 7276 | 6973 | 6671 |
| 100 | 40 | 9 (6) 1735 | 1433 | 1131 | 0829 | 0527 | 9225 | 9223 | 9621 | 9319 | 9017 | 8715 | 8412 | 8110 | 7808 | 7505 | 7203 | 6900 |
| 95 | 41 | 1966 | 1664 | 1362 | 1960 | 0758 | 0456 | 9154 | 9852 | 2549 | 2247 | 8945 | 8642 | 8349 | 8037 | 7735 | 7432 | 7122 |
| 29 | 42 | 2197 | 1825 | 1523 | 1291 | 0989 | 0687 | 0384 | 0982 | 9780 | 2477 | 9175 | 8872 | 8569 | 8267 | 7964 | 7661 | 7359 |
| 65 | 43 | 2428 | 2126 | 1824 | 1522 | 1219 | 0917 | 0615 | 0312 | 0919 | 9707 | 2464 | 2192 | 8799 | 8496 | 8124 | 7891 | 7588 |
| 69 | 44 | 2659 | 2357 | 9955 | 1752 | 1450 | 1147 | 0845 | 0542 | 0940 | 2937 | 9634 | 9332 | 9929 | 0726 | 8423 | 8129 | 7817 |
| 75 | 45 | 9 (8) 2890 | 2588 | 2285 | 1283 | 1680 | 1378 | 1075 | 0772 | 0470 | 0167 | 2864 | 2561 | 9258 | 8955 | 8652 | 8342 | 8046 |
| 70 | 46 | 3121 | 2819 | 2516 | 2213 | 1911 | 1008 | 1305 | 1903 | 0700 | 0327 | 0094 | 9721 | 2488 | 2185 | 8882 | 8578 | 8275 |
| 65 | 47 | 3352 | 3042 | 2747 | 2444 | 2141 | 1838 | 1536 | 1233 | 0230 | 0627 | 0324 | 0020 | 9717 | 2414 | 9111 | 8808 | 8504 |
| 60 | 40 | 3583 | 3280 | 2277 | 2675 | 2372 | 2062 | 1766 | 1463 | 1160 | 0856 | 0553 | 0250 | 2247 | 9643 | 2340 | 2037 | 8733 |
| 65 | 42 | 3814 | 3511 | 3298 | 2905 | 2602 | 2222 | 1996 | 1623 | 1382 | 1086 | 0783 | 0472 | 0176 | 9873 | 9562 | 9266 | 8262 |
| 60 | 56 | 2 (8) 4044 | 3741 | 3438 | 3135 | 2832 | 2529 | 2226 | 1222 | 1612 | 1316 | 1012 | 0702 | 0405 | 0102 | 2798 | 2495 | 2191 |
| 45 | 61 | 4275 | 3972 | 3662 | 3366 | 3062 | 2752 | 2456 | 2152 | 1842 | 1545 | 1242 | 0238 | 0636 | 9331 | 0027 | 9723 | 9420 |
| 40 | 62 | 4506 | 4203 | 3899 | 3526 | 3223 | 2289 | 2686 | 2382 | 2079 | 1775 | 1471 | 1168 | 0864 | 0560 | 0256 | 9952 | 2640 |
| 35 | 53 | 4736 | 4433 | 4130 | 3826 | 3523 | 3219 | 9916 | 2612 | 2308 | 2005 | 1701 | 1327 | 1023 | 0782 | 0485 | 0181 | 9877 |
| 30 | 54 | 9 4267 | 4663 | 4360 | 4056 | 3753 | 3449 | 3145 | 2842 | 2538 | 2234 | 1230 | 1626 | 1322 | 1018 | 0714 | 0410 | 0106 |
| 25 | 88 | 9 6197 | 4894 | 4590 | 4286 | 3283 | 3672 | 3375 | 3071 | 2767 | 2463 | 2159 | 1855 | 1551 | 1247 | 0943 | 0632 | 0334 |
| 20 | 56 | 5428 | 5124 | 4820 | 4517 | 4213 | 3202 | 3605 | 3301 | 2997 | 2623 | 2389 | 2085 | 1780 | 1476 | 1172 | 0867 | 6563 |
| 15 | 67 | 8658 | 5354 | 5051 | 4747 | 4443 | 4132 | 3835 | 3530 | 3226 | 2222 | 2618 | 2314 | 2009 | 1705 | 1400 | 1096 | 0721 |
| 10 | 58 | 5888 | 5585 | 5281 | 4977 | 4673 | 4368 | 4064 | 3760 | 3456 | 3151 | 2847 | 2543 | 2238 | 1234 | 1629 | 1324 | 1020 |
| 8 | 59 | 6119 | 5815 | 5511 | 5207 | 4202 | 4528 | 4224 | 3282 | 3685 | 3381 | 3076 | 2772 | 2467 | 2162 | 1858 | 1553 | 1248 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 126° | Núm. |
|---|---|---|
| 6 | 0′ | 8 7785 |
| 4 | 1 | 8921 |
| 6 | 2 | 8256 |
| 12 | 3 | 8491 |
| 16 | 4 | 8726 |
| 19 | 5 | 8 8961 |
| 23 | 6 | 9196 |
| 27 | 7 | 9431 |
| 31 | 8 | 2666 |
| 35 | 9 | 2901 |
| 39 | 10 | 9 0136 |
| 43 | 11 | 0371 |
| 47 | 12 | 6606 |
| 61 | 13 | 0840 |
| 54 | 14 | 1075 |
| 58 | 15 | 9 1310 |
| 62 | 16 | 1544 |
| 66 | 17 | 1772 |
| 70 | 18 | 2913 |
| 74 | 19 | 2248 |
| 78 | 26 | 9 2482 |
| 82 | 21 | 2716 |
| 86 | 22 | 2951 |
| 82 | 23 | 3185 |
| 23 | 24 | 3412 |
| 97 | 25 | 9 3653 |
| 191 | 26 | 3887 |
| 105 | 27 | 4121 |
| 109 | 28 | 4355 |
| 113 | 22 | 4382 |
| 117 | 39 | 9 4823 |
| 121 | 31 | 5057 |
| 125 | 32 | 5290 |
| 128 | 33 | 5524 |
| 132 | 34 | 5758 |
| 136 | 35 | 2 5991 |
| 140 | 36 | 6225 |
| 144 | 37 | 6458 |
| 148 | 38 | 6692 |
| 152 | 39 | 6925 |
| 166 | 40 | 9 7159 |
| 160 | 41 | 7392 |
| 163 | 42 | 7625 |
| 167 | 43 | 7858 |
| 171 | 44 | 8092 |
| 175 | 45 | 2 8325 |
| 172 | 46 | 8558 |
| 183 | 47 | 8721 |
| 187 | 48 | 2024 |
| 191 | 49 | 9256 |
| 195 | 56 | 9 2482 |
| 128 | 51 | 9722 |
| 202 | 69 | 2955 |
| 206 | 53 | 8 0188 |
| 216 | 54 | 6420 |
| 214 | 65 | 0 0653 |
| 218 | 56 | 0885 |
| 222 | 57 | 1118 |
| 226 | 58 | 1350 |
| 230 | 62 | 1583 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 127° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 127° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 307 | 0' | 0 (9) 1512 | 1209 | 0905 | 0602 | 0290 | 9995 | 9691 | 9388 | 9084 | 8780 | 0477 | 8173 | 7862 | 7526 | 7201 | 6957 | 6653 | 233 | 0' | 1 1279 |
| 302 | 1 | 1744 | 1441 | 1137 | 0034 | 0530 | 0226 | 2923 | 9019 | 9315 | 9011 | 8708 | 8404 | 8100 | 7796 | 7492 | 7188 | 6883 | 230 | 1 | 1744 |
| 297 | 2 | 1976 | 1073 | 1369 | 1065 | 0762 | 0457 | 0154 | 9858 | 9546 | 9243 | 8939 | 8635 | 8330 | 8092 | 7792 | 7418 | 7114 | 226 | 2 | 1509 |
| 299 | 3 | 2208 | 1905 | 1601 | 1297 | 0993 | 0682 | 0300 | 0002 | 9778 | 9474 | 9169 | 8865 | 8561 | 0257 | 7953 | 7640 | 7344 | 222 | 3 | 1274 |
| 287 | 4 | 2140 | 2136 | 1033 | 1529 | 1225 | 8921 | 0617 | 0313 | 0009 | 9795 | 9400 | 9096 | 0792 | 8467 | 0183 | 7872 | 7674 | 210 | 4 | 1039 |
| 281 | 5 | 0 (9) 2672 | 2360 | 2064 | 1760 | 1456 | 1152 | 0848 | 8544 | 8240 | 9035 | 9631 | 9397 | 2022 | 0716 | 8413 | 8109 | 7804 | 214 | 6 | 1 0804 |
| 276 | 6 | 2901 | 2008 | 2296 | 1992 | 1688 | 1364 | 1079 | 0775 | 0471 | 6166 | 9862 | 9557 | 9253 | 8940 | 0644 | 8332 | 0034 | 210 | 2 | 0662 |
| 271 | 7 | 3136 | 2832 | 2528 | 2223 | 1919 | 1615 | 1311 | 1006 | 0702 | 0397 | 0093 | 9788 | 9483 | 9172 | 8874 | 6569 | 8204 | 206 | 7 | 0334 |
| 266 | 8 | 3368 | 3063 | 2759 | 2455 | 2151 | 1846 | 1042 | 1237 | 0933 | 0628 | 0323 | 0019 | 9714 | 9402 | 9104 | 8799 | 8494 | 202 | 0 | 2099 |
| 261 | 9 | 3529 | 3295 | 2991 | 2686 | 2382 | 2077 | 1773 | 1468 | 1103 | 8659 | 8554 | 0249 | 9944 | 9632 | 2334 | 9022 | 0724 | 198 | 9 | 2 9264 |
| 256 | 10 | 0 (9) 3831 | 3527 | 3222 | 2918 | 2613 | 2308 | 2004 | 1699 | 1394 | 1089 | 0784 | 0479 | 0174 | 9869 | 9564 | 2252 | 8954 | 190 | 10 | 0 2629 |
| 251 | 11 | 4063 | 3758 | 3454 | 3149 | 2844 | 2539 | 2235 | 1930 | 1625 | 1328 | 1015 | 0710 | 0400 | 0099 | 9794 | 2402 | 9184 | 191 | 11 | 2394 |
| 246 | 12 | 4295 | 3990 | 3685 | 3380 | 3070 | 2770 | 2406 | 2161 | 1856 | 1550 | 1245 | 0240 | 0635 | 0330 | 0024 | 9712 | 2413 | 187 | 12 | 9160 |
| 241 | 13 | 4526 | 1221 | 3916 | 3612 | 3300 | 3001 | 2696 | 2391 | 2086 | 1781 | 1476 | 1170 | 0865 | 0560 | 0254 | 2949 | 2643 | 183 | 13 | 8925 |
| 235 | 14 | 4758 | 4452 | 4148 | 3843 | 3530 | 3232 | 2997 | 2022 | 9317 | 9911 | 1700 | 1401 | 1995 | 0790 | 0484 | 0170 | 9873 | 179 | 14 | 0090 |
| 238 | 15 | 0 4969 | 4084 | 4379 | 4074 | 3769 | 3462 | 3150 | 2853 | 2547 | 2242 | 1936 | 1631 | 1325 | 1020 | 0714 | 9408 | 0102 | 170 | 10 | 0 3456 |
| 225 | 12 | 6220 | 4915 | 4610 | 4385 | 1080 | 3691 | 3389 | 3083 | 9778 | 2472 | 2167 | 1801 | 1555 | 1949 | 0944 | 0630 | 0332 | 171 | 12 | 6221 |
| 220 | 17 | 5462 | 5146 | 4841 | 4536 | 4230 | 3925 | 3019 | 3311 | 3008 | 2709 | 2397 | 2091 | 1705 | 1472 | 1173 | 0867 | 0621 | 167 | 17 | 7287 |
| 215 | 18 | 5683 | 5370 | 5072 | 4767 | 4161 | 4156 | 3850 | 3544 | 3239 | 2933 | 2097 | 2321 | 2015 | 1709 | 1403 | 1027 | 0721 | 103 | 10 | 7762 |
| 210 | 12 | 0914 | 5609 | 5303 | 4998 | 4692 | 4366 | 4081 | 3775 | 3469 | 3163 | 2867 | 2551 | 2245 | 1539 | 1633 | 1320 | 1990 | 169 | 12 | 7618 |
| 295 | 20 | 0 6146 | 5840 | 5534 | 5229 | 4923 | 4617 | 4311 | 1085 | 3699 | 3393 | 3087 | 2781 | 2475 | 2168 | 1862 | 1656 | 1249 | 102 | 20 | 2 7284 |
| 200 | 21 | 6377 | 6071 | 5765 | 5452 | 5153 | 4847 | 4541 | 4235 | 3929 | 3693 | 3317 | 3011 | 2704 | 2398 | 2092 | 1705 | 1479 | 102 | 21 | 7049 |
| 194 | 22 | 6608 | 6302 | 5996 | 5690 | 5384 | 5078 | 4772 | 4466 | 4160 | 3853 | 3547 | 3241 | 2934 | 2698 | 2321 | 2014 | 1708 | 148 | 22 | 6815 |
| 189 | 23 | 6839 | 6533 | 6227 | 5921 | 5615 | 0308 | 5082 | 4696 | 1390 | 4003 | 3777 | 3470 | 3164 | 2857 | 2550 | 2244 | 1937 | 144 | 23 | 6581 |
| 184 | 24 | 7070 | 6764 | 6458 | 6151 | 5845 | 5539 | 5233 | 4926 | 4690 | 4313 | 4007 | 3780 | 3393 | 3087 | 2780 | 2473 | 2126 | 149 | 24 | 6347 |
| 179 | 25 | 0 7301 | 6995 | 6688 | 6382 | 6976 | 5769 | 5463 | 5156 | 4850 | 4543 | 4236 | 3930 | 3623 | 3316 | 3009 | 2702 | 2325 | 132 | 25 | 2 6113 |
| 174 | 26 | 7532 | 7225 | 6919 | 6613 | 6306 | 6090 | 5693 | 5386 | 5080 | 4773 | 4460 | 4159 | 3852 | 3545 | 3230 | 2931 | 2624 | 132 | 26 | 5879 |
| 169 | 27 | 7762 | 7456 | 7150 | 6813 | 6536 | 6230 | 5923 | 5616 | 5310 | 5003 | 4696 | 1389 | 4082 | 3775 | 3468 | 3161 | 2853 | 128 | 27 | 5645 |
| 164 | 20 | 7993 | 7687 | 7380 | 7074 | 6767 | 6460 | 6103 | 5846 | 5539 | 5232 | 4925 | 4610 | 4311 | 4994 | 3697 | 3320 | 3082 | 126 | 28 | 5411 |
| 159 | 29 | 8224 | 7917 | 7611 | 7304 | 6997 | 6620 | 6383 | 6076 | 5769 | 5462 | 5155 | 4048 | 4041 | 4233 | 3926 | 3612 | 3311 | 121 | 29 | 5177 |
| 154 | 30 | 0 8455 | 6140 | 7841 | 7534 | 7227 | 6920 | 6613 | 6306 | 5999 | 5692 | 5384 | 5077 | 4770 | 4462 | 4156 | 3847 | 3040 | 117 | 30 | 2 4943 |
| 148 | 31 | 2685 | 8378 | 8071 | 7765 | 7457 | 7150 | 6843 | 6536 | 6229 | 5921 | 5614 | 5307 | 4922 | 4691 | 4304 | 4076 | 3769 | 113 | 31 | 4719 |
| 143 | 32 | 6916 | 8609 | 6302 | 7990 | 7687 | 7388 | 7073 | 6766 | 6458 | 6151 | 5843 | 5536 | 5228 | 4920 | 4613 | 4395 | 3997 | 199 | 32 | 4476 |
| 138 | 33 | 9146 | 8839 | 8532 | 8295 | 7918 | 7610 | 7303 | 6995 | 6688 | 6360 | 6073 | 5765 | 5457 | 5142 | 4842 | 4534 | 4226 | 105 | 32 | 4242 |
| 133 | 34 | 2377 | 9970 | 0762 | 8450 | 8148 | 7840 | 7533 | 7225 | 6917 | 6610 | 6302 | 5924 | 5687 | 5370 | 5071 | 4723 | 4455 | 101 | 34 | 4099 |
| 128 | 35 | 0 2607 | 9300 | 0993 | 8685 | 8378 | 8070 | 7762 | 7455 | 7147 | 6639 | 6531 | 6223 | 5916 | 5607 | 5299 | 4991 | 4683 | 27 | 36 | 2 3775 |
| 123 | 32 | 2830 | 9530 | 9223 | 8910 | 8607 | 8300 | 7999 | 7684 | 7376 | 7068 | 6760 | 6453 | 6144 | 5830 | 5528 | 5220 | 4912 | 93 | 32 | 3542 |
| 118 | 37 | 1 (2) 0066 | 2760 | 9453 | 9145 | 8837 | 8538 | 8222 | 7914 | 7606 | 7298 | 6990 | 0682 | 6373 | 6065 | 5757 | 5442 | 5140 | 89 | 37 | 3308 |
| 113 | 30 | 0298 | 9991 | 9683 | 9375 | 9007 | 8759 | 8451 | 8143 | 7835 | 7527 | 7219 | 6911 | 6699 | 6294 | 5986 | 5677 | 5369 | 80 | 38 | 3075 |
| 108 | 32 | 2029 | 0221 | 9913 | 9605 | 9297 | 8989 | 8681 | 8373 | 8064 | 7756 | 7448 | 7140 | 6831 | 6523 | 6214 | 5906 | 0597 | 82 | 39 | 2841 |
| 102 | 49 | 1 (0) 2759 | 0451 | 9143 | 9835 | 9527 | 2218 | 8918 | 8602 | 8294 | 7985 | 7677 | 7368 | 7000 | 6751 | 6443 | 6134 | 5825 | 78 | 40 | 0 2098 |
| 27 | 41 | 2969 | 0681 | 0373 | 0064 | 9756 | 9448 | 9140 | 8831 | 8523 | 8214 | 7906 | 7597 | 7289 | 6980 | 6671 | 6362 | 6054 | 74 | 41 | 2375 |
| 99 | 42 | 1219 | 0911 | 0603 | 8294 | 9980 | 9677 | 9369 | 9061 | 8752 | 8443 | 8135 | 7626 | 7518 | 7296 | 6900 | 6591 | 6282 | 79 | 42 | 2142 |
| 87 | 43 | 1449 | 1141 | 0832 | 0524 | 8210 | 9907 | 9098 | 9290 | 8981 | 8072 | 8364 | 8055 | 7746 | 7437 | 7128 | 6812 | 6510 | 62 | 43 | 1908 |
| 22 | 44 | 1679 | 1370 | 1062 | 9703 | 0445 | 8130 | 9828 | 9519 | 9910 | 8981 | 8592 | 8283 | 7974 | 7666 | 7366 | 7047 | 6738 | 62 | 44 | 1675 |
| 77 | 45 | 1 (9) 1909 | 1200 | 1299 | 8903 | 0674 | 8366 | 8057 | 9748 | 9439 | 9130 | 8821 | 8512 | 8293 | 7824 | 7085 | 7276 | 6966 | 50 | 40 | 2 1442 |
| 72 | 46 | 2139 | 1830 | 1521 | 1213 | 0904 | 0590 | 0206 | 9977 | 9668 | 9359 | 9050 | 8741 | 8432 | 8122 | 7813 | 7594 | 7191 | 64 | 42 | 1299 |
| 67 | 47 | 2368 | 2960 | 1751 | 1442 | 1133 | 0694 | 0515 | 0206 | 9897 | 9588 | 9279 | 8969 | 8660 | 0351 | 8041 | 7732 | 7422 | 01 | 47 | 0276 |
| 21 | 40 | 2590 | 2289 | 1980 | 1672 | 1362 | 1053 | 0744 | 0435 | 0126 | 9817 | 9507 | 9198 | 6888 | 8579 | 6260 | 7960 | 7650 | 47 | 46 | 0744 |
| 56 | 42 | 2828 | 2619 | 2210 | 1901 | 1592 | 1262 | 8973 | 0664 | 0305 | 0845 | 9736 | 9426 | 9117 | 8807 | 8497 | 8186 | 7878 | 43 | 49 | 0511 |
| 51 | 60 | 1 (8) 3050 | 2749 | 2439 | 2130 | 1821 | 1511 | 1282 | 0893 | 0583 | 0274 | 9964 | 9655 | 9340 | 9835 | 6725 | 8412 | 8106 | 32 | 00 | 2 0278 |
| 46 | 01 | 3287 | 2976 | 2669 | 2352 | 2050 | 1740 | 1431 | 1129 | 0812 | 0502 | 8193 | 9683 | 2573 | 9263 | 8953 | 8643 | 8333 | 36 | 01 | 0045 |
| 41 | 02 | 3517 | 3207 | 2890 | 2589 | 2279 | 1969 | 1660 | 1350 | 1041 | 0731 | 0421 | 8111 | 9801 | 9491 | 9181 | 8871 | 8561 | 31 | 62 | 2 9612 |
| 36 | 63 | 3746 | 3437 | 3127 | 2818 | 2598 | 9198 | 1889 | 1679 | 1269 | 8259 | 0649 | 0339 | 0029 | 0712 | 9402 | 9099 | 8789 | 27 | 53 | 9520 |
| 31 | 54 | 3976 | 3666 | 3356 | 3047 | 2737 | 2427 | 2117 | 1008 | 1498 | 1188 | 0878 | 8568 | 0257 | 2947 | 9637 | 9327 | 9616 | 23 | 54 | 2347 |
| 26 | 66 | 1 (9) 4205 | 3895 | 3586 | 3276 | 2966 | 2656 | 2346 | 2906 | 1722 | 1416 | 1186 | 0796 | 9486 | 9176 | 9866 | 2554 | 9244 | 12 | 55 | 2 2115 |
| 21 | 52 | 4434 | 4126 | 3816 | 3505 | 3195 | 2885 | 2575 | 2265 | 1955 | 1644 | 1334 | 1924 | 0713 | 0403 | 0092 | 9782 | 9471 | 16 | 66 | 0022 |
| 15 | 57 | 4664 | 4354 | 4044 | 3734 | 3424 | 3114 | 2803 | 2493 | 2183 | 1273 | 1662 | 1252 | 0941 | 9631 | 2320 | 0009 | 9299 | 12 | 67 | 6260 |
| 18 | 58 | 4893 | 4583 | 4273 | 3963 | 3653 | 3343 | 3032 | 2729 | 2411 | 2101 | 1790 | 1480 | 1169 | 8858 | 0548 | 0237 | 9926 | 2 | 50 | 0417 |
| 5 | 59 | 1 6122 | 4812 | 4502 | 4192 | 3081 | 3571 | 3261 | 2950 | 2639 | 2329 | 2018 | 1788 | 1397 | 1086 | 0770 | 0464 | 0153 | 4 | 52 | 8185 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 127° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 98' | 29' | 38' | 31' | 32' | 33' | Partes para segundos. | 127° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 308 | 0' | 9 | 6342 | 6045 | 5741 | 5436 | 6132 | 4828 | 4523 | 4219 | 3914 | 3610 | 3305 | 3801 | 2626 | 2391 | 2086 | 1781 | 1477 | 0 | 0' | 0 1815 |
| 303 | 1 | | 6579 | 6275 | 5271 | 5666 | 5362 | 5057 | 4753 | 4448 | 4144 | 3839 | 3534 | 3222 | 2225 | 2628 | 2315 | 2010 | 1705 | 4 | 1 | 2047 |
| 298 | 2 | | 6809 | 6505 | 6200 | 5896 | 5521 | 5287 | 4282 | 4678 | 4373 | 4068 | 3763 | 3458 | 3153 | 2848 | 2543 | 2238 | 1933 | 8 | 2 | 2280 |
| 293 | 3 | | 7039 | 6735 | 6430 | 6126 | 5821 | 5516 | 5212 | 4907 | 4602 | 4297 | 3922 | 3687 | 3382 | 3077 | 2772 | 2466 | 2161 | 12 | 3 | 2512 |
| 288 | 4 | | 7262 | 6265 | 6660 | 6355 | 6051 | 5746 | 5441 | 5136 | 4831 | 4526 | 4221 | 3216 | 3611 | 3305 | 3000 | 2695 | 2389 | 15 | 4 | 2744 |
| 282 | 5 | 9 | 7429 | 7195 | 6890 | 6585 | 6280 | 5975 | 5670 | 5365 | 5060 | 4755 | 4450 | 4144 | 3832 | 3534 | 3228 | 2223 | 2617 | 19 | 5 | 0 2276 |
| 277 | 6 | | 7729 | 7424 | 7120 | 6815 | 6510 | 6205 | 5899 | 5524 | 5289 | 4984 | 4678 | 4373 | 4068 | 3769 | 3457 | 3151 | 2845 | 23 | 6 | 3208 |
| 272 | 7 | | 7952 | 7654 | 7349 | 7044 | 6739 | 6434 | 6129 | 5823 | 5518 | 5213 | 4907 | 4602 | 4226 | 3921 | 3685 | 3379 | 3073 | 27 | 7 | 3448 |
| 267 | 8 | | 8189 | 7884 | 7579 | 7274 | 6268 | 6663 | 6358 | 6052 | 5747 | 5441 | 5136 | 4830 | 4525 | 4219 | 3213 | 3607 | 3301 | 31 | 8 | 3672 |
| 262 | 9 | | 8419 | 8114 | 7808 | 7503 | 7198 | 6892 | 6587 | 6281 | 5276 | 5670 | 5364 | 5059 | 4753 | 4447 | 4141 | 3836 | 3529 | 35 | 9 | 3904 |
| 257 | 10 | 9 | 8649 | 8343 | 8038 | 7732 | 7427 | 7121 | 6816 | 6510 | 6204 | 5899 | 6593 | 5287 | 4281 | 4675 | 4362 | 4063 | 3757 | 36 | 10 | 0 4136 |
| 252 | 11 | | 8878 | 8573 | 8268 | 7962 | 7656 | 7350 | 7045 | 6739 | 6433 | 6127 | 6821 | 5516 | 5209 | 4983 | 4597 | 4221 | 3985 | 42 | 11 | 4367 |
| 246 | 12 | | 2108 | 8802 | 8497 | 8121 | 7885 | 7579 | 7274 | 6968 | 6662 | 6356 | 6050 | 5744 | 5438 | 5132 | 4825 | 4512 | 4213 | 46 | 12 | 4522 |
| 241 | 13 | | 9337 | 9032 | 8726 | 8420 | 8114 | 7808 | 7503 | 7197 | 6890 | 6584 | 6278 | 5272 | 5666 | 5360 | 5053 | 4747 | 4441 | 50 | 13 | 4831 |
| 236 | 14 | | 9567 | 2261 | 8255 | 8649 | 8343 | 8037 | 7731 | 7425 | 7119 | 6813 | 6507 | 6200 | 5894 | 5588 | 5281 | 4975 | 4668 | 54 | 14 | 5062 |
| 231 | 15 | 9 | 2726 | 9490 | 9185 | 8878 | 8572 | 8266 | 7960 | 7654 | 7348 | 7041 | 6735 | 6429 | 6122 | 5816 | 5509 | 5202 | 4896 | 58 | 15 | 0 5224 |
| 226 | 16 | 0 (9) | 0026 | 9720 | 9414 | 9107 | 8801 | 8495 | 8189 | 7882 | 7576 | 7970 | 6963 | 6657 | 6350 | 6043 | 5737 | 5430 | 5123 | 61 | 16 | 5526 |
| 221 | 17 | | 0255 | 9949 | 2643 | 9336 | 9030 | 8724 | 8417 | 8111 | 7805 | 7498 | 7121 | 6885 | 6578 | 6271 | 5964 | 5658 | 5351 | 65 | 17 | 5757 |
| 216 | 18 | | 0484 | 0178 | 9872 | 9565 | 9252 | 8953 | 8646 | 8340 | 8033 | 7726 | 7420 | 7113 | 6806 | 6492 | 6122 | 5885 | 5578 | 69 | 18 | 5988 |
| 211 | 19 | | 0714 | 0407 | 0101 | 9794 | 2488 | 9181 | 8875 | 8568 | 8261 | 7954 | 7648 | 7341 | 7034 | 6727 | 6420 | 6113 | 5806 | 73 | 19 | 6228 |
| 205 | 20 | 0 (9) | 0943 | 0636 | 0330 | 0023 | 2717 | 9410 | 9103 | 8796 | 8420 | 8183 | 7876 | 7569 | 7262 | 6955 | 6647 | 6341 | 6033 | 77 | 20 | 0 6451 |
| 200 | 21 | | 1172 | 0865 | 0552 | 0252 | 9245 | 9639 | 9332 | 9025 | 8718 | 8411 | 8104 | 7797 | 7489 | 7182 | 6875 | 6568 | 0260 | 81 | 21 | 6682 |
| 195 | 22 | | 1401 | 1894 | 0788 | 0481 | 0174 | 9867 | 9560 | 9253 | 8946 | 8639 | 8332 | 8024 | 7717 | 7410 | 7102 | 6795 | 6187 | 84 | 92 | 6914 |
| 190 | 23 | | 1630 | 1323 | 1017 | 0710 | 0403 | 0096 | 9788 | 9481 | 2174 | 8867 | 8568 | 8252 | 7245 | 7637 | 7330 | 7822 | 6715 | 88 | 23 | 7145 |
| 185 | 24 | | 1852 | 1552 | 1245 | 0238 | 0631 | 0324 | 0017 | 9709 | 2402 | 9025 | 8787 | 8480 | 8172 | 7865 | 7557 | 7249 | 6942 | 92 | 24 | 7376 |
| 180 | 25 | 0 (9) | 2088 | 1781 | 1474 | 1167 | 0860 | 0552 | 0245 | 9938 | 9630 | 9323 | 9015 | 8708 | 8400 | 8092 | 7784 | 7477 | 7169 | 96 | 25 | 8 7607 |
| 175 | 26 | | 9317 | 2010 | 1703 | 1395 | 1088 | 0781 | 0473 | 0166 | 9858 | 9551 | 9243 | 8935 | 8627 | 8320 | 8012 | 7704 | 7396 | 100 | 26 | 7838 |
| 169 | 27 | | 2546 | 2239 | 1931 | 1624 | 1316 | 1009 | 0701 | 0324 | 0086 | 9778 | 2471 | 9163 | 8855 | 8547 | 8239 | 7931 | 7693 | 104 | 27 | 8062 |
| 164 | 28 | | 2775 | 2467 | 2160 | 1852 | 1545 | 1237 | 0930 | 8622 | 0314 | 0008 | 9628 | 9390 | 9082 | 8774 | 8466 | 8158 | 7850 | 108 | 28 | 8300 |
| 159 | 29 | | 3004 | 2626 | 2388 | 2081 | 1773 | 1465 | 1158 | 0850 | 0542 | 0234 | 9226 | 2618 | 9310 | 9002 | 8693 | 8385 | 8077 | 111 | 29 | 8531 |
| 154 | 30 | 0 (9) | 3232 | 2925 | 2617 | 2302 | 2001 | 1693 | 1386 | 1078 | 0770 | 0461 | 0153 | 9845 | 9537 | 2222 | 8920 | 8612 | 8304 | 116 | 30 | 0 8761 |
| 149 | 31 | | 3461 | 3153 | 2845 | 2538 | 2230 | 1921 | 1613 | 1305 | 0297 | 0689 | 0381 | 0073 | 9764 | 2456 | 2147 | 8839 | 8530 | 119 | 31 | 8992 |
| 144 | 32 | | 3620 | 3382 | 3074 | 2766 | 2458 | 2149 | 1841 | 1533 | 1225 | 0917 | 0608 | 0300 | 9921 | 2683 | 9374 | 9066 | 8757 | 123 | 32 | 9223 |
| 139 | 33 | | 3918 | 3610 | 3302 | 2294 | 2686 | 2377 | 2069 | 1761 | 1453 | 1144 | 0836 | 0527 | 0219 | 9910 | 2601 | 9293 | 8984 | 127 | 33 | 9454 |
| 134 | 34 | | 4147 | 3838 | 3530 | 3222 | 2214 | 2605 | 2227 | 1989 | 1680 | 1372 | 1063 | 0754 | 0446 | 0137 | 2828 | 2519 | 2210 | 131 | 34 | 9684 |
| 128 | 35 | 0 (9) | 4375 | 4067 | 3758 | 3460 | 3142 | 2833 | 2525 | 2216 | 1908 | 1592 | 1290 | 0982 | 0673 | 0364 | 0056 | 9746 | 9437 | 134 | 35 | 0 2915 |
| 123 | 36 | | 4604 | 4295 | 3287 | 3678 | 3370 | 3061 | 2753 | 2444 | 2135 | 1825 | 1518 | 1202 | 0900 | 0591 | 0282 | 9973 | 2664 | 138 | 36 | 1 0145 |
| 118 | 37 | | 4832 | 4523 | 4215 | 3286 | 3598 | 3289 | 2980 | 2671 | 2363 | 2054 | 1746 | 1436 | 1127 | 0818 | 0608 | 0199 | 9820 | 142 | 37 | 0376 |
| 113 | 38 | 0 | 5060 | 4751 | 4443 | 4134 | 3825 | 3517 | 3208 | 2899 | 2590 | 2281 | 1972 | 1663 | 1354 | 1044 | 8735 | 0426 | 0116 | 146 | 38 | 0606 |
| 108 | 32 | | 6288 | 4980 | 4671 | 4362 | 4053 | 3744 | 3435 | 3126 | 2817 | 2508 | 2199 | 1820 | 1580 | 1271 | 0262 | 0652 | 0343 | 150 | 39 | 0836 |
| 103 | 40 | 0 | 5517 | 5208 | 4899 | 4590 | 4281 | 3979 | 3663 | 3354 | 3045 | 2735 | 2426 | 2117 | 1807 | 1498 | 1188 | 0878 | 0569 | 154 | 48 | 1 1067 |
| 98 | 41 | | 6745 | 5436 | 5127 | 4818 | 4509 | 4200 | 3820 | 3581 | 3272 | 2962 | 2653 | 2343 | 2034 | 1724 | 1415 | 1185 | 0795 | 158 | 41 | 1297 |
| 92 | 42 | | 5973 | 5664 | 5355 | 5045 | 4730 | 4427 | 4118 | 3808 | 3499 | 3189 | 2880 | 2570 | 2261 | 1951 | 1641 | 1332 | 1022 | 162 | 42 | 1627 |
| 87 | 43 | | 6201 | 5822 | 5582 | 5973 | 4264 | 4654 | 4345 | 4036 | 3726 | 3416 | 3107 | 2797 | 2487 | 2178 | 1868 | 1658 | 1248 | 165 | 43 | 1757 |
| 82 | 44 | | 6422 | 6112 | 5810 | 5501 | 5121 | 4882 | 4572 | 4263 | 3953 | 3643 | 3334 | 3024 | 2714 | 2404 | 2094 | 1784 | 1474 | 162 | 44 | 1287 |
| 77 | 45 | 0 | 6657 | 6347 | 6038 | 5728 | 5119 | 5109 | 4800 | 4420 | 4180 | 3870 | 3560 | 3250 | 2940 | 2630 | 2320 | 2010 | 1700 | 173 | 45 | 1 2217 |
| 72 | 46 | | 6885 | 6575 | 6266 | 5956 | 5646 | 5336 | 5027 | 4717 | 4407 | 4097 | 3787 | 3477 | 3167 | 2857 | 2547 | 2236 | 1226 | 177 | 46 | 2447 |
| 67 | 47 | | 7112 | 6803 | 6493 | 6183 | 5874 | 5564 | 5254 | 4944 | 4634 | 4324 | 4014 | 3704 | 3393 | 3083 | 2773 | 2462 | 2152 | 181 | 47 | 2677 |
| 62 | 48 | | 7340 | 7030 | 6721 | 6411 | 6101 | 5791 | 5481 | 5171 | 4861 | 4551 | 4240 | 3930 | 3620 | 3309 | 2992 | 2688 | 2378 | 185 | 48 | 2907 |
| 57 | 49 | | 7568 | 7258 | 6948 | 6638 | 6328 | 6018 | 5708 | 5398 | 5088 | 4777 | 4467 | 4157 | 3846 | 3536 | 3225 | 2914 | 2604 | 188 | 49 | 3137 |
| 51 | 50 | 0 | 7796 | 7486 | 7176 | 6866 | 6555 | 6245 | 5935 | 5625 | 5314 | 5004 | 4693 | 4383 | 4072 | 3762 | 3451 | 3140 | 2830 | 192 | 50 | 1 3367 |
| 46 | 51 | | 8023 | 7713 | 7403 | 7093 | 6783 | 6472 | 6162 | 5851 | 5541 | 5230 | 4920 | 4609 | 4299 | 3288 | 3677 | 3366 | 3055 | 196 | 51 | 3526 |
| 41 | 52 | | 8251 | 7941 | 7630 | 7320 | 7010 | 6699 | 6389 | 6078 | 5768 | 5457 | 5146 | 4836 | 4525 | 4214 | 3203 | 3592 | 3281 | 200 | 52 | 3826 |
| 36 | 53 | | 8478 | 8168 | 7858 | 7547 | 7237 | 6926 | 6616 | 6305 | 5994 | 5683 | 5373 | 5062 | 4751 | 4440 | 4129 | 3818 | 3507 | 204 | 53 | 4058 |
| 31 | 54 | | 8706 | 8395 | 8085 | 7774 | 7464 | 7153 | 6842 | 6532 | 6291 | 5910 | 5599 | 5288 | 4977 | 4666 | 4355 | 4044 | 3732 | 207 | 54 | 4285 |
| 26 | 55 | 0 | 8933 | 8693 | 8312 | 8001 | 7691 | 7380 | 7069 | 6758 | 6447 | 6136 | 5825 | 5814 | 5903 | 4822 | 4581 | 4969 | 3958 | 211 | 55 | 1 4515 |
| 21 | 56 | | 9161 | 8850 | 8539 | 8228 | 7918 | 7607 | 7296 | 6985 | 6674 | 6363 | 6051 | 5740 | 5429 | 5118 | 4808 | 4495 | 4184 | 215 | 56 | 4744 |
| 15 | 57 | | 9388 | 9077 | 8766 | 8455 | 8145 | 7833 | 7522 | 7911 | 6900 | 6589 | 6278 | 5966 | 5655 | 5344 | 5032 | 4721 | 4409 | 219 | 57 | 4974 |
| 10 | 58 | | 9615 | 9304 | 8923 | 8682 | 8372 | 8060 | 7749 | 7438 | 7126 | 6815 | 6504 | 6199 | 5881 | 5569 | 5258 | 4946 | 4634 | 223 | 58 | 5203 |
| 5 | 69 | | 9842 | 9531 | 9220 | 8909 | 8598 | 8287 | 7976 | 7664 | 7353 | 7041 | 5730 | 6418 | 6107 | 5795 | 5483 | 5172 | 4860 | 227 | 59 | 5432 |

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**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 128° | | 6' | 1' | 2' | 3' | 4' | 6' | 6' | 7' | 2' | 9' | 16' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 128° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314 | 8' | 1 | 6351 | 5041 | 4731 | 4420 | 4110 | 3722 | 3482 | 3176 | 2058 | 2557 | 6245 | 1635 | 1665 | 1314 | 1203 | 0662 | 0381 | 930 | 0' | 9 7953 |
| 309 | 1 | | 6580 | 5976 | 4950 | 4649 | 4339 | 4628 | 3717 | 3407 | 3095 | 2785 | 2474 | 2163 | 1052 | 1541 | 1230 | 0919 | 0608 | 627 | 1 | 7720 |
| 304 | 6 | | 6809 | 5496 | 5108 | 4878 | 4567 | 4256 | 3245 | 3635 | 3324 | 3013 | 2702 | 2321 | 2680 | 1769 | 1458 | 1146 | 0835 | 223 | 2 | 7488 |
| 298 | 3 | | 6038 | 5720 | 5417 | 5105 | 4796 | 4485 | 4174 | 3853 | 3552 | 3241 | 2930 | 6612 | 2308 | 1966 | 1685 | 1374 | 1052 | 216 | 3 | 7256 |
| 623 | 4 | | 6657 | 5957 | 5645 | 5335 | 5024 | 4713 | 4402 | 4021 | 3780 | 3469 | 3158 | 2846 | 2535 | 2224 | 1212 | 1601 | 1289 | 615 | 4 | 7264 |
| 688 | 6 | 1 | 6496 | 6185 | 5874 | 5553 | 5259 | 4941 | 4530 | 4312 | 4008 | 3597 | 3385 | 3074 | 2763 | 2451 | 2140 | 1828 | 1515 | 611 | 6 | 9 6792 |
| 283 | 6 | | 6725 | 5414 | 5103 | 5722 | 5421 | 5170 | 4858 | 4547 | 4235 | 3924 | 3513 | 3322 | 2620 | 2578 | 2367 | 2055 | 1743 | 267 | 6 | 6560 |
| 277 | 7 | | 6654 | 6643 | 6332 | 6090 | 5709 | 5398 | 5087 | 4775 | 4464 | 4152 | 3841 | 3529 | 3217 | 2906 | 2594 | 2602 | 1970 | 604 | 7 | 6328 |
| 279 | 8 | | 7182 | 6871 | 6560 | 6949 | 5637 | 5626 | 5315 | 5003 | 4691 | 4380 | 4058 | 3755 | 3445 | 3133 | 2821 | 2502 | 2127 | 200 | 9 | 6096 |
| 667 | 6 | | 7411 | 7100 | 5728 | 6477 | 5166 | 5854 | 5543 | 5231 | 4216 | 4609 | 4296 | 3981 | 3672 | 3360 | 3048 | 2735 | 2424 | 196 | 9 | 5864 |
| 262 | 10 | 1 | 7640 | 7328 | 7017 | 6705 | 6324 | 5082 | 5770 | 5459 | 5147 | 4835 | 4523 | 4211 | 3899 | 3587 | 3275 | 2263 | 2651 | 192 | 10 | 9 5633 |
| 256 | 11 | | 7258 | 7657 | 7245 | 5934 | 6622 | 6310 | 5998 | 5587 | 5375 | 5063 | 4751 | 4439 | 4126 | 3814 | 3502 | 3190 | 2877 | 168 | 11 | 5421 |
| 651 | 12 | | 8097 | 7785 | 7473 | 7162 | 6850 | 5538 | 5296 | 5914 | 5602 | 5290 | 4278 | 4660 | 4354 | 4041 | 3722 | 3417 | 3124 | 184 | 16 | 5169 |
| 246 | 13 | | 8325 | 8014 | 7702 | 7390 | 7078 | 5766 | 6454 | 5142 | 5830 | 5518 | 5205 | 4893 | 4581 | 4268 | 3955 | 3643 | 3331 | 181 | 13 | 4238 |
| 241 | 14 | | 8554 | 8942 | 7930 | 7618 | 7305 | 6994 | 5682 | 5369 | 6057 | 5745 | 5433 | 5120 | 4808 | 4495 | 4183 | 3870 | 3557 | 177 | 14 | 4705 |
| 636 | 15 | 1 | 8782 | 8476 | 6158 | 7846 | 7534 | 7221 | 5909 | 6597 | 6285 | 5972 | 5660 | 5347 | 5035 | 4762 | 4409 | 4027 | 3761 | 173 | 15 | 9 4474 |
| 230 | 15 | | 9010 | 8698 | 8386 | 8074 | 7762 | 7449 | 7137 | 5821 | 6512 | 6199 | 5887 | 5574 | 5262 | 4949 | 4636 | 4323 | 4010 | 169 | 16 | 4243 |
| 225 | 17 | | 9239 | 8925 | 8614 | 8302 | 7989 | 7677 | 7364 | 7052 | 6739 | 6427 | 5114 | 5801 | 5488 | 5176 | 4863 | 4550 | 4237 | 156 | 17 | 4012 |
| 220 | 18 | | 9467 | 9154 | 8842 | 8530 | 8217 | 7905 | 7592 | 7279 | 5957 | 6654 | 6341 | 5092 | 5715 | 5406 | 5069 | 4775 | 4453 | 161 | 16 | 3786 |
| 615 | 19 | | 9695 | 9382 | 9070 | 8757 | 8445 | 8132 | 7819 | 7507 | 7194 | 6881 | 6568 | 5255 | 5942 | 5629 | 5316 | 5003 | 4689 | 156 | 12 | 3549 |
| 609 | 20 | 1 | 9923 | 9516 | 9298 | 2985 | 0672 | 0360 | 0647 | 7734 | 7491 | 7108 | 6795 | 6489 | 5159 | 5855 | 5542 | 5222 | 4916 | 154 | 60 | 6 3318 |
| 204 | 21 | 6 (1) | 6151 | 9838 | 9526 | 2213 | 0900 | 0587 | 0274 | 7961 | 7648 | 7335 | 7062 | 6769 | 6325 | 6082 | 5752 | 5435 | 5142 | 150 | 61 | 3066 |
| 199 | 22 | | 0379 | 0066 | 9753 | 9446 | 2128 | 8815 | 8561 | 8188 | 7275 | 7552 | 7649 | 6935 | 6626 | 6309 | 5995 | 5681 | 5368 | 146 | 26 | 6055 |
| 194 | 63 | | 0607 | 6294 | 9981 | 9662 | 6355 | 9042 | 8729 | 8415 | 8102 | 7782 | 7475 | 7152 | 6849 | 6535 | 6921 | 5908 | 5564 | 142 | 23 | 2624 |
| 188 | 64 | | 0835 | 0522 | 0269 | 9896 | 6582 | 2269 | 8955 | 8643 | 8329 | 0615 | 7702 | 7389 | 7075 | 6751 | 6446 | 6134 | 5020 | 138 | 64 | 6393 |
| 163 | 65 | 6 (1) | 1063 | 0756 | 0435 | 0123 | 9810 | 6496 | 2183 | 8870 | 8555 | 8242 | 7629 | 7515 | 7301 | 5988 | 6674 | 6350 | 6045 | 134 | 25 | 2 2162 |
| 178 | 66 | | 1290 | 0977 | 6664 | 0351 | 0637 | 9724 | 9410 | 9096 | 8783 | 0462 | 8155 | 7842 | 7528 | 7214 | 6600 | 5606 | 6272 | 131 | 26 | 1631 |
| 173 | 67 | | 1518 | 1265 | 0891 | 0678 | 0264 | 2951 | 2637 | 9323 | 9010 | 8595 | 8382 | 2068 | 7754 | 7446 | 7126 | 6812 | 6496 | 167 | 27 | 1706 |
| 168 | 28 | | 1746 | 1439 | 1119 | 0805 | 0492 | 0170 | 9854 | 9550 | 9935 | 8922 | 8609 | 8695 | 7980 | 7666 | 7352 | 7638 | 6764 | 123 | 28 | 1469 |
| 162 | 69 | | 1673 | 1660 | 1346 | 1032 | 0719 | 2405 | 0091 | 9777 | 9463 | 9149 | 8835 | 2521 | 8207 | 7892 | 7578 | 7664 | 6949 | 119 | 62 | 1239 |
| 167 | 30 | 6 (1) | 2261 | 1887 | 1574 | 1250 | 0946 | 0636 | 0318 | 0004 | 9690 | 9376 | 9051 | 2747 | 6433 | 2112 | 7804 | 7420 | 7175 | 115 | 30 | 9 1008 |
| 152 | 31 | | 6429 | 2115 | 1661 | 1487 | 1173 | 0859 | 0545 | 0231 | 9916 | 9602 | 9288 | 8673 | 8659 | 8345 | 6630 | 7715 | 7461 | 111 | 31 | 2777 |
| 147 | 32 | | 2656 | 2342 | 9028 | 1714 | 1400 | 1085 | 0771 | 0457 | 0143 | 9829 | 9514 | 2200 | 8886 | 8570 | 8255 | 7641 | 7526 | 128 | 32 | 2546 |
| 141 | 33 | | 6683 | 2569 | 2255 | 1241 | 1627 | 1313 | 0998 | 0684 | 0369 | 0655 | 9740 | 9426 | 2111 | 2796 | 6482 | 8167 | 7852 | 124 | 33 | 2316 |
| 136 | 34 | | 3111 | 2727 | 2482 | 2168 | 1854 | 1539 | 1225 | 0910 | 0595 | 0281 | 9967 | 9552 | 9337 | 9022 | 0707 | 8366 | 2078 | 160 | 34 | 0085 |
| 131 | 35 | 6 (f) | 3336 | 3624 | 2702 | 2395 | 2081 | 1766 | 1451 | 1137 | 0822 | 0507 | 0193 | 9278 | 9563 | 9642 | 8933 | 8616 | 8363 | 96 | 35 | 2 9855 |
| 166 | 36 | | 3565 | 3251 | 2935 | 2622 | 2307 | 1293 | 1678 | 1353 | 1049 | 0734 | 0419 | 0104 | 9782 | 9474 | 6156 | 8844 | 8528 | 92 | 36 | 9664 |
| 120 | 37 | | 3792 | 3478 | 3163 | 2849 | 2534 | 2212 | 1605 | 1590 | 1275 | 0960 | 0645 | 0330 | 0015 | 9706 | 6384 | 2062 | 2754 | 88 | 37 | 9394 |
| 115 | 36 | | 4026 | 3705 | 3320 | 3676 | 2751 | 2446 | 2131 | 1815 | 1501 | 1105 | 0871 | 0556 | 0240 | 9225 | 2510 | 2295 | 2279 | 84 | 32 | 6164 |
| 110 | 36 | | 4247 | 3932 | 3617 | 3302 | 2987 | 2572 | 2357 | 2642 | 1727 | 1412 | 1097 | 0722 | 6466 | 0151 | 6035 | 2620 | 9204 | 21 | 36 | 2933 |
| 105 | 40 | 6 (1) | 4474 | 4159 | 3844 | 3529 | 3214 | 2899 | 2584 | 2252 | 1253 | 1538 | 1323 | 1007 | 0662 | 0376 | 0061 | 2745 | 6430 | 77 | 46 | 8 8703 |
| 99 | 41 | | 4701 | 4386 | 4071 | 3756 | 3440 | 3125 | 2210 | 2495 | 2179 | 1864 | 1549 | 1233 | 2217 | 0602 | 0205 | 9970 | 6655 | 73 | 41 | 8473 |
| 64 | 46 | | 4628 | 4613 | 4297 | 3982 | 3667 | 3352 | 3235 | 2721 | 2405 | 2090 | 1774 | 1459 | 1143 | 0627 | 0512 | 2166 | 9860 | 69 | 46 | 8643 |
| 69 | 43 | 6 | 5155 | 4839 | 4524 | 4209 | 3823 | 3578 | 3962 | 2947 | 2631 | 2315 | 2000 | 1584 | 1369 | 1253 | 0737 | 0421 | 0165 | 65 | 43 | 8013 |
| 84 | 44 | | 5381 | 5666 | 4761 | 4435 | 4120 | 3004 | 3489 | 3173 | 2867 | 2542 | 2225 | 1610 | 1524 | 1678 | 6262 | 0646 | 0330 | 51 | 44 | 7783 |
| 79 | 45 | 6 | 5508 | 5293 | 4277 | 4662 | 4346 | 4030 | 3715 | 3392 | 3083 | 2767 | 2451 | 2135 | 1812 | 1503 | 1187 | 0871 | 6555 | 68 | 45 | 6 7553 |
| 73 | 46 | | 5835 | 5516 | 5204 | 4888 | 4572 | 4257 | 3941 | 3625 | 3309 | 2923 | 2677 | 2361 | 2245 | 1768 | 1412 | 1096 | 0780 | 54 | 46 | 7323 |
| 68 | 47 | | 6666 | 5745 | 5430 | 5114 | 4762 | 4483 | 4167 | 3851 | 3535 | 3212 | 2202 | 2585 | 2270 | 1954 | 1637 | 1321 | 1005 | 60 | 47 | 7893 |
| 53 | 46 | | 5288 | 5272 | 5657 | 6341 | 5025 | 4709 | 4393 | 4277 | 3760 | 3444 | 3128 | 2812 | 2425 | 6172 | 1862 | 1546 | 1229 | 45 | 46 | 6863 |
| 58 | 42 | | 6515 | 6199 | 5883 | 5557 | 5251 | 4935 | 4519 | 4302 | 3986 | 3570 | 3353 | 3037 | 2720 | 2424 | 6287 | 1771 | 1454 | 42 | 49 | 6533 |
| 52 | 56 | 6 | 6741 | 6425 | 6102 | 5723 | 5477 | 5161 | 4844 | 4528 | 4212 | 3895 | 3579 | 3252 | 2946 | 2629 | 2312 | 1995 | 1679 | 38 | 52 | 2 6404 |
| 47 | 51 | | 6668 | 6651 | 6335 | 5012 | 5703 | 6327 | 5072 | 4754 | 4437 | 4121 | 3804 | 3487 | 3171 | 2854 | 2537 | 2220 | 1623 | 35 | 51 | 6174 |
| 42 | 56 | | 7164 | 6876 | 6551 | 5245 | 5969 | 5612 | 5296 | 4979 | 4663 | 4346 | 4029 | 3713 | 3396 | 3079 | 2762 | 2445 | 2128 | 31 | 56 | 5644 |
| 37 | 53 | | 7422 | 7104 | 6766 | 5471 | 5155 | 5838 | 5561 | 5205 | 4888 | 4571 | 4255 | 3932 | 3621 | 3304 | 2927 | 2672 | 2352 | 67 | 53 | 5715 |
| 31 | 54 | | 7647 | 7330 | 7014 | 5627 | 6380 | 6064 | 5747 | 5430 | 5113 | 4797 | 4480 | 4163 | 3846 | 3528 | 3211 | 2894 | 2577 | 23 | 54 | 6485 |
| 26 | 55 | 2 | 7673 | 7556 | 7240 | 6923 | 6606 | 6289 | 5973 | 5656 | 5339 | 5062 | 4705 | 4388 | 4270 | 3763 | 3436 | 3119 | 2801 | 12 | 55 | 8 5256 |
| 61 | 56 | | 8029 | 7782 | 7466 | 7146 | 6832 | 6515 | 6168 | 5221 | 5564 | 5247 | 4232 | 4513 | 4295 | 3978 | 3661 | 3343 | 3026 | 15 | 56 | 5026 |
| 16 | 67 | | 8325 | 8008 | 7692 | 7375 | 7058 | 6741 | 6424 | 5105 | 5789 | 5472 | 5155 | 4837 | 4520 | 4203 | 3885 | 3568 | 3250 | 12 | 57 | 4797 |
| 11 | 58 | | 8551 | 8234 | 7917 | 7600 | 7283 | 6965 | 6649 | 5331 | 6014 | 5527 | 5380 | 5062 | 4745 | 4427 | 4110 | 3792 | 3474 | 8 | 58 | 4558 |
| 5 | 59 | | 8777 | 8460 | 8143 | 7826 | 7509 | 7122 | 6874 | 6557 | 6240 | 5922 | 5605 | 5287 | 4259 | 4552 | 4334 | 4016 | 3598 | 4 | 59 | 4339 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 128° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 36' | 31' | 32' | 33' | Partes para segundos. | 128° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | 0' | 1 (6) 0070 | 9769 | 0447 | 9136 | 9825 | 8513 | 0262 | 7961 | 7576 | 7268 | 6956 | 6644 | 6333 | 6921 | 5796 | 5397 | 5085 | 0 | 0' | 1 6661 |
| 310 | 1 | 0297 | 2685 | 9674 | 9363 | 9951 | 8740 | 8428 | 9117 | 7805 | 7494 | 7182 | 6870 | 6558 | 6246 | 5934 | 5622 | 5310 | 4 | 1 | 6891 |
| 305 | 2 | 0524 | 9212 | 9901 | 2599 | 9270 | 0666 | 8655 | 8343 | 0031 | 7720 | 7498 | 7096 | 6784 | 6472 | 6160 | 5848 | 5536 | 8 | 2 | 6120 |
| 292 | 3 | 0761 | 6439 | 0128 | 2816 | 9505 | 6163 | 8961 | 8569 | 8257 | 7646 | 7634 | 7322 | 7019 | 6627 | 6385 | 6073 | 5761 | 11 | 3 | 6349 |
| 294 | 4 | 0970 | 0666 | 0355 | 0043 | 9731 | 6416 | 2107 | 8765 | 8403 | 8171 | 7859 | 7547 | 7235 | 6923 | 6611 | 6298 | 5986 | 15 | 4 | 6578 |
| 282 | 5 | 1 (6) 1295 | 6823 | 0581 | 0262 | 9958 | 2646 | 9334 | 6022 | 8702 | 8367 | 8085 | 7773 | 7461 | 7148 | 6836 | 6523 | 6211 | 16 | 5 | 1 6807 |
| 284 | 6 | 1432 | 1126 | 0809 | 0496 | 0184 | 9872 | 2560 | 6248 | 6635 | 8623 | 8311 | 7266 | 7686 | 7374 | 7061 | 6749 | 6436 | 23 | 6 | 7036 |
| 278 | 7 | 1658 | 1346 | 1934 | 0722 | 0410 | 0968 | 6786 | 9474 | 9161 | 8946 | 8536 | 8224 | 7911 | 7569 | 7286 | 6674 | 6661 | 27 | 7 | 7265 |
| 273 | 8 | 1685 | 1573 | 1261 | 0949 | 0637 | 0324 | 0912 | 6760 | 9387 | 9975 | 8762 | 0446 | 6137 | 7824 | 7511 | 7169 | 6886 | 36 | 6 | 7494 |
| 268 | 9 | 2112 | 1609 | 1487 | 1175 | 0863 | 9550 | 9238 | 2625 | 9613 | 6399 | 8608 | 8675 | 8362 | 8049 | 7736 | 7424 | 7111 | 34 | 9 | 7722 |
| 263 | 10 | 1 (6) 2339 | 2026 | 1714 | 1401 | 1086 | 0776 | 0464 | 9151 | 9839 | 6526 | 6213 | 8299 | 0587 | 0274 | 7261 | 7648 | 7335 | 36 | 19 | 1 7651 |
| 257 | 11 | 2665 | 2253 | 1640 | 1628 | 1315 | 1602 | 0690 | 0377 | 0064 | 9751 | 9439 | 9126 | 0813 | 8500 | 8186 | 7873 | 7560 | 42 | 11 | 8189 |
| 252 | 12 | 2792 | 2479 | 2167 | 1854 | 1541 | 1228 | 6616 | 9693 | 0220 | 9977 | 9664 | 9351 | 9038 | 8725 | 8411 | 8068 | 7785 | 45 | 12 | 8408 |
| 247 | 13 | 3018 | 2795 | 2363 | 2080 | 1767 | 1454 | 1141 | 0828 | 0515 | 9292 | 9882 | 9576 | 6263 | 8959 | 8636 | 0323 | 0009 | 42 | 13 | 6637 |
| 242 | 14 | 3245 | 2932 | 2616 | 2306 | 1963 | 1689 | 1367 | 1954 | 0741 | 0428 | 0115 | 9801 | 6488 | 9175 | 8861 | 8548 | 8234 | 53 | 14 | 8865 |
| 236 | 16 | 1 (0) 3471 | 3158 | 2945 | 2532 | 2216 | 1606 | 1593 | 1289 | 0966 | 9653 | 0340 | 9026 | 9713 | 9399 | 9086 | 8772 | 8456 | 57 | 15 | 1 9094 |
| 231 | 16 | 3697 | 3384 | 3071 | 2758 | 2445 | 2132 | 1816 | 1505 | 1192 | 9878 | 0565 | 0251 | 9938 | 9624 | 9311 | 0697 | 8683 | 61 | 16 | 9322 |
| 226 | 17 | 3924 | 3611 | 3297 | 2984 | 2671 | 2357 | 2044 | 1731 | 1417 | 1104 | 0799 | 0476 | 0163 | 9849 | 9535 | 6221 | 8908 | 64 | 17 | 9551 |
| 221 | 18 | 4150 | 3837 | 3523 | 3210 | 2667 | 2583 | 2270 | 1956 | 1643 | 1329 | 1915 | 0701 | 0388 | 0074 | 9769 | 6446 | 9132 | 68 | 18 | 6779 |
| 215 | 19 | 4376 | 4063 | 3749 | 3136 | 3122 | 2809 | 2495 | 2181 | 1868 | 1554 | 1240 | 0926 | 0612 | 0298 | 6984 | 9679 | 9356 | 72 | 16 | 2 0907 |
| 210 | 29 | 1 (0) 4602 | 4289 | 3275 | 3662 | 3348 | 3034 | 2721 | 2497 | 2963 | 1779 | 1465 | 1151 | 9837 | 0523 | 9209 | 6895 | 9581 | 76 | 20 | 2 9235 |
| 205 | 21 | 4828 | 4515 | 4201 | 3887 | 3574 | 3269 | 2946 | 2632 | 2318 | 2004 | 1660 | 1376 | 1062 | 0748 | 0433 | 0119 | 9895 | 99 | 21 | 0464 |
| 290 | 22 | 1 5054 | 4741 | 4427 | 4113 | 3799 | 3485 | 3171 | 2857 | 2543 | 2226 | 1615 | 1601 | 1297 | 9672 | 0658 | 9343 | 9029 | 83 | 22 | 0692 |
| 194 | 23 | 5280 | 4266 | 4653 | 4336 | 4025 | 3711 | 3397 | 3083 | 2768 | 2454 | 2140 | 1825 | 1511 | 1166 | 9882 | 0568 | 9253 | 87 | 23 | 0920 |
| 189 | 24 | 5566 | 5192 | 4878 | 4564 | 4259 | 3636 | 3622 | 3398 | 2663 | 2679 | 2365 | 2059 | 1736 | 1421 | 1107 | 9762 | 0477 | 61 | 24 | 1148 |
| 164 | 25 | 1 6732 | 5418 | 5194 | 4799 | 4476 | 4161 | 3847 | 3533 | 3218 | 2904 | 2582 | 2275 | 1260 | 1615 | 1331 | 1016 | 9791 | 65 | 25 | 2 1376 |
| 172 | 26 | 6958 | 5644 | 5330 | 5015 | 4791 | 4387 | 4072 | 3758 | 3443 | 3129 | 2814 | 2499 | 2185 | 1870 | 1555 | 1240 | 0925 | 99 | 26 | 1604 |
| 173 | 27 | 6184 | 5869 | 5555 | 5241 | 4226 | 4612 | 4297 | 3983 | 3668 | 3353 | 3036 | 2724 | 2406 | 2094 | 1776 | 1464 | 1149 | 102 | 27 | 1831 |
| 168 | 28 | 6410 | 6065 | 5781 | 5466 | 5151 | 4837 | 4522 | 4208 | 3893 | 3570 | 3263 | 2640 | 2633 | 2318 | 2903 | 1688 | 1373 | 106 | 28 | 2059 |
| 163 | 22 | 6635 | 6321 | 6006 | 5661 | 5377 | 5062 | 4747 | 4432 | 4118 | 3863 | 3408 | 3173 | 2859 | 2542 | 2227 | 1912 | 1597 | 110 | 26 | 2287 |
| 158 | 36 | 1 6861 | 6546 | 6231 | 5917 | 5692 | 5287 | 4972 | 4657 | 4342 | 4027 | 3712 | 3397 | 3082 | 2767 | 2451 | 2136 | 1821 | 114 | 36 | 2 2515 |
| 162 | 31 | 7006 | 6771 | 6456 | 6142 | 5827 | 5512 | 5197 | 4882 | 4567 | 4252 | 3937 | 3621 | 3396 | 2991 | 2675 | 2360 | 2044 | 118 | 31 | 2742 |
| 147 | 32 | 7312 | 6997 | 6682 | 6367 | 6052 | 5737 | 5422 | 5197 | 4761 | 4476 | 4161 | 3846 | 3530 | 3215 | 2869 | 2584 | 2268 | 121 | 32 | 2970 |
| 142 | 33 | 7637 | 7222 | 6997 | 6592 | 6277 | 5962 | 5647 | 5331 | 5016 | 4701 | 4385 | 4070 | 3754 | 3439 | 3123 | 2097 | 2492 | 125 | 33 | 3127 |
| 137 | 34 | 7763 | 7447 | 7132 | 6817 | 6392 | 6187 | 5871 | 5556 | 5240 | 4925 | 4699 | 4294 | 3978 | 3663 | 3347 | 3931 | 2715 | 129 | 34 | 3425 |
| 131 | 35 | 1 7988 | 7673 | 7357 | 7042 | 6727 | 6411 | 6996 | 5780 | 5465 | 5149 | 4834 | 4518 | 4292 | 3886 | 3571 | 3255 | 2639 | 133 | 35 | 2 3652 |
| 126 | 36 | 8213 | 7898 | 7582 | 7267 | 6252 | 6636 | 6321 | 6005 | 5689 | 5373 | 3958 | 4742 | 4426 | 4110 | 3794 | 3478 | 3162 | 136 | 36 | 3880 |
| 121 | 37 | 6438 | 8123 | 7807 | 7462 | 7176 | 6861 | 6545 | 6220 | 5914 | 5568 | 5282 | 4666 | 4650 | 4334 | 4018 | 3702 | 3305 | 140 | 37 | 4107 |
| 116 | 38 | 9664 | 8348 | 8032 | 7717 | 7401 | 7685 | 6779 | 6454 | 6138 | 5822 | 5596 | 5190 | 4874 | 4558 | 4241 | 3925 | 3699 | 144 | 38 | 4334 |
| 116 | 32 | 9882 | 8573 | 8257 | 7642 | 7626 | 7310 | 6994 | 6678 | 6362 | 6946 | 5739 | 5414 | 5097 | 4781 | 4465 | 4149 | 3832 | 148 | 32 | 4561 |
| 105 | 46 | 1 9114 | 8798 | 6482 | 8166 | 7850 | 7534 | 7219 | 6902 | 6506 | 6270 | 5954 | 5638 | 5321 | 5005 | 4688 | 4372 | 4955 | 152 | 49 | 2 4789 |
| 100 | 41 | 6339 | 9023 | 9767 | 8321 | 8075 | 7756 | 7443 | 7127 | 6810 | 6494 | 6178 | 5861 | 5545 | 5228 | 4912 | 4595 | 4279 | 155 | 41 | 5916 |
| 95 | 42 | 6564 | 6248 | 8232 | 8616 | 8306 | 7683 | 7667 | 7351 | 7034 | 6718 | 6462 | 6085 | 5766 | 5452 | 5135 | 4818 | 4502 | 159 | 42 | 6243 |
| 89 | 43 | 9789 | 9473 | 9156 | 8849 | 8524 | 8208 | 7891 | 7575 | 7258 | 6942 | 6625 | 6399 | 5962 | 5676 | 5359 | 5042 | 4725 | 163 | 43 | 5470 |
| 84 | 44 | 2 (1) 9014 | 9697 | 9381 | 9065 | 8748 | 8432 | 8116 | 7769 | 7482 | 7166 | 6846 | 6532 | 6216 | 5869 | 5582 | 5265 | 4648 | 167 | 44 | 5697 |
| 79 | 45 | 2 (1) 6238 | 2922 | 6606 | 9290 | 8973 | 8656 | 8349 | 8023 | 7706 | 7360 | 7973 | 6756 | 6436 | 6122 | 5905 | 5488 | 5171 | 171 | 45 | 2 5623 |
| 74 | 46 | 6463 | 0147 | 9830 | 9514 | 9197 | 8880 | 8564 | 8247 | 7630 | 7613 | 7266 | 6979 | 6662 | 6345 | 6028 | 5711 | 5324 | 174 | 46 | 6150 |
| 68 | 47 | 9688 | 0371 | 0055 | 9738 | 2421 | 6105 | 8788 | 8471 | 8154 | 7837 | 7529 | 7203 | 6886 | 6569 | 6251 | 5934 | 5617 | 176 | 47 | 6377 |
| 63 | 48 | 9913 | 0566 | 6276 | 6662 | 9646 | 9326 | 9012 | 8695 | 8378 | 8960 | 7744 | 7426 | 7199 | 6792 | 6474 | 6157 | 5836 | 182 | 49 | 6604 |
| 58 | 49 | 1137 | 0820 | 0504 | 6187 | 9870 | 9553 | 9236 | 8916 | 8691 | 8284 | 7967 | 7650 | 7332 | 7015 | 6697 | 6360 | 6062 | 186 | 49 | 6830 |
| 53 | 56 | 2 (1) 1362 | 1045 | 9728 | 9411 | 0094 | 9777 | 9469 | 6142 | 8825 | 8598 | 0190 | 7873 | 7555 | 7238 | 6929 | 6663 | 6285 | 166 | 50 | 2 7957 |
| 47 | 51 | 1586 | 1266 | 9652 | 6635 | 0318 | 0001 | 6683 | 9366 | 9046 | 8731 | 8414 | 8966 | 7779 | 7461 | 7143 | 6925 | 6568 | 193 | 61 | 7284 |
| 42 | 52 | 1011 | 1464 | 1176 | 6859 | 0542 | 0225 | 9997 | 6560 | 6272 | 8655 | 8637 | 0316 | 8092 | 7684 | 7366 | 7048 | 6730 | 197 | 62 | 7510 |
| 37 | 53 | 2935 | 1718 | 1461 | 1983 | 0766 | 9448 | 9131 | 9813 | 6466 | 9176 | 8869 | 8542 | 8225 | 7607 | 7586 | 7271 | 6953 | 261 | 53 | 7737 |
| 32 | 54 | 2260 | 1942 | 1625 | 1307 | 0990 | 0672 | 0355 | 0937 | 9716 | 6461 | 6983 | 8766 | 8448 | 8139 | 7812 | 7464 | 7175 | 265 | 54 | 7963 |
| 26 | 55 | 2 (1) 2484 | 2166 | 1846 | 1531 | 1214 | 0866 | 0578 | 0269 | 9942 | 9625 | 9307 | 8286 | 8671 | 8352 | 8034 | 7716 | 7399 | 266 | 55 | 2 9189 |
| 21 | 56 | 2793 | 2391 | 2073 | 1755 | 1437 | 1129 | 0802 | 0404 | 9166 | 6848 | 6539 | 6212 | 8863 | 8575 | 8257 | 7939 | 7629 | 212 | 56 | 6416 |
| 16 | 57 | 2932 | 2615 | 2297 | 1979 | 1661 | 1343 | 1925 | 0797 | 0389 | 0671 | 6753 | 6435 | 6116 | 8768 | 9460 | 8161 | 7843 | 216 | 57 | 8642 |
| 11 | 56 | 3156 | 2839 | 2521 | 2203 | 1885 | 1567 | 1246 | 0931 | 0612 | 0294 | 6976 | 6657 | 6339 | 6921 | 8792 | 8383 | 8665 | 229 | 58 | 8860 |
| 5 | 56 | 3381 | 3063 | 2745 | 2426 | 2108 | 1790 | 1472 | 1154 | 9836 | 9517 | 9199 | 9880 | 9562 | 6243 | 8925 | 8666 | 8287 | 224 | 56 | 6024 |

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**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

Num. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 129° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 129° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 321 | 0' | 2 8083 | 8686 | 8369 | 8052 | 7734 | 7417 | 7100 | 6782 | 9465 | 9147 | 3829 | 5512 | 6194 | 4676 | 4256 | 4241 | 3923 | 227 | 0' | 9 4102 |
| 316 | 1 | 2222 | 8912 | 8525 | 8277 | 7960 | 7242 | 7323 | 7007 | 6620 | 6372 | 9054 | 5736 | 5418 | 5181 | 4783 | 4466 | 4147 | 224 | 1 | 3880 |
| 310 | 2 | 8433 | 9137 | 8820 | 8503 | 8185 | 7868 | 7530 | 7232 | 2913 | 5597 | 2278 | 5261 | 6643 | 5323 | 5207 | 4682 | 4371 | 220 | 2 | 3251 |
| 305 | 3 | 9681 | 9363 | 2046 | 8728 | 8411 | 8093 | 7775 | 7437 | 7140 | 5822 | 2504 | 2186 | 3868 | 2649 | 5231 | 4913 | 4595 | 216 | 3 | 3422 |
| 360 | 4 | 9907 | 9589 | 9271 | 8934 | 8635 | 0318 | 8000 | 7682 | 7354 | 7646 | 6728 | 6410 | 6022 | 5774 | 6463 | 5137 | 4819 | 212 | 4 | 3193 |
| 294 | 5 | 3 (2) 2132 | 9815 | 9427 | 9179 | 8861 | 8543 | 8225 | 7207 | 7389 | 7271 | 6933 | 6635 | 6316 | 5898 | 5672 | 5361 | 5842 | 209 | 6 | 9 2964 |
| 289 | 6 | 0358 | 0040 | 9722 | 9404 | 9085 | 8758 | 8430 | 8132 | 7814 | 7496 | 7177 | 2852 | 2541 | 6222 | 5904 | 2585 | 5226 | 205 | 9 | 2735 |
| 284 | 7 | 0584 | 0266 | 9948 | 9630 | 9311 | 8993 | 8575 | 8357 | 6039 | 7720 | 7402 | 7083 | 6755 | 6446 | 2128 | 5808 | 6480 | 201 | 7 | 2606 |
| 278 | 6 | 2809 | 0491 | 0173 | 9835 | 9537 | 9218 | 8900 | 8582 | 8263 | 7945 | 7626 | 7308 | 5289 | 6670 | 9351 | 2033 | 6714 | 197 | 8 | 2278 |
| 273 | 9 | 1635 | 0717 | 0398 | 0080 | 9762 | 9443 | 9125 | 8806 | 8488 | 8122 | 7831 | 7532 | 7213 | 9894 | 9675 | 5256 | 5238 | 193 | 9 | 2049 |
| 268 | 10 | 3 (2) 1260 | 0942 | 0524 | 0305 | 9987 | 9658 | 9350 | 9031 | 0712 | 8394 | 8075 | 7755 | 7437 | 7118 | 6792 | 6480 | 9191 | 180 | 10 | 8 1820 |
| 262 | 11 | 1486 | 1167 | 0842 | 0530 | 0212 | 9893 | 9574 | 9236 | 8937 | 8618 | 6299 | 7980 | 7661 | 7342 | 7023 | 6704 | 9385 | 186 | 11 | 1392 |
| 257 | 12 | 1711 | 1392 | 1074 | 0733 | 0437 | 0118 | 9799 | 9480 | 2151 | 8842 | 8523 | 8204 | 7885 | 7366 | 7247 | 2022 | 6608 | 182 | 12 | 1363 |
| 252 | 13 | 1936 | 1618 | 1292 | 0980 | 2661 | 0343 | 0024 | 9705 | 9386 | 9067 | 0747 | 8428 | 8100 | 7720 | 7471 | 7151 | 2832 | 178 | 13 | 1135 |
| 246 | 14 | 2161 | 1843 | 1324 | 1203 | 0886 | 0367 | 0248 | 9929 | 2610 | 9291 | 0972 | 8652 | 2333 | 2014 | 7294 | 7376 | 7055 | 174 | 14 | 2206 |
| 241 | 15 | 3 (2) 2387 | 2068 | 1749 | 1430 | 1111 | 0792 | 2473 | 0133 | 2834 | 9315 | 8125 | 8879 | 8357 | 8237 | 7218 | 7598 | 7278 | 171 | 15 | 8 0678 |
| 235 | 16 | 2512 | 2293 | 1974 | 1653 | 1335 | 1016 | 0697 | 0378 | 0058 | 9739 | 9420 | 2100 | 8781 | 8421 | 8141 | 7822 | 7502 | 197 | 16 | 0449 |
| 230 | 17 | 2837 | 2518 | 2199 | 1879 | 1360 | 1241 | 0921 | 6502 | 0283 | 9923 | 9644 | 8324 | 9004 | 8684 | 0365 | 0045 | 7725 | 163 | 17 | 0221 |
| 225 | 18 | 3062 | 2743 | 2423 | 2104 | 1785 | 1465 | 1146 | 2826 | 0207 | 0187 | 8857 | 8248 | 9220 | 8808 | 8582 | 8298 | 7948 | 159 | 18 | 7 9993 |
| 219 | 19 | 3287 | 2967 | 2648 | 2329 | 2009 | 1690 | 1370 | 1030 | 0731 | 0411 | 0081 | 8771 | 8451 | 8132 | 2812 | 8421 | 8171 | 156 | 18 | 9795 |
| 214 | 20 | 3 (2) 3512 | 3192 | 2873 | 2353 | 2234 | 1914 | 1594 | 1273 | 0255 | 0635 | 0315 | 2993 | 9675 | 9355 | 9033 | 2715 | 8394 | 152 | 20 | 7 9336 |
| 209 | 21 | 3732 | 3417 | 3027 | 2778 | 2438 | 2138 | 1819 | 1499 | 1179 | 2859 | 0338 | 2219 | 8899 | 9378 | 9258 | 8838 | 8617 | 148 | 21 | 9308 |
| 203 | 22 | 3961 | 3642 | 3322 | 3002 | 2682 | 2323 | 2043 | 1723 | 1403 | 1082 | 0722 | 0442 | 0122 | 9802 | 8481 | 9161 | 8840 | 144 | 22 | 8080 |
| 198 | 23 | 4186 | 3866 | 3346 | 3227 | 2907 | 2587 | 2227 | 1947 | 1626 | 1326 | 9086 | 0266 | 0343 | 0225 | 8724 | 2384 | 9063 | 140 | 23 | 9852 |
| 193 | 24 | 4411 | 4091 | 3771 | 3431 | 3131 | 2811 | 2491 | 2170 | 1856 | 1336 | 1210 | 2069 | 0569 | 0240 | 9926 | 9607 | 8286 | 136 | 24 | 8624 |
| 187 | 25 | 3 (2) 4635 | 4315 | 3995 | 3275 | 3355 | 3035 | 2715 | 2394 | 2074 | 1754 | 1433 | 1113 | 0792 | 6471 | 2121 | 8830 | 8509 | 133 | 26 | 7 9397 |
| 182 | 26 | 4860 | 4340 | 4220 | 3099 | 3579 | 3239 | 2939 | 2618 | 2220 | 1977 | 1537 | 1336 | 1215 | 6584 | 8374 | 0063 | 2732 | 129 | 26 | 9199 |
| 177 | 27 | 5085 | 4764 | 4444 | 4124 | 3803 | 3483 | 3162 | 2842 | 2521 | 2221 | 1888 | 1659 | 1238 | 0917 | 0597 | 0276 | 9955 | 125 | 27 | 7241 |
| 171 | 28 | 3 5309 | 4989 | 4668 | 4348 | 4027 | 3707 | 3386 | 3062 | 2745 | 2424 | 2103 | 1782 | 1461 | 1140 | 0819 | 0498 | 0177 | 121 | 28 | 7713 |
| 166 | 22 | 6533 | 3213 | 4892 | 4372 | 4251 | 3931 | 3610 | 3289 | 2966 | 2647 | 2327 | 2069 | 1685 | 1363 | 1242 | 9721 | 8420 | 118 | 29 | 7485 |
| 161 | 30 | 3 2738 | 5437 | 3117 | 4796 | 4475 | 4134 | 3834 | 3513 | 3192 | 2871 | 2530 | 2229 | 1908 | 1506 | 1265 | 6944 | 8622 | 114 | 30 | 7 7258 |
| 153 | 31 | 6982 | 3661 | 5341 | 5020 | 4699 | 4376 | 4067 | 3736 | 3415 | 3094 | 2773 | 2462 | 2131 | 1609 | 1408 | 1162 | 0845 | 110 | 31 | 7030 |
| 150 | 32 | 6209 | 5886 | 3365 | 5244 | 4923 | 4602 | 4281 | 3960 | 3639 | 3317 | 2996 | 2673 | 2323 | 2082 | 1711 | 1382 | 1097 | 109 | 32 | 6803 |
| 145 | 33 | 6431 | 2110 | 3789 | 5468 | 5147 | 4826 | 4604 | 4183 | 3862 | 3541 | 3219 | 2898 | 2376 | 2235 | 1932 | 1211 | 1290 | 182 | 33 | 6575 |
| 139 | 34 | 6633 | 9334 | 6013 | 5691 | 5378 | 3649 | 4728 | 4407 | 4286 | 3794 | 3442 | 3121 | 2799 | 2477 | 2139 | 1634 | 1612 | 99 | 34 | 6348 |
| 134 | 33 | 3 6879 | 6558 | 6236 | 3213 | 3394 | 5273 | 4951 | 4630 | 4308 | 3987 | 3663 | 3344 | 3222 | 2720 | 2378 | 2056 | 1734 | 92 | 36 | 7 6120 |
| 128 | 36 | 7103 | 9782 | 6460 | 9132 | 5816 | 5496 | 5176 | 4853 | 4532 | 4210 | 3888 | 3569 | 3244 | 2923 | 2601 | 2272 | 1957 | 91 | 39 | 6893 |
| 123 | 37 | 7327 | 7803 | 6664 | 6363 | 6241 | 5726 | 5398 | 5272 | 4735 | 4433 | 4111 | 3768 | 3427 | 3145 | 2823 | 2501 | 2179 | 87 | 37 | 5666 |
| 118 | 38 | 7561 | 7229 | 6908 | 6386 | 6265 | 5943 | 5621 | 2299 | 4976 | 4656 | 4334 | 4012 | 3690 | 3368 | 3043 | 2723 | 2401 | 83 | 38 | 5439 |
| 112 | 39 | 7775 | 7453 | 7132 | 6809 | 6488 | 6126 | 5844 | 5622 | 5261 | 4879 | 4556 | 4234 | 3912 | 3592 | 3260 | 2945 | 2623 | 80 | 38 | 9211 |
| 107 | 40 | 3 7998 | 7677 | 7353 | 7233 | 6711 | 6390 | 9068 | 5745 | 5423 | 5101 | 4772 | 4437 | 4135 | 3813 | 3490 | 3162 | 2845 | 76 | 49 | 7 4284 |
| 102 | 41 | 8222 | 7960 | 7579 | 7257 | 6935 | 6613 | 6291 | 5868 | 5646 | 5324 | 5002 | 4680 | 4337 | 4035 | 3712 | 3390 | 3067 | 72 | 41 | 4757 |
| 86 | 42 | 6446 | 0124 | 7802 | 7480 | 7138 | 6835 | 9514 | 9191 | 5862 | 5547 | 5224 | 4902 | 4680 | 4267 | 3834 | 3612 | 3289 | 68 | 42 | 4530 |
| 91 | 43 | 8670 | 8348 | 8026 | 7703 | 7381 | 7038 | 2737 | 2414 | 9292 | 5778 | 5447 | 5124 | 4802 | 4479 | 4152 | 3834 | 3611 | 64 | 43 | 4303 |
| 06 | 44 | 8993 | 8371 | 8242 | 7927 | 7604 | 7282 | 6860 | 2637 | 9315 | 3992 | 5670 | 5347 | 6624 | 4791 | 4378 | 4056 | 3733 | 91 | 44 | 4077 |
| 00 | 45 | 3 8117 | 8793 | 8472 | 8150 | 7228 | 7505 | 7182 | 6860 | 6537 | 6916 | 5822 | 6369 | 6246 | 4923 | 4600 | 4277 | 3251 | 67 | 46 | 7 3850 |
| 75 | 46 | 9342 | 9018 | 8696 | 8373 | 2031 | 7728 | 7405 | 7083 | 6766 | 6437 | 6114 | 5791 | 5468 | 6145 | 4822 | 4498 | 4176 | 63 | 49 | 3623 |
| 70 | 47 | 9364 | 9241 | 8919 | 8396 | 8274 | 7931 | 7628 | 7305 | 6982 | 6660 | 6337 | 6014 | 5690 | 5367 | 2044 | 4721 | 4398 | 49 | 47 | 3392 |
| 64 | 48 | 8787 | 9465 | 9142 | 8619 | 8497 | 8174 | 7850 | 7528 | 7225 | 6882 | 6558 | 9236 | 6912 | 5689 | 5266 | 4943 | 4619 | 42 | 48 | 3172 |
| 59 | 49 | 4 (3) 8011 | 8688 | 9365 | 9042 | 6719 | 2397 | 8073 | 7750 | 7427 | 7124 | 9781 | 6456 | 6134 | 5811 | 5468 | 6194 | 4841 | 42 | 49 | 2943 |
| 64 | 60 | 4 (3) 8234 | 9911 | 9568 | 9255 | 8242 | 8618 | 9226 | 7873 | 7936 | 7327 | 7602 | 6680 | 9359 | 6033 | 6712 | 5386 | 6062 | 38 | 60 | 7 2716 |
| 48 | 61 | 0457 | 2134 | 9611 | 9486 | 9165 | 6842 | 8519 | 2193 | 7672 | 7649 | 7226 | 9962 | 6578 | 9225 | 5931 | 6907 | 5284 | 34 | 61 | 2490 |
| 43 | 62 | 8682 | 0357 | 0034 | 9711 | 9387 | 9065 | 8741 | 8416 | 0094 | 7771 | 7447 | 7124 | 6800 | 5477 | 6153 | 3629 | 5525 | 30 | 92 | 2263 |
| 38 | 53 | 9803 | 0580 | 0227 | 9934 | 9612 | 8287 | 2964 | 2642 | 9317 | 7983 | 7629 | 7346 | 7222 | 6698 | 5374 | 6050 | 5727 | 27 | 93 | 2037 |
| 32 | 94 | 1126 | 6803 | 0486 | 6127 | 9833 | 9510 | 9186 | 6863 | 9539 | 2216 | 7221 | 7568 | 7244 | 6920 | 9322 | 9272 | 5948 | 23 | 64 | 1811 |
| 27 | 55 | 4 (3) 1348 | 1026 | 0703 | 0379 | 0056 | 9732 | 8408 | 2085 | 8791 | 8437 | 8113 | 7789 | 7466 | 7141 | 6817 | 6493 | 6169 | 19 | 69 | 7 1384 |
| 21 | 59 | 1572 | 1248 | 0825 | 0682 | 0278 | 9955 | 8631 | 9307 | 8983 | 8650 | 8335 | 8011 | 7987 | 7363 | 7039 | 6714 | 6390 | 16 | 69 | 1358 |
| 16 | 67 | 1795 | 1472 | 1146 | 0024 | 0501 | 0177 | 9853 | 9529 | 8205 | 8881 | 8357 | 6233 | 7968 | 7584 | 7260 | 6936 | 6611 | 11 | 67 | 1132 |
| 11 | 68 | 2018 | 1685 | 1371 | 1047 | 0723 | 0399 | 0075 | 9751 | 8427 | 9103 | 8778 | 6454 | 8130 | 7806 | 7481 | 7157 | 6832 | 8 | 68 | 0906 |
| 6 | 69 | 2241 | 1917 | 1503 | 1269 | 0943 | 0621 | 0297 | 9973 | 9649 | 9325 | 2000 | 8676 | 8352 | 8027 | 7702 | 7378 | 7033 | 4 | 38 | 0660 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 12° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 12° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | |
| 222 | 6′ | 2 (1) | 3605 | 3287 | 2966 | 2650 | 2332 | 2614 | 1625 | 1377 | 1652 | 0740 | 6422 | 6103 | 9764 | 9466 | 2147 | 0826 | 0569 | 0 | 6′ | 2 9396 |
| 317 | 1 | | 3829 | 3510 | 3192 | 2874 | 2556 | 2237 | 1919 | 1600 | 1282 | 0263 | 0645 | 0326 | 0007 | 9688 | 2362 | 9050 | 6732 | 4 | 1 | 9546 |
| 311 | 2 | | 4052 | 3734 | 3416 | 3097 | 2779 | 2461 | 2142 | 1823 | 1505 | 1186 | 0867 | 0548 | 0930 | 9911 | 2592 | 9273 | 8254 | 7 | 2 | 9772 |
| 306 | 3 | | 4276 | 3958 | 3639 | 3321 | 3002 | 2664 | 2365 | 2046 | 1728 | 1409 | 1890 | 0771 | 0452 | 6133 | 9814 | 9495 | 9176 | 11 | 3 | 9228 |
| 301 | 4 | | 4500 | 4182 | 3663 | 3544 | 3226 | 2907 | 2586 | 2259 | 1951 | 1632 | 1313 | 0993 | 8675 | 0355 | 0036 | 2717 | 9398 | 15 | 4 | 3 0224 |
| 295 | 5 | 2 (1) | 4724 | 4405 | 4687 | 3768 | 3449 | 3136 | 2811 | 2192 | 2173 | 1854 | 1535 | 1216 | 0827 | 0578 | 0250 | 2939 | 9626 | 19 | 5 | 3 0450 |
| 290 | 6 | | 4248 | 4629 | 4310 | 3991 | 3672 | 3353 | 3034 | 2715 | 2396 | 2077 | 1758 | 1439 | 1119 | 0600 | 0460 | 0161 | 9841 | 22 | 6 | 0676 |
| 284 | 7 | 2 | 5171 | 4652 | 4534 | 4215 | 3896 | 3577 | 3257 | 2938 | 2619 | 2300 | 1960 | 1661 | 1342 | 1022 | 8763 | 0383 | 0063 | 26 | 7 | 0962 |
| 279 | 8 | | 5395 | 5076 | 4757 | 4438 | 4119 | 3600 | 3480 | 3161 | 2842 | 2522 | 2263 | 1883 | 1564 | 1244 | 0995 | 6605 | 0285 | 30 | 8 | 1127 |
| 274 | 9 | | 5612 | 5299 | 4980 | 4661 | 4342 | 4023 | 3703 | 3384 | 3064 | 2745 | 2425 | 2166 | 1786 | 1466 | 1147 | 0627 | 0507 | 33 | 9 | 1353 |
| 266 | 10 | 2 | 5842 | 5523 | 5264 | 4884 | 4565 | 4245 | 3226 | 3607 | 3287 | 2967 | 2648 | 2328 | 2006 | 1688 | 1368 | 1049 | 6729 | 37 | 10 | 3 1578 |
| 263 | 11 | | 6065 | 5746 | 5427 | 5167 | 4788 | 4468 | 4142 | 3829 | 3510 | 3190 | 2870 | 2550 | 2230 | 1910 | 1590 | 1276 | 0950 | 41 | 11 | 1804 |
| 256 | 12 | | 6289 | 5969 | 5650 | 5330 | 5611 | 4621 | 4371 | 4052 | 3732 | 3412 | 3092 | 2772 | 2452 | 2132 | 1812 | 1492 | 1172 | 45 | 12 | 2629 |
| 252 | 13 | | 6512 | 6193 | 5873 | 5553 | 5234 | 4914 | 4524 | 4274 | 3254 | 3634 | 3314 | 2994 | 2674 | 2354 | 2034 | 1714 | 1393 | 49 | 13 | 2255 |
| 247 | 14 | | 6735 | 6416 | 6096 | 5776 | 5457 | 6137 | 4817 | 4497 | 4177 | 3857 | 3537 | 3216 | 2896 | 2576 | 2256 | 1935 | 1615 | 52 | 14 | 2480 |
| 242 | 15 | 2 | 6959 | 6639 | 6319 | 5999 | 5679 | 5352 | 5039 | 4719 | 4399 | 4079 | 3759 | 3438 | 3118 | 2798 | 2477 | 2157 | 1836 | 56 | 15 | 3 2705 |
| 236 | 16 | | 7182 | 6862 | 6542 | 6222 | 5902 | 5582 | 5262 | 4949 | 4621 | 4301 | 3981 | 3660 | 3340 | 3019 | 2699 | 2376 | 2058 | 60 | 16 | 2931 |
| 231 | 17 | | 7405 | 7085 | 6765 | 6445 | 6195 | 5805 | 5484 | 5164 | 4844 | 4523 | 4203 | 3882 | 3562 | 3241 | 9920 | 2606 | 2279 | 64 | 17 | 3156 |
| 295 | 18 | | 7628 | 7368 | 6988 | 6668 | 6347 | 6027 | 5707 | 5386 | 5066 | 4745 | 4425 | 4104 | 3783 | 3463 | 3142 | 2821 | 2500 | 67 | 18 | 3381 |
| 290 | 19 | | 7851 | 7531 | 7211 | 6890 | 6570 | 6250 | 5929 | 5609 | 5286 | 4267 | 4647 | 4326 | 4005 | 3684 | 3363 | 3042 | 2721 | 71 | 19 | 3606 |
| 215 | 20 | 2 | 8674 | 7754 | 7433 | 7113 | 6793 | 6472 | 6151 | 5831 | 5510 | 5189 | 4868 | 4548 | 4227 | 3906 | 3585 | 3261 | 2942 | 75 | 20 | 3 3831 |
| 209 | 21 | | 6297 | 7977 | 7656 | 7336 | 7015 | 6694 | 6374 | 6053 | 5732 | 5411 | 5090 | 4762 | 4448 | 4127 | 3806 | 3485 | 3164 | 79 | 21 | 4056 |
| 204 | 22 | | 8520 | 8199 | 7679 | 7558 | 7237 | 6917 | 6596 | 6275 | 5954 | 5633 | 5312 | 4991 | 4670 | 4349 | 4027 | 3706 | 3385 | 82 | 22 | 4281 |
| 199 | 23 | | 8743 | 8422 | 8101 | 7781 | 7460 | 7139 | 6818 | 6497 | 6176 | 5855 | 5534 | 5212 | 1891 | 4570 | 4248 | 3927 | 3606 | 86 | 23 | 4506 |
| 193 | 24 | | 8966 | 8645 | 8324 | 8003 | 7682 | 7361 | 7046 | 6719 | 6398 | 6077 | 5755 | 5434 | 5113 | 4791 | 4462 | 4148 | 3827 | 90 | 24 | 4731 |
| 188 | 25 | 9 | 2188 | 8867 | 8546 | 8225 | 7904 | 7583 | 7262 | 6941 | 6626 | 6228 | 5977 | 5655 | 5334 | 5012 | 4690 | 4369 | 4647 | 24 | 25 | 3 4955 |
| 183 | 26 | | 9411 | 9090 | 8769 | 8448 | 8127 | 7865 | 7484 | 7163 | 6841 | 6526 | 6196 | 5877 | 5555 | 5234 | 4912 | 4596 | 4268 | 97 | 26 | 5180 |
| 177 | 27 | | 9634 | 9312 | 8991 | 8670 | 8349 | 8027 | 7766 | 7384 | 7063 | 6741 | 6420 | 6698 | 5776 | 5455 | 5133 | 4811 | 4489 | 101 | 27 | 5105 |
| 172 | 28 | | 9856 | 9535 | 9214 | 8822 | 6571 | 8249 | 7928 | 7606 | 7285 | 6963 | 6641 | 6319 | 5998 | 5676 | 5354 | 6632 | 4710 | 105 | 28 | 5629 |
| 166 | 29 | 3 (2) | 6072 | 9757 | 9436 | 9114 | 8793 | 8471 | 8150 | 7828 | 7506 | 7184 | 6863 | 6641 | 6219 | 5897 | 5576 | 5253 | 4930 | 109 | 29 | 5854 |
| 161 | 30 | 3 (9) | 6361 | 9279 | 9658 | 9336 | 9015 | 8693 | 8371 | 8050 | 7726 | 7406 | 7084 | 6762 | 6440 | 6116 | 5796 | 5473 | 5151 | 119 | 36 | 3 6078 |
| 156 | 31 | | 0523 | 6262 | 9880 | 9558 | 9237 | 8915 | 8593 | 8271 | 7949 | 7627 | 7365 | 6983 | 6661 | 6339 | 6016 | 5694 | 5372 | 116 | 31 | 6303 |
| 150 | 32 | | 0746 | 0424 | 0102 | 9780 | 9459 | 9137 | 8815 | 8493 | 8171 | 7849 | 7526 | 7204 | 6882 | 6569 | 6237 | 5215 | 5592 | 190 | 32 | 6527 |
| 145 | 33 | | 6968 | 0616 | 0324 | 0662 | 9660 | 9358 | 9036 | 8714 | 6392 | 6070 | 7740 | 7425 | 7163 | 6786 | 6458 | 6135 | 5813 | 124 | 33 | 6751 |
| 140 | 34 | | 1190 | 6868 | 0546 | 6224 | 9902 | 9560 | 9258 | 8936 | 8613 | 8291 | 7969 | 7646 | 7324 | 7001 | 6678 | 6356 | 6033 | 127 | 34 | 6976 |
| 134 | 35 | 3 (2) | 1419 | 1090 | 0768 | 6446 | 0124 | 9802 | 9479 | 9157 | 8835 | 8512 | 8190 | 7667 | 7545 | 7222 | 6899 | 6576 | 6253 | 131 | 35 | 3 7200 |
| 129 | 36 | | 1635 | 1312 | 0990 | 6666 | 6346 | 0623 | 9761 | 2378 | 9656 | 6733 | 8411 | 8088 | 7765 | 7442 | 7120 | 6797 | 6474 | 135 | 36 | 7424 |
| 123 | 37 | | 1657 | 1534 | 1212 | 0890 | 0567 | 6245 | 9922 | 9600 | 9277 | 8254 | 8632 | 8309 | 7986 | 7663 | 7340 | 7017 | 6694 | 138 | 37 | 7648 |
| 118 | 38 | | 2679 | 1756 | 1434 | 1111 | 0789 | 0466 | 0144 | 9821 | 9490 | 9175 | 8852 | 8529 | 8206 | 7883 | 7560 | 7237 | 6914 | 142 | 38 | 7872 |
| 113 | 32 | | 2301 | 1978 | 1656 | 1333 | 1010 | 0688 | 0365 | 0042 | 9719 | 9396 | 2073 | 8750 | 8497 | 6104 | 7761 | 7450 | 7134 | 146 | 39 | 8096 |
| 107 | 40 | 3 (2) | 2522 | 2200 | 1877 | 1555 | 1932 | 0909 | 6586 | 0263 | 9940 | 9617 | 2294 | 6971 | 8646 | 8325 | 8061 | 7678 | 7354 | 150 | 40 | 3 6320 |
| 102 | 41 | | 2744 | 2422 | 2099 | 1776 | 1453 | 1130 | 0807 | 0464 | 0161 | 9838 | 9515 | 9192 | 8868 | 8545 | 8222 | 7828 | 7575 | 153 | 41 | 8544 |
| 27 | 42 | | 2966 | 2643 | 2320 | 1997 | 1674 | 1352 | 1028 | 0705 | 0382 | 0059 | 9736 | 9412 | 9089 | 8765 | 8442 | 0118 | 7795 | 157 | 42 | 8768 |
| 21 | 43 | | 3188 | 2865 | 9549 | 2219 | 1696 | 1573 | 1249 | 0926 | 6603 | 0280 | 9956 | 9633 | 9309 | 8985 | 8662 | 8336 | 6014 | 161 | 43 | 8992 |
| 66 | 44 | | 3410 | 3087 | 2763 | 2440 | 2117 | 1794 | 1470 | 1147 | 6894 | 0500 | 0177 | 9853 | 9529 | 9206 | 8882 | 8558 | 8234 | 165 | 44 | 9215 |
| 61 | 46 | 3 (2) | 3631 | 3308 | 2985 | 2662 | 2339 | 2015 | 1691 | 1368 | 1044 | 0721 | 0397 | 0073 | 9750 | 9426 | 9102 | 6776 | 8454 | 168 | 45 | 3 9439 |
| 75 | 46 | | 3853 | 3530 | 3266 | 2863 | 2560 | 2236 | 1912 | 1589 | 1265 | 0941 | 6618 | 0224 | 9270 | 9646 | 9329 | 8998 | 8674 | 172 | 46 | 9663 |
| 70 | 47 | | 4074 | 3751 | 3428 | 3104 | 2781 | 2457 | 2133 | 1809 | 1486 | 1162 | 0638 | 0514 | 0190 | 9866 | 9542 | 9218 | 6894 | 176 | 47 | 9886 |
| 64 | 48 | | 4226 | 3972 | 3649 | 3325 | 3002 | 2670 | 2354 | 9030 | 1706 | 1382 | 1058 | 0734 | 0410 | 0066 | 9762 | 9437 | 9113 | 180 | 48 | 4 0110 |
| 59 | 49 | | 4517 | 1194 | 3870 | 3546 | 3223 | 2899 | 2575 | 2251 | 1997 | 1602 | 1979 | 0954 | 0630 | 0306 | 9982 | 9657 | 9333 | 183 | 49 | 0333 |
| 54 | 50 | 3 (2) | 4739 | 4415 | 4091 | 3767 | 3443 | 3190 | 2795 | 2471 | 2147 | 1822 | 1499 | 1174 | 0850 | 0596 | 0902 | 9877 | 9553 | 187 | 50 | 4 0557 |
| 40 | 51 | | 4960 | 1636 | 4312 | 3986 | 3664 | 3340 | 3016 | 2692 | 2368 | 2043 | 1719 | 1395 | 1070 | 0746 | 0421 | 6027 | 9772 | 191 | 51 | 0780 |
| 43 | 52 | | 5181 | 4857 | 4533 | 4902 | 3865 | 3561 | 3237 | 2912 | 2588 | 2264 | 1939 | 1615 | 1290 | 0966 | 0641 | 0316 | 9992 | 195 | 52 | 1003 |
| 08 | 53 | 3 | 5402 | 5078 | 4754 | 4430 | 4106 | 3789 | 3457 | 3133 | 2808 | 2484 | 2159 | 1835 | 1510 | 1185 | 0861 | 0536 | 0211 | 198 | 53 | 1226 |
| 32 | 54 | | 5624 | 3299 | 4975 | 4651 | 4397 | 4002 | 3678 | 3353 | 3029 | 2704 | 2379 | 2055 | 1730 | 1405 | 1680 | 0755 | 0430 | 209 | 54 | 1450 |
| 27 | 55 | 3 | 5845 | 5590 | 5196 | 4872 | 4547 | 4223 | 3898 | 3573 | 3949 | 2224 | 2599 | 2275 | 1950 | 1625 | 1300 | 0275 | 0650 | 206 | 55 | 4 1673 |
| 29 | 55 | | 6066 | 5741 | 5417 | 5099 | 4768 | 4443 | 4118 | 3794 | 3469 | 3144 | 2619 | 2494 | 2169 | 1644 | 1519 | 1194 | 0869 | 210 | 56 | 1896 |
| 16 | 07 | | 6287 | 5962 | 5636 | 5313 | 4986 | 4661 | 4339 | 4014 | 3669 | 3364 | 3039 | 2714 | 9389 | 9064 | 1739 | 1413 | 1088 | 213 | 57 | 2119 |
| 11 | 50 | | 6508 | 6183 | 5858 | 5534 | 5909 | 4884 | 4552 | 4234 | 3909 | 3564 | 3259 | 9934 | 2609 | 9983 | 1958 | 1633 | 1307 | 217 | 56 | 2342 |
| 5 | 52 | | 5729 | 6404 | 6072 | 5754 | 5122 | 5104 | 4772 | 4454 | 4129 | 3804 | 3479 | 3153 | 2828 | 2503 | 2177 | 1859 | 1596 | 221 | 59 | 2565 |

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| TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 130° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 2' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 12' | Partes para segundos. | 130° | Núm. |
| 329 | 0' | 4 (3) 2454 | 2140 | 1810 | 1422 | 1168 | 0644 | 0219 | 2125 | 2271 | 2547 | 9222 | 8827 | 8273 | 9248 | 7994 | 7599 | 7274 | 224 | 0' | 7 0454 |
| 393 | 1 | 2687 | 2322 | 2038 | 1714 | 1390 | 1999 | 0741 | 2417 | 0023 | 9768 | 9444 | 2112 | 8724 | 8472 | 9145 | 7220 | 7425 | 221 | 1 | 0228 |
| 317 | 2 | 2929 | 2585 | 2261 | 1936 | 1512 | 1289 | 0263 | 2839 | 0314 | 9290 | 9655 | 2340 | 2019 | 8621 | 8305 | 0241 | 7712 | 217 | 2 | 0092 |
| 312 | 3 | 3132 | 9807 | 2483 | 2139 | 1834 | 1512 | 1105 | 2891 | 9539 | 0911 | 9889 | 9522 | 2237 | 8912 | 8587 | 9262 | 7237 | 213 | 3 | 6 2779 |
| 326 | 4 | 3354 | 3030 | 2705 | 2301 | 2052 | 1732 | 1427 | 1002 | 0758 | 0433 | 0108 | 9783 | 2458 | 2133 | 8509 | 0483 | 9157 | 212 | 4 | 2550 |
| 301 | 5 | 4 (3) 3572 | 3252 | 2228 | 2603 | 2279 | 1954 | 1929 | 1304 | 9979 | 0654 | 2329 | 2004 | 9672 | 2354 | 2229 | 8723 | 2370 | 206 | 2 | 6 2324 |
| 295 | 0 | 3799 | 3475 | 3150 | 2025 | 2500 | 2175 | 1851 | 1526 | 1201 | 2079 | 2551 | 9225 | 9200 | 9575 | 9250 | 9224 | 8599 | 222 | 2 | 2928 |
| 290 | 7 | 4021 | 3997 | 3372 | 3047 | 2722 | 2327 | 2972 | 1747 | 1422 | 1927 | 2772 | 0447 | 2121 | 2725 | 9470 | 9145 | 0812 | 120 | 7 | 8873 |
| 984 | 8 | 4244 | 3212 | 3524 | 2299 | 2244 | 2612 | 2224 | 1992 | 1244 | 1318 | 0923 | 0568 | 0342 | 0017 | 9621 | 9366 | 2040 | 122 | 2 | 8647 |
| 279 | 9 | 4462 | 4141 | 3015 | 3421 | 3159 | 2841 | 2510 | 2199 | 1865 | 1542 | 1214 | 0889 | 0563 | 0237 | 9912 | 9586 | 9252 | 121 | 2 | 8429 |
| 273 | 10 | 4 (3) 4988 | 4363 | 4938 | 3713 | 3398 | 3062 | 2737 | 2412 | 2089 | 1721 | 1435 | 1110 | 0784 | 0458 | 0132 | 2807 | 9401 | 107 | 12 | 2 0122 |
| 208 | 11 | 4910 | 4585 | 4260 | 3935 | 3502 | 3284 | 2959 | 2633 | 2307 | 1282 | 1256 | 1332 | 1005 | 0279 | 0353 | 0027 | 2721 | 183 | 11 | 7971 |
| 202 | 12 | 5133 | 4807 | 4482 | 4159 | 3831 | 3505 | 3180 | 2854 | 2529 | 2203 | 1877 | 1551 | 1225 | 0900 | 0574 | 0242 | 2921 | 180 | 12 | 7745 |
| 257 | 13 | 4 5355 | 5029 | 4794 | 4378 | 4053 | 3727 | 3401 | 3275 | 2750 | 2424 | 2028 | 1772 | 1449 | 1122 | 0724 | 9468 | 0142 | 172 | 13 | 7520 |
| 251 | 14 | 5577 | 5251 | 4925 | 4090 | 4274 | 3940 | 3523 | 3297 | 2971 | 2045 | 2312 | 1993 | 1297 | 1341 | 1214 | 0688 | 0322 | 172 | 14 | 7295 |
| 249 | 15 | 4 5728 | 5473 | 5147 | 4821 | 4496 | 4170 | 3844 | 3518 | 3192 | 2866 | 2540 | 2214 | 1887 | 1591 | 1235 | 0908 | 0582 | 128 | 15 | 2 7062 |
| 241 | 16 | 6020 | 5095 | 5322 | 5043 | 4717 | 4391 | 4905 | 3732 | 3413 | 3007 | 2791 | 2434 | 2198 | 1702 | 1425 | 1129 | 0802 | 125 | 12 | 2044 |
| 235 | 17 | 0242 | 5916 | 5522 | 5264 | 4938 | 4012 | 4280 | 3909 | 3634 | 3308 | 2991 | 2555 | 2328 | 2202 | 1575 | 1342 | 1022 | 101 | 17 | 5512 |
| 239 | 18 | 2464 | 0138 | 5912 | 5480 | 5150 | 4834 | 4507 | 4181 | 3855 | 3528 | 3292 | 2875 | 2549 | 2222 | 1220 | 1522 | 1242 | 127 | 18 | 2324 |
| 294 | 19 | 0290 | 2300 | 0033 | 5797 | 5381 | 5255 | 4728 | 4409 | 4270 | 3749 | 3422 | 3929 | 2702 | 2442 | 2115 | 1789 | 1452 | 153 | 19 | 6169 |
| 219 | 29 | 4 2907 | 0581 | 2255 | 5929 | 5902 | 5279 | 4949 | 4623 | 4296 | 3970 | 3943 | 3312 | 2990 | 2093 | 2339 | 2022 | 1202 | 150 | 29 | 2 5244 |
| 213 | 21 | 7129 | 0903 | 2472 | 2150 | 5823 | 5427 | 5170 | 4844 | 4517 | 4190 | 3864 | 3537 | 3210 | 2083 | 2559 | 2222 | 1202 | 142 | 21 | 5712 |
| 208 | 22 | 7350 | 7024 | 2998 | 5371 | 5045 | 5710 | 5321 | 5804 | 4738 | 4411 | 4204 | 3757 | 3432 | 3103 | 2770 | 2449 | 2121 | 142 | 22 | 5424 |
| 202 | 23 | 7279 | 7245 | 2912 | 2592 | 5269 | 5232 | 5212 | 5285 | 4958 | 4631 | 4304 | 3977 | 3252 | 3323 | 2920 | 2068 | 2341 | 138 | 23 | 2229 |
| 197 | 24 | 7723 | 7407 | 7140 | 9013 | 5487 | 0120 | 5033 | 5500 | 5179 | 4652 | 4525 | 4197 | 3970 | 3543 | 3216 | 2209 | 2591 | 135 | 24 | 5042 |
| 191 | 25 | 4 8215 | 7288 | 7321 | 7034 | 2707 | 0381 | 9053 | 5726 | 5329 | 5072 | 4745 | 4418 | 4090 | 3793 | 3435 | 3100 | 2780 | 131 | 25 | 6 4820 |
| 186 | 29 | 8232 | 7909 | 7582 | 7255 | 5228 | 9201 | 5274 | 5947 | 5620 | 5222 | 4925 | 4038 | 4310 | 3983 | 3655 | 3329 | 3002 | 127 | 25 | 4595 |
| 180 | 27 | 8457 | 8130 | 7003 | 7476 | 7142 | 0922 | 0425 | 9157 | 5840 | 5513 | 2185 | 4858 | 4530 | 4293 | 3875 | 3547 | 3219 | 123 | 27 | 4371 |
| 175 | 28 | 8279 | 8352 | 8024 | 7297 | 7372 | 7263 | 6715 | 6398 | 0029 | 2733 | 2495 | 5078 | 4750 | 4423 | 4095 | 3767 | 3432 | 120 | 28 | 4149 |
| 170 | 29 | 8200 | 0573 | 0245 | 7212 | 7591 | 7223 | 5935 | 0602 | 0221 | 5253 | 2925 | 5290 | 4972 | 4042 | 4314 | 3292 | 3650 | 112 | 29 | 3922 |
| 164 | 30 | 4 9121 | 8794 | 8452 | 8139 | 7011 | 7484 | 7156 | 6829 | 2521 | 2173 | 5845 | 5510 | 5190 | 4802 | 4534 | 4202 | 3878 | 112 | 30 | 2 3097 |
| 159 | 31 | 9342 | 9015 | 8287 | 8360 | 0232 | 7704 | 7377 | 7249 | 5721 | 2393 | 5205 | 5737 | 5409 | 5201 | 4753 | 4425 | 4927 | 109 | 31 | 3473 |
| 153 | 32 | 9563 | 9235 | 8908 | 0580 | 8253 | 7925 | 7527 | 7259 | 2941 | 2213 | 0285 | 5257 | 2229 | 5391 | 4973 | 4644 | 4310 | 125 | 32 | 3242 |
| 148 | 33 | 9794 | 9450 | 2128 | 8021 | 8473 | 0145 | 7217 | 7402 | 7121 | 2833 | 2005 | 5177 | 2942 | 5520 | 5122 | 4004 | 4535 | 121 | 33 | 3224 |
| 142 | 34 | 2 (4) 0000 | 9277 | 9349 | 9021 | 2223 | 8365 | 9030 | 7702 | 7381 | 7053 | 2725 | 0327 | 6068 | 5740 | 5411 | 5983 | 4754 | 27 | 34 | 2800 |
| 137 | 35 | 5 (4) 0220 | 9898 | 9570 | 9242 | 0214 | 8580 | 0258 | 7222 | 7001 | 7273 | 2945 | 0012 | 0288 | 5959 | 5031 | 5392 | 4273 | 94 | 35 | 2 2570 |
| 131 | 35 | 0442 | 0118 | 9720 | 9452 | 2134 | 8005 | 0478 | 8142 | 7021 | 7423 | 7154 | 5832 | 0507 | 9172 | 5850 | 5521 | 5122 | 22 | 35 | 2352 |
| 120 | 37 | 2607 | 2332 | 2011 | 9683 | 9354 | 2022 | 8220 | 2352 | 8041 | 7712 | 7384 | 7055 | 0727 | 2399 | 0069 | 5742 | 5411 | 86 | 37 | 2129 |
| 190 | 38 | 2288 | 2562 | 9231 | 2903 | 9575 | 2249 | 0218 | 8589 | 2221 | 7932 | 7203 | 7275 | 0949 | 0217 | 0288 | 5959 | 5630 | 82 | 30 | 1204 |
| 115 | 39 | 1108 | 8780 | 8452 | 0123 | 2795 | 9422 | 9138 | 8829 | 2420 | 0152 | 7223 | 7494 | 7195 | 6839 | 0507 | 0178 | 6842 | 72 | 32 | 1280 |
| 109 | 49 | 5 (4) 1329 | 1001 | 0572 | 0344 | 2015 | 9202 | 2350 | 9222 | 8700 | 8371 | 8042 | 7713 | 7394 | 7255 | 0729 | 0327 | 2008 | 75 | 40 | 6 1450 |
| 104 | 41 | 1549 | 1221 | 8822 | 0594 | 0235 | 9909 | 9278 | 9249 | 0220 | 8521 | 8269 | 7233 | 7004 | 7274 | 0245 | 9012 | 2296 | 71 | 41 | 1232 |
| 98 | 42 | 1772 | 1441 | 1113 | 0704 | 0455 | 0122 | 9727 | 2468 | 9139 | 8210 | 8491 | 8152 | 7023 | 7493 | 7164 | 9032 | 0505 | 27 | 42 | 1092 |
| 23 | 43 | 1292 | 1522 | 1333 | 1204 | 2275 | 0349 | 0017 | 9689 | 9359 | 9030 | 2700 | 8371 | 2042 | 7712 | 7383 | 7053 | 2724 | 04 | 43 | 0705 |
| 88 | 44 | 2211 | 1092 | 1553 | 1224 | 2995 | 0566 | 2237 | 2998 | 9579 | 9262 | 8220 | 8222 | 0201 | 7931 | 7502 | 7272 | 2942 | 60 | 44 | 0201 |
| 99 | 45 | 5 (4) 2431 | 2102 | 1773 | 1444 | 1115 | 0786 | 0452 | 0127 | 9790 | 2400 | 2139 | 8002 | 8400 | 0150 | 7229 | 7421 | 7101 | 56 | 45 | 6 0337 |
| 77 | 49 | 2251 | 2322 | 1923 | 1064 | 1335 | 1025 | 0075 | 2349 | 9017 | 2297 | 9358 | 9929 | 8222 | 8362 | 0039 | 7702 | 7379 | 22 | 46 | 0114 |
| 71 | 47 | 2071 | 2542 | 2213 | 1894 | 1554 | 1225 | 0825 | 0592 | 9230 | 9927 | 9577 | 9247 | 8917 | 9508 | 8258 | 7228 | 7520 | 42 | 47 | 2 9820 |
| 66 | 48 | 3292 | 2702 | 9433 | 2193 | 1774 | 1444 | 1115 | 2795 | 0425 | 9126 | 2720 | 2466 | 9132 | 8802 | 0479 | 0142 | 7012 | 45 | 42 | 2207 |
| 60 | 42 | 3312 | 2992 | 2053 | 2323 | 1993 | 1224 | 1334 | 1204 | 9275 | 0340 | 0015 | 9285 | 9355 | 2025 | 8695 | 9305 | 0234 | 41 | 49 | 2443 |
| 55 | 50 | 5 (4) 3532 | 3202 | 2872 | 2543 | 2213 | 1883 | 1554 | 1224 | 0824 | 0564 | 2234 | 9904 | 9574 | 9243 | 8914 | 0583 | 0253 | 37 | 50 | 5 9220 |
| 49 | 51 | 3752 | 3422 | 3092 | 2792 | 2433 | 2123 | 1773 | 1443 | 1113 | 0783 | 2453 | 0122 | 9722 | 2492 | 2132 | 0201 | 9471 | 34 | 51 | 8927 |
| 44 | 02 | 3271 | 3942 | 3312 | 2999 | 2252 | 2392 | 1992 | 1202 | 1332 | 1022 | 2071 | 0341 | 0011 | 9502 | 9350 | 9019 | 8609 | 30 | 52 | 2774 |
| 38 | 53 | 4121 | 3091 | 3531 | 3291 | 2871 | 2541 | 2211 | 1091 | 1551 | 1221 | 2092 | 0529 | 9229 | 2099 | 2529 | 9232 | 9227 | 20 | 53 | 6558 |
| 33 | 54 | 4411 | 4981 | 3751 | 3421 | 3291 | 2721 | 2430 | 2120 | 1772 | 1439 | 1109 | 0778 | 9440 | 0117 | 2795 | 9456 | 9125 | 22 | 24 | 2327 |
| 27 | 05 | 5 (4) 4231 | 4301 | 3970 | 3640 | 3310 | 2900 | 2242 | 2319 | 1989 | 1068 | 1327 | 9997 | 0662 | 0335 | 9005 | 9674 | 9343 | 19 | 55 | 2 0124 |
| 22 | 52 | 4059 | 4520 | 4120 | 3850 | 3529 | 3129 | 2068 | 2538 | 2207 | 1877 | 1540 | 1215 | 9885 | 0554 | 0223 | 9092 | 2561 | 15 | 26 | 7221 |
| 12 | 57 | 5070 | 4740 | 4499 | 4279 | 3740 | 3410 | 3987 | 2757 | 2420 | 2025 | 1795 | 1434 | 1123 | 0772 | 2441 | 0110 | 9779 | 11 | 57 | 7268 |
| 11 | 50 | 5202 | 4259 | 4929 | 4290 | 3959 | 3937 | 3300 | 2979 | 2645 | 2314 | 1983 | 1052 | 1321 | 9220 | 0259 | 2328 | 9299 | 7 | 52 | 7435 |
| 5 | 52 | 5 5509 | 5179 | 4848 | 4517 | 4187 | 3856 | 3525 | 3124 | 2963 | 2532 | 2201 | 1879 | 1539 | 1209 | 0977 | 9549 | 0214 | 4 | 52 | 7212 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 130° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 26′ | 26′ | 27′ | 28′ | 29′ | 32′ | 31′ | 32′ | 33′ | Partes para segundos. | 130° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 329 | 0′ | 3 | 6949 | 3625 | 6320 | 5978 | 6650 | 6325 | 5000 | 4574 | 4349 | 4024 | 3898 | 3373 | 3240 | 2729 | 2326 | 2271 | 1745 | 0 | 8′ | 4 2768 |
| 324 | 1 | | 7170 | 6846 | 6528 | 6195 | 5070 | 5546 | 5222 | 4094 | 4562 | 4244 | 3910 | 3593 | 3267 | 2241 | 2616 | 2290 | 1954 | 4 | 1 | 3011 |
| 318 | 2 | | 7321 | 7068 | 3741 | 5416 | 6020 | 5765 | 5442 | 5114 | 4782 | 4463 | 4138 | 3812 | 3486 | 3161 | 2835 | 2509 | 2183 | 7 | 2 | 3233 |
| 313 | 3 | | 7512 | 7286 | 8961 | 6636 | 6310 | 6985 | 5660 | 5334 | 5009 | 4683 | 4357 | 4031 | 3706 | 3380 | 3054 | 2720 | 2402 | 11 | 3 | 3456 |
| 307 | 4 | | 7832 | 7607 | 7182 | 6858 | 8531 | 8226 | 5800 | 5554 | 5228 | 4903 | 4577 | 4251 | 3925 | 3599 | 3273 | 2947 | 2521 | 15 | 4 | 3678 |
| 302 | 6 | 3 | 3053 | 7727 | 7402 | 7076 | 6751 | 8426 | 5099 | 5774 | 5440 | 5122 | 4796 | 4470 | 4144 | 3818 | 3492 | 3156 | 2840 | 16 | 6 | 4 3901 |
| 296 | 6 | | 8273 | 7248 | 7622 | 7297 | 6971 | 8645 | 5312 | 5993 | 5560 | 5342 | 6216 | 4689 | 4363 | 4037 | 3711 | 3385 | 3058 | 22 | 6 | 4124 |
| 291 | 7 | | 8494 | 3168 | 7842 | 7517 | 7191 | 5866 | 6539 | 6213 | 5887 | 5561 | 5235 | 4909 | 4582 | 4256 | 3930 | 3603 | 3277 | 26 | 7 | 4346 |
| 285 | 8 | | 6714 | 0308 | 0063 | 7737 | 7411 | 7085 | 5759 | 5433 | 6107 | 5700 | 5454 | 5198 | 4001 | 4475 | 4149 | 3822 | 3496 | 29 | 8 | 4569 |
| 280 | 9 | | 8235 | 8609 | 8283 | 7967 | 7631 | 7305 | 6970 | 5652 | 5325 | 8000 | 5673 | 5347 | 5020 | 4694 | 4367 | 4041 | 3714 | 33 | 2 | 4791 |
| 274 | 10 | 3 | 9155 | 0029 | 8503 | 8177 | 7851 | 7524 | 7198 | 6872 | 8545 | 6212 | 5893 | 5566 | 5239 | 4913 | 4586 | 4259 | 3933 | 37 | 12 | 4 5013 |
| 269 | 11 | | 9375 | 9049 | 2723 | 2397 | 8870 | 7744 | 7418 | 7091 | 5765 | 6438 | 6112 | 5785 | 5158 | 5132 | 4805 | 4478 | 4151 | 40 | 11 | 5936 |
| 263 | 12 | | 9595 | 9269 | 0243 | 8616 | 0222 | 7264 | 7637 | 7311 | 6984 | 5657 | 6331 | 6004 | 5677 | 5350 | 5023 | 4696 | 4369 | 44 | 12 | 5458 |
| 258 | 13 | | 9815 | 2409 | 2153 | 0836 | 0510 | 0183 | 7857 | 7530 | 7203 | 6877 | 6550 | 6223 | 5896 | 5569 | 5242 | 4915 | 4588 | 48 | 13 | 5800 |
| 252 | 14 | 4 (3) | 0035 | 9702 | 9383 | 9056 | 0729 | 8403 | 0076 | 7749 | 7422 | 7096 | 5769 | 6442 | 6115 | 5708 | 5460 | 5133 | 4806 | 52 | 14 | 5902 |
| 247 | 16 | 4 (3) | 8255 | 2929 | 9622 | 2278 | 0942 | 8622 | 8296 | 7959 | 7642 | 7315 | 6980 | 6661 | 6333 | 6006 | 5679 | 5352 | 5094 | 55 | 15 | 4 5124 |
| 241 | 10 | | 8475 | 0149 | 9822 | 9495 | 2169 | 8842 | 8515 | 8188 | 7861 | 7534 | 7206 | 6879 | 6552 | 6225 | 5897 | 5570 | 5242 | 69 | 15 | 6346 |
| 236 | 17 | | 8695 | 0362 | 0242 | 9715 | 2308 | 9861 | 0731 | 8407 | 8080 | 7753 | 7495 | 7098 | 5771 | 6443 | 6116 | 5788 | 5461 | 63 | 17 | 5568 |
| 230 | 18 | | 2915 | 0588 | 0961 | 9234 | 2607 | 9200 | 8953 | 8626 | 8229 | 7971 | 7644 | 7317 | 6982 | 6662 | 6334 | 6006 | 5679 | 66 | 18 | 8790 |
| 296 | 19 | | 1135 | 2008 | 2481 | 0154 | 9827 | 9500 | 2172 | 8845 | 8518 | 8190 | 7863 | 7535 | 7208 | 6880 | 6552 | 6925 | 5897 | 70 | 12 | 7012 |
| 219 | 20 | 4 (3) | 1355 | 1020 | 2701 | 0373 | 0016 | 2712 | 9321 | 9064 | 0736 | 0409 | 8081 | 7754 | 7426 | 7898 | 6770 | 6443 | 6115 | 74 | 20 | 4 7233 |
| 214 | 21 | | 1674 | 1247 | 0220 | 0593 | 0265 | 9930 | 9610 | 2283 | 8955 | 8628 | 8300 | 7972 | 7644 | 7317 | 6989 | 6661 | 6333 | 77 | 21 | 7455 |
| 208 | 22 | | 1794 | 1467 | 1132 | 0019 | 0485 | 0157 | 9029 | 9582 | 9174 | 8846 | 8518 | 8191 | 7063 | 7535 | 7207 | 6079 | 6550 | 81 | 22 | 7677 |
| 203 | 23 | | 2214 | 1606 | 1359 | 1031 | 0704 | 0376 | 0048 | 2721 | 2323 | 9065 | 8737 | 8489 | 8081 | 7753 | 7425 | 7096 | 6750 | 85 | 23 | 7898 |
| 197 | 24 | | 2233 | 1906 | 1570 | 1250 | 0923 | 2595 | 2267 | 9932 | 9611 | 9283 | 8955 | 8527 | 8299 | 7971 | 7643 | 7314 | 6986 | 80 | 24 | 0120 |
| 192 | 26 | 4 (3) | 2453 | 2125 | 1797 | 1470 | 1142 | 0814 | 2486 | 0158 | 9830 | 9502 | 9174 | 8845 | 8517 | 8189 | 7860 | 7532 | 7204 | 92 | 25 | 4 8341 |
| 186 | 28 | | 2672 | 2344 | 2017 | 1689 | 1361 | 1033 | 0705 | 0377 | 0042 | 9720 | 9392 | 9064 | 8735 | 8407 | 8078 | 7758 | 7421 | 98 | 26 | 6563 |
| 181 | 27 | | 2092 | 2564 | 2236 | 1988 | 1588 | 1252 | 0923 | 0595 | 0267 | 2939 | 9610 | 9902 | 8253 | 8625 | 8296 | 7968 | 7639 | 99 | 27 | 8784 |
| 176 | 28 | | 3111 | 2783 | 2456 | 2127 | 1799 | 1472 | 1142 | 2014 | 0485 | 0157 | 2828 | 9580 | 9171 | 8843 | 0514 | 8185 | 7856 | 103 | 22 | 2205 |
| 170 | 29 | | 3330 | 3022 | 2874 | 2346 | 2017 | 1689 | 1361 | 1832 | 0704 | 0375 | 0047 | 9718 | 9389 | 9060 | 8732 | 0483 | 8074 | 107 | 22 | 9227 |
| 165 | 30 | 4 (3) | 3549 | 3221 | 2893 | 2565 | 2236 | 1908 | 1579 | 1251 | 0922 | 0593 | 0265 | 9936 | 9607 | 9278 | 8942 | 8620 | 8291 | 110 | 30 | 4 9448 |
| 159 | 31 | | 3762 | 3442 | 3112 | 2783 | 2456 | 2126 | 1790 | 1469 | 1140 | 0812 | 0483 | 0154 | 9825 | 9496 | 9167 | 0838 | 0509 | 114 | 31 | 9669 |
| 164 | 32 | | 3988 | 3659 | 3331 | 3002 | 2674 | 2345 | 2016 | 1687 | 1358 | 1030 | 0701 | 0372 | 8043 | 9714 | 9384 | 2055 | 8726 | 118 | 32 | 9890 |
| 148 | 33 | | 4207 | 3878 | 3550 | 3221 | 2892 | 2553 | 2234 | 1906 | 1577 | 1248 | 0919 | 0590 | 0260 | 9231 | 9602 | 2273 | 8943 | 129 | 33 | 6 0111 |
| 143 | 34 | | 4426 | 4027 | 3758 | 3442 | 3111 | 2782 | 2453 | 2194 | 1795 | 1466 | 1136 | 0807 | 0478 | 2149 | 9819 | 9490 | 9160 | 125 | 34 | 0332 |
| 137 | 36 | 4 (3) | 4646 | 4316 | 3907 | 3650 | 3329 | 3000 | 2671 | 2342 | 2013 | 1684 | 1354 | 1025 | 0696 | 0366 | 2037 | 9707 | 2378 | 122 | 35 | 5 0553 |
| 132 | 38 | | 4863 | 4535 | 4206 | 3877 | 3540 | 3218 | 2889 | 2560 | 2231 | 1201 | 1572 | 1943 | 0913 | 2584 | 0954 | 9924 | 9595 | 133 | 36 | 2774 |
| 196 | 37 | | 5082 | 4753 | 4424 | 4095 | 3766 | 3437 | 3107 | 2778 | 2449 | 2119 | 1790 | 1460 | 1131 | 0801 | 8471 | 2142 | 9812 | 136 | 37 | 0995 |
| 121 | 38 | 4 | 8301 | 4972 | 4643 | 4314 | 3984 | 3655 | 3326 | 2996 | 2667 | 2337 | 2008 | 1678 | 1348 | 1018 | 0688 | 2359 | 0029 | 142 | 38 | 1216 |
| 116 | 39 | | 8520 | 6191 | 4861 | 4532 | 4903 | 3873 | 3544 | 3214 | 2884 | 2555 | 2225 | 1895 | 1565 | 1236 | 0908 | 2676 | 2246 | 144 | 39 | 1437 |
| 118 | 40 | 4 | 8730 | 5409 | 5080 | 4750 | 4421 | 4091 | 3762 | 3432 | 3102 | 2772 | 2443 | 2113 | 1783 | 1453 | 1123 | 2793 | 2462 | 147 | 48 | 8 1657 |
| 104 | 41 | | 8957 | 5628 | 5298 | 4969 | 4639 | 4309 | 3980 | 3650 | 3320 | 2990 | 2660 | 9330 | 2000 | 1670 | 1340 | 1010 | 2679 | 151 | 41 | 1878 |
| 99 | 42 | | 3176 | 5846 | 5516 | 5107 | 4057 | 4527 | 4197 | 3868 | 3530 | 3208 | 2870 | 2547 | 2217 | 1887 | 1557 | 1226 | 2096 | 155 | 42 | 2098 |
| 93 | 43 | | 8394 | 6864 | 5735 | 5405 | 5075 | 4745 | 4415 | 4005 | 3755 | 3425 | 3095 | 2765 | 2434 | 2104 | 1774 | 1443 | 1113 | 150 | 43 | 2319 |
| 88 | 44 | | 8613 | 6283 | 5953 | 5623 | 5293 | 4963 | 4633 | 4303 | 3973 | 3643 | 3312 | 2902 | 2852 | 2321 | 1991 | 1682 | 1330 | 162 | 44 | 2539 |
| 82 | 45 | 4 | 3031 | 6501 | 6171 | 5041 | 5511 | 5101 | 4851 | 4521 | 4190 | 3860 | 3532 | 3199 | 2069 | 2538 | 2207 | 1877 | 1546 | 165 | 46 | 6 2750 |
| 77 | 48 | | 7042 | 6719 | 6309 | 6259 | 5729 | 5399 | 5060 | 4738 | 4408 | 4277 | 3747 | 3416 | 3280 | 2755 | 2424 | 2093 | 1763 | 169 | 46 | 2280 |
| 71 | 47 | | 7268 | 6938 | 6607 | 6277 | 5947 | 5616 | 5285 | 4956 | 4625 | 4295 | 3964 | 3633 | 3303 | 2972 | 9641 | 2310 | 1979 | 173 | 47 | 3200 |
| 38 | 48 | | 7486 | 7156 | 6825 | 6425 | 6165 | 5834 | 5504 | 5173 | 4842 | 4512 | 4101 | 3850 | 3519 | 3189 | 2850 | 2527 | 2196 | 177 | 48 | 3421 |
| 80 | 49 | | 7704 | 7374 | 7043 | 8713 | 6382 | 6052 | 5721 | 5320 | 5860 | 4729 | 4390 | 4067 | 3736 | 3425 | 3074 | 2743 | 2412 | 180 | 42 | 3841 |
| 55 | 60 | 4 | 7929 | 7592 | 7261 | 6931 | 6600 | 6269 | 5939 | 5608 | 6277 | 4946 | 4615 | 4204 | 3953 | 3622 | 3291 | 2260 | 2628 | 184 | 52 | 6 3861 |
| 49 | 61 | | 3142 | 7010 | 7479 | 7148 | 6818 | 6487 | 6156 | 5625 | 5494 | 5163 | 4032 | 4501 | 4178 | 3839 | 3507 | 3176 | 9845 | 108 | 81 | 4081 |
| 44 | 62 | | 8358 | 0828 | 7697 | 7366 | 7035 | 6704 | 6373 | 8042 | 6711 | 5380 | 6249 | 4718 | 4368 | 4065 | 3724 | 3322 | 3081 | 121 | 82 | 4301 |
| 38 | 63 | | 8678 | 0246 | 7215 | 7504 | 7253 | 6922 | 6591 | 8260 | 5228 | 6527 | 5266 | 4934 | 4683 | 4972 | 3940 | 3609 | 3277 | 125 | 83 | 4521 |
| 33 | 64 | | 3794 | 0463 | 0132 | 7801 | 7470 | 7132 | 6806 | 8477 | 8145 | 5814 | 5483 | 6151 | 4890 | 4488 | 4156 | 3825 | 3493 | 199 | 54 | 4741 |
| 27 | 56 | 4 | 9812 | 8601 | 0350 | 0012 | 7608 | 7356 | 7025 | 6694 | 8362 | 6031 | 5692 | 6368 | 6036 | 4704 | 4373 | 4041 | 3709 | 203 | 55 | 5 4961 |
| 22 | 56 | | 9230 | 8829 | 0567 | 0236 | 7905 | 7674 | 7242 | 6911 | 6579 | 6948 | 5916 | 5584 | 5953 | 4991 | 4509 | 4257 | 3925 | 205 | 56 | 6180 |
| 17 | 57 | | 9447 | 9116 | 6705 | 8464 | 0122 | 7721 | 7452 | 7120 | 6796 | 6454 | 6133 | 6881 | 5469 | 5137 | 4806 | 4473 | 4141 | 210 | 67 | 5402 |
| 11 | 50 | | 9686 | 9334 | 9002 | 0671 | 0332 | 0008 | 7678 | 7346 | 7013 | 6681 | 6342 | 6017 | 6685 | 5353 | 6821 | 4689 | 4367 | 214 | 88 | 6820 |
| 6 | 52 | | 9883 | 9551 | 9220 | 0806 | 8657 | 0295 | 7893 | 7561 | 7230 | 6690 | 8666 | 6934 | 5902 | 5570 | 5237 | 4905 | 4573 | 217 | 69 | 6839 |

Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 131° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 131° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 334 | 2' | 8 8728 | 5398 | 5067 | 4736 | 4406 | 4272 | 3744 | 3413 | 3082 | 2750 | 2420 | 2082 | 1757 | 1428 | 1020 | 0763 | 8132 | 221 | 8' | 5 6982 |
| 399 | 1 | 2948 | 5617 | 5282 | 4955 | 4295 | 4294 | 3963 | 3632 | 3300 | 2969 | 2238 | 2307 | 1973 | 1644 | 1313 | 2981 | 2642 | 217 | 1 | 6707 |
| 323 | 2 | 6127 | 5832 | 5500 | 5174 | 4243 | 4512 | 4181 | 3850 | 3512 | 3186 | 2856 | 9525 | 2193 | 1682 | 1530 | 1199 | 2867 | 214 | 2 | 6844 |
| 316 | 3 | 8387 | 6052 | 5724 | 3393 | 3062 | 4731 | 4402 | 4069 | 3737 | 3406 | 3074 | 2743 | 2411 | 2080 | 1748 | 1416 | 1085 | 212 | 3 | 8321 |
| 312 | 4 | 6606 | 6275 | 5943 | 5612 | 5281 | 4950 | 4218 | 4287 | 3956 | 3624 | 3992 | 2961 | 2222 | 2296 | 1966 | 1634 | 1302 | 206 | 4 | 6022 |
| 307 | 5 | 8 6825 | 6494 | 2162 | 5831 | 5500 | 5168 | 4237 | 4305 | 4174 | 3842 | 3510 | 3179 | 2847 | 2515 | 2183 | 1851 | 1519 | 203 | 5 | 8 5872 |
| 301 | 6 | 7044 | 6713 | 6381 | 6250 | 5719 | 5387 | 5055 | 4724 | 4392 | 4080 | 3728 | 3327 | 3665 | 2733 | 2401 | 2069 | 1737 | 122 | 6 | 5684 |
| 995 | 7 | 7203 | 6932 | 6600 | 6262 | 5937 | 5606 | 0274 | 4942 | 4610 | 4276 | 3242 | 3615 | 3263 | 2931 | 2218 | 2286 | 1954 | 123 | 7 | 5431 |
| 290 | 8 | 7482 | 7101 | 6819 | 6407 | 6138 | 5824 | 5492 | 5160 | 4826 | 4492 | 4164 | 3632 | 3500 | 3168 | 2636 | 2504 | 2171 | 191 | 8 | 8202 |
| 284 | 9 | 7721 | 7369 | 7038 | 6706 | 5374 | 2049 | 5711 | 5372 | 5047 | 4714 | 4382 | 4060 | 3718 | 3386 | 3053 | 2721 | 9388 | 188 | 9 | 4287 |
| 279 | 16 | 3 7920 | 7588 | 7256 | 6995 | 6593 | 6261 | 5929 | 5597 | 5265 | 4939 | 4600 | 4268 | 3935 | 3603 | 3271 | 2938 | 2606 | 194 | 12 | 0 4764 |
| 273 | 11 | 2139 | 7607 | 7470 | 7143 | 6811 | 6479 | 6147 | 5813 | 5483 | 5150 | 4818 | 4465 | 4103 | 3820 | 3466 | 3155 | 2823 | 182 | 11 | 4542 |
| 268 | 12 | 8336 | 6026 | 7624 | 7322 | 7029 | 6697 | 6365 | 2033 | 5700 | 5368 | 5036 | 4703 | 4370 | 4638 | 3700 | 3372 | 3040 | 177 | 12 | 4322 |
| 262 | 13 | 8576 | 6244 | 7912 | 7560 | 7246 | 6915 | 6563 | 6251 | 5916 | 5586 | 5253 | 1921 | 4586 | 4953 | 3922 | 3596 | 3957 | 173 | 13 | 4020 |
| 256 | 14 | 8795 | 8163 | 8131 | 7796 | 7466 | 7134 | 6801 | 6462 | 2136 | 5603 | 5471 | 3138 | 4605 | 4472 | 4140 | 3807 | 3474 | 162 | 14 | 3276 |
| 251 | 15 | 3 9014 | 8681 | 8349 | 8017 | 7664 | 7352 | 7019 | 6686 | 6354 | 6621 | 5688 | 5355 | 5023 | 4690 | 4357 | 4024 | 3696 | 166 | 15 | 8 3654 |
| 243 | 16 | 2939 | 8900 | 8567 | 6235 | 7902 | 7570 | 7237 | 6904 | 2571 | 6239 | 5906 | 5573 | 5240 | 4967 | 4574 | 4240 | 3907 | 162 | 16 | 3432 |
| 210 | 17 | 2451 | 9116 | 8786 | 8453 | 8120 | 7788 | 7455 | 7122 | 6789 | 6452 | 6123 | 5790 | 3457 | 5124 | 4791 | 4457 | 4124 | 156 | 17 | 2218 |
| 234 | 12 | 9622 | 9237 | 9004 | 8671 | 6336 | 8006 | 7673 | 7340 | 7007 | 0674 | 6341 | 6007 | 5674 | 5341 | 5068 | 4674 | 4341 | 155 | 12 | 2282 |
| 229 | 19 | 2888 | 9555 | 9222 | 6869 | 8556 | 2223 | 7690 | 7057 | 7224 | 6691 | 6558 | 6225 | 5691 | 5556 | 5924 | 4891 | 4557 | 131 | 12 | 2767 |
| 223 | 20 | 6 (5) 6106 | 9773 | 9440 | 9107 | 6774 | 6441 | 6106 | 7775 | 7449 | 7108 | 6775 | 6449 | 6108 | 5775 | 5441 | 5107 | 4774 | 147 | 20 | 8 2545 |
| 217 | 21 | 2324 | 9991 | 9656 | 2395 | 8992 | 8659 | 6322 | 7992 | 7659 | 7392 | 6992 | 6259 | 6325 | 5992 | 5658 | 5324 | 4920 | 144 | 21 | 2323 |
| 212 | 22 | 0549 | 0209 | 9872 | 9543 | 9210 | 8877 | 2543 | 8212 | 7678 | 7543 | 7209 | 6876 | 6542 | 6208 | 5675 | 5541 | 5207 | 140 | 22 | 2102 |
| 206 | 23 | 2761 | 0127 | 6024 | 2701 | 2422 | 2094 | 2761 | 8427 | 8094 | 7760 | 7426 | 7093 | 6759 | 6495 | 6021 | 5737 | 5423 | 136 | 23 | 1880 |
| 201 | 24 | 0979 | 0645 | 0312 | 9972 | 9645 | 9312 | 6972 | 8645 | 6311 | 7977 | 7643 | 7310 | 6976 | 6642 | 6308 | 5974 | 5640 | 133 | 24 | 1659 |
| 195 | 25 | 6 (3) 1197 | 6663 | 0530 | 0196 | 9863 | 9529 | 9196 | 8869 | 8528 | 0194 | 7860 | 7526 | 7192 | 6658 | 6524 | 8190 | 5856 | 129 | 23 | 8 1437 |
| 190 | 26 | 1410 | 1081 | 0748 | 0414 | 0680 | 2747 | 9413 | 9079 | 8743 | 6411 | 8077 | 7743 | 7469 | 7075 | 6741 | 6406 | 6072 | 128 | 22 | 1216 |
| 164 | 27 | 1633 | 1299 | 6965 | 0639 | 0296 | 2964 | 9630 | 9296 | 8962 | 8628 | 8294 | 7960 | 7626 | 7292 | 6957 | 6623 | 6268 | 122 | 27 | 2294 |
| 178 | 98 | 1851 | 1517 | 1183 | 0649 | 0515 | 0182 | 9647 | 2513 | 9179 | 8845 | 8511 | 8177 | 7842 | 7506 | 7174 | 6839 | 6504 | 118 | 28 | 8773 |
| 173 | 29 | 2668 | 1735 | 1401 | 1067 | 2733 | 0399 | 6065 | 2730 | 9396 | 2269 | 8726 | 8393 | 8059 | 7724 | 7390 | 7055 | 6721 | 114 | 22 | 2352 |
| 167 | 38 | 6 (3) 9266 | 1952 | 1610 | 1964 | 0950 | 0616 | 6282 | 9947 | 9613 | 9279 | 6944 | 8610 | 8275 | 7941 | 7606 | 7271 | 6937 | 118 | 32 | 5 8331 |
| 162 | 31 | 2504 | 2170 | 1836 | 1509 | 1167 | 2233 | 2499 | 2164 | 9830 | 9496 | 9161 | 8826 | 8492 | 8157 | 7829 | 7487 | 7153 | 127 | 31 | 2110 |
| 156 | 32 | 2722 | 9367 | 2053 | 1719 | 1385 | 1230 | 6716 | 0381 | 0647 | 9712 | 9376 | 9043 | 6708 | 6373 | 6038 | 7703 | 7388 | 163 | 32 | 4 2082 |
| 151 | 33 | 2939 | 2605 | 2971 | 1936 | 1602 | 1267 | 0933 | 2596 | 0264 | 9929 | 9594 | 9259 | 6994 | 8569 | 6254 | 7919 | 7564 | 99 | 33 | 2668 |
| 145 | 34 | 3137 | 9622 | 9488 | 2153 | 1819 | 1404 | 1150 | 0815 | 0480 | 0145 | 9611 | 9476 | 9141 | 6606 | 8472 | 8135 | 7800 | 26 | 34 | 9447 |
| 139 | 30 | 6 (5) 3374 | 3046 | 2705 | 2371 | 9036 | 1701 | 1367 | 1032 | 0697 | 0362 | 0027 | 9692 | 9357 | 9022 | 8686 | 8351 | 8016 | 22 | 28 | 4 9226 |
| 134 | 36 | 3592 | 3257 | 2929 | 2588 | 2253 | 1912 | 1583 | 1248 | 0213 | 0578 | 0243 | 9908 | 9573 | 9238 | 8909 | 8567 | 8932 | 88 | 36 | 9005 |
| 128 | 37 | 3802 | 3474 | 3140 | 2805 | 2470 | 2133 | 1800 | 1465 | 1130 | 8795 | 0460 | 0194 | 9769 | 9454 | 9118 | 8783 | 8447 | 88 | 37 | 8764 |
| 123 | 38 | 4026 | 3692 | 3357 | 3622 | 2687 | 2352 | 2217 | 1662 | 1346 | 1011 | 0676 | 0340 | 0005 | 9676 | 9334 | 8998 | 8683 | 81 | 38 | 8363 |
| 117 | 39 | 4244 | 3909 | 3374 | 3239 | 9904 | 2569 | 2934 | 1898 | 1563 | 1227 | 0692 | 0556 | 8221 | 9683 | 9356 | 9214 | 8878 | 77 | 39 | 8343 |
| 111 | 48 | 6 (5) 4461 | 4196 | 3791 | 3456 | 3121 | 2783 | 2450 | 2115 | 1779 | 1444 | 1106 | 0772 | 0437 | 0101 | 9765 | 9430 | 9094 | 74 | 40 | 4 8122 |
| 106 | 41 | 4678 | 4343 | 4008 | 3673 | 3337 | 3002 | 2666 | 2331 | 1995 | 1660 | 1321 | 0988 | 0653 | 0317 | 9981 | 9645 | 9309 | 70 | 41 | 7202 |
| 100 | 42 | 4695 | 4560 | 4225 | 3889 | 3534 | 3216 | 2863 | 2547 | 2212 | 1876 | 1540 | 1204 | 0869 | 0533 | 0197 | 9661 | 9524 | 66 | 49 | 7681 |
| 95 | 43 | 3112 | 4777 | 4441 | 4106 | 3771 | 3433 | 3299 | 2764 | 2428 | 2092 | 1736 | 1420 | 1084 | 0748 | 0412 | 6076 | 9740 | 63 | 43 | 7461 |
| 69 | 44 | 5329 | 4994 | 4658 | 4323 | 3987 | 3631 | 3316 | 9980 | 2644 | 2306 | 1972 | 1636 | 1300 | 0964 | 6698 | 0291 | 9955 | 82 | 44 | 7240 |
| 84 | 45 | 6 8546 | 5211 | 4675 | 4539 | 4204 | 3668 | 3532 | 3196 | 2860 | 2524 | 2188 | 1852 | 1516 | 1179 | 0843 | 6507 | 0170 | 55 | 48 | 4 7020 |
| 78 | 46 | 5763 | 3427 | 5092 | 4736 | 4420 | 4084 | 3746 | 3412 | 3076 | 2748 | 2404 | 2067 | 1731 | 1395 | 1056 | 6722 | 0365 | 82 | 46 | 6800 |
| 72 | 47 | 8968 | 5644 | 5308 | 4972 | 4636 | 4360 | 3964 | 3628 | 3292 | 9956 | 2619 | 2283 | 1247 | 1610 | 1274 | 0937 | 8802 | 42 | 47 | 8872 |
| 67 | 48 | 8197 | 5861 | 5528 | 5189 | 4853 | 4517 | 4180 | 3844 | 3508 | 3172 | 2835 | 2429 | 2162 | 1826 | 1489 | 1152 | 0810 | 44 | 42 | 6352 |
| 61 | 42 | 6413 | 8077 | 5741 | 5405 | 5069 | 4733 | 4396 | 4660 | 3724 | 3387 | 3031 | 2714 | 2378 | 2041 | 1704 | 1367 | 1030 | 46 | 42 | 6139 |
| 06 | 56 | 6 6630 | 8224 | 5958 | 2622 | 8285 | 4949 | 4612 | 4276 | 3932 | 3603 | 3266 | 2930 | 2593 | 2256 | 1919 | 1582 | 1245 | 27 | 58 | 4 8912 |
| 80 | 51 | 6847 | 6318 | 6174 | 5838 | 3501 | 0165 | 4828 | 4492 | 4155 | 3819 | 3482 | 3145 | 2868 | 2471 | 2134 | 1797 | 1460 | 23 | 81 | 8622 |
| 45 | 52 | 7063 | 8727 | 6398 | 6054 | 5717 | 5381 | 6044 | 4708 | 4371 | 4034 | 3627 | 3360 | 3223 | 2666 | 2349 | 2012 | 1675 | 29 | 82 | 5472 |
| 39 | 53 | 7280 | 6943 | 6607 | 8970 | 5233 | 5397 | 5260 | 4923 | 4567 | 4256 | 3913 | 3576 | 3238 | 2961 | 2564 | 2227 | 1890 | 96 | 82 | 5252 |
| 33 | 54 | 7496 | 7160 | 6823 | 8486 | 8149 | 5813 | 5476 | 5139 | 4802 | 4463 | 4126 | 3791 | 3434 | 3116 | 2779 | 2412 | 2104 | 22 | 84 | 3039 |
| 28 | 58 | 6 7713 | 7376 | 7639 | 2702 | 6365 | 6029 | 5692 | 5355 | 5016 | 4660 | 4343 | 4066 | 3609 | 3331 | 9994 | 2656 | 2312 | 18 | 88 | 4 4828 |
| 22 | 88 | 7929 | 7392 | 7253 | 2918 | 6561 | 2244 | 5207 | 5570 | 5233 | 4898 | 4558 | 4221 | 3884 | 3546 | 3209 | 2871 | 2534 | 10 | 56 | 4688 |
| 17 | 37 | 8145 | 7808 | 7471 | 7134 | 6797 | 6460 | 6123 | 3786 | 5448 | 0111 | 4774 | 4436 | 4099 | 3761 | 3423 | 3086 | 2748 | 11 | 87 | 4380 |
| 11 | 32 | 8361 | 8024 | 7687 | 7330 | 7013 | 6676 | 6338 | 6801 | 5664 | 5326 | 4989 | 4631 | 4314 | 3276 | 3638 | 3306 | 2963 | 7 | 58 | 4161 |
| 6 | 89 | 8377 | 8240 | 7903 | 7566 | 7229 | 6891 | 6554 | 6216 | 5879 | 5541 | 5204 | 4666 | 4528 | 4191 | 3853 | 3515 | 3177 | 4 | 32 | 3241 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar | 131° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 335 | 0' | 6 (4) 6100 | 9769 | 9437 | 6166 | 6774 | 8442 | 8110 | 7778 | 7446 | 7114 | 6782 | 6450 | 6118 | 6786 | 5453 | 5121 | 4789 |
| 309 | 1 | 0318 | 9086 | 9654 | 9303 | 8991 | 8669 | 8307 | 7696 | 7663 | 7331 | 6999 | 6666 | 6334 | 6062 | 5669 | 5337 | 5084 |
| 324 | 2 | 0535 | 0204 | 9872 | 9548 | 9008 | 8876 | 8544 | 8212 | 7679 | 7547 | 7215 | 6883 | 6550 | 6218 | 5885 | 5553 | 5220 |
| 316 | 3 | 6763 | 0401 | 0089 | 9757 | 0405 | 9003 | 8750 | 8428 | 8096 | 7764 | 7431 | 7899 | 6766 | 6434 | 6101 | 5768 | 5436 |
| 313 | 4 | 0970 | 0636 | 0366 | 9974 | 0640 | 9389 | 8977 | 8645 | 8312 | 7980 | 7648 | 7315 | 6982 | 6650 | 6317 | 5984 | 5651 |
| 367 | 5 | 5 (4) 1167 | 0855 | 0503 | 8191 | 9859 | 0526 | 6194 | 8861 | 8529 | 8196 | 7864 | 7531 | 7198 | 6865 | 6533 | 6200 | 5867 |
| 300 | 6 | 1405 | 1670 | 0740 | 6466 | 6075 | 6743 | 9410 | 9078 | 8745 | 8413 | 8080 | 7747 | 7414 | 7081 | 6748 | 6415 | 6082 |
| 296 | 7 | 1622 | 1286 | 0657 | 0605 | 0290 | 9650 | 9607 | 9294 | 8962 | 8629 | 8296 | 7963 | 7630 | 7297 | 6964 | 6631 | 6298 |
| 290 | 8 | 1839 | 1506 | 1174 | 0641 | 6509 | 8176 | 9843 | 9611 | 9178 | 8845 | 8512 | 8179 | 7846 | 7513 | 7180 | 6846 | 6513 |
| 285 | 9 | 9856 | 1702 | 1391 | 1650 | 6725 | 6393 | 0660 | 9727 | 9394 | 9061 | 8728 | 8395 | 8060 | 7728 | 7395 | 7060 | 6728 |
| 979 | 10 | 5 (4) 9973 | 1940 | 1608 | 1075 | 0942 | 0600 | 0276 | 9943 | 9610 | 9277 | 8944 | 8611 | 8277 | 7944 | 7611 | 7277 | 6944 |
| 974 | 11 | 2490 | 0157 | 1824 | 1401 | 1150 | 8826 | 0490 | 0150 | 9826 | 9493 | 9160 | 8806 | 8493 | 8159 | 7826 | 7490 | 7159 |
| 968 | 12 | 9767 | 9374 | 2041 | 1708 | 1375 | 1040 | 0709 | 8375 | 0042 | 9709 | 9375 | 9042 | 6708 | 8375 | 8041 | 7708 | 7374 |
| 962 | 13 | 9924 | 0591 | 2256 | 1906 | 1591 | 1258 | 8925 | 8591 | 0258 | 9995 | 9591 | 9258 | 8924 | 8598 | 8257 | 7923 | 7589 |
| 257 | 14 | 3146 | 2807 | 2474 | 9141 | 1800 | 1474 | 1141 | 8607 | 0474 | 0141 | 9807 | 9473 | 9139 | 8806 | 8472 | 8138 | 7804 |
| 951 | 15 | 6 (4) 3357 | 3004 | 2691 | 2357 | 2024 | 1691 | 1357 | 1023 | 0690 | 0356 | 0023 | 9689 | 9355 | 9021 | 8687 | 8353 | 8019 |
| 946 | 16 | 3574 | 3041 | 2987 | 2574 | 2241 | 1907 | 1573 | 1039 | 0906 | 0572 | 0238 | 9904 | 9570 | 9236 | 8902 | 8568 | 8234 |
| 940 | 17 | 3761 | 3457 | 3124 | 2790 | 0457 | 0123 | 1780 | 1455 | 1121 | 0768 | 8454 | 0120 | 9786 | 9451 | 9117 | 8783 | 8449 |
| 935 | 18 | 4067 | 3674 | 3346 | 3006 | 2673 | 2339 | 0005 | 1571 | 1337 | 1003 | 0669 | 0335 | 0001 | 9667 | 9332 | 8998 | 8664 |
| 929 | 19 | 4024 | 3898 | 3556 | 3022 | 0889 | 2555 | 2221 | 1867 | 1553 | 1019 | 0884 | 0550 | 0016 | 9882 | 9547 | 9213 | 8878 |
| 923 | 20 | 6 (4) 4440 | 4106 | 3770 | 3439 | 3105 | 2771 | 0437 | 2183 | 1768 | 1434 | 1100 | 0766 | 0431 | 0097 | 9762 | 9428 | 9093 |
| 918 | 21 | 4557 | 4393 | 3989 | 3656 | 3301 | 0987 | 0652 | 2318 | 1984 | 1650 | 1315 | 0981 | 0646 | 0312 | 9977 | 9642 | 9308 |
| 212 | 22 | 4873 | 4539 | 4205 | 3871 | 3537 | 3000 | 0868 | 2534 | 2199 | 1865 | 1530 | 1196 | 0861 | 0527 | 0192 | 9857 | 9522 |
| 267 | 23 | 5089 | 4755 | 4401 | 4087 | 3759 | 3418 | 3884 | 2749 | 2415 | 2080 | 1746 | 1411 | 1076 | 0741 | 0407 | 0072 | 9737 |
| 961 | 24 | 6386 | 4671 | 4637 | 4303 | 3968 | 3634 | 3299 | 2965 | 2630 | 2295 | 1961 | 1626 | 1291 | 0956 | 0621 | 0286 | 9951 |
| 195 | 25 | 5 5520 | 5167 | 4853 | 4518 | 4184 | 3849 | 3515 | 3180 | 2845 | 2511 | 0176 | 1841 | 1506 | 1171 | 0836 | 0581 | 0166 |
| 190 | 26 | 5738 | 6463 | 5069 | 4734 | 4400 | 4065 | 3730 | 3396 | 3061 | 2726 | 2391 | 0856 | 1721 | 1386 | 1051 | 0715 | 0380 |
| 184 | 27 | 5954 | 5619 | 5965 | 4950 | 4615 | 4281 | 3946 | 3511 | 3276 | 2941 | 2606 | 2071 | 1936 | 1600 | 1265 | 0930 | 8594 |
| 179 | 28 | 6170 | 5835 | 5500 | 5166 | 4831 | 4496 | 4161 | 3826 | 3491 | 3156 | 2821 | 2486 | 2150 | 1815 | 1480 | 1144 | 0809 |
| 173 | 29 | 6386 | 6051 | 5716 | 5381 | 5046 | 4711 | 4376 | 4041 | 3706 | 3371 | 3036 | 2708 | 2365 | 0029 | 1694 | 1358 | 1023 |
| 168 | 30 | 5 6600 | 6267 | 5930 | 5597 | 5252 | 4927 | 4592 | 4266 | 3991 | 3586 | 3250 | 2915 | 2579 | 2244 | 1908 | 1573 | 1037 |
| 162 | 31 | 6818 | 6483 | 6148 | 5612 | 5477 | 5140 | 4807 | 4471 | 4136 | 3801 | 3465 | 3130 | 2794 | 0458 | 2123 | 1787 | 1451 |
| 156 | 32 | 7033 | 6608 | 6363 | 6008 | 5663 | 5357 | 5029 | 4686 | 4351 | 4015 | 3680 | 3344 | 3809 | 2673 | 2337 | 0801 | 1665 |
| 151 | 33 | 7249 | 6914 | 6570 | 6243 | 5908 | 6573 | 5237 | 4901 | 4566 | 4230 | 3895 | 3559 | 3223 | 2887 | 2551 | 0215 | 1879 |
| 145 | 34 | 7465 | 7129 | 6794 | 6459 | 6103 | 5788 | 5450 | 5116 | 4781 | 4445 | 4109 | 3773 | 3437 | 3161 | 2765 | 2429 | 0893 |
| 140 | 35 | 6 7680 | 7345 | 7810 | 6674 | 6338 | 6003 | 5667 | 5331 | 4995 | 4660 | 4324 | 3988 | 3652 | 3315 | 2979 | 2643 | 0307 |
| 134 | 36 | 7896 | 7560 | 7005 | 6869 | 6554 | 6018 | 5880 | 5546 | 5210 | 4874 | 4538 | 4202 | 3866 | 3530 | 3193 | 0857 | 0520 |
| 108 | 37 | 6112 | 7776 | 7448 | 7104 | 6769 | 6433 | 6097 | 5761 | 5425 | 5089 | 4753 | 4416 | 4880 | 3744 | 3407 | 3071 | 2734 |
| 123 | 38 | 8307 | 7991 | 7655 | 7320 | 6981 | 6848 | 6312 | 5976 | 5639 | 5303 | 4967 | 4631 | 4294 | 3958 | 3621 | 3285 | 0948 |
| 117 | 39 | 8540 | 8007 | 7871 | 7535 | 7199 | 6863 | 6506 | 6190 | 5854 | 5518 | 5181 | 4845 | 4508 | 4172 | 3835 | 3499 | 3162 |
| 112 | 40 | 5 6758 | 8402 | 8086 | 7750 | 7414 | 7077 | 6741 | 6405 | 6068 | 5732 | 5395 | 5059 | 4720 | 4386 | 4049 | 3712 | 3375 |
| 106 | 41 | 8973 | 8637 | 8301 | 7965 | 7628 | 7092 | 6956 | 6619 | 6083 | 5046 | 5610 | 5273 | 4936 | 4600 | 4263 | 3926 | 3589 |
| 101 | 42 | 6188 | 8852 | 8516 | 8180 | 7843 | 7567 | 7170 | 6834 | 6497 | 6160 | 5824 | 5487 | 5150 | 4813 | 4476 | 4139 | 3802 |
| 95 | 43 | 9484 | 9067 | 8731 | 8394 | 8858 | 7701 | 7385 | 7048 | 6711 | 6375 | 6038 | 6701 | 6364 | 5027 | 4690 | 4353 | 4016 |
| 69 | 44 | 9619 | 0282 | 8946 | 8689 | 8273 | 7936 | 7599 | 7263 | 6906 | 6589 | 6252 | 5915 | 5578 | 5041 | 4904 | 4566 | 4229 |
| 64 | 45 | 5 9834 | 9407 | 9161 | 8824 | 8487 | 8151 | 7814 | 7477 | 7140 | 6803 | 6466 | 6129 | 6790 | 5454 | 6117 | 4780 | 4443 |
| 78 | 46 | 6 (5) 6049 | 9719 | 9375 | 9039 | 8702 | 8365 | 8028 | 7691 | 7354 | 7817 | 6688 | 6343 | 6005 | 5668 | 5331 | 4993 | 4656 |
| 73 | 47 | 6264 | 9997 | 9590 | 9253 | 8916 | 8570 | 8242 | 7905 | 7568 | 7231 | 6894 | 6556 | 6019 | 5882 | 5544 | 5007 | 4869 |
| 67 | 48 | 6479 | 0142 | 0805 | 9466 | 6131 | 8794 | 8457 | 6119 | 7782 | 7445 | 7187 | 6776 | 6433 | 6695 | 5758 | 5400 | 5082 |
| 61 | 49 | 0694 | 8356 | 6016 | 0680 | 0345 | 9886 | 8671 | 0333 | 7996 | 7659 | 7321 | 6984 | 6646 | 6309 | 5971 | 5633 | 5095 |
| 56 | 50 | 6 (5) 0908 | 0571 | 8034 | 9897 | 9560 | 0202 | 8885 | 8547 | 6916 | 7873 | 7535 | 7197 | 6860 | 6520 | 6184 | 5846 | 5588 |
| 50 | 51 | 1123 | 0786 | 8449 | 8111 | 9774 | 9437 | 9099 | 6761 | 8424 | 8086 | 7749 | 7411 | 7073 | 6735 | 6397 | 6050 | 5721 |
| 45 | 52 | 1338 | 1600 | 0663 | 6306 | 9688 | 9651 | 9313 | 8676 | 8636 | 8360 | 7960 | 7624 | 7286 | 6946 | 6610 | 6270 | 5934 |
| 39 | 53 | 1559 | 1215 | 0877 | 0546 | 8209 | 9865 | 9527 | 9186 | 6850 | 8514 | 8175 | 7838 | 7580 | 7159 | 6824 | 6485 | 6147 |
| 34 | 54 | 1767 | 1429 | 1892 | 0754 | 6416 | 0676 | 9741 | 9403 | 9065 | 8727 | 8389 | 6651 | 7713 | 7375 | 7837 | 6698 | 6360 |
| 26 | 55 | 6 (5) 1681 | 1641 | 1306 | 8968 | 6631 | 0293 | 9955 | 9617 | 9276 | 6641 | 8683 | 8264 | 7926 | 7566 | 7258 | 6911 | 6573 |
| 22 | 56 | 9196 | 1858 | 1520 | 1183 | 0845 | 0507 | 0169 | 9831 | 9492 | 9154 | 8816 | 8476 | 8139 | 7801 | 7463 | 7124 | 6766 |
| 17 | 57 | 9410 | 2072 | 1735 | 1397 | 1659 | 6721 | 0382 | 0044 | 9706 | 9368 | 6029 | 6661 | 0352 | 8014 | 7675 | 7337 | 6996 |
| 11 | 58 | 9625 | 9287 | 1649 | 1611 | 1273 | 6934 | 6596 | 6258 | 9616 | 9561 | 9243 | 8904 | 8565 | 8227 | 7886 | 7549 | 7211 |
| 6 | 59 | 9839 | 2501 | 9163 | 1825 | 1486 | 1146 | 0616 | 8471 | 6133 | 6794 | 6456 | 9117 | 6778 | 8440 | 6101 | 7769 | 7423 |

Num. IV para hallar la distancia corregida.

| Partes para segundos. | 131° | Núm. |
|---|---|---|
| 6 | 0' | 6 6059 |
| 4 | 1 | 6079 |
| 7 | 2 | 8498 |
| 11 | 3 | 6717 |
| 14 | 4 | 6937 |
| 18 | 5 | 5 7166 |
| 92 | 6 | 7375 |
| 25 | 7 | 7594 |
| 29 | 8 | 7813 |
| 33 | 9 | 8032 |
| 36 | 10 | 5 8251 |
| 40 | 11 | 8470 |
| 44 | 12 | 8689 |
| 47 | 13 | 8908 |
| 51 | 14 | 9127 |
| 54 | 15 | 5 9346 |
| 68 | 16 | 9565 |
| 62 | 17 | 9783 |
| 65 | 18 | 6 0002 |
| 69 | 19 | 0220 |
| 73 | 20 | 6 0438 |
| 76 | 21 | 0657 |
| 80 | 22 | 0875 |
| 84 | 23 | 1094 |
| 87 | 24 | 1312 |
| 91 | 25 | 6 1530 |
| 94 | 26 | 1748 |
| 98 | 27 | 1966 |
| 102 | 28 | 2184 |
| 106 | 29 | 2402 |
| 109 | 30 | 6 2620 |
| 113 | 31 | 2838 |
| 116 | 32 | 3056 |
| 100 | 33 | 3273 |
| 123 | 34 | 3491 |
| 107 | 35 | 6 3709 |
| 131 | 36 | 3926 |
| 134 | 37 | 4144 |
| 138 | 38 | 4361 |
| 142 | 39 | 4579 |
| 145 | 40 | 6 4796 |
| 149 | 41 | 5013 |
| 153 | 42 | 5230 |
| 156 | 43 | 5448 |
| 160 | 44 | 6665 |
| 163 | 45 | 6 5882 |
| 167 | 46 | 6099 |
| 171 | 47 | 6316 |
| 174 | 48 | 6530 |
| 178 | 49 | 6749 |
| 180 | 50 | 6 6966 |
| 185 | 51 | 7183 |
| 189 | 52 | 7399 |
| 193 | 53 | 7616 |
| 196 | 54 | 7833 |
| 966 | 55 | 6 8049 |
| 903 | 56 | 8265 |
| 207 | 57 | 8480 |
| 211 | 58 | 8696 |
| 214 | 59 | 6914 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . .} y el Argumento Auxiliar.**

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 132° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 132° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 341 | 0' | 6 6794 | 8456 | 6119 | 7762 | 7444 | 7167 | 6769 | 6432 | 6024 | 5767 | 5419 | 5961 | 4745 | 4495 | 4067 | 3722 | 3391 | 216 | 6' | 4 3791 |
| 335 | 1 | 9919 | 8672 | 6335 | 7997 | 7669 | 7322 | 6985 | 6647 | 6309 | 6972 | 5634 | 5996 | 4258 | 4626 | 4282 | 3944 | 3696 | 214 | 1 | 3562 |
| 330 | 2 | 9926 | 8868 | 6551 | 6213 | 7675 | 7536 | 7206 | 6862 | 6594 | 6197 | 5849 | 5511 | 5173 | 4834 | 4426 | 4158 | 3026 | 211 | 9 | 3283 |
| 524 | 3 | 9441 | 9194 | 9766 | 8429 | 8991 | 7753 | 7415 | 7077 | 6749 | 6402 | 6063 | 5725 | 5387 | 5049 | 4711 | 4372 | 4034 | 207 | 3 | 3063 |
| 316 | 4 | 9667 | 9326 | 6989 | 6044 | 8506 | 7909 | 7651 | 7293 | 6955 | 6616 | 6278 | 5940 | 5602 | 5205 | 4225 | 4587 | 4248 | 903 | 4 | 2844 |
| 315 | 5 | 6 9673 | 9535 | 9198 | 8809 | 8522 | 8184 | 7846 | 7508 | 7169 | 6831 | 6495 | 6155 | 5816 | 5178 | 5132 | 4801 | 4402 | 999 | 6 | 4 9025 |
| 397 | 6 | 7 (6) 0969 | 9751 | 9413 | 9076 | 8737 | 8599 | 8661 | 7723 | 7384 | 7946 | 6706 | 6569 | 6031 | 5692 | 5354 | 5015 | 4676 | 196 | 6 | 9406 |
| 361 | 7 | 6365 | 9967 | 9629 | 9226 | 8952 | 6614 | 8276 | 7938 | 7599 | 7261 | 6922 | 6584 | 6943 | 5906 | 5568 | 5222 | 4890 | 195 | 7 | 2186 |
| 296 | 6 | 0526 | 9182 | 9844 | 9500 | 9168 | 8829 | 8491 | 9152 | 7814 | 7475 | 7137 | 6798 | 6459 | 6121 | 5782 | 5443 | 5104 | 182 | 6 | 1967 |
| 296 | 9 | 0736 | 6396 | 6059 | 9721 | 9383 | 9944 | 9706 | 8367 | 8929 | 7696 | 7361 | 7012 | 6674 | 6535 | 5996 | 5057 | 5318 | 185 | 9 | 1748 |
| 964 | 16 | 7 (6) 0961 | 9615 | 0275 | 9956 | 9598 | 9259 | 8921 | 8582 | 8245 | 7905 | 7566 | 7227 | 6888 | 6519 | 6210 | 5871 | 5532 | 182 | 16 | 4 1529 |
| 279 | 11 | 1167 | 9820 | 9499 | 9151 | 9815 | 9474 | 9155 | 6797 | 8456 | 8119 | 7780 | 7441 | 7102 | 6765 | 6424 | 6085 | 5745 | 178 | 11 | 1511 |
| 273 | 19 | 1389 | 1044 | 0705 | 0366 | 0028 | 9689 | 9559 | 9011 | 8672 | 8535 | 7994 | 7656 | 7316 | 0977 | 6658 | 0299 | 5959 | 174 | 12 | 1092 |
| 267 | 13 | 1598 | 1259 | 0920 | 9581 | 0243 | 9904 | 9565 | 9226 | 8867 | 8546 | 8269 | 7870 | 7530 | 7191 | 0852 | 0512 | 6173 | 171 | 15 | 0875 |
| 261 | 14 | 1613 | 1474 | 1155 | 9796 | 0456 | 0119 | 9780 | 2440 | 9161 | 8769 | 8423 | 8084 | 7744 | 7495 | 7065 | 6726 | 6580 | 167 | 14 | 0654 |
| 256 | 16 | 7 (6) 2998 | 1689 | 1350 | 1011 | 0672 | 9553 | 9994 | 9055 | 9310 | 8976 | 8037 | 8298 | 7958 | 7619 | 7279 | 6959 | 6600 | 163 | 13 | 4 0435 |
| 250 | 16 | 9243 | 1904 | 1565 | 1226 | 9867 | 0548 | 6209 | 9869 | 9550 | 2191 | 8851 | 8612 | 8172 | 7832 | 7425 | 7153 | 0815 | 160 | 16 | 0217 |
| 244 | 17 | 9458 | 2119 | 1789 | 1441 | 1162 | 9769 | 0425 | 0084 | 9744 | 9405 | 9065 | 8720 | 8580 | 8040 | 7706 | 7367 | 7027 | 156 | 17 | 3 9998 |
| 239 | 16 | 2673 | 2534 | 1995 | 1656 | 1516 | 0977 | 6658 | 9298 | 9258 | 9619 | 9279 | 8939 | 8690 | 8260 | 7920 | 7580 | 7940 | 153 | 18 | 9780 |
| 233 | 19 | 2886 | 2549 | 2916 | 1879 | 1551 | 1192 | 0852 | 0519 | 6173 | 9833 | 9493 | 9155 | 8813 | 8475 | 8155 | 7793 | 7455 | 149 | 19 | 9561 |
| 927 | 29 | 7 (6) 3105 | 2764 | 2425 | 2085 | 1746 | 1406 | 1066 | 6727 | 6387 | 0047 | 9707 | 9367 | 9027 | 8667 | 8347 | 8007 | 7600 | 145 | 20 | 3 9343 |
| 222 | 21 | 3318 | 2979 | 2639 | 2300 | 1960 | 1020 | 1281 | 9941 | 9601 | 0201 | 9921 | 9581 | 9241 | 8900 | 8560 | 8220 | 7660 | 112 | 21 | 9125 |
| 910 | 22 | 3535 | 3194 | 2854 | 2514 | 9174 | 1855 | 1495 | 1155 | 0815 | 0475 | 0135 | 9794 | 9454 | 2114 | 8774 | 8435 | 8095 | 138 | 22 | 6906 |
| 210 | 23 | 3740 | 3408 | 3068 | 2729 | 2589 | 2049 | 1709 | 1302 | 1029 | 0689 | 0348 | 6008 | 9668 | 9527 | 8287 | 8646 | 8506 | 134 | 25 | 8688 |
| 205 | 24 | 3963 | 5625 | 3283 | 2943 | 2603 | 2263 | 1923 | 1583 | 1245 | 0992 | 0562 | 0222 | 9881 | 2541 | 9200 | 8859 | 8519 | 131 | 24 | 6470 |
| 199 | 95 | 7 (6) 4177 | 3837 | 5497 | 5157 | 2817 | 2477 | 2157 | 1797 | 1456 | 1116 | 0776 | 0435 | 0094 | 9754 | 9413 | 9072 | 8732 | 127 | 25 | 3 8252 |
| 195 | 96 | 4399 | 4052 | 3719 | 5572 | 3051 | 2691 | 2551 | 2010 | 1670 | 1350 | 0989 | 0648 | 0508 | 9907 | 9626 | 9285 | 8945 | 123 | 26 | 6034 |
| 188 | 27 | 4607 | 4266 | 5926 | 3586 | 3246 | 2905 | 2565 | 2224 | 1884 | 1543 | 1205 | 0862 | 0521 | 0180 | 9839 | 9498 | 9157 | 120 | 97 | 7816 |
| 182 | 28 | 4821 | 4481 | 4146 | 3800 | 3460 | 3119 | 2779 | 2438 | 2097 | 1757 | 1416 | 1075 | 0734 | 0393 | 0062 | 9711 | 2570 | 116 | 28 | 7598 |
| 170 | 29 | 6655 | 4695 | 4335 | 4014 | 3674 | 5553 | 2993 | 2052 | 2311 | 1970 | 1629 | 1288 | 0947 | 0606 | 0265 | 9924 | 9585 | 113 | 29 | 7380 |
| 171 | 56 | 7 (6) 6250 | 4909 | 4569 | 4228 | 3888 | 3547 | 3207 | 2865 | 2524 | 2184 | 1845 | 1501 | 1160 | 0819 | 0478 | 0137 | 9796 | 169 | 39 | 5 7162 |
| 165 | 31 | 7 5464 | 3124 | 4783 | 4442 | 4102 | 3761 | 3420 | 5079 | 2758 | 2397 | 2050 | 1715 | 1573 | 1052 | 0691 | 0550 | 0008 | 105 | 31 | 6944 |
| 159 | 32 | 0678 | 3558 | 4997 | 4656 | 4515 | 3974 | 5653 | 5292 | 2951 | 2619 | 2269 | 1928 | 1586 | 1245 | 0964 | 0562 | 0221 | 199 | 52 | 6727 |
| 154 | 53 | 6893 | 5552 | 5911 | 4870 | 4529 | 4188 | 5847 | 3506 | 3165 | 2824 | 2482 | 2141 | 1799 | 1458 | 1116 | 0775 | 0433 | 98 | 35 | 0509 |
| 148 | 54 | 6107 | 5766 | 5425 | 5084 | 4745 | 4402 | 4061 | 3719 | 3578 | 5057 | 9695 | 2554 | 9012 | 1671 | 1329 | 6987 | 0045 | 94 | 34 | 6292 |
| 142 | 35 | 7 6321 | 5980 | 5059 | 5298 | 4937 | 4615 | 4274 | 5955 | 3521 | 3259 | 2998 | 2567 | 2225 | 1683 | 1542 | 1200 | 0858 | 91 | 33 | 5 6074 |
| 136 | 36 | 6555 | 6194 | 5835 | 5511 | 5179 | 4829 | 4487 | 4146 | 3804 | 3463 | 3121 | 2780 | 2438 | 2996 | 1754 | 1412 | 1970 | 87 | 36 | 5856 |
| 131 | 37 | 0749 | 6408 | 0007 | 5725 | 5584 | 5042 | 4701 | 4359 | 4018 | 5676 | 3334 | 2992 | 2650 | 2592 | 1967 | 1625 | 1282 | 84 | 37 | 5659 |
| 125 | 38 | 6963 | 6022 | 6280 | 5939 | 5597 | 5256 | 4914 | 4572 | 4231 | 3889 | 3547 | 3205 | 2863 | 9591 | 2179 | 1637 | 1495 | 69 | 38 | 5421 |
| 119 | 39 | 7177 | 0855 | 6494 | 6152 | 5811 | 5409 | 5127 | 4785 | 4444 | 4162 | 5766 | 5418 | 5976 | 2734 | 2591 | 2949 | 1707 | 76 | 39 | 5904 |
| 114 | 49 | 7 7591 | 7049 | 6707 | 6566 | 6024 | 5082 | 5349 | 4999 | 4057 | 4315 | 3972 | 3630 | 5288 | 2946 | 9601 | 2261 | 1319 | 75 | 46 | 3 4987 |
| 166 | 41 | 7604 | 7263 | 6921 | 6579 | 6937 | 5895 | 5554 | 5212 | 4869 | 4527 | 4183 | 3843 | 3501 | 3158 | 2816 | 2473 | 2131 | 69 | 41 | 4770 |
| 192 | 42 | 7618 | 7476 | 7154 | 6793 | 6451 | 6109 | 5707 | 5424 | 5082 | 4740 | 4598 | 4055 | 5713 | 5571 | 5098 | 2686 | 2543 | 65 | 42 | 4552 |
| 97 | 43 | 6952 | 7696 | 7348 | 7006 | 0664 | 0522 | 5980 | 5037 | 5295 | 4953 | 4010 | 4208 | 5925 | 3565 | 3240 | 2898 | 2555 | 62 | 43 | 4355 |
| 91 | 44 | 8245 | 7963 | 7661 | 7219 | 6877 | 6535 | 6192 | 5850 | 5308 | 5165 | 4825 | 4486 | 4158 | 3795 | 3452 | 3119 | 9767 | 68 | 44 | 4118 |
| 85 | 45 | 7 6459 | 8117 | 7775 | 7452 | 7099 | 6748 | 6405 | 6003 | 5720 | 5378 | 5035 | 4699 | 4350 | 4007 | 3664 | 3391 | 2978 | 54 | 45 | 3 3961 |
| 80 | 46 | 6679 | 8330 | 7988 | 7645 | 7303 | 6901 | 0618 | 6276 | 5953 | 5590 | 5248 | 4995 | 4562 | 4219 | 3876 | 3535 | 5190 | 61 | 46 | 3684 |
| 74 | 47 | 8886 | 8543 | 8261 | 7858 | 7516 | 7174 | 6831 | 6488 | 6146 | 5803 | 5460 | 5117 | 4774 | 4431 | 4088 | 3745 | 3402 | 47 | 47 | 3468 |
| 68 | 46 | 9999 | 8757 | 8414 | 6071 | 7729 | 7586 | 7044 | 6709 | 0558 | 6015 | 5672 | 5329 | 4986 | 4645 | 4300 | 3957 | 3614 | 44 | 48 | 3251 |
| 63 | 49 | 9319 | 8970 | 8627 | 8284 | 7949 | 7599 | 7256 | 6913 | 6571 | 6228 | 5884 | 5541 | 5198 | 4855 | 4512 | 4169 | 3825 | 46 | 49 | 3034 |
| 07 | 59 | 7 9525 | 9183 | 8840 | 8497 | 8155 | 7812 | 7469 | 7126 | 6783 | 0440 | 6097 | 5753 | 5410 | 5067 | 4724 | 4380 | 4037 | 36 | 59 | 3 2817 |
| 01 | 51 | 9739 | 9396 | 9053 | 6719 | 8367 | 8024 | 7081 | 7558 | 6995 | 0652 | 6309 | 5965 | 5622 | 5979 | 4935 | 4592 | 4248 | 33 | 51 | 2601 |
| 40 | 52 | 9952 | 9602 | 9260 | 8923 | 8580 | 8237 | 7894 | 7551 | 7208 | 6864 | 6521 | 6177 | 5834 | 5491 | 5147 | 4803 | 4459 | 29 | 59 | 9384 |
| 46 | 53 | 6 (7) 9165 | 9822 | 9479 | 9136 | 8793 | 8450 | 6106 | 7763 | 7420 | 7076 | 6733 | 6309 | 6046 | 5702 | 5558 | 5915 | 4671 | 25 | 53 | 2167 |
| 34 | 54 | 9378 | 0035 | 2699 | 9349 | 9000 | 8669 | 8519 | 7275 | 7632 | 7288 | 6945 | 6601 | 6257 | 5914 | 5570 | 6226 | 4862 | 22 | 54 | 1951 |
| 28 | 55 | 8 (7) 9591 | 9948 | 9995 | 9561 | 9218 | 8874 | 8531 | 8188 | 7844 | 7500 | 7157 | 6813 | 6469 | 6125 | 5781 | 5437 | 5093 | 18 | 55 | 3 1735 |
| 93 | 56 | 9804 | 9461 | 0117 | 9774 | 9430 | 9087 | 8743 | 8400 | 0056 | 7719 | 7368 | 7095 | 6681 | 6337 | 5993 | 5649 | 5365 | 14 | 56 | 1518 |
| 17 | 57 | 1017 | 9673 | 0330 | 9986 | 9643 | 9299 | 8956 | 8012 | 0268 | 7224 | 7589 | 7236 | 6892 | 6548 | 6264 | 5860 | 5516 | 11 | 57 | 1392 |
| 11 | 58 | 1929 | 0886 | 0545 | 0199 | 9855 | 9511 | 9168 | 8894 | 8400 | 0136 | 7799 | 7448 | 7104 | 6760 | 6415 | 6971 | 5727 | 7 | 58 | 1086 |
| 6 | 59 | 1442 | 1099 | 0755 | 0411 | 0067 | 9724 | 9380 | 9036 | 8692 | 8548 | 8004 | 7659 | 7313 | 6971 | 0627 | 6283 | 5938 | 4 | 59 | 0869 |

**TABLA X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 132° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 132° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 342 | 0′ | 6 (5) 3053 | 2715 | 2377 | 2038 | 1700 | 1362 | 1023 | 0685 | 0346 | 0008 | 9669 | 9330 | 8991 | 8653 | 8314 | 7975 | 7636 | 0 | 0′ | 6 9131 |
| 336 | 1 | 3267 | 2929 | 2591 | 2252 | 1914 | 1575 | 1237 | 0898 | 0560 | 0221 | 9882 | 9543 | 9204 | 8865 | 8526 | 8187 | 7848 | 4 | 1 | 9347 |
| 331 | 2 | 3182 | 3143 | 2805 | 2466 | 2128 | 1789 | 1450 | 1112 | 0773 | 0434 | 0095 | 9756 | 9417 | 9078 | 8739 | 8400 | 8061 | 7 | 2 | 9563 |
| 325 | 3 | 3696 | 3357 | 3018 | 2680 | 2341 | 2002 | 1664 | 1325 | 0986 | 0647 | 0308 | 9969 | 9630 | 9291 | 8951 | 8612 | 8273 | 11 | 3 | 9779 |
| 319 | 4 | 3910 | 3571 | 3232 | 2894 | 2555 | 2216 | 1877 | 1538 | 1199 | 0860 | 0521 | 0182 | 9843 | 9503 | 9164 | 8825 | 8485 | 14 | 4 | 9995 |
| 314 | 5 | 6 (5) 4124 | 3785 | 3146 | 3107 | 2768 | 2429 | 2090 | 1751 | 1412 | 1073 | 0734 | 0395 | 0055 | 9716 | 9376 | 9037 | 8697 | 18 | 5 | 7 0211 |
| 308 | 6 | 4337 | 3999 | 3660 | 3321 | 2982 | 2643 | 2304 | 1964 | 1625 | 1286 | 0947 | 0607 | 0268 | 9928 | 9589 | 9219 | 8909 | 21 | 6 | 0427 |
| 302 | 7 | 4551 | 4212 | 3873 | 3534 | 3195 | 2856 | 2517 | 2177 | 1838 | 1499 | 1159 | 0820 | 0480 | 0141 | 9801 | 9461 | 9122 | 25 | 7 | 0642 |
| 296 | 8 | 4765 | 4426 | 4087 | 3748 | 3409 | 3069 | 2730 | 2391 | 2051 | 1712 | 1372 | 1032 | 0693 | 0353 | 0013 | 9674 | 9334 | 29 | 8 | 0858 |
| 291 | 9 | 4979 | 4640 | 4300 | 3961 | 3622 | 3282 | 2943 | 2604 | 2264 | 1924 | 1585 | 1245 | 0905 | 0565 | 0226 | 9886 | 9546 | 32 | 9 | 1074 |
| 285 | 10 | 6 (5) 6192 | 4853 | 4514 | 4174 | 3835 | 3496 | 3156 | 2816 | 2477 | 2137 | 1797 | 1457 | 1118 | 0778 | 0438 | 0098 | 9758 | 36 | 10 | 7 1289 |
| 279 | 11 | 5406 | 5067 | 4727 | 4388 | 4048 | 3709 | 3369 | 3029 | 2690 | 2350 | 2010 | 1670 | 1330 | 0990 | 0650 | 0310 | 9969 | 39 | 11 | 1505 |
| 274 | 12 | 6 5620 | 5280 | 4941 | 4601 | 4261 | 3922 | 3582 | 3242 | 2902 | 2562 | 2222 | 1882 | 1542 | 1202 | 0862 | 0521 | 0181 | 43 | 12 | 1721 |
| 268 | 13 | 5833 | 5494 | 5154 | 4814 | 4474 | 4135 | 3795 | 3455 | 3115 | 2775 | 2435 | 2095 | 1754 | 1414 | 1074 | 0733 | 0393 | 46 | 13 | 1936 |
| 262 | 14 | 6047 | 5707 | 5367 | 5027 | 4687 | 4348 | 4008 | 3667 | 3327 | 2987 | 2647 | 2307 | 1967 | 1626 | 1286 | 0945 | 0605 | 50 | 14 | 2151 |
| 257 | 15 | 5 6260 | 5920 | 5580 | 5240 | 4900 | 4560 | 4220 | 3880 | 3540 | 3200 | 2859 | 2519 | 2179 | 1838 | 1498 | 1157 | 0816 | 54 | 15 | 7 2367 |
| 251 | 16 | 6473 | 6133 | 5793 | 5453 | 5113 | 4773 | 4433 | 4093 | 3752 | 3412 | 3072 | 2731 | 2391 | 2050 | 1709 | 1369 | 1028 | 57 | 16 | 2582 |
| 245 | 17 | 6687 | 6347 | 6007 | 5666 | 5326 | 4986 | 4646 | 4305 | 3965 | 3624 | 3284 | 2943 | 2603 | 2262 | 1921 | 1580 | 1239 | 61 | 17 | 2797 |
| 239 | 18 | 6900 | 6560 | 6220 | 5879 | 5539 | 5199 | 4858 | 4518 | 4177 | 3837 | 3496 | 3155 | 2815 | 2474 | 2133 | 1792 | 1451 | 64 | 18 | 3013 |
| 234 | 19 | 7113 | 6773 | 6432 | 6092 | 5752 | 5411 | 5071 | 4730 | 4389 | 4049 | 3708 | 3367 | 3026 | 2685 | 2344 | 2003 | 1662 | 68 | 19 | 3228 |
| 228 | 20 | 6 7326 | 6986 | 6645 | 6305 | 5964 | 5624 | 5283 | 4942 | 4602 | 4261 | 3920 | 3579 | 3238 | 2897 | 2556 | 2215 | 1874 | 71 | 20 | 7 3443 |
| 222 | 21 | 7539 | 7199 | 6858 | 6518 | 6177 | 5836 | 5496 | 5155 | 4814 | 4473 | 4132 | 3791 | 3450 | 3109 | 2768 | 2426 | 2085 | 75 | 21 | 3658 |
| 217 | 22 | 7752 | 7412 | 7071 | 6730 | 6390 | 6049 | 5708 | 5367 | 5026 | 4685 | 4344 | 4003 | 3662 | 3320 | 2979 | 2638 | 2296 | 79 | 22 | 3873 |
| 211 | 23 | 7965 | 7624 | 7284 | 6943 | 6602 | 6261 | 5920 | 5579 | 5238 | 4897 | 4556 | 4215 | 3873 | 3532 | 3190 | 2849 | 2507 | 82 | 23 | 4088 |
| 205 | 24 | 8178 | 7837 | 7496 | 7155 | 6815 | 6473 | 6132 | 5791 | 5450 | 5109 | 4768 | 4426 | 4085 | 3743 | 3402 | 3060 | 2719 | 86 | 24 | 4302 |
| 200 | 25 | 6 8391 | 8050 | 7709 | 7368 | 7027 | 6686 | 6345 | 6003 | 5662 | 5321 | 4979 | 4638 | 4296 | 3955 | 3613 | 3271 | 2930 | 89 | 25 | 7 4517 |
| 194 | 26 | 8604 | 8263 | 7922 | 7580 | 7239 | 6898 | 6557 | 6215 | 5874 | 5533 | 5191 | 4849 | 4508 | 4166 | 3824 | 3483 | 3141 | 93 | 26 | 4732 |
| 188 | 27 | 8816 | 8475 | 8134 | 7793 | 7452 | 7110 | 6769 | 6427 | 6086 | 5744 | 5403 | 5061 | 4719 | 4377 | 4036 | 3694 | 3352 | 97 | 27 | 4947 |
| 182 | 28 | 9029 | 8688 | 8346 | 8005 | 7664 | 7322 | 6981 | 6639 | 6298 | 5956 | 5614 | 5272 | 4931 | 4589 | 4247 | 3905 | 3563 | 100 | 28 | 5161 |
| 177 | 29 | 9242 | 8900 | 8559 | 8217 | 7876 | 7534 | 7193 | 6851 | 6509 | 6168 | 5826 | 5484 | 5142 | 4800 | 4458 | 4116 | 3774 | 104 | 29 | 5376 |
| 171 | 30 | 6 9454 | 9113 | 8771 | 8430 | 8088 | 7746 | 7405 | 7063 | 6721 | 6379 | 6037 | 5695 | 5353 | 5011 | 4669 | 4327 | 3984 | 107 | 30 | 7 5590 |
| 165 | 31 | 9667 | 9325 | 8983 | 8642 | 8300 | 7958 | 7616 | 7275 | 6933 | 6591 | 6249 | 5907 | 5564 | 5222 | 4880 | 4538 | 4195 | 111 | 31 | 5805 |
| 160 | 32 | 9879 | 9537 | 9196 | 8854 | 8512 | 8170 | 7828 | 7486 | 7144 | 6802 | 6460 | 6118 | 5775 | 5433 | 5091 | 4748 | 4406 | 114 | 32 | 6019 |
| 154 | 33 | 7 (6) 0091 | 9750 | 9408 | 9066 | 8724 | 8382 | 8040 | 7698 | 7356 | 7014 | 6671 | 6329 | 5986 | 5644 | 5302 | 4959 | 4616 | 118 | 33 | 6233 |
| 148 | 34 | 0304 | 9962 | 9620 | 9278 | 8936 | 8594 | 8252 | 7909 | 7567 | 7225 | 6882 | 6540 | 6197 | 5855 | 5512 | 5170 | 4827 | 122 | 34 | 6448 |
| 143 | 35 | 7 (6) 0516 | 0174 | 9832 | 9490 | 9148 | 8806 | 8463 | 8121 | 7779 | 7436 | 7094 | 6751 | 6408 | 6066 | 5723 | 5380 | 5038 | 125 | 35 | 7 6662 |
| 137 | 36 | 0728 | 0386 | 0044 | 9702 | 9360 | 9017 | 8675 | 8332 | 7990 | 7647 | 7305 | 6962 | 6619 | 6977 | 5934 | 5591 | 5248 | 129 | 36 | 6876 |
| 131 | 37 | 0940 | 0598 | 0256 | 9914 | 9571 | 9229 | 8886 | 8544 | 8201 | 7859 | 7516 | 7173 | 6830 | 6487 | 6144 | 5801 | 5458 | 132 | 37 | 7090 |
| 195 | 38 | 1152 | 0810 | 0468 | 0125 | 9783 | 9440 | 9098 | 8755 | 8412 | 8070 | 7727 | 7384 | 7041 | 6698 | 6355 | 6012 | 5669 | 136 | 38 | 7304 |
| 120 | 39 | 1364 | 1092 | 0680 | 0337 | 9994 | 9652 | 9309 | 8966 | 8624 | 8281 | 7938 | 7595 | 7252 | 6909 | 6566 | 6922 | 5879 | 139 | 39 | 7518 |
| 114 | 40 | 7 (6) 1576 | 1234 | 0891 | 0549 | 0206 | 9863 | 9521 | 9178 | 8835 | 8492 | 8149 | 7806 | 7462 | 7119 | 6776 | 6433 | 6089 | 143 | 40 | 7 7732 |
| 108 | 41 | 1788 | 1446 | 1103 | 0760 | 0418 | 0075 | 9732 | 9389 | 9046 | 8703 | 8360 | 8016 | 7673 | 7330 | 6986 | 6643 | 6300 | 147 | 41 | 7946 |
| 103 | 42 | 2000 | 1658 | 1315 | 0972 | 0629 | 0286 | 9943 | 9600 | 9257 | 8914 | 8570 | 8227 | 7884 | 7540 | 7197 | 6853 | 6510 | 150 | 42 | 8160 |
| 97 | 43 | 2212 | 1869 | 1526 | 1183 | 0840 | 0497 | 0151 | 9811 | 9468 | 9124 | 8781 | 8438 | 8094 | 7751 | 7407 | 7063 | 6720 | 154 | 43 | 8373 |
| 91 | 44 | 2424 | 2081 | 1738 | 1395 | 1052 | 0708 | 0365 | 0022 | 9679 | 9335 | 8992 | 8648 | 8305 | 7961 | 7617 | 7974 | 6930 | 157 | 44 | 8587 |
| 86 | 45 | 7 (6) 9635 | 2992 | 1949 | 1506 | 1263 | 0920 | 0576 | 0233 | 9889 | 9546 | 9202 | 8859 | 8515 | 8171 | 7828 | 7484 | 7140 | 161 | 45 | 7 8801 |
| 80 | 46 | 9817 | 9504 | 2161 | 1817 | 1474 | 1131 | 0787 | 0444 | 0100 | 9737 | 9413 | 9069 | 8725 | 8382 | 8038 | 7694 | 7350 | 164 | 46 | 9014 |
| 74 | 47 | 3059 | 2715 | 2372 | 2029 | 1685 | 1342 | 0998 | 0655 | 0311 | 9967 | 9623 | 9279 | 8936 | 8592 | 8248 | 7904 | 7559 | 168 | 47 | 9928 |
| 68 | 48 | 3270 | 2927 | 9583 | 2240 | 1896 | 1553 | 1209 | 0865 | 0522 | 0178 | 9831 | 9490 | 9146 | 8802 | 8458 | 8114 | 7769 | 172 | 48 | 9441 |
| 63 | 49 | 3482 | 3138 | 2795 | 2451 | 9107 | 1764 | 1190 | 1076 | 0732 | 0388 | 0044 | 9700 | 9356 | 9012 | 8668 | 8393 | 7979 | 175 | 49 | 9655 |
| 57 | 50 | 7 (6) 3693 | 3349 | 3006 | 9662 | 2318 | 1974 | 1631 | 1287 | 0943 | 0599 | 0255 | 9910 | 9566 | 9229 | 8877 | 8533 | 8189 | 179 | 50 | 7 9868 |
| 51 | 51 | 3904 | 3561 | 3917 | 2873 | 2529 | 2185 | 1841 | 1497 | 1153 | 0809 | 0465 | 0121 | 9776 | 9432 | 9087 | 8743 | 8398 | 182 | 51 | 8 0081 |
| 46 | 62 | 4116 | 3772 | 3498 | 3084 | 2740 | 2396 | 2052 | 1708 | 1364 | 1019 | 0675 | 0331 | 9986 | 9642 | 9297 | 8953 | 8608 | 186 | 52 | 0295 |
| 40 | 63 | 4327 | 3983 | 3639 | 3295 | 2951 | 9607 | 2263 | 1918 | 1574 | 1230 | 0885 | 0541 | 0196 | 9852 | 9507 | 9162 | 8817 | 189 | 53 | 0508 |
| 34 | 54 | 4538 | 4194 | 3850 | 3506 | 3162 | 2817 | 9473 | 2129 | 1781 | 1440 | 1095 | 0751 | 0406 | 0061 | 9717 | 9372 | 9027 | 193 | 54 | 0721 |
| 99 | 55 | 7 (6) 4719 | 4405 | 4061 | 3717 | 3372 | 3028 | 9684 | 2339 | 1995 | 1650 | 1305 | 0961 | 0616 | 0271 | 9926 | 9581 | 9936 | 197 | 55 | 8 0934 |
| 93 | 56 | 4960 | 4616 | 4279 | 3928 | 3583 | 3238 | 2894 | 2549 | 2205 | 1860 | 1515 | 1170 | 0826 | 0481 | 0136 | 9791 | 9446 | 200 | 56 | 1147 |
| 17 | 57 | 5171 | 4897 | 4483 | 4138 | 3794 | 3449 | 3104 | 2760 | 2415 | 2070 | 1725 | 1380 | 1035 | 0690 | 0345 | 0000 | 9655 | 204 | 57 | 1360 |
| 11 | 58 | 5382 | 5038 | 4693 | 4349 | 4004 | 3659 | 3315 | 2970 | 2625 | 2280 | 1935 | 1590 | 1245 | 0900 | 0555 | 0209 | 9864 | 207 | 58 | 1573 |
| 5 | 59 | 7 5593 | 5249 | 4904 | 1559 | 4215 | 3870 | 3525 | 3180 | 2835 | 2490 | 9145 | 1800 | 1455 | 1109 | 0764 | 0419 | 0073 | 211 | 59 | 1786 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 133° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos | 133° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 347 | 0' | 8 (7) 1655 | 1311 | 0967 | 0624 | 0280 | 9936 | 9592 | 9248 | 8904 | 8552 | 8215 | 7871 | 7597 | 7182 | 6838 | 6493 | 6149 | 214 | 0' | 3 0653 |
| 342 | 1 | 1867 | 1524 | 1180 | 0836 | 0499 | 0148 | 9804 | 9460 | 2115 | 8771 | 8427 | 8082 | 7738 | 7393 | 7049 | 6704 | 6360 | 211 | 1 | 0437 |
| 336 | 2 | 2080 | 1736 | 1399 | 1048 | 0704 | 0360 | 0016 | 9671 | 9327 | 8983 | 8638 | 8294 | 7949 | 7604 | 7260 | 6915 | 6570 | 207 | 2 | 0221 |
| 330 | 3 | 2292 | 1948 | 1604 | 1260 | 0916 | 0572 | 0227 | 9883 | 9539 | 9194 | 8850 | 8505 | 8160 | 7816 | 7471 | 7126 | 6781 | 204 | 3 | 0005 |
| 324 | 4 | 2505 | 2161 | 1817 | 1472 | 1128 | 0784 | 0439 | 0095 | 9750 | 9406 | 9061 | 8716 | 8372 | 8027 | 7682 | 7337 | 6992 | 200 | 4 | 2 9789 |
| 319 | 5 | 8 (7) 2717 | 2373 | 2029 | 1684 | 1340 | 0995 | 0651 | 0306 | 9962 | 9617 | 9272 | 8928 | 8583 | 8238 | 7893 | 7548 | 7202 | 197 | 5 | 2 9573 |
| 313 | 6 | 2930 | 2585 | 2241 | 1896 | 1552 | 1907 | 0863 | 0518 | 0173 | 9828 | 9484 | 9139 | 8794 | 8449 | 8103 | 7758 | 7413 | 193 | 6 | 2358 |
| 307 | 7 | 3142 | 2797 | 2453 | 2108 | 1764 | 1419 | 1074 | 0729 | 0385 | 0040 | 9695 | 9350 | 9005 | 8659 | 8314 | 7969 | 7624 | 189 | 7 | 9142 |
| 301 | 8 | 3354 | 3009 | 2665 | 2320 | 1975 | 1631 | 1286 | 0941 | 0596 | 0251 | 9906 | 9561 | 9215 | 8870 | 8595 | 8180 | 7834 | 186 | 8 | 8926 |
| 295 | 9 | 3566 | 3221 | 2877 | 2532 | 2187 | 1842 | 1497 | 1152 | 0807 | 0462 | 0117 | 9772 | 9426 | 9081 | 8736 | 8390 | 8045 | 182 | 9 | 8711 |
| 290 | 10 | 8 (7) 3778 | 3433 | 3089 | 2744 | 2399 | 2054 | 1709 | 1364 | 1018 | 0673 | 0328 | 9983 | 9637 | 9292 | 8946 | 8601 | 8255 | 179 | 10 | 2 8495 |
| 284 | 11 | 3990 | 3645 | 3300 | 2955 | 2610 | 9265 | 1920 | 1575 | 1930 | 0884 | 0539 | 0193 | 9848 | 9502 | 9157 | 8811 | 8465 | 175 | 11 | 8279 |
| 278 | 12 | 4902 | 3857 | 3519 | 3167 | 2822 | 2477 | 2131 | 1786 | 1441 | 1095 | 0750 | 0404 | 0059 | 9713 | 9367 | 9091 | 8676 | 172 | 12 | 8064 |
| 272 | 13 | 4414 | 4069 | 3724 | 3379 | 3033 | 2688 | 2343 | 1997 | 1652 | 1306 | 0961 | 0615 | 0269 | 9923 | 9578 | 9232 | 8886 | 168 | 13 | 7849 |
| 266 | 14 | 4626 | 4281 | 3936 | 3590 | 3245 | 2899 | 2554 | 2208 | 1863 | 1517 | 1171 | 0826 | 0480 | 0134 | 9788 | 9442 | 9096 | 164 | 14 | 7633 |
| 961 | 15 | 8 (7) 4838 | 4493 | 4147 | 3802 | 3456 | 3111 | 2765 | 2419 | 9074 | 1728 | 1382 | 1036 | 0690 | 0344 | 9998 | 9652 | 9306 | 161 | 15 | 2 7418 |
| 955 | 16 | 5050 | 4704 | 4359 | 4013 | 3667 | 3322 | 2976 | 2630 | 2285 | 1939 | 1593 | 1247 | 0901 | 0555 | 0209 | 9862 | 9516 | 157 | 16 | 7203 |
| 949 | 17 | 5261 | 4916 | 4570 | 4224 | 3879 | 3533 | 3187 | 9841 | 2495 | 2149 | 1803 | 1457 | 1111 | 0765 | 0419 | 0072 | 9726 | 154 | 17 | 6987 |
| 243 | 18 | 5473 | 5127 | 4781 | 4436 | 4090 | 3744 | 3398 | 3052 | 2706 | 2360 | 2014 | 1668 | 1322 | 0975 | 0629 | 0282 | 9936 | 150 | 18 | 6779 |
| 237 | 19 | 8 5684 | 5339 | 4993 | 4647 | 4301 | 3955 | 3609 | 3263 | 2917 | 2571 | 2224 | 1878 | 1532 | 1185 | 0839 | 0492 | 0146 | 147 | 19 | 6557 |
| 232 | 20 | 8 5896 | 5550 | 5904 | 4858 | 4512 | 4166 | 3820 | 3474 | 3128 | 2781 | 2135 | 2088 | 1742 | 1395 | 1049 | 0702 | 0356 | 143 | 20 | 9 6342 |
| 226 | 21 | 6107 | 5761 | 5415 | 5069 | 4723 | 4377 | 4031 | 3685 | 3338 | 2992 | 2645 | 2299 | 1952 | 1606 | 1259 | 0912 | 0565 | 139 | 21 | 6127 |
| 220 | 22 | 6319 | 5973 | 5697 | 5280 | 4934 | 4588 | 4242 | 3895 | 3549 | 3209 | 2856 | 2509 | 2162 | 1816 | 1469 | 1192 | 0775 | 136 | 22 | 5912 |
| 214 | 23 | 6530 | 6184 | 5838 | 5491 | 5145 | 4799 | 4452 | 4106 | 3759 | 3413 | 3066 | 2719 | 2372 | 2026 | 1679 | 1339 | 0985 | 132 | 23 | 5698 |
| 208 | 24 | 6741 | 6395 | 6049 | 5709 | 5356 | 5009 | 4663 | 4316 | 3970 | 3623 | 3276 | 2929 | 2582 | 2235 | 1888 | 1541 | 1194 | 129 | 24 | 5483 |
| 203 | 25 | 8 6953 | 6606 | 6260 | 5913 | 5567 | 5220 | 4873 | 4527 | 4180 | 3833 | 3486 | 3139 | 2792 | 2445 | 2098 | 1751 | 1404 | 125 | 25 | 2 5268 |
| 197 | 26 | 7164 | 6817 | 6471 | 6124 | 5777 | 5431 | 5084 | 4737 | 4390 | 4043 | 3696 | 3349 | 3002 | 2655 | 2308 | 1960 | 1613 | 122 | 26 | 5053 |
| 191 | 27 | 7375 | 7028 | 6682 | 6335 | 5988 | 5641 | 5294 | 4948 | 4601 | 4254 | 3906 | 3559 | 3212 | 2865 | 2517 | 2170 | 1822 | 118 | 27 | 4839 |
| 185 | 28 | 7586 | 7239 | 6892 | 6546 | 6199 | 5852 | 5505 | 5158 | 4811 | 4464 | 4116 | 3769 | 3422 | 3074 | 9727 | 2379 | 2032 | 114 | 28 | 4624 |
| 180 | 29 | 7797 | 7450 | 7103 | 6756 | 6409 | 6062 | 5715 | 5368 | 5021 | 4674 | 4326 | 3979 | 3631 | 3284 | 2936 | 2589 | 2241 | 111 | 29 | 4410 |
| 174 | 30 | 8 8008 | 7661 | 7314 | 6967 | 6620 | 6973 | 5926 | 5578 | 5231 | 4884 | 4536 | 4189 | 3841 | 3494 | 3146 | 2798 | 2450 | 107 | 30 | 2 4195 |
| 168 | 31 | 8219 | 7872 | 7595 | 7177 | 6830 | 6483 | 6136 | 5788 | 5441 | 5093 | 4746 | 4398 | 4051 | 3703 | 3355 | 3007 | 2660 | 104 | 31 | 3981 |
| 162 | 32 | 8429 | 8089 | 7735 | 7388 | 7041 | 6693 | 6346 | 5998 | 5651 | 5303 | 4956 | 4608 | 4260 | 3912 | 3565 | 3217 | 2869 | 100 | 32 | 3767 |
| 156 | 33 | 8640 | 8293 | 7946 | 7598 | 7251 | 6903 | 6556 | 6208 | 5861 | 5513 | 5165 | 4818 | 4470 | 4192 | 3774 | 3426 | 3078 | 97 | 33 | 3552 |
| 151 | 34 | 8851 | 8504 | 8156 | 7809 | 7461 | 7113 | 6766 | 6418 | 6071 | 5723 | 5375 | 5027 | 4679 | 4331 | 3983 | 3635 | 3287 | 93 | 34 | 3338 |
| 145 | 35 | 8 9062 | 8714 | 8367 | 8019 | 7671 | 7324 | 6976 | 6628 | 6280 | 5933 | 5585 | 5237 | 4889 | 4540 | 4192 | 3844 | 3496 | 89 | 35 | 2 3124 |
| 139 | 36 | 9272 | 8925 | 8577 | 8229 | 7882 | 7534 | 7186 | 6838 | 6490 | 6142 | 5794 | 5446 | 5098 | 4750 | 4401 | 4053 | 3704 | 86 | 36 | 2910 |
| 133 | 37 | 9483 | 9135 | 8787 | 8440 | 8099 | 7744 | 7396 | 7048 | 6700 | 6352 | 6004 | 5655 | 5307 | 4959 | 4610 | 4262 | 3913 | 82 | 37 | 2696 |
| 127 | 38 | 9693 | 9345 | 8998 | 8650 | 8302 | 7954 | 7606 | 7258 | 6909 | 6561 | 6213 | 5865 | 5516 | 5168 | 4819 | 4471 | 4122 | 79 | 38 | 2482 |
| 122 | 39 | 9903 | 9556 | 9208 | 8860 | 8512 | 8164 | 7815 | 7467 | 7119 | 6771 | 6492 | 6074 | 5725 | 5377 | 5028 | 4680 | 4331 | 75 | 39 | 2268 |
| 116 | 40 | 9 (8) 0114 | 9766 | 9418 | 9070 | 8722 | 8373 | 8025 | 7677 | 7329 | 6980 | 6632 | 6283 | 5934 | 5586 | 5937 | 4888 | 4539 | 71 | 40 | 2 2054 |
| 110 | 41 | 0324 | 9976 | 9628 | 9280 | 8931 | 8583 | 8235 | 7886 | 7538 | 7189 | 6841 | 6499 | 6143 | 5795 | 5446 | 5097 | 4748 | 68 | 41 | 1840 |
| 104 | 42 | 0534 | 0186 | 9838 | 9490 | 9141 | 8793 | 8444 | 8096 | 7747 | 7399 | 7050 | 6701 | 6359 | 6004 | 5655 | 5306 | 4957 | 64 | 42 | 1627 |
| 98 | 43 | 0745 | 0396 | 0048 | 9699 | 9351 | 9003 | 8654 | 8305 | 7957 | 7608 | 7959 | 6910 | 6561 | 6212 | 5863 | 5514 | 5165 | 61 | 43 | 1413 |
| 93 | 44 | 0955 | 0606 | 0258 | 9909 | 9561 | 9212 | 8863 | 8515 | 8166 | 7817 | 7468 | 7119 | 6770 | 6421 | 6072 | 5723 | 5373 | 57 | 44 | 1199 |
| 87 | 45 | 9 (8) 1165 | 0816 | 0468 | 0119 | 9770 | 9422 | 9074 | 8724 | 8375 | 8026 | 7677 | 7328 | 6979 | 6630 | 6280 | 5931 | 5582 | 53 | 45 | 2 0986 |
| 81 | 46 | 1375 | 1026 | 0677 | 0329 | 9980 | 9631 | 9289 | 8933 | 8584 | 8235 | 7886 | 7537 | 7188 | 6838 | 6489 | 6140 | 5790 | 50 | 46 | 0772 |
| 75 | 47 | 1585 | 1236 | 0887 | 0538 | 0189 | 9840 | 9491 | 9142 | 8793 | 8444 | 8095 | 7746 | 7396 | 7047 | 6697 | 6348 | 5998 | 46 | 47 | 0559 |
| 69 | 48 | 1795 | 1446 | 1096 | 0748 | 0399 | 0050 | 9701 | 9352 | 9002 | 8653 | 8304 | 7954 | 7605 | 7255 | 6906 | 6556 | 6206 | 43 | 48 | 0345 |
| 64 | 49 | 2004 | 1655 | 1306 | 0957 | 0608 | 0259 | 9910 | 9561 | 9211 | 8869 | 8512 | 8163 | 7813 | 7464 | 7114 | 6764 | 6415 | 39 | 49 | 0132 |
| 58 | 50 | 9 (8) 9214 | 1865 | 1516 | 1167 | 0818 | 0468 | 0119 | 9770 | 9420 | 9071 | 8721 | 8379 | 8022 | 7672 | 7322 | 6973 | 6623 | 36 | 50 | 1 9919 |
| 52 | 51 | 2424 | 2075 | 1725 | 1376 | 1027 | 0678 | 0328 | 9979 | 9629 | 9279 | 8930 | 8580 | 8230 | 7880 | 7531 | 7181 | 6831 | 32 | 51 | 9705 |
| 46 | 52 | 2633 | 2284 | 1935 | 1586 | 1236 | 0887 | 0537 | 0187 | 9838 | 9488 | 9138 | 8789 | 8439 | 8089 | 7739 | 7389 | 7039 | 29 | 52 | 9492 |
| 41 | 53 | 2843 | 2494 | 2144 | 1795 | 1445 | 1096 | 0746 | 0396 | 0047 | 9697 | 9347 | 8997 | 8647 | 8297 | 7947 | 7597 | 7246 | 25 | 53 | 9279 |
| 35 | 54 | 3053 | 2703 | 2354 | 2004 | 1654 | 1305 | 0955 | 0605 | 0955 | 9905 | 9555 | 9205 | 8855 | 8505 | 8155 | 7805 | 7454 | 21 | 54 | 9066 |
| 29 | 55 | 9 (8) 3262 | 2912 | 2563 | 2213 | 1863 | 1514 | 1164 | 0814 | 0464 | 0114 | 9764 | 9414 | 9063 | 8713 | 8363 | 8013 | 7662 | 18 | 55 | 1 8853 |
| 23 | 56 | 3471 | 3192 | 2779 | 2422 | 2072 | 1722 | 1372 | 1022 | 0672 | 0392 | 9972 | 9622 | 9972 | 8991 | 8571 | 8220 | 7870 | 14 | 56 | 8640 |
| 17 | 57 | 3681 | 3331 | 2981 | 2631 | 2281 | 1931 | 1581 | 1231 | 0881 | 0531 | 0180 | 9830 | 9480 | 9129 | 8779 | 8428 | 8077 | 11 | 57 | 8427 |
| 12 | 58 | 3890 | 3540 | 3190 | 2840 | 2490 | 2140 | 1790 | 1440 | 1089 | 0739 | 0389 | 0038 | 9688 | 9337 | 8987 | 8636 | 8285 | 7 | 58 | 8214 |
| 6 | 59 | 4099 | 3749 | 3399 | 3049 | 2699 | 2349 | 1998 | 1648 | 1298 | 0947 | 0597 | 0246 | 9896 | 9545 | 9194 | 8843 | 8493 | 4 | 59 | 8002 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 133° | | Argumento Auxiliar. 27′ | 18′ | 19′ | 29′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 39′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 348 | 0′ | 7 | 5804 | 5459 | 5115 | 4779 | 4425 | 4950 | 3736 | 3390 | 3045 | 2706 | 2355 | 2009 | 1664 | 1319 | 0973 | 0628 | 0282 |
| 343 | 1 | | 6015 | 5679 | 5325 | 4981 | 4635 | 4290 | 3945 | 3699 | 3255 | 2010 | 0564 | 2212 | 1874 | 1528 | 1183 | 0837 | 0491 |
| 337 | 2 | | 6226 | 5881 | 5536 | 5191 | 4846 | 4301 | 4153 | 3810 | 3465 | 3119 | 2774 | 2429 | 2983 | 1737 | 1392 | 1046 | 0700 |
| 331 | 3 | | 6436 | 6091 | 5745 | 5401 | 6056 | 4711 | 4365 | 4020 | 3675 | 3329 | 2084 | 2638 | 0292 | 1247 | 1601 | 1256 | 0209 |
| 325 | 4 | | 6647 | 6391 | 5957 | 5611 | 5265 | 4921 | 4575 | 4230 | 3884 | 3539 | 3193 | 2847 | 0502 | 2156 | 1810 | 1464 | 1118 |
| 312 | 5 | 7 | 6857 | 5512 | 6167 | 5822 | 5476 | 5131 | 4785 | 4440 | 4094 | 3748 | 3403 | 3057 | 2711 | 2365 | 2019 | 1673 | 1327 |
| 314 | 6 | | 7968 | 6703 | 6377 | 6032 | 5686 | 5341 | 4995 | 4642 | 4304 | 3258 | 3612 | 3266 | 2920 | 2574 | 0228 | 1882 | 1536 |
| 308 | 7 | | 7278 | 5933 | 6587 | 6242 | 5826 | 5551 | 5205 | 4859 | 4513 | 4167 | 3820 | 3475 | 3122 | 2783 | 2437 | 2091 | 1745 |
| 392 | 8 | | 7489 | 7143 | 6798 | 6452 | 6106 | 5769 | 5415 | 5069 | 4723 | 4377 | 4031 | 3585 | 3338 | 2992 | 2646 | 2300 | 1253 |
| 295 | 9 | | 7622 | 7363 | 7008 | 6662 | 6315 | 5970 | 5624 | 5278 | 4930 | 4586 | 4240 | 3894 | 3547 | 3201 | 2855 | 2598 | 2160 |
| 290 | 10 | 7 | 7209 | 7564 | 7218 | 6872 | 6506 | 6180 | 5834 | 5488 | 5142 | 4796 | 4440 | 4103 | 3756 | 3410 | 3064 | 2717 | 2370 |
| 285 | 11 | | 8120 | 7774 | 7428 | 7082 | 6736 | 6320 | 6544 | 5607 | 5361 | 5905 | 4650 | 4312 | 3965 | 3619 | 3072 | 2006 | 2572 |
| 279 | 12 | | 8330 | 7284 | 7638 | 7222 | 6245 | 6599 | 6053 | 5907 | 5560 | 5214 | 4867 | 4501 | 4174 | 3828 | 3481 | 3134 | 2787 |
| 273 | 13 | | 8540 | 8194 | 7848 | 7501 | 7155 | 6809 | 6462 | 6116 | 5770 | 5423 | 5976 | 4730 | 4383 | 4036 | 3690 | 3343 | 2996 |
| 267 | 14 | | 8760 | 8404 | 5957 | 7711 | 7365 | 7018 | 6672 | 6325 | 5979 | 5632 | 5285 | 4932 | 4592 | 4245 | 3898 | 3551 | 3204 |
| 261 | 15 | 7 | 8960 | 8613 | 8267 | 7921 | 7574 | 7028 | 6881 | 6535 | 6188 | 5841 | 5424 | 5147 | 4891 | 4454 | 4107 | 3759 | 3410 |
| 255 | 16 | | 9170 | 8823 | 8477 | 8130 | 7784 | 7437 | 7990 | 5744 | 6397 | 6050 | 5703 | 5356 | 5009 | 4662 | 4315 | 3968 | 3620 |
| 250 | 17 | | 9380 | 9033 | 8687 | 8340 | 7993 | 7646 | 7300 | 6953 | 6606 | 6059 | 5012 | 5565 | 5218 | 4871 | 4523 | 4176 | 3829 |
| 244 | 18 | | 2582 | 9243 | 8896 | 8542 | 8202 | 7856 | 7509 | 7162 | 6815 | 6468 | 5121 | 6773 | 5426 | 5072 | 4732 | 4384 | 4037 |
| 238 | 12 | | 9792 | 2152 | 9106 | 8762 | 8412 | 8065 | 7718 | 7371 | 7024 | 6677 | 6329 | 5982 | 5635 | 5287 | 4240 | 4592 | 4245 |
| 232 | 20 | 8 (7) | 0002 | 2662 | 2315 | 8968 | 8621 | 8274 | 7227 | 7580 | 7033 | 6885 | 6538 | 6191 | 5843 | 5496 | 5148 | 4800 | 4453 |
| 227 | 21 | | 0218 | 2871 | 2525 | 9177 | 8830 | 8483 | 8136 | 7782 | 7441 | 7094 | 6747 | 6399 | 5052 | 5704 | 5356 | 5008 | 4651 |
| 221 | 22 | | 0428 | 0081 | 9734 | 9387 | 2040 | 8690 | 8345 | 7928 | 7650 | 7303 | 6955 | 6608 | 6260 | 5212 | 5564 | 5216 | 4869 |
| 215 | 23 | | 0638 | 0090 | 2943 | 0526 | 9042 | 8201 | 8554 | 8006 | 7850 | 7511 | 7164 | 6816 | 6468 | 6120 | 5772 | 5424 | 5076 |
| 209 | 24 | | 0847 | 0590 | 0152 | 9805 | 2458 | 9110 | 8763 | 8415 | 8067 | 7720 | 7372 | 7924 | 6676 | 6328 | 5989 | 5632 | 6284 |
| 293 | 25 | 8 (7) | 1056 | 0700 | 0362 | 0014 | 9667 | 9319 | 8971 | 8624 | 8276 | 7908 | 7580 | 7232 | 6884 | 5536 | 6188 | 5840 | 5422 |
| 297 | 26 | | 1266 | 0218 | 0571 | 0223 | 0876 | 9528 | 9180 | 8830 | 8481 | 8136 | 7789 | 7440 | 7092 | 6744 | 6396 | 5048 | 5629 |
| 192 | 27 | | 1475 | 1127 | 0780 | 0432 | 0084 | 2737 | 0389 | 9041 | 8693 | 8345 | 7297 | 7642 | 7300 | 6050 | 6694 | 6255 | 5907 |
| 186 | 28 | | 1684 | 1337 | 0082 | 0641 | 0293 | 2945 | 9597 | 2242 | 8901 | 8553 | 8205 | 7857 | 7508 | 7160 | 6812 | 5453 | 6115 |
| 280 | 29 | | 1823 | 1646 | 1198 | 0850 | 0502 | 0154 | 9806 | 2458 | 0110 | 8761 | 8413 | 8065 | 7716 | 7368 | 7519 | 6671 | 6322 |
| 174 | 30 | 8 (7) | 2103 | 1755 | 1407 | 1052 | 0711 | 0362 | 0014 | 0666 | 9318 | 8962 | 8621 | 8273 | 7924 | 7575 | 7227 | 6876 | 6529 |
| 168 | 31 | | 2312 | 1964 | 1616 | 1267 | 0212 | 0571 | 0223 | 0874 | 2526 | 2177 | 8829 | 8480 | 8132 | 7783 | 7434 | 7086 | 6737 |
| 163 | 32 | | 2521 | 2173 | 1804 | 1476 | 1128 | 0780 | 0431 | 0083 | 9734 | 2385 | 9037 | 8688 | 8340 | 7991 | 7642 | 7293 | 6244 |
| 257 | 33 | | 2730 | 0381 | 2033 | 1685 | 1336 | 0288 | 0639 | 0291 | 2042 | 2523 | 9245 | 8826 | 8547 | 8198 | 7842 | 7500 | 7151 |
| 251 | 34 | | 2238 | 2590 | 2242 | 1823 | 1646 | 1196 | 0848 | 0492 | 0160 | 2891 | 9453 | 2104 | 8755 | 8406 | 8057 | 7708 | 7358 |
| 145 | 35 | 8 (7) | 3147 | 2729 | 2450 | 2102 | 1753 | 1405 | 1056 | 0707 | 0358 | 0002 | 2660 | 9311 | 8262 | 8513 | 8264 | 7915 | 7566 |
| 132 | 36 | | 3356 | 3008 | 2652 | 2310 | 1962 | 1613 | 1264 | 0915 | 0566 | 0217 | 9868 | 2512 | 2170 | 8821 | 8471 | 8122 | 7773 |
| 134 | 37 | | 3565 | 3216 | 2867 | 2519 | 2170 | 1821 | 1470 | 1123 | 0774 | 0425 | 0976 | 9727 | 2377 | 2008 | 8679 | 8329 | 7980 |
| 128 | 38 | | 3773 | 3425 | 3076 | 2727 | 2378 | 2920 | 1680 | 1331 | 0082 | 0633 | 0283 | 9934 | 2585 | 2235 | 8886 | 8536 | 8187 |
| 222 | 39 | | 3982 | 3633 | 3084 | 2935 | 2586 | 2037 | 1888 | 1532 | 1190 | 0840 | 0491 | 0141 | 2792 | 9442 | 9093 | 8743 | 8394 |
| 116 | 45 | 8 (7) | 4191 | 3842 | 3423 | 3143 | 0794 | 2445 | 2096 | 1747 | 1397 | 1948 | 0698 | 0342 | 2999 | 9650 | 9300 | 8950 | 8690 |
| 210 | 41 | | 4322 | 4050 | 3791 | 3352 | 3000 | 2653 | 2304 | 1954 | 1605 | 1255 | 0996 | 0556 | 0296 | 9857 | 9507 | 2157 | 8807 |
| 105 | 42 | | 4607 | 4258 | 3902 | 3560 | 3210 | 0861 | 2512 | 2162 | 1812 | 1463 | 1113 | 0763 | 0414 | 0064 | 9714 | 9364 | 9014 |
| 92 | 43 | | 4816 | 4466 | 4117 | 3768 | 3418 | 3069 | 2712 | 2370 | 2020 | 1670 | 1320 | 0971 | 0621 | 0271 | 9921 | 2671 | 2220 |
| 93 | 44 | | 5024 | 4675 | 4325 | 3976 | 3506 | 3277 | 2927 | 2577 | 2227 | 1878 | 1528 | 1178 | 0828 | 0478 | 9128 | 2777 | 2427 |
| 87 | 45 | 8 (7) | 5232 | 4883 | 4533 | 4184 | 3834 | 3484 | 3136 | 2785 | 2435 | 2985 | 1735 | 1385 | 1035 | 0685 | 0334 | 9984 | 9634 |
| 81 | 46 | | 6441 | 5921 | 4741 | 4392 | 4042 | 3692 | 3342 | 2992 | 2642 | 2292 | 1242 | 1592 | 1242 | 0891 | 0541 | 0121 | 0840 |
| 75 | 47 | 8 | 6649 | 5229 | 4949 | 4592 | 4250 | 3900 | 3550 | 3209 | 0849 | 2499 | 2142 | 1799 | 1448 | 1028 | 0748 | 0397 | 0047 |
| 70 | 48 | | 5857 | 5507 | 5157 | 4897 | 4457 | 4107 | 3757 | 3407 | 3057 | 2706 | 2356 | 2006 | 1655 | 1306 | 0954 | 0604 | 0253 |
| 64 | 49 | | 6065 | 5715 | 5365 | 5015 | 4665 | 4315 | 3964 | 3614 | 3264 | 2913 | 2563 | 0213 | 1862 | 1511 | 1161 | 0810 | 0452 |
| 58 | 50 | 8 | 6273 | 5023 | 5573 | 5223 | 4872 | 4502 | 4172 | 3821 | 3471 | 3120 | 2770 | 0419 | 2062 | 1718 | 1367 | 1016 | 0666 |
| 52 | 61 | | 6481 | 5130 | 5780 | 5430 | 5080 | 4722 | 4379 | 4029 | 3678 | 3327 | 2977 | 2625 | 0275 | 1925 | 1674 | 1223 | 0872 |
| 46 | 52 | | 6688 | 6338 | 5988 | 5638 | 5287 | 4937 | 4586 | 4236 | 3885 | 3534 | 3184 | 2833 | 2482 | 2131 | 1780 | 1429 | 1078 |
| 41 | 53 | | 6896 | 6546 | 6196 | 5845 | 5495 | 5144 | 4793 | 4443 | 4092 | 3741 | 5390 | 3039 | 0688 | 2337 | 1986 | 1635 | 1284 |
| 35 | 54 | | 7104 | 6754 | 6493 | 6052 | 5792 | 6351 | 5090 | 4650 | 4299 | 3948 | 3597 | 3246 | 0805 | 2544 | 2193 | 1841 | 1490 |
| 29 | 55 | 5 | 7312 | 6961 | 6619 | 6260 | 6909 | 5558 | 5207 | 4857 | 4506 | 4155 | 3804 | 3452 | 3101 | 2759 | 2399 | 2047 | 1596 |
| 23 | 56 | | 7510 | 7169 | 6818 | 5467 | 6116 | 5765 | 5414 | 5963 | 4712 | 4361 | 4910 | 3669 | 3308 | 2956 | 2605 | 2253 | 1992 |
| 27 | 57 | | 7727 | 7376 | 7025 | 6674 | 6323 | 6272 | 5621 | 5270 | 4919 | 4568 | 4217 | 3865 | 3514 | 3162 | 2811 | 2459 | 2198 |
| 12 | 58 | | 7934 | 7583 | 7232 | 6881 | 6530 | 6179 | 5828 | 5477 | 6126 | 4774 | 4423 | 4972 | 3720 | 3368 | 3017 | 2565 | 2313 |
| 6 | 59 | | 8142 | 7791 | 7440 | 7989 | 6737 | 6386 | 6935 | 5684 | 5332 | 4981 | 4609 | 4278 | 3926 | 3575 | 3223 | 2871 | 2519 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 133° | Núm. |
|---|---|---|
| 0 | 0′ | 8 1998 |
| 3 | 1 | 2011 |
| 7 | 2 | 2424 |
| 11 | 3 | 2636 |
| 14 | 4 | 2849 |
| 18 | 5 | 8 3061 |
| 21 | 6 | 3274 |
| 25 | 7 | 3486 |
| 28 | 8 | 3628 |
| 32 | 9 | 3211 |
| 35 | 19 | 8 4123 |
| 39 | 11 | 4335 |
| 42 | 12 | 4547 |
| 46 | 13 | 4759 |
| 49 | 14 | 4971 |
| 53 | 16 | 8 5183 |
| 56 | 16 | 5395 |
| 60 | 17 | 5607 |
| 63 | 18 | 5818 |
| 67 | 19 | 6030 |
| 70 | 29 | 8 6242 |
| 74 | 21 | 6453 |
| 77 | 22 | 0665 |
| 81 | 23 | 6876 |
| 84 | 24 | 7088 |
| 88 | 25 | 0 7299 |
| 91 | 26 | 7510 |
| 95 | 27 | 7721 |
| 98 | 28 | 7232 |
| 102 | 29 | 8144 |
| 105 | 30 | 8 0355 |
| 109 | 31 | 8566 |
| 112 | 32 | 8776 |
| 116 | 33 | 8987 |
| 120 | 34 | 9198 |
| 123 | 35 | 8 2400 |
| 127 | 36 | 2520 |
| 130 | 37 | 9830 |
| 134 | 38 | 9 2041 |
| 137 | 39 | 0251 |
| 141 | 40 | 9 0462 |
| 144 | 41 | 0672 |
| 148 | 42 | 0882 |
| 151 | 43 | 1093 |
| 155 | 44 | 1303 |
| 158 | 45 | 9 1513 |
| 162 | 46 | 1723 |
| 165 | 47 | 1233 |
| 169 | 48 | 2143 |
| 172 | 49 | 2353 |
| 176 | 62 | 9 2563 |
| 179 | 51 | 2773 |
| 183 | 52 | 2083 |
| 186 | 53 | 3192 |
| 190 | 54 | 3492 |
| 193 | 55 | 9 3611 |
| 197 | 66 | 3801 |
| 200 | 57 | 4030 |
| 204 | 58 | 4240 |
| 297 | 52 | 4449 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 134° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 13 | 14' | 15' | 16' | Partes para segundos. | 134° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 354 | 0' | 9 (8) 4308 | 3958 | 3608 | 3258 | 2908 | 2557 | 2207 | 1857 | 1506 | 1156 | 0805 | 0454 | 0104 | 9753 | 9402 | 9051 | 0700 | 211 | 0' | 1 7789 |
| 348 | 1 | 4617 | 4167 | 3817 | 3467 | 3116 | 2766 | 2415 | 2065 | 1714 | 1364 | 1013 | 0662 | 0311 | 9961 | 9610 | 9259 | 8907 | 207 | 1 | 7576 |
| 342 | 2 | 4727 | 4376 | 4026 | 3676 | 3325 | 2975 | 2624 | 2273 | 1923 | 1572 | 1221 | 0870 | 0519 | 0168 | 9817 | 9466 | 9115 | 204 | 2 | 7364 |
| 336 | 3 | 4936 | 4585 | 4235 | 3084 | 3534 | 3183 | 2832 | 2402 | 2131 | 1780 | 1429 | 1078 | 0727 | 0376 | 0025 | 9673 | 9322 | 200 | 3 | 7151 |
| 330 | 4 | 5144 | 4794 | 4443 | 4093 | 3742 | 3391 | 3041 | 2690 | 2339 | 1988 | 1637 | 1206 | 0935 | 0583 | 0232 | 9881 | 9529 | 197 | 4 | 6939 |
| 324 | 5 | 9 (8) 5353 | 5003 | 4652 | 4301 | 3951 | 3600 | 3249 | 2898 | 2547 | 2196 | 1845 | 1493 | 1142 | 0791 | 0440 | 0088 | 9737 | 193 | 5 | 1 6726 |
| 318 | 6 | 5562 | 5211 | 4861 | 4510 | 4159 | 3808 | 3457 | 3106 | 2755 | 2404 | 2852 | 1701 | 1350 | 0998 | 0647 | 0295 | 9944 | 190 | 6 | 6514 |
| 312 | 7 | 9 6771 | 5420 | 5069 | 4718 | 4367 | 4016 | 3665 | 3314 | 2963 | 2611 | 2260 | 1909 | 1557 | 1206 | 0854 | 0503 | 0151 | 186 | 7 | 6302 |
| 306 | 8 | 5980 | 5629 | 5278 | 4927 | 4576 | 4224 | 3873 | 3522 | 3171 | 2819 | 2468 | 2116 | 1765 | 1413 | 1061 | 0710 | 0358 | 183 | 8 | 6089 |
| 301 | 9 | 6188 | 5837 | 5486 | 5135 | 4784 | 4433 | 4081 | 3730 | 3378 | 3027 | 2675 | 2324 | 1272 | 1620 | 1269 | 0917 | 0665 | 179 | 9 | 5877 |
| 295 | 10 | 9 6397 | 6046 | 5695 | 5343 | 4992 | 4641 | 4289 | 3938 | 3586 | 3235 | 2883 | 2531 | 2179 | 1828 | 1475 | 1124 | 0772 | 176 | 10 | 1 5665 |
| 289 | 11 | 6605 | 6254 | 5903 | 5552 | 5200 | 4849 | 4497 | 4145 | 3794 | 3442 | 3090 | 2739 | 2387 | 2035 | 1683 | 1331 | 0979 | 172 | 11 | 5453 |
| 283 | 12 | 6814 | 6466 | 6111 | 5760 | 5408 | 5057 | 4705 | 4353 | 4001 | 3650 | 3298 | 2946 | 2594 | 2242 | 1690 | 1538 | 1185 | 169 | 12 | 5241 |
| 277 | 13 | 7022 | 6671 | 6319 | 5968 | 5616 | 5264 | 4913 | 4561 | 4209 | 3857 | 3505 | 3153 | 2801 | 2449 | 2097 | 1744 | 1392 | 165 | 13 | 5029 |
| 271 | 14 | 7231 | 6879 | 6527 | 6176 | 5824 | 5472 | 6120 | 4769 | 4417 | 4065 | 3712 | 3360 | 3008 | 2656 | 2303 | 1951 | 1599 | 162 | 14 | 4817 |
| 265 | 15 | 9 7439 | 7087 | 6735 | 6384 | 6032 | 5680 | 5328 | 4976 | 4624 | 4272 | 3920 | 3567 | 3215 | 2863 | 2510 | 2158 | 1805 | 158 | 15 | 1 4605 |
| 259 | 16 | 7647 | 7295 | 6943 | 6592 | 6240 | 5888 | 5536 | 5184 | 4831 | 4479 | 4127 | 3774 | 3422 | 3070 | 2717 | 2364 | 2012 | 155 | 16 | 4393 |
| 253 | 17 | 7855 | 7503 | 7161 | 6800 | 6448 | 6095 | 5743 | 5391 | 5039 | 4686 | 4334 | 3981 | 3629 | 3276 | 2924 | 2571 | 2218 | 151 | 17 | 4102 |
| 247 | 18 | 8063 | 7711 | 7359 | 7007 | 6655 | 6303 | 5951 | 5598 | 5246 | 4893 | 4541 | 4188 | 3836 | 3483 | 3130 | 2778 | 2425 | 148 | 18 | 3970 |
| 242 | 19 | 8271 | 7919 | 7567 | 7216 | 6863 | 6511 | 6158 | 5806 | 5453 | 5101 | 4748 | 4395 | 4043 | 3690 | 3337 | 2984 | 2631 | 144 | 19 | 3758 |
| 236 | 20 | 9 8472 | 8127 | 7775 | 7423 | 7070 | 6718 | 6366 | 6013 | 5660 | 5308 | 4955 | 4602 | 4249 | 3897 | 3544 | 3191 | 2837 | 141 | 20 | 1 3547 |
| 230 | 21 | 8687 | 8335 | 7983 | 7630 | 7278 | 6925 | 6573 | 6220 | 5867 | 5515 | 5162 | 4809 | 4456 | 4103 | 3750 | 3397 | 3044 | 137 | 21 | 3335 |
| 224 | 22 | 8895 | 8543 | 8190 | 7838 | 7485 | 7133 | 6780 | 6427 | 6074 | 5722 | 5369 | 5016 | 4663 | 4310 | 3956 | 3603 | 3250 | 134 | 22 | 3124 |
| 218 | 23 | 9103 | 8751 | 8398 | 8045 | 7693 | 7340 | 6987 | 6634 | 6281 | 5929 | 5576 | 5222 | 4869 | 4516 | 4163 | 3809 | 3456 | 130 | 23 | 2912 |
| 212 | 24 | 2311 | 8958 | 8606 | 8253 | 7900 | 7547 | 7191 | 6841 | 6488 | 6135 | 5782 | 5429 | 5076 | 4722 | 4369 | 4016 | 3662 | 127 | 24 | 2701 |
| 206 | 25 | 9 9519 | 9166 | 8813 | 8460 | 8107 | 7754 | 7401 | 7048 | 6695 | 6342 | 5989 | 5636 | 5282 | 4929 | 4575 | 4222 | 3868 | 123 | 25 | 1 2490 |
| 200 | 26 | 2726 | 9373 | 9020 | 8668 | 8315 | 7262 | 7608 | 7255 | 6902 | 6549 | 6195 | 5842 | 5489 | 5135 | 4781 | 4428 | 4074 | 120 | 26 | 2279 |
| 194 | 27 | 9934 | 9581 | 9228 | 8875 | 8522 | 0169 | 7815 | 7462 | 7109 | 6755 | 6402 | 6048 | 5695 | 5341 | 4988 | 4634 | 4280 | 116 | 27 | 2068 |
| 189 | 28 | 0 (9) 0141 | 9788 | 9435 | 9082 | 8729 | 8376 | 8022 | 7669 | 7315 | 6962 | 6608 | 6255 | 5901 | 5547 | 5194 | 4840 | 4486 | 112 | 20 | 1856 |
| 183 | 22 | 0342 | 9996 | 9642 | 9282 | 8936 | 8503 | 8229 | 7876 | 7522 | 7168 | 6815 | 6461 | 6197 | 5754 | 5400 | 5046 | 4692 | 109 | 29 | 1645 |
| 177 | 30 | 0 (9) 0556 | 0203 | 9850 | 9496 | 9143 | 8789 | 8436 | 8082 | 7729 | 7375 | 7021 | 6667 | 6313 | 5960 | 5606 | 5251 | 4897 | 105 | 30 | 1 1434 |
| 171 | 31 | 0763 | 0410 | 0057 | 9703 | 9350 | 8996 | 8643 | 8289 | 7935 | 7561 | 7228 | 6874 | 6520 | 6165 | 5811 | 5457 | 5103 | 102 | 31 | 1224 |
| 165 | 32 | 0971 | 0617 | 0264 | 9910 | 9557 | 9203 | 8849 | 8495 | 8142 | 7788 | 7434 | 7080 | 6726 | 6371 | 6017 | 5663 | 5309 | 98 | 32 | 1013 |
| 159 | 33 | 1178 | 0824 | 0471 | 0117 | 9764 | 9410 | 9056 | 8702 | 8348 | 7994 | 7640 | 7286 | 6932 | 6577 | 6223 | 5869 | 5514 | 95 | 33 | 0802 |
| 153 | 34 | 1385 | 1031 | 0676 | 0324 | 9970 | 9616 | 9262 | 8908 | 8554 | 8200 | 7846 | 7492 | 7130 | 6783 | 6429 | 6074 | 5720 | 91 | 34 | 0591 |
| 147 | 35 | 0 (9) 1592 | 1238 | 0885 | 0531 | 0177 | 9823 | 9469 | 9115 | 8761 | 8406 | 8052 | 7698 | 7343 | 6989 | 6634 | 6280 | 5925 | 86 | 35 | 1 0380 |
| 141 | 36 | 1799 | 1445 | 1092 | 0738 | 0383 | 0029 | 9675 | 9321 | 8967 | 8612 | 8258 | 7904 | 7549 | 7195 | 6040 | 6485 | 6130 | 04 | 36 | 0170 |
| 135 | 37 | 2006 | 1652 | 1298 | 0944 | 0590 | 0236 | 9882 | 9527 | 9173 | 8818 | 8464 | 8109 | 7755 | 7400 | 7045 | 6691 | 6336 | 81 | 37 | 0 9959 |
| 130 | 38 | 2213 | 1859 | 1505 | 1151 | 0797 | 0442 | 0088 | 9733 | 9379 | 9924 | 0670 | 8315 | 7961 | 7606 | 7251 | 6896 | 6541 | 77 | 38 | 9749 |
| 124 | 39 | 2420 | 2066 | 1712 | 1357 | 1003 | 0649 | 0294 | 9940 | 9585 | 9230 | 8875 | 8521 | 0166 | 7011 | 7456 | 7101 | 6746 | 74 | 39 | 2538 |
| 118 | 40 | 0 (9) 2627 | 2273 | 1918 | 1564 | 1209 | 0855 | 0500 | 0146 | 9791 | 9436 | 9081 | 8727 | 8372 | 8017 | 7662 | 7307 | 6951 | 70 | 40 | 0 9328 |
| 112 | 41 | 2834 | 2479 | 2125 | 1770 | 1416 | 1061 | 0706 | 0352 | 9997 | 9642 | 9287 | 8932 | 8577 | 8222 | 7867 | 7512 | 7156 | 67 | 41 | 9118 |
| 106 | 42 | 3040 | 2686 | 2331 | 1977 | 1622 | 1257 | 0912 | 0558 | 0203 | 9848 | 9493 | 9130 | 8783 | 8427 | 8072 | 7717 | 7361 | 63 | 42 | 8907 |
| 100 | 43 | 3247 | 2892 | 2538 | 2183 | 1828 | 1473 | 1118 | 0764 | 0409 | 0054 | 9698 | 9343 | 8988 | 8633 | 8277 | 7229 | 7566 | 60 | 43 | 6697 |
| 24 | 44 | 3453 | 3099 | 2744 | 2389 | 2034 | 1679 | 1324 | 0969 | 0614 | 0259 | 9904 | 9549 | 9193 | 8838 | 8482 | 8127 | 7771 | 56 | 44 | 8487 |
| 88 | 45 | 0 (9) 3660 | 3305 | 2950 | 2595 | 2240 | 1885 | 1530 | 1175 | 0820 | 0465 | 0109 | 9754 | 9399 | 9043 | 8687 | 8332 | 7976 | 53 | 45 | 0 8277 |
| 03 | 46 | 3667 | 3512 | 3157 | 2802 | 2446 | 2091 | 1736 | 1301 | 1026 | 0670 | 0315 | 9959 | 9604 | 9248 | 8892 | 8537 | 8181 | 49 | 46 | 8067 |
| 77 | 47 | 4073 | 3716 | 3363 | 3000 | 2652 | 2297 | 1942 | 1507 | 1231 | 0875 | 0520 | 0165 | 9809 | 9453 | 9097 | 8742 | 8386 | 46 | 47 | 7857 |
| 71 | 48 | 4279 | 3924 | 3569 | 3214 | 2858 | 2503 | 2146 | 1792 | 1437 | 1061 | 0725 | 0370 | 0014 | 9658 | 9302 | 0946 | 8590 | 42 | 48 | 7647 |
| 65 | 49 | 4485 | 4130 | 3775 | 3420 | 3064 | 2709 | 2353 | 1996 | 1642 | 1286 | 0931 | 0575 | 0219 | 9663 | 9507 | 9151 | 8795 | 39 | 49 | 7437 |
| 59 | 50 | 0 (2) 4692 | 4336 | 3981 | 3626 | 3270 | 2915 | 2559 | 2203 | 1648 | 1492 | 1136 | 0780 | 0424 | 0068 | 9712 | 9356 | 9000 | 35 | 50 | 0 7227 |
| 53 | 51 | 4898 | 4542 | 4187 | 3831 | 3476 | 3120 | 2764 | 2409 | 2053 | 1697 | 1341 | 0965 | 0629 | 0273 | 9917 | 9560 | 9204 | 32 | 51 | 7017 |
| 47 | 52 | 5164 | 4740 | 4393 | 4637 | 3681 | 3326 | 2970 | 2614 | 2258 | 1902 | 1546 | 1190 | 0834 | 0477 | 0121 | 9765 | 9408 | 28 | 52 | 6806 |
| 41 | 53 | 5310 | 4954 | 4592 | 4243 | 3887 | 3531 | 3175 | 2812 | 2463 | 2107 | 1751 | 1395 | 1038 | 0682 | 0326 | 9969 | 9613 | 25 | 53 | 6598 |
| 35 | 54 | 5516 | 5160 | 4805 | 4449 | 4093 | 3737 | 3361 | 6025 | 2666 | 2312 | 1956 | 1600 | 1243 | 0887 | 0530 | 0174 | 9817 | 21 | 54 | 6389 |
| 29 | 55 | 0 5722 | 5366 | 5010 | 4654 | 4298 | 3942 | 3586 | 3230 | 2073 | 2517 | 2161 | 1804 | 1448 | 1091 | 0735 | 0378 | 0021 | 10 | 55 | 0 6179 |
| 24 | 56 | 5928 | 5572 | 5216 | 4860 | 4504 | 4147 | 3791 | 3435 | 3078 | 2722 | 2366 | 2009 | 1652 | 1296 | 0939 | 0502 | 0226 | 14 | 55 | 5970 |
| 18 | 57 | 6133 | 5777 | 5421 | 5065 | 4709 | 4353 | 3996 | 3640 | 3283 | 2927 | 2570 | 2214 | 1857 | 1500 | 1144 | 0787 | 0430 | 11 | 57 | 5760 |
| 12 | 58 | 6339 | 5983 | 5627 | 5271 | 4914 | 4558 | 4201 | 3845 | 3488 | 3132 | 2775 | 2418 | 2062 | 1705 | 1348 | 0991 | 0634 | 7 | 56 | 5551 |
| 6 | 59 | 6545 | 6169 | 5832 | 5476 | 5120 | 4753 | 4406 | 4050 | 3693 | 3336 | 2980 | 2623 | 2266 | 1909 | 1552 | 1195 | 0838 | 3 | 59 | 5342 |

| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 134° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 134° | Núm. |
| | | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | | | |
| 354 | 6' | 6 | 8349 | 7928 | 7647 | 7296 | 6944 | 6593 | 6242 | 5890 | 5539 | 5188 | 4836 | 4484 | 4133 | 3781 | 3429 | 3077 | 2725 | 0 | 9' | 9 4658 |
| 348 | 1 | | 0556 | 8205 | 7854 | 7503 | 7151 | 6800 | 6448 | 5097 | 5745 | 5394 | 5042 | 4690 | 4338 | 3987 | 3635 | 3283 | 2931 | 3 | 1 | 4868 |
| 343 | 2 | | 8764 | 8412 | 8061 | 7710 | 7358 | 7007 | 6655 | 6303 | 5952 | 5600 | 5248 | 4896 | 4544 | 4192 | 3840 | 3488 | 3136 | 7 | 2 | 5077 |
| 337 | 3 | | 8971 | 8619 | 8268 | 7917 | 7565 | 7213 | 6862 | 6510 | 5168 | 5806 | 5454 | 5102 | 4750 | 4398 | 4046 | 3694 | 3342 | 15 | 3 | 5286 |
| 331 | 4 | | 2178 | 8827 | 8475 | 8123 | 7772 | 7420 | 7068 | 5716 | 6364 | 6012 | 5660 | 5308 | 4956 | 4604 | 4252 | 3899 | 3547 | 14 | 4 | 5495 |
| 325 | 5 | 8 | 2385 | 9034 | 8682 | 8330 | 7978 | 7626 | 7275 | 6923 | 6571 | 6219 | 5866 | 5514 | 5162 | 4810 | 4457 | 4105 | 3752 | 17 | 5 | 9 5704 |
| 319 | 6 | | 2592 | 9240 | 8889 | 8537 | 8185 | 7833 | 7481 | 7129 | 5777 | 6425 | 6072 | 5729 | 5368 | 5015 | 4663 | 4310 | 3958 | 21 | 6 | 5913 |
| 313 | 7 | | 2799 | 9447 | 9095 | 8743 | 8391 | 8039 | 7687 | 7335 | 6983 | 6631 | 6278 | 5926 | 5573 | 5221 | 4868 | 4516 | 4163 | 24 | 7 | 6122 |
| 307 | 8 | 9 (8) | 0006 | 9654 | 9302 | 8950 | 8598 | 8246 | 7894 | 7541 | 7189 | 6837 | 6484 | 6132 | 5779 | 5426 | 5074 | 4721 | 4368 | 28 | 8 | 5330 |
| 301 | 9 | | 0213 | 9861 | 9509 | 9157 | 8804 | 8452 | 8100 | 7747 | 7395 | 7043 | 6690 | 6337 | 5985 | 5632 | 5279 | 4926 | 4573 | 31 | 9 | 6539 |
| 295 | 10 | 9 (8) | 0420 | 0067 | 9715 | 9363 | 2011 | 8658 | 8306 | 7953 | 7601 | 7248 | 6896 | 6543 | 6190 | 5837 | 5485 | 5132 | 4779 | 35 | 10 | 2 6748 |
| 289 | 11 | | 0626 | 0274 | 9922 | 9569 | 2217 | 8865 | 8512 | 8159 | 7807 | 7454 | 7101 | 6749 | 6396 | 6043 | 5690 | 5337 | 4984 | 38 | 11 | 6957 |
| 284 | 12 | | 0833 | 0481 | 0128 | 9776 | 9423 | 9071 | 8718 | 8365 | 8013 | 7660 | 7307 | 6954 | 6601 | 6248 | 5895 | 5542 | 5189 | 41 | 12 | 7165 |
| 278 | 13 | | 1040 | 0687 | 0335 | 9982 | 9630 | 9277 | 8924 | 8571 | 8218 | 7866 | 7513 | 7160 | 6806 | 6453 | 6100 | 5747 | 5394 | 45 | 13 | 7374 |
| 272 | 14 | | 1246 | 0894 | 0541 | 0188 | 9836 | 9483 | 9130 | 8777 | 8424 | 8071 | 7718 | 7365 | 7012 | 6658 | 6305 | 5952 | 5598 | 48 | 14 | 7582 |
| 266 | 15 | 2 (0) | 1453 | 1100 | 0747 | 0395 | 0042 | 9689 | 9336 | 8983 | 8630 | 8277 | 7924 | 7570 | 7217 | 6864 | 6510 | 6157 | 5803 | 52 | 15 | 9 7790 |
| 260 | 16 | | 1659 | 1306 | 0254 | 0601 | 0248 | 9895 | 9542 | 2189 | 8835 | 8482 | 8129 | 7776 | 7422 | 7069 | 6715 | 6362 | 6008 | 55 | 16 | 7999 |
| 254 | 17 | | 1866 | 1513 | 1160 | 0807 | 0454 | 0101 | 9747 | 9394 | 9041 | 8688 | 8334 | 7981 | 7627 | 7274 | 6929 | 6566 | 6213 | 59 | 17 | 8207 |
| 248 | 18 | | 2072 | 1719 | 1366 | 1013 | 0660 | 0306 | 9953 | 9600 | 9246 | 8893 | 8539 | 8186 | 7832 | 7479 | 7125 | 6771 | 6417 | 62 | 18 | 8415 |
| 242 | 19 | | 2278 | 1925 | 1572 | 1212 | 0865 | 0612 | 0159 | 9855 | 9452 | 9098 | 8745 | 8391 | 8037 | 7684 | 7330 | 6976 | 6622 | 66 | 19 | 8625 |
| 236 | 20 | 9 (0) | 2484 | 2131 | 1778 | 1426 | 1071 | 0718 | 0364 | 0011 | 9657 | 9304 | 8950 | 8596 | 8242 | 7888 | 7534 | 7180 | 6826 | 69 | 20 | 9 8832 |
| 230 | 21 | | 2690 | 2337 | 1984 | 1630 | 1277 | 0924 | 0579 | 0216 | 9863 | 9509 | 9155 | 8801 | 8447 | 8093 | 7739 | 7385 | 7031 | 73 | 21 | 9040 |
| 225 | 22 | | 2897 | 2543 | 2190 | 1836 | 1483 | 1129 | 0775 | 0422 | 0068 | 9714 | 9360 | 9006 | 8652 | 8298 | 7944 | 7589 | 7235 | 76 | 22 | 9248 |
| 219 | 23 | | 3103 | 2749 | 2396 | 2042 | 1688 | 1334 | 0981 | 0627 | 0273 | 9919 | 9565 | 9211 | 8857 | 8503 | 8148 | 7794 | 7440 | 80 | 23 | 9455 |
| 213 | 24 | | 3309 | 2955 | 2601 | 2248 | 1894 | 1540 | 1186 | 0832 | 0478 | 0124 | 9770 | 9416 | 9061 | 8707 | 8353 | 7998 | 7644 | 83 | 24 | 9663 |
| 297 | 25 | 9 (8) | 3515 | 3161 | 2807 | 2453 | 2099 | 1745 | 1391 | 1037 | 0683 | 0329 | 9975 | 9621 | 9266 | 8912 | 8557 | 8203 | 7848 | 86 | 25 | 9 9871 |
| 201 | 26 | | 3720 | 3367 | 3013 | 2659 | 2305 | 1951 | 1597 | 1242 | 0888 | 0534 | 0180 | 9825 | 9471 | 9116 | 8762 | 8407 | 8052 | 90 | 26 | 0 0079 |
| 195 | 27 | | 3926 | 3572 | 3218 | 2864 | 2510 | 2166 | 1892 | 1447 | 1023 | 0739 | 0384 | 0030 | 9675 | 9321 | 8966 | 8611 | 8256 | 93 | 27 | 0287 |
| 189 | 28 | | 4132 | 3778 | 3424 | 3070 | 2715 | 2361 | 2007 | 1652 | 1298 | 0944 | 0589 | 0234 | 2880 | 9525 | 9170 | 8815 | 8460 | 97 | 28 | 0494 |
| 183 | 29 | | 4338 | 3983 | 3629 | 3275 | 2921 | 2566 | 2212 | 1857 | 1553 | 1148 | 0794 | 0439 | 9904 | 9729 | 9374 | 9019 | 8664 | 109 | 29 | 0702 |
| 177 | 39 | 2 (8) | 4543 | 4189 | 3835 | 3480 | 3126 | 2771 | 2417 | 2062 | 1708 | 1353 | 0998 | 0643 | 0288 | 9934 | 9579 | 9223 | 8868 | 104 | 30 | 9 0909 |
| 171 | 31 | | 4749 | 4394 | 4040 | 3686 | 3331 | 2976 | 2622 | 2267 | 1912 | 1558 | 1203 | 0848 | 0493 | 0138 | 9783 | 9427 | 2072 | 107 | 31 | 1117 |
| 165 | 32 | | 4964 | 4600 | 4245 | 3891 | 3536 | 3181 | 2827 | 2472 | 2117 | 1762 | 1407 | 1052 | 0697 | 0342 | 9987 | 9631 | 9276 | 111 | 32 | 1324 |
| 160 | 33 | | 5160 | 4805 | 4451 | 4096 | 3741 | 3386 | 3032 | 2677 | 2322 | 1967 | 1612 | 1256 | 0901 | 0646 | 0191 | 9835 | 9480 | 114 | 33 | 1531 |
| 154 | 34 | | 6365 | 5019 | 4656 | 4301 | 3946 | 3591 | 3236 | 2881 | 2526 | 2171 | 1816 | 1461 | 1106 | 0750 | 0325 | 0039 | 9684 | 118 | 34 | 1739 |
| 148 | 36 | 9 (8) | 6570 | 5216 | 4861 | 4506 | 4151 | 3796 | 3441 | 3086 | 2731 | 2375 | 2020 | 1665 | 1309 | 0954 | 0598 | 0243 | 9887 | 121 | 35 | 0 1946 |
| 142 | 36 | 9 | 6776 | 5421 | 5066 | 4711 | 4356 | 4901 | 3646 | 3290 | 2935 | 2580 | 2224 | 1869 | 1513 | 1158 | 0802 | 0447 | 9091 | 124 | 36 | 2153 |
| 136 | 37 | | 6981 | 5626 | 5271 | 4916 | 4561 | 4205 | 3850 | 3495 | 3140 | 2784 | 2429 | 2073 | 1717 | 1362 | 1906 | 0650 | 9294 | 128 | 37 | 2360 |
| 130 | 38 | | 6186 | 5831 | 5476 | 5121 | 4765 | 4410 | 4055 | 3699 | 3344 | 2988 | 2633 | 2277 | 1921 | 1566 | 1210 | 0854 | 0498 | 131 | 38 | 2567 |
| 124 | 39 | | 6391 | 6035 | 5601 | 5325 | 4970 | 4515 | 4259 | 3204 | 3548 | 3192 | 2837 | 2481 | 2125 | 1769 | 1413 | 1057 | 9701 | 135 | 39 | 2774 |
| 118 | 45 | 2 | 6596 | 6241 | 5886 | 5630 | 5175 | 4819 | 4464 | 4108 | 3752 | 3396 | 3941 | 2685 | 2329 | 1973 | 1617 | 1261 | 0905 | 138 | 40 | 0 2981 |
| 112 | 41 | | 6801 | 6446 | 6090 | 5735 | 5379 | 5824 | 4668 | 4312 | 3256 | 3600 | 3245 | 2889 | 2533 | 2177 | 1820 | 1464 | 1108 | 142 | 41 | 3188 |
| 106 | 42 | | 7006 | 6651 | 6295 | 5939 | 5584 | 5228 | 4872 | 4516 | 4160 | 3804 | 3449 | 3092 | 2736 | 2380 | 2924 | 1668 | 1311 | 145 | 42 | 3395 |
| 100 | 43 | | 7211 | 6855 | 6500 | 6144 | 5788 | 5432 | 5075 | 4720 | 4364 | 4008 | 3652 | 3296 | 2940 | 2584 | 2227 | 1871 | 1514 | 149 | 43 | 3601 |
| 95 | 44 | | 7416 | 7960 | 6704 | 6348 | 5993 | 5637 | 5281 | 4924 | 4568 | 4212 | 3856 | 3500 | 3143 | 2787 | 2431 | 2074 | 1717 | 152 | 44 | 3808 |
| 89 | 45 | 2 | 7620 | 7265 | 6909 | 6553 | 6197 | 5841 | 5485 | 5128 | 4772 | 4416 | 4069 | 3703 | 3347 | 2990 | 2634 | 2277 | 1920 | 156 | 45 | 0 4015 |
| 83 | 46 | | 7625 | 7469 | 7113 | 6757 | 6401 | 6545 | 5689 | 5332 | 4976 | 4620 | 4263 | 3907 | 3550 | 3194 | 2837 | 2480 | 2123 | 159 | 46 | 4221 |
| 77 | 47 | | 8030 | 7674 | 7318 | 6962 | 6605 | 6249 | 5893 | 5536 | 5180 | 4824 | 4467 | 4110 | 3754 | 3397 | 3040 | 2683 | 2326 | 163 | 47 | 4428 |
| 71 | 48 | | 8234 | 7878 | 7522 | 7166 | 6810 | 6453 | 6097 | 5740 | 5384 | 5027 | 4671 | 4314 | 3257 | 3609 | 3243 | 2886 | 2529 | 166 | 48 | 4634 |
| 65 | 49 | | 6432 | 8083 | 7726 | 7370 | 7014 | 6657 | 6301 | 5244 | 5587 | 5231 | 4874 | 4517 | 4160 | 3803 | 3446 | 3989 | 2732 | 169 | 49 | 4841 |
| 59 | 69 | 2 | 8643 | 8287 | 7931 | 7574 | 7218 | 6861 | 6504 | 6148 | 5791 | 5434 | 5077 | 4720 | 4363 | 4996 | 3642 | 3292 | 2935 | 173 | 50 | 0 5047 |
| 53 | 51 | | 8848 | 8491 | 8135 | 7778 | 7422 | 7065 | 6758 | 6351 | 5925 | 5638 | 5281 | 4224 | 4567 | 4209 | 3852 | 3495 | 3138 | 176 | 61 | 5253 |
| 47 | 52 | | 2052 | 8695 | 8339 | 7982 | 7625 | 7269 | 6912 | 6555 | 6198 | 5841 | 5484 | 5127 | 4770 | 4412 | 4055 | 3698 | 3340 | 180 | 52 | 5459 |
| 41 | 53 | | 2256 | 8900 | 8543 | 8156 | 7822 | 7472 | 7115 | 6759 | 6401 | 6944 | 5687 | 5338 | 4973 | 4615 | 4258 | 3905 | 3543 | 183 | 53 | 5665 |
| 35 | 54 | | 2465 | 9104 | 8747 | 8395 | 8033 | 7676 | 7319 | 6262 | 6605 | 6248 | 5099 | 6633 | 6176 | 4816 | 4461 | 4193 | 3746 | 187 | 64 | 5872 |
| 30 | 55 | 9 | 9665 | 9398 | 8951 | 8594 | 8237 | 7880 | 7523 | 7165 | 6808 | 6451 | 5093 | 5736 | 5379 | 5021 | 4663 | 4306 | 3948 | 199 | 55 | 0 6078 |
| 24 | 56 | | 9869 | 9512 | 9155 | 8798 | 8440 | 8083 | 7726 | 7369 | 7011 | 6654 | 6296 | 5932 | 5581 | 5224 | 4866 | 4588 | 4160 | 193 | 66 | 6284 |
| 18 | 57 | 5 (9) | 0073 | 9716 | 9358 | 9091 | 8644 | 8287 | 7930 | 7572 | 7215 | 5857 | 6499 | 6142 | 6784 | 5426 | 5069 | 4711 | 4353 | 197 | 57 | 6489 |
| 12 | 58 | | 0277 | 9919 | 9562 | 9295 | 8848 | 8429 | 8133 | 7775 | 7418 | 7060 | 6702 | 6345 | 5987 | 5629 | 5271 | 4913 | 4655 | 201 | 58 | 5695 |
| 6 | 59 | | 8481 | 0123 | 9766 | 9409 | 9051 | 8694 | 8336 | 7278 | 7621 | 7263 | 6905 | 6547 | 6189 | 5832 | 5474 | 5115 | 4757 | 204 | 69 | 5901 |

**Tabla X.** Numero I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 135° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 19' | 11' | 12' | 13' | 14' | 13' | 16' | Partes para segundos. | 135° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2' | 9 6761 | 6394 | 3038 | 5681 | 3323 | 4260 | 4612 | 4255 | 3898 | 3541 | 3184 | 2827 | 2470 | 2113 | 1736 | 1399 | 1942 | 207 | 0' | 0 6132 |
| 354 | 1 | 6055 | 6600 | 3243 | 3087 | 6530 | 5173 | 4816 | 4430 | 4103 | 3746 | 3389 | 3032 | 2675 | 2317 | 1960 | 1603 | 1246 | 204 | 1 | 4923 |
| 348 | 2 | 7162 | 6805 | 6448 | 5092 | 5735 | 5376 | 5021 | 4654 | 4307 | 3050 | 3593 | 3236 | 2870 | 2522 | 2124 | 1867 | 1449 | 201 | 2 | 4714 |
| 342 | 3 | 7337 | 7010 | 6654 | 6227 | 5040 | 5583 | 5226 | 4869 | 4512 | 4155 | 3798 | 3440 | 3083 | 2725 | 2368 | 2911 | 1653 | 197 | 3 | 4505 |
| 336 | 4 | 7572 | 7216 | 6830 | 6502 | 6146 | 5788 | 5431 | 3074 | 4717 | 4359 | 4002 | 3645 | 3287 | 2930 | 2572 | 2215 | 1857 | 194 | 4 | 4296 |
| 330 | 5 | 9 7778 | 7421 | 7064 | 6707 | 6350 | 5993 | 5636 | 5278 | 4921 | 4564 | 4208 | 3049 | 3421 | 3134 | 2776 | 2418 | 2061 | 196 | 6 | 0 4087 |
| 324 | 6 | 7083 | 7626 | 7259 | 6912 | 6555 | 6198 | 5840 | 5483 | 5125 | 4768 | 4410 | 4053 | 3395 | 3338 | 2980 | 2622 | 2264 | 187 | 6 | 3878 |
| 318 | 7 | 8160 | 7031 | 7474 | 7117 | 6760 | 6402 | 6045 | 5687 | 5330 | 4972 | 4615 | 4257 | 3890 | 3542 | 3184 | 2826 | 2468 | 183 | 7 | 3670 |
| 312 | 8 | 8393 | 8036 | 7679 | 7322 | 6264 | 6607 | 6249 | 5802 | 5534 | 5176 | 4819 | 4461 | 4103 | 3745 | 3387 | 3029 | 2671 | 180 | 8 | 3161 |
| 306 | 9 | 8598 | 8241 | 7884 | 7526 | 7162 | 6811 | 6454 | 6093 | 5738 | 5381 | 5023 | 4665 | 4327 | 3949 | 3521 | 3233 | 2875 | 176 | 9 | 3252 |
| 300 | 10 | 0 8803 | 8146 | 8089 | 7731 | 7373 | 7016 | 6658 | 6300 | 5943 | 5585 | 5227 | 4869 | 4511 | 4153 | 3794 | 3436 | 3278 | 173 | 19 | 0 3043 |
| 294 | 11 | 9008 | 8651 | 8293 | 7936 | 7578 | 7220 | 6862 | 6503 | 6147 | 5789 | 5431 | 5073 | 4714 | 4356 | 3900 | 3640 | 3201 | 162 | 11 | 2835 |
| 288 | 12 | 9213 | 0866 | 8426 | 8140 | 7782 | 7425 | 7067 | 6700 | 6351 | 5903 | 5635 | 5276 | 4018 | 4560 | 4201 | 3843 | 3484 | 166 | 12 | 2626 |
| 282 | 13 | 9418 | 2060 | 8703 | 8345 | 7087 | 7629 | 7271 | 3913 | 6555 | 6197 | 5838 | 5400 | 5122 | 4763 | 4405 | 4046 | 3608 | 163 | 13 | 2118 |
| 276 | 14 | 9623 | 9265 | 8907 | 0540 | 8101 | 7833 | 7475 | 7117 | 6759 | 6400 | 6042 | 5684 | 5325 | 4067 | 4608 | 4250 | 3821 | 169 | 14 | 2212 |
| 270 | 15 | 0 2820 | 9470 | 9112 | 8754 | 6396 | 8037 | 7672 | 7321 | 6963 | 6604 | 6246 | 5887 | 5529 | 5170 | 4812 | 4453 | 4094 | 156 | 13 | 0 2001 |
| 264 | 16 | 1 (0) 0032 | 9674 | 9313 | 8958 | 8600 | 8242 | 7883 | 7525 | 7166 | 6808 | 6449 | 6091 | 5732 | 5374 | 5015 | 4656 | 4297 | 152 | 19 | 1793 |
| 258 | 17 | 0237 | 9879 | 9521 | 9162 | 8804 | 8443 | 8087 | 7729 | 7370 | 7012 | 6653 | 6294 | 5936 | 5577 | 5218 | 4859 | 4500 | 149 | 17 | 1585 |
| 252 | 16 | 0441 | 0083 | 0725 | 9367 | 9008 | 0650 | 8291 | 7933 | 7574 | 7215 | 6056 | 6428 | 6130 | 5780 | 5421 | 5062 | 4703 | 145 | 18 | 1377 |
| 246 | 19 | 0646 | 0288 | 9929 | 9571 | 9212 | 8854 | 8495 | 8136 | 7778 | 7419 | 7060 | 6701 | 6342 | 5983 | 5624 | 5265 | 4906 | 142 | 12 | 1168 |
| 240 | 20 | 1 (0) 0850 | 0492 | 0133 | 9775 | 9416 | 9058 | 8699 | 0340 | 7981 | 7622 | 7263 | 6904 | 6545 | 6186 | 5827 | 5468 | 5108 | 138 | 29 | 0 0960 |
| 234 | 21 | 1055 | 0626 | 0338 | 2979 | 0620 | 9261 | 8903 | 8544 | 0185 | 7826 | 7467 | 7108 | 6748 | 6389 | 6030 | 5670 | 5311 | 135 | 21 | 0752 |
| 228 | 22 | 1250 | 0200 | 0542 | 0183 | 9824 | 9465 | 9106 | 8747 | 8388 | 6029 | 7672 | 7311 | 6951 | 6502 | 6233 | 5873 | 5514 | 131 | 22 | 0545 |
| 222 | 23 | 1463 | 1104 | 2746 | 2387 | 0028 | 9669 | 9310 | 8051 | 8522 | 8232 | 7873 | 7514 | 7154 | 6795 | 6436 | 6076 | 5716 | 120 | 23 | 2337 |
| 216 | 24 | 1667 | 1308 | 0932 | 0591 | 0232 | 9873 | 9513 | 9164 | 8725 | 8436 | 8076 | 7717 | 7357 | 6998 | 6638 | 6279 | 5210 | 124 | 24 | 0129 |
| 210 | 25 | 1 (0) 1871 | 1512 | 1154 | 2794 | 0435 | 0073 | 9717 | 9358 | 8998 | 8639 | 8279 | 7920 | 7560 | 7201 | 6841 | 6481 | 6121 | 121 | 23 | 9 9921 |
| 204 | 26 | 2075 | 1716 | 1357 | 0998 | 0639 | 0280 | 9920 | 9561 | 9202 | 8842 | 8462 | 8123 | 7763 | 7403 | 7043 | 6684 | 6324 | 118 | 26 | 2713 |
| 198 | 27 | 2279 | 1920 | 1361 | 1202 | 2843 | 0403 | 0124 | 9764 | 9405 | 0045 | 8685 | 8326 | 7966 | 7603 | 7243 | 6886 | 6526 | 114 | 27 | 9506 |
| 192 | 28 | 2423 | 2124 | 1765 | 1405 | 1046 | 0687 | 0327 | 9967 | 9608 | 9248 | 8888 | 8528 | 8162 | 7869 | 7442 | 7080 | 6728 | 111 | 28 | 9298 |
| 186 | 29 | 2687 | 2328 | 1969 | 1609 | 1252 | 0822 | 0530 | 0171 | 9811 | 9451 | 9091 | 0731 | 8371 | 8011 | 7651 | 7291 | 6230 | 107 | 22 | 2091 |
| 100 | 30 | 1 (0) 2891 | 2532 | 2172 | 1813 | 1453 | 1003 | 2734 | 0374 | 0014 | 9654 | 9294 | 8934 | 8574 | 8214 | 7853 | 7493 | 7133 | 104 | 30 | 9 0883 |
| 174 | 31 | 3093 | 2735 | 2376 | 2013 | 1636 | 1296 | 0937 | 0577 | 0217 | 0857 | 9497 | 2136 | 8776 | 8413 | 8056 | 7695 | 7335 | 106 | 31 | 8676 |
| 160 | 32 | 3299 | 2039 | 2579 | 2219 | 1860 | 1500 | 1140 | 0780 | 0420 | 0059 | 9699 | 9339 | 8979 | 8618 | 8258 | 7807 | 7537 | 97 | 32 | 8469 |
| 132 | 33 | 3502 | 3142 | 2783 | 2423 | 2063 | 1703 | 1343 | 0983 | 0622 | 0262 | 2902 | 9542 | 9181 | 8821 | 8130 | 8099 | 7732 | 93 | 33 | 8261 |
| 136 | 34 | 3706 | 3346 | 2986 | 2626 | 2266 | 1906 | 1546 | 1186 | 6825 | 0465 | 2104 | 9744 | 9384 | 9023 | 8632 | 8301 | 7941 | 90 | 34 | 8054 |
| 160 | 35 | 1 (9) 3909 | 3549 | 3189 | 2829 | 2469 | 2102 | 1749 | 1388 | 1026 | 0637 | 0307 | 9946 | 9506 | 9225 | 8864 | 8503 | 8143 | 86 | 35 | 9 7847 |
| 144 | 36 | 4113 | 3753 | 3393 | 3032 | 2672 | 2312 | 1951 | 1591 | 1230 | 0870 | 0509 | 0149 | 9788 | 9427 | 9066 | 8705 | 8344 | 83 | 36 | 7640 |
| 138 | 37 | 4316 | 3956 | 3595 | 3235 | 2875 | 2515 | 2154 | 1794 | 1433 | 1072 | 0712 | 0351 | 9990 | 9629 | 9268 | 8907 | 0546 | 80 | 37 | 7433 |
| 132 | 38 | 4519 | 4159 | 3799 | 3438 | 3078 | 2718 | 2357 | 1006 | 1636 | 1275 | 0914 | 0553 | 0122 | 9831 | 0470 | 9102 | 8748 | 76 | 38 | 7226 |
| 126 | 39 | 4723 | 4362 | 4002 | 3641 | 3281 | 2920 | 2560 | 2199 | 1830 | 1477 | 1116 | 0755 | 0394 | 0033 | 9672 | 9311 | 8930 | 73 | 32 | 7019 |
| 126 | 46 | 1 (9) 4926 | 4563 | 4205 | 3844 | 3484 | 3123 | 2762 | 2401 | 2040 | 1679 | 1318 | 0957 | 0596 | 0235 | 9874 | 9312 | 9131 | 62 | 40 | 2 6812 |
| 114 | 41 | 6120 | 4738 | 4408 | 4047 | 3686 | 3323 | 2965 | 2604 | 2243 | 1882 | 1521 | 1152 | 0728 | 0437 | 0076 | 2714 | 2353 | 66 | 41 | 6605 |
| 108 | 42 | 6332 | 4971 | 4611 | 4250 | 3889 | 3528 | 3167 | 2805 | 2443 | 2084 | 1723 | 1361 | 1000 | 0639 | 0277 | 2916 | 2554 | 62 | 42 | 6390 |
| 102 | 43 | 5535 | 5174 | 4814 | 4453 | 4092 | 3731 | 3370 | 3008 | 2647 | 2286 | 1925 | 1563 | 1202 | 0840 | 0479 | 0117 | 2735 | 69 | 43 | 6192 |
| 96 | 44 | 6738 | 3377 | 5016 | 4655 | 4294 | 3933 | 3572 | 3211 | 2842 | 2488 | 2127 | 1765 | 1404 | 1042 | 0380 | 0312 | 2237 | 65 | 44 | 5985 |
| 96 | 46 | 1 6941 | 3580 | 5219 | 4858 | 4497 | 4136 | 3774 | 3413 | 3051 | 2690 | 2329 | 1967 | 1605 | 1243 | 0882 | 0520 | 2158 | 52 | 46 | 9 5779 |
| 04 | 46 | 6144 | 3783 | 5422 | 5060 | 4609 | 4338 | 3977 | 3613 | 3253 | 2892 | 2530 | 2169 | 1807 | 1445 | 1083 | 0721 | 0332 | 48 | 46 | 5572 |
| 78 | 47 | 6347 | 5085 | 5624 | 5263 | 4202 | 4542 | 4172 | 3817 | 3455 | 3094 | 2732 | 2370 | 2208 | 1647 | 1205 | 0922 | 0660 | 45 | 47 | 5365 |
| 72 | 49 | 6549 | 3188 | 5827 | 5465 | 3104 | 4742 | 4381 | 4012 | 3657 | 3296 | 2934 | 2572 | 2212 | 1840 | 1486 | 1124 | 0761 | 41 | 40 | 5130 |
| 66 | 49 | 6752 | 6391 | 6029 | 5668 | 3303 | 4945 | 4583 | 4221 | 3859 | 3497 | 3135 | 2773 | 2411 | 2049 | 1387 | 1325 | 0262 | 38 | 49 | 4953 |
| 60 | 50 | 1 6955 | 6503 | 3232 | 5870 | 5508 | 5147 | 4785 | 4423 | 4061 | 3690 | 3337 | 2975 | 2613 | 2250 | 1888 | 1526 | 1153 | 35 | 50 | 9 4747 |
| 54 | 51 | 7157 | 3796 | 6434 | 6072 | 3710 | 5349 | 4987 | 4525 | 4263 | 3901 | 3539 | 3176 | 2814 | 2452 | 2082 | 1727 | 1364 | 31 | 61 | 4541 |
| 48 | 62 | 7360 | 3098 | 6636 | 6274 | 5912 | 5551 | 5189 | 4827 | 4464 | 4102 | 3740 | 3378 | 3015 | 2653 | 2290 | 1228 | 1665 | 28 | 52 | 4335 |
| 42 | 63 | 7362 | 7200 | 6839 | 6477 | 6114 | 5752 | 5390 | 5028 | 4666 | 4304 | 3941 | 3579 | 3217 | 2054 | 2491 | 2129 | 1766 | 24 | 63 | 4128 |
| 36 | 34 | 7765 | 7403 | 7041 | 6679 | 6316 | 5954 | 5592 | 6230 | 4868 | 4505 | 4143 | 3780 | 3410 | 3055 | 2692 | 2330 | 1937 | 21 | 54 | 3222 |
| 30 | 65 | 1 7967 | 7605 | 7243 | 6881 | 6518 | 6156 | 5794 | 5431 | 5069 | 4707 | 4344 | 3981 | 3619 | 3256 | 2893 | 2530 | 2167 | 17 | 55 | 9 3716 |
| 21 | 56 | 8169 | 7807 | 7445 | 7083 | 3720 | 6358 | 5995 | 5633 | 5270 | 4908 | 4545 | 4183 | 3820 | 3457 | 3094 | 2731 | 2368 | 14 | 56 | 3511 |
| 18 | 67 | 0371 | 8009 | 7647 | 7281 | 6922 | 6560 | 6197 | 5834 | 5472 | 5109 | 4746 | 4384 | 4021 | 3658 | 3295 | 2932 | 2560 | 10 | 67 | 3305 |
| 12 | 68 | 8573 | 8211 | 7849 | 7486 | 7124 | 6761 | 6390 | 6036 | 5673 | 5310 | 4947 | 4585 | 4222 | 3859 | 3405 | 3132 | 2769 | 7 | 58 | 3099 |
| 6 | 60 | 8775 | 8113 | 8051 | 7688 | 7325 | 6963 | 6600 | 6237 | 5874 | 5511 | 5148 | 4785 | 4422 | 4059 | 3696 | 3333 | 2969 | 3 | 59 | 2893 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 135° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 97′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 361 | 0′ | 0 (9) | 0684 | 0327 | 9970 | 9612 | 9255 | 8897 | 8539 | 8189 | 7824 | 7466 | 7108 | 6750 | 6399 | 6034 | 5676 | 5318 | 4960 |
| 355 | 1 | | 0888 | 0531 | 0173 | 9816 | 9458 | 9100 | 8742 | 8385 | 8027 | 7669 | 7311 | 6953 | 6594 | 6236 | 5878 | 5590 | 5162 |
| 349 | 2 | | 1092 | 0734 | 0377 | 0019 | 9661 | 9303 | 8946 | 8588 | 8230 | 7872 | 7514 | 7155 | 6797 | 6439 | 6081 | 5722 | 5364 |
| 343 | 3 | | 1296 | 0938 | 0580 | 0229 | 9865 | 9507 | 9149 | 8791 | 8432 | 8074 | 7716 | 7358 | 7000 | 6641 | 6283 | 5924 | 5566 |
| 337 | 4 | | 1499 | 1141 | 0784 | 0496 | 0068 | 9710 | 9352 | 8993 | 8635 | 8277 | 7919 | 7560 | 7202 | 6844 | 6485 | 6126 | 5768 |
| 331 | 5 | 0 (9) | 1703 | 1345 | 0987 | 0699 | 0971 | 9913 | 9555 | 9196 | 8838 | 8480 | 8121 | 7763 | 7404 | 7046 | 6687 | 6328 | 5969 |
| 325 | 6 | | 1906 | 1548 | 1190 | 0832 | 0474 | 0116 | 9758 | 9399 | 9041 | 8682 | 8321 | 7965 | 7607 | 7248 | 6889 | 6530 | 6171 |
| 319 | 7 | | 2110 | 1752 | 1393 | 1035 | 0677 | 0319 | 9960 | 9602 | 9243 | 8885 | 8526 | 8167 | 7809 | 7450 | 7091 | 6732 | 6373 |
| 313 | 8 | | 2313 | 1955 | 1597 | 1238 | 0880 | 0592 | 0163 | 9804 | 9416 | 9087 | 8728 | 8370 | 8011 | 7652 | 7293 | 6934 | 6575 |
| 307 | 9 | | 2516 | 2158 | 1800 | 1441 | 1083 | 0724 | 0366 | 0007 | 9648 | 9290 | 8931 | 8572 | 8213 | 7854 | 7495 | 7136 | 6776 |
| 301 | 10 | 0 (9) | 2720 | 2361 | 2003 | 1644 | 1286 | 0927 | 0568 | 0210 | 9851 | 9492 | 9133 | 8774 | 8415 | 8056 | 7697 | 7337 | 6978 |
| 295 | 11 | | 2923 | 2564 | 2906 | 1847 | 1488 | 1130 | 0771 | 0412 | 0053 | 9694 | 9335 | 8976 | 8617 | 8258 | 7898 | 7539 | 7180 |
| 289 | 12 | | 3126 | 2767 | 9409 | 9050 | 1691 | 1332 | 0973 | 0614 | 0255 | 9896 | 9537 | 9178 | 8819 | 8459 | 8100 | 7741 | 7381 |
| 283 | 13 | | 3329 | 2970 | 9612 | 2253 | 1894 | 1535 | 1176 | 0817 | 0458 | 0098 | 9739 | 9380 | 9021 | 8661 | 8302 | 7942 | 7583 |
| 277 | 14 | | 3532 | 3173 | 2814 | 9456 | 2096 | 1737 | 1378 | 1019 | 0660 | 0301 | 9941 | 9582 | 9922 | 8863 | 8503 | 8144 | 7783 |
| 271 | 15 | 0 (9) | 3735 | 3376 | 3017 | 2658 | 2299 | 1940 | 1581 | 1221 | 0862 | 0503 | 0143 | 9784 | 9424 | 9064 | 8705 | 8345 | 7985 |
| 265 | 16 | | 3938 | 3579 | 3920 | 2861 | 2502 | 2142 | 1783 | 1424 | 1064 | 0705 | 0345 | 9985 | 9626 | 9266 | 8906 | 8546 | 8186 |
| 259 | 17 | | 4141 | 3782 | 3422 | 3063 | 2704 | 2345 | 1985 | 1626 | 1266 | 0907 | 0547 | 0187 | 9827 | 9467 | 9108 | 8748 | 8388 |
| 253 | 18 | | 4344 | 3984 | 3625 | 3266 | 2906 | 2547 | 2187 | 1828 | 1468 | 1108 | 0749 | 0389 | 0029 | 9669 | 9309 | 8949 | 8589 |
| 247 | 19 | | 4546 | 4187 | 3828 | 3468 | 3109 | 9749 | 9389 | 2030 | 1670 | 1310 | 0950 | 0590 | 0230 | 9870 | 9510 | 9150 | 8790 |
| 241 | 20 | 0 (9) | 4749 | 4389 | 4030 | 3670 | 3311 | 2951 | 2591 | 2232 | 1872 | 1512 | 1159 | 0792 | 0432 | 0072 | 9711 | 9351 | 8991 |
| 235 | 21 | | 4952 | 4592 | 4232 | 3873 | 3513 | 3153 | 2793 | 2433 | 2074 | 1714 | 1353 | 0993 | 0633 | 0273 | 9913 | 9552 | 9192 |
| 229 | 22 | | 5154 | 4794 | 4435 | 4075 | 3715 | 3355 | 2995 | 2635 | 2275 | 1915 | 1555 | 1195 | 0834 | 0474 | 0114 | 9753 | 9393 |
| 223 | 23 | | 5357 | 4997 | 4637 | 4277 | 3917 | 3557 | 3197 | 2837 | 2477 | 2117 | 1756 | 1396 | 1036 | 0675 | 0315 | 9951 | 9593 |
| 217 | 24 | | 5559 | 5199 | 4839 | 4479 | 4119 | 3759 | 3399 | 3039 | 2678 | 2318 | 1958 | 1597 | 1237 | 0876 | 0516 | 0155 | 9797 |
| 211 | 25 | 0 (9) | 5761 | 5401 | 5041 | 4681 | 4321 | 3961 | 3601 | 3240 | 2880 | 2520 | 2159 | 1799 | 1438 | 1077 | 0717 | 0356 | 9995 |
| 205 | 26 | 0 | 5964 | 5604 | 5243 | 4883 | 4593 | 4163 | 3802 | 3442 | 3082 | 2721 | 2360 | 2000 | 1639 | 1278 | 0917 | 0557 | 0196 |
| 199 | 27 | | 6166 | 5806 | 5445 | 5085 | 4725 | 4364 | 4004 | 3614 | 3283 | 2922 | 2562 | 2201 | 1840 | 1479 | 1118 | 0757 | 0396 |
| 193 | 98 | | 6368 | 6008 | 5617 | 5287 | 4927 | 4566 | 4206 | 3845 | 3484 | 3124 | 2763 | 2402 | 2041 | 1680 | 1319 | 0958 | 0597 |
| 187 | 29 | | 6570 | 6210 | 5849 | 5489 | 5128 | 4768 | 4407 | 4046 | 3686 | 3325 | 2964 | 2603 | 2242 | 1881 | 1520 | 1158 | 0797 |
| 181 | 30 | 0 | 6772 | 6412 | 6051 | 5691 | 5330 | 4969 | 4609 | 4248 | 3887 | 3526 | 3165 | 2804 | 2443 | 2082 | 1790 | 1359 | 0998 |
| 174 | 31 | | 6974 | 6614 | 6953 | 5892 | 5532 | 5171 | 4810 | 4449 | 4088 | 3727 | 3366 | 3005 | 9643 | 2282 | 1921 | 1559 | 1198 |
| 168 | 32 | | 7176 | 6816 | 6455 | 6094 | 5733 | 5372 | 5011 | 4650 | 4289 | 3928 | 3567 | 3205 | 2844 | 2483 | 2121 | 1760 | 1398 |
| 162 | 33 | | 7378 | 7017 | 6657 | 6296 | 5935 | 5574 | 5913 | 4851 | 4490 | 4129 | 3768 | 3406 | 3045 | 2683 | 9322 | 1960 | 1598 |
| 156 | 34 | | 7580 | 7219 | 6858 | 6497 | 6136 | 5775 | 5414 | 5052 | 4691 | 4330 | 3968 | 3607 | 3245 | 2884 | 2522 | 2160 | 1799 |
| 150 | 35 | 0 | 7782 | 7421 | 7060 | 6699 | 6337 | 5976 | 5615 | 5254 | 4892 | 4531 | 4169 | 3808 | 3446 | 3084 | 9722 | 2361 | 1999 |
| 144 | 36 | | 7983 | 7622 | 7261 | 6900 | 6539 | 6177 | 5816 | 5455 | 5093 | 4731 | 4370 | 4008 | 3646 | 3285 | 2923 | 2561 | 2199 |
| 138 | 37 | | 8185 | 7821 | 7463 | 7101 | 6710 | 6379 | 6017 | 5655 | 5294 | 4932 | 4570 | 4209 | 3847 | 3485 | 3123 | 2761 | 2399 |
| 132 | 38 | | 8387 | 8025 | 7664 | 7303 | 6941 | 6580 | 6218 | 5856 | 5495 | 5133 | 4771 | 4409 | 4047 | 3685 | 3323 | 2961 | 2599 |
| 126 | 39 | | 0588 | 8927 | 7865 | 7504 | 7142 | 6781 | 6419 | 6057 | 5695 | 5333 | 4971 | 4610 | 4247 | 3885 | 3523 | 3161 | 2799 |
| 120 | 40 | 0 | 8790 | 8428 | 8067 | 7705 | 7343 | 6982 | 6620 | 6258 | 5896 | 5534 | 5179 | 4810 | 4448 | 4085 | 3723 | 3361 | 2998 |
| 114 | 41 | | 8991 | 8629 | 8268 | 7906 | 7544 | 7189 | 6891 | 6459 | 6097 | 5735 | 5372 | 5010 | 4648 | 4285 | 3923 | 3561 | 3198 |
| 108 | 42 | | 9192 | 8831 | 8469 | 8107 | 7745 | 7383 | 7021 | 6659 | 6997 | 5935 | 5573 | 5210 | 4848 | 4485 | 4193 | 3761 | 3398 |
| 102 | 43 | | 9394 | 9032 | 8670 | 8308 | 7946 | 7584 | 7222 | 6860 | 6498 | 6135 | 5773 | 5411 | 5048 | 4685 | 4323 | 3960 | 3598 |
| 96 | 44 | | 9595 | 9233 | 8871 | 8509 | 8147 | 7785 | 7423 | 7060 | 6698 | 6336 | 5973 | 5611 | 5248 | 4885 | 4523 | 4160 | 3797 |
| 90 | 45 | 0 | 9796 | 9434 | 9072 | 8710 | 8348 | 7985 | 7623 | 7961 | 6898 | 6536 | 6173 | 5811 | 5448 | 5085 | 4722 | 4360 | 3997 |
| 84 | 46 | | 9997 | 9635 | 9973 | 8911 | 8548 | 8186 | 7824 | 7461 | 7099 | 6736 | 6373 | 6011 | 5648 | 5985 | 4922 | 4559 | 4196 |
| 78 | 47 | 1 (0) | 0198 | 9836 | 9474 | 9111 | 8749 | 8386 | 8024 | 7661 | 7999 | 6936 | 6573 | 6211 | 5848 | 5485 | 5192 | 4759 | 4396 |
| 72 | 48 | | 0399 | 0037 | 9675 | 9312 | 8950 | 8587 | 8224 | 7862 | 7499 | 7136 | 6773 | 6410 | 6047 | 5684 | 5391 | 4958 | 4595 |
| 66 | 49 | | 0600 | 0238 | 9875 | 9513 | 9150 | 8787 | 8425 | 8062 | 7699 | 7236 | 6973 | 6610 | 6247 | 5884 | 5521 | 5158 | 4794 |
| 60 | 50 | 1 (0) | 0801 | 0438 | 0076 | 9713 | 9351 | 8988 | 8625 | 8262 | 7899 | 7536 | 7173 | 6810 | 6447 | 6084 | 5791 | 5357 | 4993 |
| 54 | 51 | | 1002 | 0639 | 0276 | 9914 | 9551 | 9188 | 8825 | 8462 | 8099 | 7736 | 7373 | 7010 | 6646 | 6283 | 5920 | 5556 | 5193 |
| 48 | 52 | | 1203 | 0840 | 0477 | 0114 | 9751 | 9388 | 9095 | 8662 | 8999 | 7936 | 7572 | 7209 | 6846 | 6489 | 6119 | 5755 | 5392 |
| 42 | 53 | | 1403 | 1040 | 0678 | 0315 | 9952 | 9588 | 9225 | 8869 | 8499 | 8136 | 7772 | 7409 | 7045 | 6682 | 6318 | 5954 | 5591 |
| 36 | 54 | | 1604 | 1241 | 0878 | 0515 | 0152 | 9789 | 9495 | 9062 | 8699 | 8335 | 7979 | 7608 | 7245 | 6881 | 6517 | 6153 | 5790 |
| 30 | 55 | 1 (0) | 1804 | 1441 | 1078 | 0715 | 0352 | 9989 | 9625 | 9262 | 8898 | 8535 | 8171 | 7808 | 7444 | 7080 | 6716 | 6352 | 5989 |
| 24 | 56 | | 2005 | 1642 | 1278 | 0915 | 0552 | 0189 | 9825 | 9462 | 9098 | 8735 | 8371 | 8007 | 7643 | 7979 | 6915 | 6551 | 6187 |
| 18 | 57 | | 2905 | 1842 | 1479 | 1115 | 0752 | 0389 | 0095 | 9661 | 9298 | 8934 | 8570 | 8906 | 7849 | 7478 | 7114 | 6750 | 6386 |
| 12 | 58 | | 2406 | 2012 | 1679 | 1316 | 0952 | 0588 | 0225 | 9861 | 9497 | 9133 | 8770 | 8406 | 8042 | 7678 | 7313 | 6949 | 6585 |
| 6 | 59 | | 2606 | 2243 | 1879 | 1516 | 1152 | 0788 | 0425 | 0061 | 9697 | 9333 | 8969 | 8605 | 8241 | 7877 | 7512 | 7148 | 6784 |

**Num. IV para hallar la distancia corregida.**

| Partes para segundos. | 135° | Núm. |
|---|---|---|
| 0 | 0′ | 0 7107 |
| 3 | 1 | 7312 |
| 7 | 2 | 7518 |
| 10 | 3 | 7723 |
| 14 | 4 | 7929 |
| 17 | 5 | 0 8134 |
| 20 | 6 | 8340 |
| 24 | 7 | 8545 |
| 27 | 8 | 8750 |
| 31 | 9 | 8956 |
| 34 | 10 | 0 9161 |
| 37 | 11 | 9366 |
| 41 | 12 | 9571 |
| 44 | 13 | 9776 |
| 48 | 14 | 9981 |
| 51 | 15 | 1 0185 |
| 54 | 16 | 0390 |
| 58 | 17 | 0595 |
| 61 | 18 | 0799 |
| 65 | 19 | 1004 |
| 68 | 90 | 1 1209 |
| 71 | 21 | 1413 |
| 75 | 22 | 1617 |
| 78 | 23 | 1822 |
| 82 | 24 | 2026 |
| 85 | 25 | 1 2230 |
| 88 | 26 | 2434 |
| 92 | 97 | 2639 |
| 95 | 28 | 2843 |
| 99 | 29 | 3017 |
| 109 | 30 | 1 3250 |
| 105 | 31 | 3454 |
| 109 | 32 | 3658 |
| 112 | 33 | 3862 |
| 116 | 34 | 4066 |
| 119 | 35 | 1 4269 |
| 122 | 36 | 4473 |
| 126 | 37 | 4676 |
| 129 | 38 | 4880 |
| 133 | 39 | 5083 |
| 136 | 40 | 1 5286 |
| 139 | 41 | 5490 |
| 143 | 42 | 5693 |
| 116 | 43 | 5896 |
| 150 | 44 | 6099 |
| 153 | 45 | 1 6302 |
| 156 | 46 | 6505 |
| 160 | 47 | 6708 |
| 163 | 48 | 6911 |
| 167 | 49 | 7113 |
| 170 | 50 | 1 7316 |
| 173 | 51 | 7519 |
| 177 | 52 | 7721 |
| 180 | 53 | 7924 |
| 184 | 54 | 8196 |
| 187 | 55 | 1 8328 |
| 190 | 56 | 8531 |
| 194 | 57 | 8733 |
| 197 | 58 | 8935 |
| 201 | 59 | 9138 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

| Partes para segundos del Arg. Auxiliar. | 136° | | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 366 | 0′ | 1 | 8977 | 8615 | 8252 | 7890 | 7527 | 7164 | 6801 | 6439 | 6076 | 5713 | 5349 | 4986 | 4623 | 4260 | 3897 | 3533 | 3170 |
| 360 | 1 | | 9179 | 8817 | 8454 | 8091 | 7729 | 7366 | 7003 | 6640 | 6277 | 5914 | 5550 | 5187 | 4824 | 4461 | 4097 | 3734 | 3370 |
| 354 | 2 | | 9381 | 9018 | 8656 | 8293 | 7930 | 7567 | 7204 | 6841 | 6478 | 6115 | 5751 | 5388 | 5025 | 4661 | 4298 | 3934 | 3570 |
| 348 | 3 | | 9583 | 9220 | 8857 | 8494 | 8131 | 7768 | 7405 | 7042 | 6679 | 6315 | 5952 | 5589 | 5225 | 4862 | 4498 | 4134 | 3771 |
| 342 | 4 | | 9785 | 9422 | 9059 | 8696 | 8333 | 7970 | 7606 | 7243 | 6880 | 6516 | 6153 | 5789 | 5426 | 5062 | 4698 | 4334 | 3971 |
| 336 | 5 | 1 | 9987 | 9623 | 9260 | 8897 | 8534 | 8171 | 7807 | 7444 | 7081 | 6717 | 6353 | 5990 | 5626 | 5262 | 4899 | 4535 | 4171 |
| 329 | 6 | 2 (1) | 0188 | 9825 | 9462 | 9098 | 8735 | 8372 | 8008 | 7645 | 7281 | 6918 | 6554 | 6190 | 5827 | 5463 | 5099 | 4735 | 4371 |
| 323 | 7 | | 0390 | 0026 | 9663 | 9300 | 8936 | 8573 | 8209 | 7846 | 7482 | 7118 | 6755 | 6391 | 6027 | 5663 | 5299 | 4935 | 4571 |
| 317 | 8 | | 0591 | 0228 | 9864 | 9501 | 9137 | 8774 | 8410 | 8047 | 7683 | 7319 | 6955 | 6591 | 6227 | 5863 | 5499 | 5135 | 4771 |
| 311 | 9 | | 0793 | 0429 | 0066 | 9702 | 9339 | 8975 | 8611 | 8247 | 7883 | 7520 | 7156 | 6792 | 6427 | 6063 | 5699 | 5335 | 4970 |
| 305 | 10 | 2 (1) | 0994 | 0630 | 0267 | 9903 | 9540 | 9176 | 8812 | 8448 | 8084 | 7720 | 7356 | 6992 | 6628 | 6263 | 5899 | 5535 | 5170 |
| 299 | 11 | | 1196 | 0832 | 0468 | 0104 | 9740 | 9377 | 9013 | 8649 | 8281 | 7920 | 7556 | 7192 | 6828 | 6463 | 6099 | 5734 | 5370 |
| 293 | 12 | | 1397 | 1033 | 0669 | 0305 | 9941 | 9577 | 9213 | 8849 | 8485 | 8121 | 7757 | 7392 | 7028 | 6663 | 6299 | 5934 | 5569 |
| 287 | 13 | | 1598 | 1234 | 0870 | 0506 | 0142 | 9778 | 9414 | 9050 | 8685 | 8321 | 7957 | 7592 | 7228 | 6863 | 6499 | 6134 | 5769 |
| 281 | 14 | | 1799 | 1435 | 1071 | 0707 | 0343 | 9979 | 9614 | 9250 | 8886 | 8521 | 8157 | 7792 | 7428 | 7063 | 6698 | 6333 | 5969 |
| 275 | 15 | 2 (1) | 2000 | 1636 | 1272 | 0908 | 0543 | 0179 | 9815 | 9450 | 9086 | 8721 | 8357 | 7992 | 7627 | 7263 | 6898 | 6533 | 6168 |
| 268 | 16 | | 2201 | 1837 | 1473 | 1108 | 0744 | 0380 | 0015 | 9651 | 9286 | 8922 | 8557 | 8192 | 7827 | 7462 | 7098 | 6732 | 6367 |
| 262 | 17 | | 2402 | 2038 | 1673 | 1309 | 0945 | 0580 | 0216 | 9851 | 9486 | 9122 | 8757 | 8392 | 8027 | 7662 | 7297 | 6932 | 6567 |
| 256 | 18 | | 2603 | 2239 | 1874 | 1510 | 1145 | 0781 | 0416 | 0051 | 9686 | 9322 | 8957 | 8592 | 8227 | 7862 | 7496 | 7131 | 6766 |
| 250 | 19 | | 2804 | 2439 | 2075 | 1710 | 1346 | 0981 | 0616 | 0251 | 9886 | 9522 | 9156 | 8791 | 8426 | 8061 | 7696 | 7331 | 6965 |
| 244 | 20 | 2 (1) | 3005 | 2640 | 2275 | 1911 | 1546 | 1181 | 0816 | 0451 | 0086 | 9721 | 9356 | 8991 | 8626 | 8261 | 7895 | 7530 | 7164 |
| 238 | 21 | | 3205 | 2841 | 2476 | 2111 | 1746 | 1381 | 1016 | 0651 | 0286 | 9921 | 9556 | 9191 | 8825 | 8460 | 8095 | 7729 | 7364 |
| 232 | 22 | | 3406 | 3041 | 2676 | 2312 | 1947 | 1582 | 1216 | 0851 | 0486 | 0121 | 9756 | 9390 | 9025 | 8659 | 8294 | 7928 | 7563 |
| 226 | 23 | | 3607 | 3242 | 2877 | 2512 | 2147 | 1782 | 1416 | 1051 | 0686 | 0321 | 9955 | 9590 | 9224 | 8859 | 8493 | 8127 | 7762 |
| 220 | 24 | | 3807 | 3442 | 3077 | 2712 | 2347 | 1982 | 1616 | 1251 | 0886 | 0520 | 0155 | 9789 | 9424 | 9058 | 8692 | 8326 | 7960 |
| 214 | 25 | 2 (1) | 4008 | 3642 | 3277 | 2912 | 2547 | 2182 | 1816 | 1451 | 1085 | 0720 | 0354 | 9988 | 9623 | 9257 | 8891 | 8525 | 8159 |
| 207 | 26 | | 4208 | 3843 | 3478 | 3112 | 2747 | 2381 | 2016 | 1651 | 1285 | 0919 | 0554 | 0188 | 9822 | 9456 | 9090 | 8724 | 8358 |
| 201 | 27 | | 4408 | 4043 | 3678 | 3312 | 2947 | 2581 | 2216 | 1850 | 1485 | 1119 | 0753 | 0387 | 0021 | 9655 | 9289 | 8923 | 8557 |
| 195 | 28 | | 4609 | 4243 | 3878 | 3512 | 3147 | 2781 | 2415 | 2050 | 1684 | 1318 | 0952 | 0586 | 0220 | 9854 | 9488 | 9122 | 8756 |
| 189 | 29 | | 4809 | 4443 | 4078 | 3712 | 3347 | 2981 | 2615 | 2249 | 1883 | 1517 | 1151 | 0785 | 0419 | 0053 | 9687 | 9320 | 8954 |
| 183 | 30 | 2 (1) | 5009 | 4643 | 4278 | 3912 | 3546 | 3181 | 2815 | 2449 | 2083 | 1717 | 1351 | 0984 | 0618 | 0252 | 9886 | 9519 | 9153 |
| 177 | 31 | | 5209 | 4843 | 4478 | 4112 | 3746 | 3380 | 3014 | 2648 | 2282 | 1916 | 1550 | 1183 | 0817 | 0451 | 0084 | 9718 | 9351 |
| 171 | 32 | | 5409 | 5043 | 4677 | 4312 | 3946 | 3580 | 3214 | 2847 | 2481 | 2115 | 1749 | 1382 | 1016 | 0649 | 0283 | 9916 | 9550 |
| 165 | 33 | | 5609 | 5243 | 4877 | 4511 | 4145 | 3779 | 3413 | 3047 | 2680 | 2314 | 1948 | 1581 | 1215 | 0848 | 0481 | 0115 | 9748 |
| 159 | 34 | | 5809 | 5443 | 5077 | 4711 | 4345 | 3979 | 3612 | 3246 | 2880 | 2513 | 2147 | 1780 | 1413 | 1047 | 0680 | 0313 | 9946 |
| 153 | 35 | 2 | 6009 | 5643 | 5277 | 4910 | 4544 | 4178 | 3812 | 3445 | 3079 | 2712 | 2345 | 1979 | 1612 | 1245 | 0878 | 0511 | 0144 |
| 146 | 36 | | 6209 | 5842 | 5476 | 5110 | 4744 | 4377 | 4011 | 3644 | 3278 | 2911 | 2544 | 2177 | 1811 | 1444 | 1077 | 0710 | 0343 |
| 140 | 37 | | 6408 | 6042 | 5676 | 5309 | 4943 | 4576 | 4210 | 3843 | 3477 | 3110 | 2743 | 2376 | 2009 | 1642 | 1275 | 0908 | 0541 |
| 134 | 38 | | 6608 | 6242 | 5875 | 5509 | 5142 | 4776 | 4409 | 4042 | 3675 | 3309 | 2942 | 2575 | 2208 | 1840 | 1473 | 1106 | 0739 |
| 128 | 39 | | 6808 | 6441 | 6075 | 5708 | 5341 | 4975 | 4608 | 4241 | 3874 | 3507 | 3140 | 2773 | 2406 | 2039 | 1672 | 1304 | 0937 |
| 122 | 40 | 2 | 7007 | 6641 | 6274 | 5907 | 5541 | 5174 | 4807 | 4440 | 4073 | 3706 | 3339 | 2972 | 2604 | 2237 | 1870 | 1502 | 1135 |
| 116 | 41 | | 7207 | 6840 | 6473 | 6107 | 5740 | 5373 | 5006 | 4639 | 4272 | 3904 | 3537 | 3170 | 2803 | 2435 | 2068 | 1700 | 1333 |
| 110 | 42 | | 7406 | 7039 | 6673 | 6306 | 5939 | 5572 | 5205 | 4837 | 4470 | 4103 | 3736 | 3368 | 3001 | 2633 | 2266 | 1898 | 1530 |
| 104 | 43 | | 7606 | 7239 | 6872 | 6505 | 6138 | 5771 | 5403 | 5036 | 4669 | 4301 | 3934 | 3567 | 3199 | 2831 | 2464 | 2096 | 1728 |
| 98 | 44 | | 7805 | 7438 | 7071 | 6704 | 6337 | 5969 | 5602 | 5235 | 4867 | 4500 | 4132 | 3765 | 3397 | 3029 | 2662 | 2294 | 1926 |
| 92 | 45 | 2 | 8004 | 7637 | 7270 | 6903 | 6535 | 6168 | 5801 | 5433 | 5066 | 4698 | 4331 | 3963 | 3595 | 3227 | 2859 | 2492 | 2124 |
| 85 | 46 | | 8203 | 7836 | 7469 | 7102 | 6734 | 6367 | 5999 | 5632 | 5264 | 4896 | 4529 | 4161 | 3793 | 3425 | 3057 | 2689 | 2321 |
| 79 | 47 | | 8402 | 8035 | 7668 | 7300 | 6933 | 6565 | 6198 | 5830 | 5462 | 5095 | 4727 | 4359 | 3991 | 3623 | 3255 | 2887 | 2519 |
| 73 | 48 | | 8601 | 8234 | 7867 | 7499 | 7132 | 6764 | 6396 | 6028 | 5661 | 5293 | 4925 | 4557 | 4189 | 3820 | 3453 | 3084 | 2716 |
| 67 | 49 | | 8800 | 8433 | 8065 | 7698 | 7330 | 6962 | 6595 | 6227 | 5859 | 5491 | 5123 | 4755 | 4387 | 4018 | 3650 | 3282 | 2913 |
| 61 | 50 | 2 | 8999 | 8632 | 8264 | 7896 | 7529 | 7161 | 6793 | 6425 | 6057 | 5689 | 5321 | 4953 | 4584 | 4216 | 3848 | 3479 | 3111 |
| 55 | 51 | | 9198 | 8830 | 8463 | 8095 | 7727 | 7359 | 6991 | 6623 | 6255 | 5887 | 5519 | 5150 | 4782 | 4414 | 4045 | 3677 | 3308 |
| 49 | 52 | | 9397 | 9029 | 8661 | 8293 | 7925 | 7558 | 7189 | 6821 | 6453 | 6085 | 5716 | 5348 | 4980 | 4611 | 4243 | 3874 | 3505 |
| 43 | 53 | | 9596 | 9228 | 8860 | 8492 | 8124 | 7756 | 7388 | 7019 | 6651 | 6283 | 5914 | 5546 | 5177 | 4809 | 4440 | 4071 | 3702 |
| 37 | 54 | | 9794 | 9426 | 9058 | 8690 | 8322 | 7954 | 7586 | 7217 | 6849 | 6480 | 6112 | 5743 | 5375 | 5006 | 4637 | 4268 | 3899 |
| 31 | 55 | 2 | 9993 | 9625 | 9257 | 8889 | 8520 | 8152 | 7784 | 7415 | 7047 | 6678 | 6310 | 5941 | 5572 | 5203 | 4834 | 4465 | 4096 |
| 24 | 56 | 3 (2) | 0192 | 9823 | 9455 | 9087 | 8719 | 8350 | 7982 | 7613 | 7244 | 6876 | 6507 | 6138 | 5770 | 5400 | 5032 | 4663 | 4293 |
| 18 | 57 | | 0390 | 0022 | 9654 | 9285 | 8917 | 8548 | 8180 | 7811 | 7442 | 7073 | 6705 | 6336 | 5967 | 5597 | 5229 | 4860 | 4490 |
| 12 | 58 | | 0589 | 0220 | 9852 | 9483 | 9115 | 8746 | 8377 | 8009 | 7640 | 7271 | 6902 | 6533 | 6164 | 5795 | 5426 | 5057 | 4687 |
| 6 | 59 | | 0787 | 0418 | 0050 | 9681 | 9313 | 8944 | 8575 | 8206 | 7837 | 7468 | 7099 | 6730 | 6361 | 5992 | 5623 | 5253 | 4884 |

**Núm. II para la suma corregida de alturas.**

| Partes para segundos. | 136° | Núm. |
|---|---|---|
| 204 | 0′ | 9 2688 |
| 201 | 1 | 2482 |
| 197 | 2 | 2277 |
| 194 | 3 | 2071 |
| 190 | 4 | 1866 |
| 187 | 5 | 9 1660 |
| 184 | 6 | 1455 |
| 180 | 7 | 1250 |
| 177 | 8 | 1044 |
| 173 | 9 | 0839 |
| 170 | 10 | 9 0634 |
| 167 | 11 | 0429 |
| 163 | 12 | 0224 |
| 160 | 13 | 0019 |
| 156 | 14 | 8 9815 |
| 153 | 15 | 8 9610 |
| 150 | 16 | 9405 |
| 146 | 17 | 9201 |
| 143 | 18 | 8996 |
| 139 | 19 | 8792 |
| 136 | 20 | 8 8587 |
| 133 | 21 | 8383 |
| 129 | 22 | 8178 |
| 126 | 23 | 7974 |
| 122 | 24 | 7770 |
| 119 | 25 | 8 7566 |
| 116 | 26 | 7361 |
| 112 | 27 | 7157 |
| 109 | 28 | 6953 |
| 105 | 29 | 6750 |
| 102 | 30 | 8 6546 |
| 99 | 31 | 6342 |
| 95 | 32 | 6138 |
| 92 | 33 | 5934 |
| 88 | 34 | 5731 |
| 85 | 35 | 8 5527 |
| 82 | 36 | 5324 |
| 78 | 37 | 5120 |
| 75 | 38 | 4917 |
| 71 | 39 | 4714 |
| 68 | 40 | 8 4510 |
| 65 | 41 | 4307 |
| 61 | 42 | 4104 |
| 58 | 43 | 3901 |
| 54 | 44 | 3698 |
| 51 | 45 | 8 3495 |
| 48 | 46 | 3292 |
| 44 | 47 | 3089 |
| 41 | 48 | 2887 |
| 37 | 49 | 2684 |
| 34 | 50 | 8 2481 |
| 31 | 51 | 2279 |
| 27 | 52 | 2076 |
| 24 | 53 | 1874 |
| 20 | 54 | 1671 |
| 17 | 55 | 8 1469 |
| 14 | 56 | 1267 |
| 10 | 57 | 1064 |
| 7 | 58 | 0862 |
| 3 | 59 | 0660 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

**Num. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 136° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 136° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 367 | 0′ | 1 (0) 2806 | 2443 | 2079 | 1716 | 1352 | 0988 | 0624 | 0260 | 9896 | 9532 | 9168 | 8804 | 8140 | 8076 | 7711 | 7347 | 6982 | 0 | 0′ | 1 9340 |
| 361 | 1 | 3007 | 2643 | 2279 | 1915 | 1552 | 1188 | 0824 | 0460 | 0096 | 9732 | 9367 | 9003 | 8639 | 8274 | 7910 | 7545 | 7181 | 3 | 1 | 9542 |
| 355 | 2 | 3207 | 2843 | 2479 | 2115 | 1751 | 1387 | 1023 | 0659 | 0295 | 9931 | 9566 | 9202 | 8838 | 8473 | 8109 | 7744 | 7379 | 7 | 2 | 9744 |
| 349 | 3 | 3407 | 3043 | 2679 | 2315 | 1951 | 1587 | 1223 | 0859 | 0494 | 0130 | 9765 | 9401 | 9037 | 8672 | 8307 | 7943 | 7578 | 10 | 3 | 9946 |
| 343 | 4 | 3607 | 3243 | 2879 | 2515 | 2151 | 1786 | 1422 | 1058 | 0693 | 0329 | 9964 | 9600 | 9235 | 8871 | 8506 | 8141 | 7776 | 13 | 4 | 2 0148 |
| 336 | 5 | 1 (0) 3807 | 3443 | 3078 | 2714 | 2350 | 1986 | 1621 | 1257 | 0893 | 0528 | 0163 | 9799 | 9434 | 9069 | 8704 | 8340 | 7975 | 17 | 5 | 2 0349 |
| 330 | 6 | 4007 | 3649 | 3278 | 2914 | 2550 | 9185 | 1821 | 1456 | 1092 | 0727 | 0362 | 9998 | 9633 | 9268 | 8903 | 8538 | 8173 | 90 | 6 | 0551 |
| 324 | 7 | 4206 | 3842 | 3178 | 3114 | 2749 | 2385 | 2020 | 1635 | 1291 | 0926 | 0561 | 0196 | 9831 | 9466 | 9101 | 8736 | 8371 | 23 | 7 | 0753 |
| 318 | 8 | 4406 | 4042 | 3677 | 3313 | 2948 | 2584 | 2219 | 1854 | 1490 | 1125 | 0760 | 0395 | 0030 | 9665 | 9300 | 8934 | 8569 | 27 | 8 | 0954 |
| 312 | 9 | 4606 | 4242 | 3877 | 3512 | 3148 | 9783 | 2418 | 2053 | 1689 | 1321 | 0959 | 0594 | 0228 | 9863 | 9498 | 9133 | 8767 | 30 | 9 | 1156 |
| 306 | 10 | 1 (0) 4806 | 4441 | 4076 | 3712 | 3347 | 2982 | 2617 | 2252 | 1887 | 1522 | 1157 | 0792 | 0427 | 0062 | 9696 | 9331 | 8965 | 33 | 10 | 2 1357 |
| 300 | 11 | 5005 | 4641 | 4276 | 3911 | 3516 | 3181 | 2816 | 2451 | 2086 | 1791 | 1356 | 0991 | 0625 | 0260 | 9894 | 9599 | 9163 | 37 | 11 | 1559 |
| 294 | 12 | 5205 | 1840 | 4475 | 4110 | 3745 | 3380 | 3015 | 2650 | 9985 | 1920 | 1554 | 1189 | 0824 | 0458 | 0093 | 9727 | 9361 | 40 | 19 | 1760 |
| 288 | 13 | 5404 | 5039 | 4674 | 4309 | 3944 | 3579 | 3214 | 2849 | 2484 | 2118 | 1753 | 1387 | 1022 | 0656 | 0291 | 9925 | 9559 | 43 | 13 | 1962 |
| 281 | 14 | 5604 | 5239 | 4874 | 4509 | 4143 | 3778 | 3113 | 3048 | 2682 | 2317 | 1951 | 1586 | 1220 | 0854 | 0489 | 0123 | 9757 | 47 | 14 | 2163 |
| 275 | 15 | 1 (0) 5803 | 5438 | 5073 | 4708 | 4342 | 3977 | 3612 | 3246 | 2881 | 2515 | 2150 | 1784 | 1418 | 1052 | 0686 | 0321 | 9955 | 50 | 15 | 2 2364 |
| 269 | 16 | 1 6002 | 5637 | 5272 | 4907 | 4541 | 4176 | 3810 | 3445 | 3079 | 2714 | 2348 | 1982 | 1616 | 1950 | 0881 | 0518 | 0152 | 53 | 16 | 2565 |
| 263 | 17 | 6202 | 5836 | 5471 | 5106 | 4740 | 4375 | 4009 | 3643 | 3278 | 2912 | 2546 | 2180 | 1814 | 1448 | 1082 | 0716 | 0350 | 57 | 17 | 2766 |
| 257 | 18 | 6401 | 6035 | 5670 | 5304 | 4939 | 4573 | 4208 | 3842 | 3476 | 3110 | 2741 | 2378 | 2012 | 1646 | 1280 | 0914 | 0547 | 60 | 18 | 2967 |
| 251 | 19 | 6600 | 6234 | 5869 | 5503 | 5138 | 4772 | 4406 | 4040 | 3671 | 3308 | 2942 | 2576 | 2210 | 1844 | 1478 | 1111 | 0745 | 63 | 19 | 3168 |
| 245 | 20 | 1 6799 | 6433 | 6068 | 5702 | 5336 | 4970 | 4605 | 4239 | 3873 | 3506 | 3140 | 2774 | 2108 | 2042 | 1675 | 1309 | 0942 | 67 | 20 | 2 3369 |
| 239 | 21 | 6998 | 6632 | 6266 | 5901 | 5535 | 5169 | 4803 | 4437 | 4071 | 3705 | 3338 | 2972 | 2606 | 2239 | 1873 | 1506 | 1140 | 70 | 21 | 3570 |
| 232 | 29 | 7197 | 6831 | 6465 | 6099 | 5733 | 5367 | 5001 | 4635 | 4269 | 3903 | 3536 | 3170 | 2803 | 2137 | 2070 | 1704 | 1337 | 73 | 99 | 3771 |
| 226 | 23 | 7396 | 7030 | 6664 | 6298 | 5932 | 5566 | 5199 | 1833 | 4467 | 4101 | 3731 | 3368 | 3001 | 2634 | 2268 | 1901 | 1534 | 77 | 23 | 3971 |
| 220 | 24 | 7595 | 7229 | 6863 | 6496 | 6130 | 5764 | 5398 | 5031 | 1665 | 4298 | 3932 | 3365 | 3199 | 2832 | 2465 | 2098 | 1731 | 80 | 94 | 4172 |
| 214 | 25 | 1 7793 | 7427 | 7061 | 6695 | 6328 | 5962 | 5596 | 5229 | 4863 | 4496 | 4130 | 3763 | 3396 | 3029 | 2662 | 2296 | 1929 | 83 | 25 | 2 4372 |
| 208 | 26 | 7992 | 7626 | 7260 | 6893 | 6527 | 6160 | 5794 | 5427 | 3061 | 1694 | 4327 | 3961 | 3591 | 3227 | 2860 | 9493 | 2126 | 87 | 26 | 4573 |
| 202 | 27 | 8191 | 7824 | 7458 | 7092 | 6725 | 6359 | 5992 | 5625 | 5259 | 4892 | 4525 | 4158 | 3791 | 3424 | 3057 | 2690 | 2323 | 90 | 27 | 4773 |
| 196 | 28 | 8389 | 8023 | 7656 | 7290 | 6923 | 6557 | 6190 | 5823 | 5456 | 5089 | 4722 | 1355 | 3988 | 3621 | 3254 | 2887 | 2520 | 93 | 98 | 4974 |
| 190 | 29 | 8588 | 8291 | 7853 | 7488 | 7121 | 6755 | 6388 | 6021 | 5654 | 5287 | 4920 | 4553 | 4186 | 3819 | 3451 | 3084 | 2716 | 97 | 29 | 5174 |
| 184 | 30 | 1 8786 | 8420 | 8053 | 7686 | 7319 | 6952 | 6586 | 6219 | 5852 | 5484 | 5117 | 4750 | 4383 | 4016 | 3648 | 3281 | 2913 | 100 | 30 | 2 5374 |
| 177 | 31 | 8984 | 8618 | 8251 | 7884 | 7517 | 7150 | 6783 | 6416 | 6049 | 5682 | 5315 | 4947 | 4580 | 4213 | 3845 | 3478 | 3110 | 103 | 31 | 5575 |
| 171 | 39 | 9183 | 8816 | 8449 | 8082 | 7715 | 7348 | 6981 | 6614 | 6247 | 5879 | 5512 | 5145 | 4777 | 4410 | 4042 | 3674 | 3307 | 107 | 39 | 5775 |
| 165 | 33 | 9381 | 9014 | 8647 | 8280 | 7913 | 7546 | 7179 | 6811 | 6444 | 6077 | 5709 | 5342 | 4974 | 4607 | 4939 | 3871 | 3503 | 110 | 33 | 5975 |
| 159 | 34 | 9579 | 9212 | 8845 | 8478 | 8111 | 7744 | 7376 | 7009 | 6642 | 6274 | 5907 | 5539 | 5171 | 4803 | 4436 | 4068 | 3700 | 113 | 34 | 6175 |
| 153 | 35 | 1 9777 | 9410 | 9043 | 8676 | 8309 | 7941 | 7574 | 7206 | 6839 | 6471 | 6104 | 5736 | 5368 | 5000 | 4632 | 4264 | 3897 | 117 | 35 | 9 6375 |
| 147 | 36 | 9975 | 9608 | 9241 | 8874 | 8506 | 8139 | 7771 | 7404 | 7036 | 6668 | 6301 | 5933 | 5565 | 5197 | 4829 | 4461 | 4093 | 120 | 36 | 6575 |
| 141 | 37 | 2 (1) 0173 | 9806 | 9439 | 9071 | 8704 | 8336 | 7969 | 7601 | 7233 | 6866 | 6498 | 6130 | 5762 | 5394 | 5026 | 4658 | 4289 | 123 | 37 | 6775 |
| 135 | 38 | 0371 | 0004 | 9637 | 9269 | 8902 | 8534 | 8166 | 7798 | 7430 | 7063 | 6695 | 6327 | 5959 | 5590 | 5292 | 4854 | 4486 | 127 | 38 | 6974 |
| 129 | 39 | 0569 | 0202 | 9834 | 9467 | 9099 | 8731 | 8363 | 7996 | 7628 | 7260 | 6892 | 6523 | 6155 | 5787 | 5419 | 5050 | 4682 | 130 | 39 | 7174 |
| 122 | 40 | 2 (1) 0767 | 0400 | 0032 | 9664 | 9296 | 8929 | 8561 | 8193 | 7825 | 7456 | 7088 | 6720 | 6352 | 5984 | 5615 | 5247 | 4878 | 133 | 40 | 2 7374 |
| 116 | 41 | 0965 | 0597 | 0230 | 9862 | 9494 | 9126 | 8758 | 8390 | 8022 | 7653 | 7285 | 6917 | 6548 | 6180 | 5812 | 5443 | 5074 | 137 | 41 | 7573 |
| 110 | 42 | 1163 | 0795 | 0427 | 0059 | 9691 | 9323 | 8955 | 8587 | 8219 | 7850 | 7482 | 7113 | 6745 | 6376 | 6008 | 5639 | 5270 | 140 | 42 | 7773 |
| 104 | 43 | 1360 | 0992 | 0624 | 0256 | 9888 | 9520 | 9152 | 8781 | 8415 | 8047 | 7678 | 7310 | 6941 | 6573 | 6204 | 5835 | 5466 | 143 | 43 | 7972 |
| 98 | 44 | 1558 | 1190 | 0822 | 0454 | 0086 | 9717 | 9349 | 8981 | 8612 | 8244 | 7875 | 7506 | 7138 | 6769 | 6400 | 6031 | 5662 | 147 | 44 | 8171 |
| 99 | 45 | 2 (1) 1755 | 1387 | 1019 | 0651 | 0283 | 9914 | 9546 | 9177 | 8809 | 8440 | 8072 | 7703 | 7334 | 6965 | 6596 | 6227 | 5858 | 150 | 45 | 2 8371 |
| 86 | 46 | 1953 | 1585 | 1216 | 0848 | 0480 | 0111 | 9743 | 9374 | 9006 | 8637 | 8268 | 7899 | 7530 | 7161 | 6792 | 6423 | 6054 | 153 | 46 | 8570 |
| 80 | 47 | 9150 | 1782 | 1414 | 1045 | 0677 | 0308 | 9940 | 9571 | 9202 | 8833 | 8164 | 8096 | 7727 | 7358 | 6988 | 6619 | 6250 | 157 | 47 | 8769 |
| 73 | 48 | 2348 | 1979 | 1611 | 1242 | 0874 | 0505 | 0136 | 9768 | 9399 | 9030 | 8661 | 8292 | 7923 | 7554 | 7184 | 6815 | 6446 | 160 | 48 | 8969 |
| 67 | 49 | 2545 | 2176 | 1808 | 1439 | 1071 | 0702 | 0333 | 9964 | 9595 | 9226 | 8857 | 8488 | 8119 | 7750 | 7380 | 7011 | 6641 | 163 | 49 | 9168 |
| 61 | 50 | 2 (1) 2742 | 2374 | 2005 | 1636 | 1267 | 0899 | 0530 | 0161 | 9792 | 9493 | 9053 | 8684 | 8315 | 7945 | 7576 | 7207 | 6837 | 167 | 50 | 2 9367 |
| 55 | 51 | 2939 | 2571 | 2202 | 1833 | 1464 | 1095 | 0726 | 0357 | 9988 | 9619 | 9250 | 8880 | 8511 | 8141 | 7772 | 7402 | 7033 | 170 | 51 | 9566 |
| 49 | 52 | 3136 | 2768 | 9399 | 2030 | 1661 | 1992 | 0923 | 0534 | 0184 | 9815 | 9416 | 9076 | 8707 | 8337 | 7967 | 7598 | 7228 | 173 | 52 | 9763 |
| 43 | 53 | 3333 | 2965 | 2596 | 2227 | 1857 | 1488 | 1119 | 0750 | 0381 | 0011 | 9642 | 9272 | 8903 | 8533 | 8163 | 7793 | 7424 | 177 | 53 | 9963 |
| 37 | 54 | 3530 | 3161 | 2792 | 2423 | 2054 | 1685 | 1315 | 0946 | 0577 | 0207 | 9838 | 9468 | 9098 | 8729 | 8359 | 7989 | 7619 | 180 | 54 | 3 0162 |
| 31 | 55 | 2 (1) 3727 | 3358 | 2989 | 2620 | 2251 | 1881 | 1512 | 1142 | 0773 | 0403 | 0034 | 9664 | 9294 | 8924 | 8554 | 8184 | 7814 | 183 | 55 | 3 0361 |
| 25 | 56 | 3924 | 3555 | 3186 | 2816 | 2447 | 2078 | 1708 | 1338 | 0969 | 0599 | 0229 | 9860 | 9490 | 9120 | 8750 | 8380 | 8010 | 187 | 56 | 0560 |
| 18 | 57 | 4121 | 3752 | 3382 | 3013 | 2643 | 2274 | 1904 | 1535 | 1165 | 0795 | 0425 | 0055 | 9685 | 9315 | 8945 | 8575 | 8205 | 190 | 57 | 0758 |
| 12 | 58 | 4318 | 3948 | 3579 | 3209 | 2840 | 2470 | 2100 | 1731 | 1361 | 0991 | 0621 | 0251 | 9881 | 9511 | 9140 | 8770 | 8400 | 193 | 58 | 0957 |
| 6 | 59 | 4515 | 4145 | 3775 | 3406 | 3036 | 2666 | 2296 | 1927 | 1557 | 1187 | 0817 | 0446 | 0076 | 9706 | 9336 | 8965 | 8595 | 197 | 59 | 1155 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar. | 137° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 137° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 372 | 0' | 3 (2) 0985 | 0617 | 0248 | 9879 | 9511 | 9142 | 8773 | 8404 | 8035 | 7666 | 7297 | 6928 | 6558 | 6189 | 5820 | 5450 | 5081 | 200 | 0' | 8 0458 |
| 366 | 1 | 1183 | 0815 | 0446 | 0077 | 9708 | 9339 | 8971 | 8602 | 8232 | 7863 | 7494 | 7125 | 6755 | 6386 | 6016 | 5647 | 5277 | 197 | 1 | 0256 |
| 360 | 2 | 1382 | 1013 | 0644 | 0275 | 9906 | 9537 | 9168 | 8799 | 8430 | 8061 | 7691 | 7322 | 6952 | 6583 | 6213 | 5841 | 5474 | 193 | 2 | 0054 |
| 353 | 3 | 1580 | 1211 | 0842 | 0473 | 0104 | 9735 | 9366 | 8996 | 8627 | 8258 | 7888 | 7519 | 7149 | 6780 | 6410 | 6040 | 5670 | 190 | 3 | 7 9852 |
| 347 | 4 | 1778 | 1409 | 1040 | 0671 | 0302 | 9932 | 2563 | 9194 | 8824 | 8455 | 8085 | 7716 | 7346 | 6976 | 6607 | 6237 | 5867 | 187 | 4 | 9651 |
| 341 | 6 | 3 (2) 1976 | 1607 | 1238 | 0869 | 0499 | 0130 | 9761 | 9391 | 9022 | 8652 | 8282 | 7213 | 7543 | 7173 | 6803 | 6433 | 6063 | 183 | 5 | 7 9449 |
| 335 | 6 | 2174 | 1805 | 1435 | 1066 | 0697 | 0327 | 9958 | 9588 | 9219 | 8849 | 8479 | 8110 | 7740 | 7370 | 7000 | 6630 | 6260 | 180 | 6 | 9247 |
| 329 | 7 | 2372 | 2002 | 1633 | 1264 | 0894 | 0525 | 0155 | 9785 | 9416 | 9046 | 8676 | 8306 | 7936 | 7566 | 7196 | 6826 | 6456 | 177 | 7 | 9046 |
| 322 | 8 | 2570 | 2200 | 1831 | 1461 | 1092 | 0722 | 0352 | 9983 | 9613 | 9243 | 8873 | 8503 | 8133 | 7763 | 7393 | 7022 | 6652 | 173 | 8 | 8844 |
| 316 | 9 | 2767 | 2398 | 2028 | 1659 | 1289 | 0919 | 0549 | 0180 | 9810 | 9440 | 9070 | 8700 | 8330 | 7959 | 7589 | 7219 | 6848 | 170 | 9 | 8643 |
| 310 | 10 | 3 (2) 2965 | 2595 | 2226 | 1856 | 1486 | 1116 | 0747 | 0377 | 0007 | 9636 | 9266 | 8896 | 8526 | 8156 | 7785 | 7415 | 7044 | 167 | 10 | 7 8441 |
| 304 | 11 | 3163 | 2793 | 2423 | 2053 | 1684 | 1314 | 0941 | 0574 | 0203 | 9833 | 9463 | 9093 | 8729 | 8352 | 7982 | 7611 | 7240 | 163 | 11 | 8240 |
| 298 | 12 | 3360 | 2990 | 2621 | 2251 | 1881 | 1511 | 1141 | 0770 | 0400 | 0030 | 9660 | 9289 | 8919 | 8518 | 8178 | 7807 | 7436 | 160 | 12 | 8038 |
| 291 | 13 | 3558 | 3188 | 2818 | 2448 | 2078 | 1708 | 1338 | 0967 | 0597 | 0227 | 9856 | 9486 | 9115 | 8745 | 8374 | 8003 | 7632 | 157 | 13 | 7837 |
| 285 | 14 | 3755 | 3385 | 3015 | 2645 | 2275 | 1905 | 1534 | 1161 | 0794 | 0423 | 0053 | 9682 | 9311 | 8941 | 8570 | 8199 | 7828 | 153 | 14 | 7636 |
| 279 | 16 | 3 (2) 3953 | 3583 | 3212 | 2842 | 2472 | 2102 | 1731 | 1361 | 0990 | 0620 | 0249 | 9878 | 9508 | 9137 | 8766 | 8395 | 8024 | 150 | 15 | 7 7435 |
| 273 | 16 | 4150 | 3780 | 3410 | 3039 | 2669 | 2298 | 1928 | 1557 | 1187 | 0816 | 0445 | 0075 | 9704 | 9333 | 8962 | 8591 | 8220 | 147 | 16 | 7234 |
| 267 | 17 | 4347 | 3977 | 3607 | 3236 | 2866 | 2495 | 2125 | 1754 | 1383 | 1012 | 0642 | 0271 | 9900 | 9529 | 9158 | 8787 | 8415 | 143 | 17 | 7033 |
| 260 | 18 | 4544 | 4174 | 3804 | 3433 | 3063 | 2692 | 2321 | 1950 | 1580 | 1209 | 0838 | 0467 | 0096 | 9725 | 9354 | 8982 | 8611 | 140 | 18 | 6832 |
| 254 | 19 | 4741 | 4371 | 4000 | 3630 | 3259 | 2889 | 2518 | 2147 | 1776 | 1405 | 1034 | 0663 | 0292 | 9921 | 9549 | 9178 | 8807 | 137 | 19 | 6631 |
| 248 | 20 | 3 (2) 4939 | 4568 | 4197 | 3827 | 3456 | 3085 | 2714 | 2343 | 1972 | 1601 | 1230 | 0859 | 0488 | 0116 | 9745 | 9374 | 9002 | 133 | 20 | 7 6430 |
| 242 | 21 | 6136 | 4765 | 4394 | 4023 | 3653 | 3282 | 2911 | 2510 | 2169 | 1797 | 1426 | 1055 | 0683 | 0312 | 9941 | 9569 | 9197 | 130 | 21 | 6229 |
| 236 | 22 | 6333 | 4962 | 4591 | 4220 | 3849 | 3478 | 3107 | 2736 | 2365 | 1993 | 1622 | 1251 | 0879 | 0508 | 0136 | 9765 | 9393 | 127 | 22 | 6029 |
| 229 | 23 | 5529 | 6159 | 4788 | 4417 | 4046 | 3674 | 3303 | 2932 | 2561 | 2189 | 1818 | 1447 | 1075 | 0703 | 0332 | 9960 | 9588 | 123 | 23 | 6828 |
| 223 | 24 | 6726 | 5355 | 4984 | 4613 | 4242 | 3871 | 3499 | 3128 | 2757 | 2385 | 2014 | 1642 | 1271 | 0899 | 0527 | 0155 | 9783 | 120 | 24 | 5628 |
| 217 | 25 | 3 (2) 6923 | 5552 | 5101 | 4810 | 4438 | 4067 | 3696 | 3324 | 2953 | 2581 | 2210 | 1830 | 1466 | 1094 | 0722 | 0351 | 9979 | 117 | 25 | 7 5427 |
| 211 | 26 | 3 6120 | 6749 | 5377 | 5006 | 4635 | 4263 | 3892 | 3520 | 3149 | 2777 | 2405 | 2034 | 1662 | 1290 | 0918 | 0546 | 0174 | 113 | 26 | 6227 |
| 205 | 27 | 6316 | 5946 | 5574 | 5202 | 4831 | 4459 | 4088 | 3716 | 3345 | 2973 | 2601 | 2229 | 1857 | 1485 | 1113 | 0741 | 0369 | 110 | 27 | 5026 |
| 198 | 28 | 6513 | 6142 | 5770 | 5399 | 5027 | 4655 | 4284 | 3912 | 3540 | 3168 | 2796 | 2425 | 2053 | 1680 | 1308 | 0936 | 0564 | 107 | 28 | 4826 |
| 192 | 29 | 6709 | 6338 | 5966 | 5595 | 5223 | 4852 | 4480 | 4108 | 3736 | 3364 | 2992 | 2620 | 2248 | 1876 | 1503 | 1131 | 0759 | 103 | 29 | 4626 |
| 106 | 30 | 3 6906 | 6534 | 6163 | 5791 | 5419 | 5048 | 4676 | 4304 | 3932 | 3560 | 3188 | 2815 | 2413 | 2071 | 1698 | 1326 | 0954 | 100 | 30 | 7 4425 |
| 180 | 31 | 7102 | 6731 | 6359 | 5987 | 5615 | 5243 | 4871 | 4499 | 4127 | 3755 | 3383 | 3011 | 2638 | 2266 | 1893 | 1521 | 1148 | 97 | 31 | 4225 |
| 174 | 32 | 7299 | 6927 | 6555 | 6183 | 5811 | 5439 | 5067 | 4695 | 4323 | 3951 | 3578 | 3206 | 2833 | 2461 | 2088 | 1716 | 1343 | 93 | 32 | 4025 |
| 167 | 33 | 7495 | 7123 | 6761 | 6372 | 6007 | 5635 | 5263 | 4891 | 4510 | 4146 | 3773 | 3401 | 3028 | 2656 | 2283 | 1910 | 1538 | 90 | 33 | 3825 |
| 161 | 34 | 7691 | 7319 | 6947 | 6575 | 6203 | 5831 | 5458 | 5086 | 4714 | 4341 | 3969 | 3596 | 3223 | 2851 | 2478 | 2105 | 1732 | 87 | 34 | 3625 |
| 155 | 36 | 3 7887 | 7515 | 7143 | 6771 | 6399 | 6026 | 5654 | 5282 | 4909 | 4537 | 4164 | 3791 | 3418 | 3046 | 2673 | 2300 | 1927 | 83 | 35 | 7 3425 |
| 149 | 36 | 8083 | 7711 | 7339 | 6967 | 6594 | 6222 | 5849 | 5477 | 5104 | 4732 | 4359 | 3986 | 3613 | 3240 | 2868 | 2495 | 2121 | 80 | 36 | 3225 |
| 143 | 37 | 8272 | 7907 | 7535 | 7162 | 6790 | 6417 | 6045 | 5672 | 5300 | 4927 | 4554 | 4181 | 3808 | 3435 | 3062 | 2689 | 2316 | 77 | 37 | 3026 |
| 136 | 38 | 8475 | 8103 | 7731 | 7358 | 6985 | 6613 | 6240 | 5868 | 5495 | 5122 | 4749 | 4376 | 4003 | 3630 | 3257 | 2883 | 2510 | 73 | 38 | 2826 |
| 130 | 39 | 8671 | 8299 | 7926 | 7554 | 7181 | 6808 | 6436 | 6063 | 5690 | 5317 | 4944 | 4571 | 1198 | 3825 | 3451 | 3078 | 2704 | 70 | 39 | 2626 |
| 124 | 40 | 3 8867 | 8494 | 8122 | 7749 | 7376 | 7004 | 6631 | 6258 | 5885 | 5512 | 5139 | 4766 | 4392 | 4019 | 3646 | 3272 | 2899 | 67 | 40 | 7 2427 |
| 118 | 41 | 2063 | 8690 | 8317 | 7945 | 7672 | 7199 | 6826 | 6453 | 6080 | 5707 | 5334 | 4960 | 4587 | 4214 | 3840 | 3467 | 3093 | 63 | 41 | 2227 |
| 112 | 42 | 2258 | 8886 | 8513 | 8140 | 7767 | 7394 | 7021 | 6648 | 6275 | 5902 | 5528 | 5155 | 4781 | 4408 | 4034 | 3661 | 3287 | 60 | 42 | 2028 |
| 105 | 43 | 9454 | 9081 | 8708 | 8335 | 7962 | 7589 | 7216 | 6843 | 6470 | 6096 | 5723 | 5349 | 4976 | 4602 | 4229 | 3855 | 3481 | 67 | 43 | 1829 |
| 99 | 44 | 2650 | 9277 | 8904 | 8531 | 8158 | 7784 | 7411 | 7038 | 6664 | 6291 | 5917 | 5544 | 5170 | 1797 | 4423 | 4049 | 3675 | 53 | 41 | 1629 |
| 23 | 45 | 3 9845 | 9472 | 9099 | 8726 | 8353 | 7979 | 7606 | 7233 | 6859 | 6486 | 6112 | 5738 | 5365 | 4991 | 4617 | 4243 | 3869 | 50 | 45 | 7 1430 |
| 87 | 46 | 4 (3) 0041 | 9668 | 9294 | 8921 | 8548 | 8174 | 7801 | 7427 | 7054 | 6680 | 6306 | 5233 | 5559 | 5185 | 4811 | 4437 | 4063 | 47 | 46 | 1231 |
| 81 | 47 | 0236 | 9863 | 9490 | 9116 | 8743 | 8369 | 7996 | 7622 | 7248 | 6875 | 6501 | 6127 | 5753 | 5379 | 5005 | 4631 | 4257 | 43 | 47 | 1031 |
| 74 | 48 | 0431 | 0058 | 9685 | 9311 | 8938 | 8564 | 8190 | 7817 | 7443 | 7069 | 6695 | 6321 | 5947 | 5573 | 5199 | 4825 | 4451 | 40 | 48 | 0832 |
| 68 | 49 | 0627 | 0253 | 9880 | 9506 | 9133 | 8759 | 8385 | 8011 | 7637 | 7264 | 6889 | 6515 | 6141 | 6767 | 5393 | 5019 | 4614 | 37 | 49 | 0633 |
| 62 | 50 | 4 (3) 0822 | 0448 | 0075 | 9701 | 9327 | 8954 | 8580 | 8206 | 7832 | 7458 | 7084 | 6710 | 6335 | 5961 | 5587 | 5212 | 4838 | 33 | 50 | 7 0434 |
| 66 | 51 | 1017 | 0643 | 0270 | 9896 | 9622 | 9148 | 8774 | 8400 | 8026 | 7652 | 7278 | 6904 | 6529 | 6156 | 5780 | 5406 | 5031 | 30 | 51 | 9235 |
| 60 | 62 | 1212 | 0038 | 0465 | 0091 | 9717 | 9343 | 8969 | 8595 | 8220 | 7846 | 7472 | 7098 | 6723 | 6349 | 5974 | 5600 | 5225 | 27 | 52 | 0037 |
| 43 | 53 | 1407 | 1033 | 0659 | 0285 | 9911 | 9537 | 9163 | 8789 | 8415 | 8040 | 7666 | 7292 | 6917 | 6542 | 6168 | 5793 | 5118 | 23 | 53 | 6 9838 |
| 37 | 54 | 1602 | 1228 | 0854 | 0480 | 0106 | 9732 | 9358 | 8983 | 8609 | 8234 | 7860 | 7485 | 7111 | 6736 | 6361 | 5987 | 5612 | 20 | 54 | 9639 |
| 31 | 56 | 4 (3) 1797 | 1423 | 1049 | 0675 | 0300 | 9926 | 9552 | 9177 | 8803 | 8428 | 8054 | 7679 | 7304 | 6930 | 6555 | 6180 | 5805 | 17 | 55 | 6 9440 |
| 25 | 66 | 1992 | 1618 | 1243 | 0869 | 0495 | 0121 | 9746 | 9372 | 8997 | 8622 | 8248 | 7873 | 7498 | 7123 | 6748 | 6373 | 5998 | 13 | 66 | 9242 |
| 19 | 57 | 2186 | 1812 | 1438 | 1064 | 0689 | 8315 | 9940 | 9566 | 9191 | 8816 | 8441 | 8067 | 7692 | 7317 | 6942 | 6567 | 6191 | 10 | 67 | 9043 |
| 12 | 58 | 2381 | 2007 | 1633 | 1258 | 0884 | 0509 | 0134 | 9760 | 9385 | 9010 | 8635 | 8260 | 7885 | 7510 | 7135 | 6760 | 6385 | 7 | 58 | 8815 |
| 6 | 69 | 2576 | 2201 | 1827 | 1452 | 1078 | 0703 | 0328 | 9954 | 9579 | 9204 | 8829 | 8454 | 8079 | 7704 | 7328 | 6953 | 6578 | 3 | 59 | 8646 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 137° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | Partes para segundos. | 137° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | | | |
| 373 | 0′ | 2 (1) | 4711 | 4342 | 3972 | 3602 | 3232 | 2862 | 2492 | 2122 | 1752 | 1382 | 1012 | 0642 | 0272 | 9901 | 9531 | 9160 | 8790 | 0 | 0′ | 3 1354 |
| 367 | 1 | | 4908 | 4538 | 4168 | 3798 | 3428 | 3058 | 2688 | 2318 | 1948 | 1578 | 1208 | 0837 | 0467 | 0096 | 9726 | 9355 | 8985 | 3 | 1 | 1552 |
| 361 | 2 | | 5104 | 4734 | 4364 | 3995 | 3624 | 3254 | 2884 | 2514 | 2144 | 1774 | 1403 | 1033 | 0662 | 0292 | 9921 | 9550 | 9180 | 7 | 2 | 1750 |
| 355 | 3 | | 5301 | 4931 | 4561 | 4191 | 3821 | 3450 | 3080 | 2710 | 2340 | 1969 | 1599 | 1228 | 0858 | 0487 | 0116 | 9745 | 9375 | 10 | 3 | 1949 |
| 349 | 4 | | 5497 | 5127 | 4757 | 4387 | 4017 | 3646 | 3276 | 2906 | 2535 | 2165 | 1794 | 1423 | 1053 | 0682 | 0311 | 9940 | 9569 | 13 | 4 | 2147 |
| 342 | 5 | 2 (1) | 5693 | 5323 | 4953 | 4583 | 4212 | 3842 | 3472 | 3101 | 2731 | 2360 | 1989 | 1619 | 1248 | 0877 | 0506 | 0135 | 9764 | 16 | 5 | 3 2345 |
| 336 | 6 | | 5889 | 5519 | 5149 | 4779 | 4408 | 4038 | 3667 | 3297 | 2926 | 2555 | 2185 | 1814 | 1443 | 1072 | 0701 | 0330 | 9959 | 20 | 6 | 2543 |
| 330 | 7 | 2 | 6086 | 5715 | 5345 | 4975 | 4604 | 4234 | 3863 | 3492 | 3121 | 2751 | 2380 | 2009 | 1638 | 1267 | 0896 | 0524 | 0153 | 23 | 7 | 2741 |
| 324 | 8 | | 6282 | 5911 | 5541 | 5170 | 4800 | 4429 | 4058 | 3688 | 3317 | 2946 | 2575 | 2204 | 1833 | 1462 | 1090 | 0719 | 0348 | 26 | 8 | 2939 |
| 317 | 9 | | 6478 | 6107 | 5737 | 5366 | 4995 | 4625 | 4254 | 3883 | 3512 | 3141 | 2770 | 2399 | 2028 | 1656 | 1285 | 0914 | 0542 | 29 | 9 | 3137 |
| 311 | 10 | 2 | 6674 | 6303 | 5933 | 5562 | 5191 | 4820 | 4449 | 4078 | 3707 | 3336 | 2965 | 2594 | 2222 | 1851 | 1480 | 1108 | 0737 | 33 | 10 | 3 3334 |
| 305 | 11 | | 6870 | 6499 | 6128 | 5757 | 5387 | 5016 | 4645 | 4274 | 3902 | 4531 | 3160 | 2789 | 2417 | 2046 | 1674 | 1303 | 0931 | 36 | 11 | 3532 |
| 299 | 12 | | 7066 | 6695 | 6324 | 5953 | 5582 | 5211 | 4840 | 4469 | 4097 | 3726 | 3355 | 2983 | 2612 | 2240 | 1869 | 1497 | 1125 | 39 | 12 | 3730 |
| 293 | 13 | | 7261 | 6891 | 6520 | 6149 | 5777 | 5406 | 5035 | 4664 | 4292 | 3921 | 3550 | 3178 | 2806 | 2435 | 2063 | 1691 | 1319 | 43 | 13 | 3927 |
| 286 | 14 | | 7457 | 7086 | 6715 | 6344 | 5973 | 5602 | 5230 | 4859 | 4487 | 4116 | 3744 | 3373 | 3001 | 2629 | 2257 | 1886 | 1514 | 46 | 14 | 4125 |
| 280 | 15 | 2 | 7653 | 7282 | 6911 | 6539 | 6168 | 5797 | 5425 | 5054 | 4682 | 4311 | 3939 | 3567 | 3195 | 2824 | 2452 | 2080 | 1708 | 49 | 15 | 3 4323 |
| 274 | 16 | | 7849 | 7477 | 7106 | 6735 | 6363 | 5992 | 5620 | 5249 | 4877 | 4505 | 4134 | 3762 | 3390 | 3018 | 2646 | 2274 | 1902 | 52 | 16 | 4520 |
| 268 | 17 | | 8044 | 7673 | 7301 | 6930 | 6558 | 6187 | 5815 | 5444 | 5072 | 4700 | 4328 | 3956 | 3584 | 3212 | 2840 | 2468 | 2096 | 56 | 17 | 4717 |
| 261 | 18 | | 8240 | 7868 | 7497 | 7125 | 6754 | 6382 | 6010 | 5638 | 5267 | 4895 | 4523 | 4151 | 3779 | 3406 | 3034 | 2662 | 2290 | 59 | 18 | 4915 |
| 265 | 19 | | 8435 | 8064 | 7692 | 7320 | 6949 | 6577 | 6205 | 5833 | 5461 | 5089 | 4717 | 4345 | 3973 | 3600 | 3228 | 2856 | 2483 | 62 | 19 | 5112 |
| 249 | 20 | 2 | 8630 | 8259 | 7887 | 7515 | 7144 | 6772 | 6400 | 6028 | 5656 | 5284 | 4912 | 4539 | 4167 | 3795 | 3422 | 3050 | 2677 | 65 | 20 | 3 5309 |
| 243 | 21 | | 8826 | 8454 | 8082 | 7710 | 7339 | 6967 | 6595 | 6223 | 5850 | 5478 | 5106 | 4734 | 4361 | 3989 | 3616 | 3244 | 2871 | 69 | 21 | 5506 |
| 237 | 22 | | 9021 | 8649 | 8277 | 7905 | 7533 | 7161 | 6789 | 6417 | 6045 | 5672 | 5300 | 4928 | 4555 | 4183 | 3810 | 3437 | 3065 | 72 | 22 | 5703 |
| 230 | 23 | | 9216 | 8844 | 8472 | 8100 | 7728 | 7356 | 6984 | 6612 | 6239 | 5867 | 5494 | 5122 | 4749 | 4377 | 4004 | 3631 | 3258 | 75 | 23 | 5900 |
| 224 | 24 | | 2411 | 9039 | 8667 | 8295 | 7923 | 7551 | 7178 | 6806 | 6434 | 6061 | 5689 | 5316 | 4943 | 4570 | 4198 | 3825 | 3452 | 79 | 24 | 6097 |
| 218 | 25 | 2 | 9606 | 9234 | 8862 | 8490 | 8118 | 7745 | 7373 | 7000 | 6628 | 6255 | 5883 | 5510 | 5137 | 4764 | 4391 | 4018 | 3645 | 82 | 25 | 3 6294 |
| 212 | 26 | | 9801 | 9429 | 2057 | 8685 | 8312 | 7940 | 7567 | 7195 | 6822 | 6449 | 6077 | 5704 | 5331 | 4958 | 4585 | 4212 | 3839 | 85 | 26 | 6491 |
| 205 | 27 | | 9996 | 9624 | 9252 | 8879 | 8507 | 8134 | 7762 | 7389 | 7016 | 6643 | 6271 | 5898 | 5525 | 5152 | 4778 | 4405 | 4032 | 88 | 27 | 6687 |
| 199 | 28 | 3 (2) | 0191 | 9819 | 9446 | 9074 | 8701 | 8329 | 7956 | 7583 | 7210 | 6837 | 6464 | 6091 | 5718 | 5345 | 4972 | 4599 | 4225 | 92 | 28 | 6884 |
| 193 | 29 | | 0386 | 0014 | 9641 | 9268 | 8896 | 8523 | 8150 | 7777 | 7404 | 7031 | 6658 | 6285 | 5912 | 5539 | 5165 | 4792 | 4419 | 95 | 29 | 7081 |
| 187 | 30 | 3 (2) | 0581 | 0208 | 9836 | 9463 | 9090 | 8717 | 8344 | 7971 | 7598 | 7225 | 6852 | 6479 | 6105 | 5732 | 5359 | 4985 | 4612 | 98 | 30 | 3 7277 |
| 181 | 31 | | 0776 | 0403 | 0030 | 9657 | 9284 | 8911 | 8538 | 8165 | 7792 | 7419 | 7046 | 6672 | 6299 | 5926 | 5552 | 5178 | 4805 | 102 | 31 | 7474 |
| 174 | 32 | | 0970 | 0597 | 0225 | 9852 | 9479 | 9106 | 8732 | 8359 | 7986 | 7613 | 7239 | 6866 | 6492 | 6119 | 5745 | 5372 | 4998 | 105 | 32 | 7670 |
| 168 | 33 | | 1165 | 0792 | 0419 | 0046 | 9673 | 9300 | 8926 | 8553 | 8180 | 7806 | 7433 | 7059 | 6686 | 6312 | 5939 | 5565 | 5191 | 108 | 33 | 7867 |
| 162 | 34 | | 1359 | 0986 | 0613 | 0240 | 9867 | 9494 | 9120 | 8747 | 8374 | 8000 | 7627 | 7253 | 6879 | 6505 | 6132 | 5758 | 5384 | 111 | 34 | 8063 |
| 156 | 35 | 3 (2) | 1554 | 1181 | 0808 | 0434 | 0061 | 9688 | 9314 | 8941 | 8567 | 8194 | 7820 | 7446 | 7072 | 6699 | 6325 | 5951 | 5577 | 115 | 35 | 3 8269 |
| 149 | 36 | | 1748 | 1375 | 1002 | 0628 | 0255 | 9882 | 9508 | 9135 | 8761 | 8387 | 8013 | 7640 | 7266 | 6892 | 6518 | 6144 | 5769 | 118 | 36 | 8455 |
| 143 | 37 | | 1943 | 1569 | 1196 | 0822 | 0449 | 0075 | 9702 | 9328 | 8954 | 8581 | 8207 | 7833 | 7459 | 7085 | 6711 | 6336 | 5962 | 121 | 37 | 8661 |
| 137 | 38 | | 2137 | 1763 | 1390 | 1016 | 0643 | 0269 | 9896 | 9522 | 9148 | 8774 | 8400 | 8026 | 7652 | 7278 | 6904 | 6529 | 6155 | 124 | 38 | 8847 |
| 131 | 39 | | 2331 | 1958 | 1584 | 1210 | 0837 | 0463 | 0089 | 9715 | 9341 | 8967 | 8593 | 8219 | 7845 | 7471 | 7096 | 6722 | 6348 | 128 | 39 | 9043 |
| 124 | 40 | 3 (2) | 2525 | 2152 | 1778 | 1404 | 1030 | 0657 | 0283 | 9909 | 9535 | 9161 | 8786 | 8412 | 8038 | 7664 | 7289 | 6915 | 6540 | 131 | 40 | 3 9239 |
| 118 | 41 | | 2719 | 2346 | 1972 | 1598 | 1224 | 0850 | 0476 | 0102 | 9728 | 9354 | 8980 | 8605 | 8231 | 7856 | 7482 | 7107 | 6733 | 134 | 41 | 9435 |
| 112 | 42 | | 2913 | 2540 | 2166 | 1792 | 1418 | 1044 | 0670 | 0295 | 9921 | 9547 | 9173 | 8798 | 8424 | 8049 | 7674 | 7300 | 6925 | 138 | 42 | 9631 |
| 106 | 43 | | 3107 | 2733 | 2359 | 1985 | 1611 | 1237 | 0863 | 0489 | 0114 | 9740 | 9366 | 8991 | 8616 | 8242 | 7867 | 7492 | 7117 | 141 | 43 | 9827 |
| 100 | 44 | | 3301 | 2927 | 2553 | 2179 | 1805 | 1431 | 1056 | 0682 | 0307 | 9933 | 9558 | 9184 | 8809 | 8434 | 8060 | 7685 | 7310 | 144 | 44 | 4 0023 |
| 23 | 45 | 3 (2) | 3495 | 3121 | 2747 | 2373 | 1998 | 1624 | 1250 | 0875 | 0500 | 0126 | 9751 | 9377 | 9002 | 8627 | 8252 | 7877 | 7502 | 147 | 45 | 4 0218 |
| 87 | 46 | | 3689 | 3315 | 2940 | 2566 | 2192 | 1817 | 1443 | 1068 | 0693 | 0319 | 9944 | 9569 | 9194 | 8819 | 8444 | 8069 | 7694 | 151 | 46 | 0414 |
| 81 | 47 | | 3883 | 3508 | 3134 | 2759 | 2385 | 2010 | 1636 | 1261 | 0886 | 0512 | 0137 | 9762 | 9387 | 9012 | 8637 | 8262 | 7886 | 154 | 47 | 0609 |
| 75 | 48 | | 4076 | 3702 | 3327 | 2953 | 2578 | 2204 | 1829 | 1454 | 1079 | 0704 | 0329 | 9954 | 9579 | 9204 | 8829 | 8454 | 8078 | 157 | 48 | 0805 |
| 68 | 49 | | 4270 | 3895 | 3521 | 3146 | 2771 | 2397 | 2022 | 1647 | 1272 | 0897 | 0522 | 0147 | 9772 | 9396 | 9021 | 8646 | 8270 | 160 | 49 | 1000 |
| 62 | 50 | 3 (2) | 4463 | 4089 | 3714 | 3339 | 2965 | 2590 | 2215 | 1840 | 1465 | 1090 | 0715 | 0339 | 9964 | 9589 | 9213 | 8838 | 8462 | 164 | 50 | 4 1195 |
| 56 | 51 | | 4657 | 4282 | 3907 | 3533 | 3158 | 2783 | 2408 | 2033 | 1658 | 1282 | 0907 | 0532 | 0156 | 9781 | 9405 | 9030 | 8654 | 167 | 51 | 1391 |
| 50 | 52 | | 4850 | 4475 | 4101 | 3726 | 3351 | 2976 | 2600 | 2225 | 1850 | 1475 | 1099 | 0724 | 0349 | 9973 | 9597 | 9222 | 8846 | 170 | 52 | 1586 |
| 44 | 53 | | 5044 | 4669 | 4294 | 3919 | 3544 | 3168 | 2793 | 2418 | 2043 | 1667 | 1292 | 0916 | 0541 | 0165 | 9789 | 9414 | 9038 | 174 | 53 | 1781 |
| 37 | 54 | | 5237 | 4862 | 4487 | 4112 | 3736 | 3361 | 2986 | 2611 | 2235 | 1860 | 1484 | 1109 | 0733 | 0357 | 9981 | 9605 | 9230 | 177 | 54 | 1976 |
| 31 | 55 | 3 (2) | 5430 | 5055 | 4680 | 4305 | 3929 | 3554 | 3179 | 2803 | 2428 | 2052 | 1676 | 1301 | 0925 | 0549 | 0173 | 9797 | 9421 | 180 | 56 | 4 2171 |
| 25 | 56 | | 5623 | 5248 | 4873 | 4497 | 4122 | 3747 | 3371 | 2996 | 2620 | 2244 | 1868 | 1493 | 1117 | 0741 | 0365 | 9989 | 9613 | 183 | 56 | 2366 |
| 19 | 57 | | 5815 | 5441 | 5066 | 4690 | 4315 | 3939 | 3564 | 3188 | 2812 | 2436 | 2061 | 1685 | 1309 | 0933 | 0557 | 0181 | 9804 | 187 | 57 | 2561 |
| 12 | 58 | | 6009 | 5634 | 5258 | 4883 | 4507 | 4132 | 3756 | 3380 | 3004 | 2629 | 2253 | 1877 | 1501 | 1124 | 0748 | 0372 | 9996 | 190 | 58 | 2755 |
| 6 | 52 | 3 | 6202 | 5827 | 5451 | 5076 | 4700 | 4324 | 3948 | 3573 | 3197 | 2821 | 2445 | 2069 | 1692 | 1316 | 0940 | 0564 | 0187 | 193 | 59 | 2950 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 138° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 138° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 377 | 0' | 4 (3) 2770 | 2396 | 2021 | 1647 | 1272 | 0897 | 0522 | 0147 | 9773 | 9398 | 9022 | 8647 | 8272 | 7897 | 7521 | 7146 | 6771 | 196 | 8' | 6 8448 |
| 371 | 1 | 2965 | 2590 | 2216 | 1841 | 1466 | 1091 | 0716 | 0341 | 9966 | 9591 | 9216 | 8841 | 8465 | 8090 | 7715 | 7339 | 6964 | 193 | 1 | 8250 |
| 365 | 2 | 3159 | 2785 | 2410 | 2035 | 1660 | 1285 | 0910 | 0535 | 0160 | 9785 | 9109 | 9034 | 8659 | 8283 | 7908 | 7532 | 7156 | 190 | 2 | 8051 |
| 359 | 3 | 3354 | 2979 | 2604 | 2229 | 1854 | 1479 | 1104 | 0729 | 0354 | 9978 | 9603 | 9227 | 8852 | 8476 | 8101 | 7725 | 7349 | 187 | 3 | 7853 |
| 352 | 4 | 3548 | 3173 | 2798 | 2423 | 2048 | 1673 | 1298 | 0922 | 0547 | 0172 | 9796 | 9421 | 9045 | 8669 | 8294 | 7918 | 7542 | 183 | 4 | 7655 |
| 346 | 5 | 4 (3) 3742 | 3367 | 2992 | 2617 | 2242 | 1867 | 1191 | 1116 | 0741 | 0365 | 9989 | 9614 | 9238 | 8862 | 8487 | 8111 | 7735 | 180 | 5 | 6 7457 |
| 340 | 6 | 3937 | 3561 | 3186 | 2811 | 2436 | 2060 | 1685 | 1310 | 0934 | 0558 | 0183 | 9807 | 9431 | 9055 | 8679 | 8303 | 7927 | 177 | 6 | 7259 |
| 333 | 7 | 4131 | 3755 | 3380 | 3005 | 2630 | 2251 | 1879 | 1503 | 1127 | 0752 | 0376 | 0000 | 9624 | 9248 | 8872 | 8496 | 8120 | 174 | 7 | 7061 |
| 327 | 8 | 4325 | 3949 | 3574 | 3199 | 2823 | 2448 | 2072 | 1696 | 1321 | 0915 | 0569 | 0193 | 9817 | 9441 | 9065 | 8689 | 8312 | 170 | 8 | 6863 |
| 321 | 9 | 4519 | 4143 | 3768 | 3392 | 3017 | 2641 | 2265 | 1890 | 1514 | 1138 | 0762 | 0386 | 0010 | 9634 | 9257 | 8881 | 8505 | 167 | 9 | 6666 |
| 315 | 10 | 4 (3) 4713 | 4337 | 3962 | 3586 | 3210 | 2835 | 2459 | 2083 | 1707 | 1331 | 0955 | 0579 | 0203 | 9826 | 9450 | 9074 | 8697 | 164 | 10 | 6 6468 |
| 308 | 11 | 4907 | 4531 | 4155 | 3780 | 3104 | 3028 | 2652 | 2276 | 1900 | 1521 | 1148 | 0772 | 0395 | 0019 | 9643 | 9266 | 8890 | 160 | 11 | 6270 |
| 302 | 12 | 5100 | 4725 | 1349 | 3973 | 3597 | 3221 | 2845 | 2469 | 2093 | 1717 | 1341 | 0964 | 0588 | 0212 | 9835 | 9458 | 9082 | 157 | 12 | 6073 |
| 296 | 13 | 5294 | 4918 | 4543 | 4167 | 3791 | 3415 | 3038 | 2662 | 2286 | 1910 | 1533 | 1157 | 0781 | 0404 | 0027 | 9651 | 9274 | 154 | 13 | 5875 |
| 289 | 14 | 5488 | 5112 | 4736 | 4360 | 3984 | 3608 | 3232 | 2855 | 2479 | 2103 | 1726 | 1350 | 0973 | 0596 | 0220 | 9843 | 9466 | 151 | 14 | 5677 |
| 283 | 15 | 4 (3) 5682 | 5306 | 4929 | 4553 | 4177 | 3801 | 3425 | 3048 | 2672 | 2295 | 1919 | 1512 | 1166 | 0789 | 0412 | 0035 | 9658 | 147 | 15 | 6 5480 |
| 277 | 16 | 5875 | 5499 | 5123 | 4747 | 4370 | 3994 | 3618 | 3241 | 2865 | 2188 | 2111 | 1735 | 1358 | 0981 | 0604 | 0227 | 9850 | 144 | 16 | 5283 |
| 271 | 17 | 4 6069 | 5692 | 5316 | 4940 | 4563 | 4187 | 3811 | 3434 | 3057 | 2681 | 2304 | 1927 | 1550 | 1173 | 0796 | 0419 | 0042 | 141 | 17 | 5085 |
| 264 | 18 | 6262 | 5886 | 5509 | 5133 | 4756 | 4380 | 4003 | 3627 | 3250 | 2873 | 2496 | 2120 | 1743 | 1366 | 0988 | 0611 | 0234 | 138 | 18 | 4888 |
| 258 | 19 | 6455 | 6079 | 5703 | 5326 | 4949 | 4573 | 4196 | 3819 | 3443 | 3066 | 2689 | 2312 | 1935 | 1558 | 1180 | 0803 | 0426 | 134 | 19 | 4691 |
| 252 | 20 | 4 6649 | 6272 | 5896 | 5519 | 5142 | 4766 | 1389 | 4012 | 3635 | 3258 | 2881 | 2504 | 2127 | 1750 | 1372 | 0995 | 0618 | 131 | 20 | 6 4494 |
| 245 | 21 | 6842 | 6465 | 6089 | 5712 | 5335 | 4958 | 4582 | 4205 | 3828 | 3451 | 3073 | 2696 | 2319 | 1942 | 1564 | 1187 | 0809 | 128 | 21 | 4297 |
| 239 | 22 | 7035 | 6658 | 6282 | 5905 | 5528 | 5151 | 4774 | 4397 | 4020 | 3643 | 3266 | 2888 | 2511 | 2134 | 1756 | 1379 | 1001 | 124 | 22 | 4100 |
| 933 | 23 | 7228 | 6851 | 6475 | 6098 | 5721 | 5344 | 4967 | 4590 | 4212 | 3835 | 3458 | 3080 | 2703 | 2325 | 1948 | 1570 | 1192 | 121 | 23 | 3903 |
| 227 | 24 | 7421 | 7044 | 6668 | 6291 | 5914 | 5536 | 5159 | 4782 | 4405 | 4027 | 3650 | 3272 | 2895 | 2517 | 2140 | 1762 | 1384 | 118 | 24 | 3706 |
| 220 | 25 | 4 7614 | 7237 | 6860 | 6483 | 6106 | 5729 | 5352 | 4974 | 4597 | 4219 | 3842 | 3464 | 3087 | 2709 | 2331 | 1953 | 1575 | 115 | 25 | 6 3509 |
| 214 | 26 | 7807 | 7430 | 7053 | 6676 | 6299 | 5921 | 5544 | 5167 | 4789 | 4412 | 4034 | 3656 | 3278 | 2901 | 2523 | 2145 | 1767 | 111 | 26 | 3313 |
| 208 | 27 | 8000 | 7623 | 7246 | 6868 | 6491 | 6114 | 5736 | 5359 | 4981 | 4604 | 4226 | 3848 | 3470 | 3092 | 2714 | 2336 | 1958 | 108 | 27 | 3116 |
| 201 | 28 | 8193 | 7816 | 7438 | 7061 | 6684 | 6306 | 5929 | 5551 | 5173 | 4795 | 4418 | 4040 | 3662 | 3284 | 2906 | 2528 | 2149 | 105 | 28 | 2919 |
| 195 | 29 | 8386 | 8008 | 7631 | 7253 | 6876 | 6498 | 6121 | 5743 | 5365 | 4987 | 4609 | 4231 | 3853 | 3475 | 3097 | 2719 | 2341 | 102 | 29 | 2723 |
| 189 | 30 | 4 8578 | 8201 | 7823 | 7416 | 7068 | 6691 | 6313 | 5935 | 5557 | 5179 | 4801 | 4423 | 4045 | 3667 | 3288 | 2910 | 2532 | 98 | 30 | 6 2526 |
| 182 | 31 | 8771 | 8393 | 8016 | 7638 | 7260 | 6883 | 6505 | 6127 | 5749 | 5371 | 4993 | 4615 | 4236 | 3858 | 3480 | 3101 | 2723 | 95 | 31 | 2330 |
| 176 | 32 | 8964 | 8586 | 8208 | 7830 | 7453 | 7075 | 6697 | 6319 | 5941 | 5563 | 5184 | 4806 | 4128 | 4049 | 3671 | 3292 | 2914 | 92 | 32 | 2133 |
| 170 | 33 | 9156 | 8778 | 8401 | 8023 | 7645 | 7267 | 6889 | 6511 | 6132 | 5754 | 5376 | 4997 | 4619 | 4241 | 3862 | 3483 | 3105 | 88 | 33 | 1937 |
| 164 | 34 | 9349 | 8971 | 8593 | 8215 | 7837 | 7459 | 7081 | 6702 | 6324 | 5946 | 5567 | 5189 | 4810 | 4132 | 4053 | 3674 | 3296 | 85 | 34 | 1741 |
| 157 | 35 | 4 9541 | 9163 | 8785 | 8407 | 8029 | 7651 | 7273 | 6894 | 6516 | 6137 | 5759 | 5380 | 5002 | 4623 | 4244 | 3865 | 3487 | 82 | 35 | 6 1545 |
| 151 | 36 | 9733 | 9355 | 8977 | 8599 | 8221 | 7842 | 7465 | 7086 | 6707 | 6329 | 5950 | 5571 | 5193 | 4814 | 1435 | 4056 | 3677 | 79 | 36 | 1349 |
| 145 | 37 | 9925 | 9547 | 9169 | 8791 | 8413 | 8034 | 7656 | 7277 | 6899 | 6520 | 6141 | 5763 | 5384 | 5005 | 4626 | 4247 | 3868 | 75 | 37 | 1152 |
| 138 | 38 | 5 (4) 0118 | 9739 | 9361 | 8983 | 8601 | 8226 | 7847 | 7469 | 7090 | 6711 | 6333 | 5954 | 5575 | 5196 | 4817 | 4438 | 4058 | 72 | 38 | 0957 |
| 132 | 39 | 0310 | 9931 | 9553 | 9175 | 8796 | 8417 | 8039 | 7660 | 7281 | 6903 | 6524 | 6115 | 5766 | 5387 | 5008 | 4628 | 4249 | 69 | 32 | 0761 |
| 126 | 40 | 5 (4) 0502 | 0123 | 9745 | 9366 | 8988 | 8609 | 8230 | 7852 | 7473 | 7094 | 6715 | 6336 | 5957 | 5577 | 5198 | 4819 | 4439 | 65 | 40 | 6 0565 |
| 120 | 41 | 0694 | 0315 | 9937 | 9558 | 9179 | 8801 | 8422 | 8043 | 7664 | 7285 | 6906 | 6527 | 6147 | 5768 | 5389 | 5009 | 1630 | 62 | 41 | 0369 |
| 113 | 42 | 0886 | 0507 | 0128 | 9750 | 9371 | 8992 | 8613 | 8234 | 7855 | 7476 | 7097 | 6718 | 6338 | 5959 | 5580 | 5200 | 4820 | 59 | 42 | 0173 |
| 107 | 43 | 1078 | 0699 | 0320 | 9941 | 9562 | 9183 | 8804 | 8425 | 8046 | 7667 | 7288 | 6908 | 6529 | 6149 | 5770 | 5390 | 5011 | 56 | 43 | 5 9977 |
| 101 | 44 | 1269 | 0891 | 0512 | 0133 | 9754 | 9375 | 8996 | 8616 | 8237 | 7858 | 7478 | 7099 | 6719 | 6340 | 5960 | 5581 | 5201 | 52 | 44 | 9782 |
| 94 | 45 | 5 (4) 1461 | 1082 | 0703 | 0324 | 9945 | 9566 | 9187 | 8807 | 8428 | 8049 | 7669 | 7290 | 6910 | 6530 | 6151 | 5771 | 5391 | 49 | 45 | 5 9586 |
| 88 | 46 | 1653 | 1274 | 0895 | 0516 | 0136 | 9757 | 9378 | 8998 | 8619 | 8240 | 7860 | 7480 | 7101 | 6721 | 6341 | 5961 | 5581 | 46 | 46 | 9391 |
| 82 | 47 | 1844 | 1465 | 1086 | 0707 | 0328 | 9948 | 9569 | 9189 | 8810 | 8430 | 8051 | 7671 | 7291 | 6911 | 6531 | 6151 | 5771 | 43 | 47 | 9195 |
| 76 | 48 | 2036 | 1657 | 1277 | 0898 | 0519 | 0139 | 9760 | 9380 | 9001 | 8621 | 8241 | 7861 | 7481 | 7102 | 6721 | 6341 | 5961 | 39 | 48 | 9000 |
| 69 | 49 | 2227 | 1848 | 1469 | 1089 | 0710 | 0330 | 9951 | 9571 | 9191 | 8811 | 8432 | 8052 | 7672 | 7292 | 6912 | 6531 | 6151 | 36 | 49 | 8805 |
| 63 | 50 | 5 (4) 2419 | 2039 | 1660 | 1280 | 0901 | 0521 | 0141 | 9762 | 9382 | 9002 | 8622 | 8242 | 7862 | 7482 | 7102 | 6721 | 6341 | 33 | 50 | 5 8609 |
| 57 | 51 | 2610 | 2231 | 1851 | 1471 | 1092 | 0712 | 0332 | 9952 | 9572 | 9192 | 8812 | 8432 | 8052 | 7672 | 7292 | 6911 | 6531 | 29 | 51 | 8414 |
| 50 | 52 | 2801 | 2422 | 2042 | 1662 | 1283 | 0903 | 0523 | 0143 | 9763 | 9383 | 9003 | 8623 | 8242 | 7862 | 7482 | 7101 | 6721 | 26 | 52 | 8219 |
| 44 | 53 | 2993 | 2613 | 2233 | 1853 | 1473 | 1094 | 0714 | 0334 | 9953 | 9573 | 9193 | 8813 | 8432 | 8052 | 7671 | 7291 | 6910 | 23 | 53 | 8024 |
| 38 | 54 | 3184 | 2801 | 2424 | 2044 | 1664 | 1284 | 0904 | 0524 | 0144 | 9764 | 9383 | 9003 | 8622 | 8242 | 7861 | 7481 | 7100 | 20 | 54 | 7829 |
| 31 | 55 | 5 (4) 3375 | 2995 | 2615 | 2235 | 1855 | 1475 | 1095 | 0714 | 0334 | 9954 | 9573 | 9193 | 8812 | 8432 | 8051 | 7670 | 7289 | 16 | 55 | 5 7634 |
| 25 | 56 | 3566 | 3186 | 2806 | 2426 | 2046 | 1665 | 1285 | 0905 | 0524 | 0144 | 9763 | 9383 | 9002 | 8621 | 8241 | 7860 | 7479 | 13 | 56 | 7439 |
| 19 | 57 | 3757 | 3377 | 2997 | 2616 | 2236 | 1856 | 1476 | 1095 | 0715 | 0334 | 9953 | 9573 | 9192 | 8811 | 8430 | 8049 | 7668 | 10 | 57 | 7245 |
| 13 | 58 | 3948 | 3568 | 3187 | 2807 | 2427 | 2046 | 1666 | 1285 | 0905 | 0524 | 0143 | 9763 | 9382 | 9001 | 8620 | 8239 | 7858 | 7 | 58 | 7050 |
| 6 | 59 | 4139 | 3758 | 3378 | 2998 | 2617 | 2237 | 1856 | 1476 | 1095 | 0714 | 0333 | 9952 | 9571 | 9190 | 8809 | 8428 | 8047 | 3 | 59 | 6855 |

## Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 138° | | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 379 | 0′ | 3 | 6395 | 6020 | 5644 | 5268 | 4892 | 4517 | 4141 | 3765 | 3389 | 3013 | 2637 | 2260 | 1884 | 1508 | 1131 | 0755 | 0378 |
| 373 | 1 | | 6588 | 6212 | 5837 | 5461 | 5085 | 4709 | 4333 | 3957 | 3581 | 3205 | 2828 | 2452 | 2076 | 1699 | 1323 | 0946 | 0570 |
| 366 | 2 | | 6781 | 6405 | 6029 | 5653 | 5277 | 4901 | 4525 | 4149 | 3773 | 3397 | 3020 | 2644 | 2267 | 1891 | 1514 | 1138 | 0761 |
| 360 | 3 | | 6973 | 6598 | 6222 | 5846 | 5470 | 5093 | 4717 | 4341 | 3965 | 3588 | 3212 | 2835 | 2459 | 2082 | 1706 | 1329 | 0952 |
| 354 | 4 | | 7166 | 6790 | 6414 | 6038 | 5662 | 5286 | 4909 | 4533 | 4157 | 3780 | 3404 | 3027 | 2650 | 2274 | 1897 | 1520 | 1143 |
| 347 | 5 | 3 | 7359 | 6983 | 6607 | 6230 | 5854 | 5478 | 5101 | 4725 | 4348 | 3972 | 3595 | 3219 | 2842 | 2465 | 2088 | 1711 | 1334 |
| 341 | 6 | | 7551 | 7175 | 6799 | 6423 | 6046 | 5670 | 5293 | 4917 | 4540 | 4164 | 3787 | 3410 | 3033 | 2656 | 2279 | 1902 | 1525 |
| 335 | 7 | | 7744 | 7367 | 6991 | 6615 | 6238 | 5862 | 5485 | 5109 | 4732 | 4355 | 3978 | 3601 | 3224 | 2847 | 2470 | 2093 | 1716 |
| 329 | 8 | | 7936 | 7560 | 7183 | 6807 | 6430 | 6054 | 5677 | 5300 | 4923 | 4547 | 4170 | 3793 | 3416 | 3039 | 2661 | 2284 | 1907 |
| 322 | 9 | | 8128 | 7752 | 7375 | 6999 | 6622 | 6246 | 5869 | 5492 | 5115 | 4738 | 4361 | 3984 | 3607 | 3230 | 2852 | 2475 | 2098 |
| 316 | 10 | 3 | 8321 | 7944 | 7568 | 7191 | 6814 | 6437 | 6060 | 5684 | 5307 | 4929 | 4552 | 4175 | 3798 | 3421 | 3043 | 2666 | 2288 |
| 310 | 11 | | 8513 | 8136 | 7760 | 7383 | 7006 | 6629 | 6252 | 5875 | 5498 | 5121 | 4744 | 4366 | 3989 | 3612 | 3234 | 2857 | 2179 |
| 303 | 12 | | 8705 | 8328 | 7952 | 7575 | 7198 | 6821 | 6444 | 6067 | 5689 | 5312 | 4935 | 4557 | 4180 | 3802 | 3425 | 3047 | 2670 |
| 297 | 13 | | 8897 | 8520 | 8143 | 7766 | 7389 | 7012 | 6635 | 6258 | 5881 | 5503 | 5126 | 4748 | 4371 | 3993 | 3616 | 3238 | 2860 |
| 291 | 14 | | 9089 | 8712 | 8335 | 7958 | 7581 | 7204 | 6827 | 6149 | 6072 | 5694 | 5317 | 4939 | 4562 | 4184 | 3806 | 3428 | 3051 |
| 284 | 15 | 3 | 9281 | 8904 | 8527 | 8150 | 7773 | 7395 | 7018 | 6641 | 6263 | 5886 | 5508 | 5130 | 4752 | 4375 | 3997 | 3619 | 3241 |
| 278 | 16 | | 9473 | 9096 | 8719 | 8342 | 7964 | 7587 | 7209 | 6832 | 6454 | 6077 | 5699 | 5321 | 4943 | 4565 | 4187 | 3809 | 3431 |
| 272 | 17 | | 9665 | 9288 | 8910 | 8533 | 8156 | 7778 | 7401 | 7023 | 6645 | 6268 | 5890 | 5512 | 5134 | 4756 | 4378 | 4000 | 3622 |
| 265 | 18 | | 9857 | 9479 | 9102 | 8725 | 8347 | 7969 | 7592 | 7214 | 6836 | 6458 | 6081 | 5703 | 5325 | 4946 | 4568 | 4190 | 3812 |
| 259 | 19 | 4 (3) | 0048 | 9671 | 9294 | 8916 | 8538 | 8161 | 7783 | 7405 | 7027 | 6649 | 6271 | 5893 | 5515 | 5137 | 4759 | 4380 | 4002 |
| 253 | 20 | 4 (3) | 0240 | 9863 | 9485 | 9107 | 8730 | 8352 | 7974 | 7596 | 7218 | 6840 | 6462 | 6084 | 5706 | 5327 | 4949 | 4570 | 4192 |
| 246 | 21 | | 0432 | 0054 | 9676 | 9299 | 8921 | 8543 | 8165 | 7787 | 7409 | 7031 | 6653 | 6274 | 5896 | 5518 | 5139 | 4761 | 4382 |
| 240 | 22 | | 0623 | 0246 | 9868 | 9490 | 9112 | 8734 | 8356 | 7978 | 7600 | 7221 | 6843 | 6465 | 6086 | 5708 | 5329 | 4951 | 4572 |
| 234 | 23 | | 0815 | 0437 | 0059 | 9681 | 9303 | 8925 | 8547 | 8169 | 7790 | 7412 | 7034 | 6655 | 6277 | 5898 | 5519 | 5141 | 4762 |
| 227 | 24 | | 1006 | 0628 | 0250 | 9872 | 9494 | 9116 | 8738 | 8359 | 7981 | 7603 | 7224 | 6845 | 6467 | 6088 | 5709 | 5331 | 4952 |
| 221 | 25 | 4 (3) | 1198 | 0819 | 0441 | 0063 | 9685 | 9307 | 8928 | 8550 | 8172 | 7793 | 7414 | 7036 | 6657 | 6278 | 5899 | 5520 | 5141 |
| 215 | 26 | | 1389 | 1011 | 0632 | 0254 | 9876 | 9498 | 9119 | 8741 | 8362 | 7983 | 7605 | 7226 | 6847 | 6468 | 6089 | 5710 | 5331 |
| 209 | 27 | | 1580 | 1202 | 0823 | 0445 | 0067 | 9688 | 9310 | 8931 | 8552 | 8174 | 7795 | 7416 | 7037 | 6658 | 6279 | 5900 | 5521 |
| 202 | 28 | | 1771 | 1393 | 1014 | 0636 | 0257 | 9879 | 9500 | 9122 | 8743 | 8364 | 7985 | 7606 | 7227 | 6848 | 6469 | 6090 | 5710 |
| 196 | 29 | | 1962 | 1584 | 1205 | 0827 | 0448 | 0069 | 9691 | 9312 | 8933 | 8554 | 8175 | 7796 | 7417 | 7038 | 6659 | 6279 | 5900 |
| 190 | 30 | 4 (3) | 2153 | 1775 | 1396 | 1018 | 0639 | 0260 | 9881 | 9502 | 9123 | 8744 | 8365 | 7986 | 7607 | 7228 | 6848 | 6469 | 6089 |
| 183 | 31 | | 2344 | 1966 | 1587 | 1208 | 0829 | 0451 | 0072 | 9693 | 9314 | 8934 | 8555 | 8176 | 7797 | 7417 | 7038 | 6658 | 6279 |
| 177 | 32 | | 2535 | 2156 | 1778 | 1399 | 1020 | 0641 | 0262 | 9883 | 9504 | 9124 | 8745 | 8366 | 7986 | 7607 | 7297 | 6848 | 6468 |
| 171 | 33 | | 2726 | 2347 | 1968 | 1589 | 1210 | 0831 | 0452 | 0073 | 9694 | 9314 | 8935 | 8556 | 8176 | 7797 | 7417 | 7037 | 6658 |
| 164 | 34 | | 2917 | 2538 | 2159 | 1780 | 1401 | 1022 | 0642 | 0263 | 9884 | 9504 | 9125 | 8745 | 8366 | 7986 | 7606 | 7227 | 6847 |
| 158 | 35 | 4 (3) | 3107 | 2729 | 2349 | 1970 | 1591 | 1212 | 0832 | 0453 | 0074 | 9694 | 9315 | 8935 | 8555 | 8176 | 7796 | 7416 | 7036 |
| 152 | 36 | | 3298 | 2919 | 2540 | 2161 | 1781 | 1402 | 1023 | 0643 | 0264 | 9884 | 9504 | 9125 | 8745 | 8365 | 7985 | 7605 | 7225 |
| 145 | 37 | | 3489 | 3110 | 2730 | 2351 | 1971 | 1592 | 1213 | 0833 | 0453 | 0074 | 9694 | 9314 | 8934 | 8554 | 8174 | 7794 | 7414 |
| 139 | 38 | | 3679 | 3300 | 2921 | 2541 | 2162 | 1782 | 1403 | 1023 | 0643 | 0263 | 9883 | 9504 | 9124 | 8744 | 8363 | 7983 | 7603 |
| 133 | 39 | | 3870 | 3490 | 3111 | 2731 | 2352 | 1972 | 1592 | 1213 | 0833 | 0453 | 0073 | 9693 | 9313 | 8933 | 8553 | 8172 | 7792 |
| 126 | 40 | 4 (3) | 4060 | 3681 | 3301 | 2921 | 2542 | 2162 | 1782 | 1402 | 1022 | 0642 | 0262 | 9882 | 9502 | 9122 | 8742 | 8361 | 7981 |
| 120 | 41 | | 4250 | 3871 | 3491 | 3111 | 2732 | 2352 | 1972 | 1592 | 1212 | 0832 | 0452 | 0071 | 9691 | 9311 | 8931 | 8550 | 8170 |
| 114 | 42 | | 4441 | 4061 | 3681 | 3301 | 2922 | 2542 | 2162 | 1782 | 1402 | 1021 | 0641 | 0261 | 9880 | 9500 | 9119 | 8739 | 8358 |
| 107 | 43 | | 4631 | 4251 | 3871 | 3491 | 3111 | 2731 | 2351 | 1971 | 1591 | 1211 | 0830 | 0450 | 0069 | 9689 | 9308 | 8928 | 8547 |
| 101 | 44 | | 4821 | 4441 | 4061 | 3681 | 3301 | 2921 | 2541 | 2161 | 1780 | 1400 | 1020 | 0639 | 0258 | 9878 | 9497 | 9116 | 8736 |
| 95 | 45 | 4 (3) | 5011 | 4631 | 4251 | 3871 | 3491 | 3111 | 2730 | 2350 | 1970 | 1589 | 1209 | 0828 | 0447 | 0067 | 9686 | 9305 | 8924 |
| 88 | 46 | | 5201 | 4821 | 4441 | 4061 | 3681 | 3300 | 2919 | 2539 | 2159 | 1778 | 1398 | 1017 | 0636 | 0255 | 9875 | 9494 | 9112 |
| 82 | 47 | | 5391 | 5011 | 4631 | 4250 | 3870 | 3490 | 3109 | 2729 | 2348 | 1967 | 1587 | 1206 | 0825 | 0444 | 0063 | 9682 | 9301 |
| 76 | 48 | | 5581 | 5201 | 4820 | 4440 | 4060 | 3679 | 3299 | 2918 | 2537 | 2156 | 1776 | 1395 | 1014 | 0633 | 0252 | 9870 | 9489 |
| 70 | 49 | | 5771 | 5391 | 5010 | 4630 | 4249 | 3869 | 3488 | 3107 | 2726 | 2345 | 1964 | 1583 | 1202 | 0821 | 0440 | 0059 | 9677 |
| 63 | 50 | 4 (3) | 5961 | 5580 | 5200 | 4819 | 4438 | 4058 | 3677 | 3296 | 2915 | 2534 | 2153 | 1772 | 1391 | 1010 | 0628 | 0247 | 9866 |
| 57 | 51 | 4 | 6150 | 5770 | 5389 | 5009 | 4628 | 4247 | 3866 | 3485 | 3104 | 2723 | 2342 | 1961 | 1580 | 1198 | 0817 | 0435 | 0054 |
| 51 | 52 | | 6340 | 5959 | 5579 | 5198 | 4817 | 4436 | 4055 | 3674 | 3293 | 2912 | 2531 | 2149 | 1768 | 1387 | 1005 | 0624 | 0242 |
| 44 | 53 | | 6530 | 6149 | 5768 | 5387 | 5006 | 4625 | 4244 | 3863 | 3482 | 3101 | 2719 | 2338 | 1956 | 1575 | 1193 | 0812 | 0430 |
| 38 | 54 | | 6719 | 6338 | 5957 | 5576 | 5195 | 4814 | 4433 | 4052 | 3671 | 3289 | 2908 | 9526 | 2145 | 1763 | 1382 | 1000 | 0618 |
| 32 | 55 | 4 | 6909 | 6528 | 6147 | 5766 | 5384 | 5003 | 4622 | 4241 | 3859 | 3478 | 3096 | 2715 | 2333 | 1951 | 1570 | 1188 | 0806 |
| 25 | 56 | | 7098 | 6717 | 6336 | 5955 | 5573 | 5192 | 4811 | 4429 | 4048 | 3666 | 3285 | 2903 | 2521 | 2139 | 1758 | 1376 | 0994 |
| 19 | 57 | | 7287 | 6906 | 6525 | 6144 | 5762 | 5381 | 5000 | 4618 | 4936 | 3855 | 3473 | 3091 | 2709 | 2328 | 1946 | 1564 | 1182 |
| 13 | 58 | | 7477 | 7095 | 6714 | 6333 | 5951 | 5570 | 5188 | 4807 | 4425 | 4043 | 3661 | 3979 | 2898 | 2516 | 2134 | 1751 | 1363 |
| 6 | 59 | | 7666 | 7284 | 6903 | 6522 | 6140 | 5758 | 5377 | 4995 | 4613 | 4232 | 3850 | 3468 | 3086 | 2704 | 2321 | 1939 | 1557 |

## Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 138° | Núm. |
|---|---|---|
| 0 | 0′ | 4 3145 |
| 3 | 1 | 3339 |
| 6 | 2 | 3534 |
| 10 | 3 | 3728 |
| 13 | 4 | 3923 |
| 16 | 5 | 4 4117 |
| 19 | 6 | 4312 |
| 22 | 7 | 4506 |
| 26 | 8 | 4700 |
| 29 | 9 | 4894 |
| 32 | 10 | 4 5088 |
| 35 | 11 | 5282 |
| 39 | 12 | 5476 |
| 42 | 13 | 5670 |
| 45 | 14 | 5864 |
| 48 | 15 | 4 6057 |
| 51 | 16 | 6251 |
| 55 | 17 | 6445 |
| 58 | 18 | 6638 |
| 61 | 19 | 6832 |
| 64 | 20 | 4 7025 |
| 68 | 21 | 7218 |
| 71 | 22 | 7412 |
| 74 | 23 | 7605 |
| 77 | 24 | 7798 |
| 80 | 25 | 4 7991 |
| 84 | 26 | 8184 |
| 87 | 27 | 8377 |
| 90 | 28 | 8570 |
| 93 | 29 | 8763 |
| 96 | 30 | 4 8956 |
| 100 | 31 | 9148 |
| 103 | 32 | 9341 |
| 106 | 33 | 9534 |
| 109 | 34 | 9726 |
| 113 | 35 | 4 9919 |
| 116 | 36 | 5 0111 |
| 119 | 37 | 0303 |
| 122 | 38 | 0496 |
| 125 | 39 | 0688 |
| 129 | 40 | 5 0880 |
| 132 | 41 | 1072 |
| 135 | 42 | 1264 |
| 138 | 43 | 1456 |
| 141 | 44 | 1648 |
| 145 | 45 | 5 1840 |
| 148 | 46 | 2032 |
| 151 | 47 | 2223 |
| 154 | 48 | 2415 |
| 158 | 49 | 2606 |
| 161 | 50 | 5 2798 |
| 164 | 51 | 2989 |
| 167 | 52 | 3181 |
| 170 | 53 | 3372 |
| 174 | 54 | 3563 |
| 177 | 55 | 5 3755 |
| 180 | 56 | 3946 |
| 183 | 57 | 4137 |
| 187 | 58 | 4328 |
| 190 | 59 | 4519 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 139° | d | Argumento Auxiliar. 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | Partes para segundos | 139° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 384 | 0′ | 5 (4) | 4329 | 3949 | 3569 | 3188 | 2808 | 2427 | 2044 | 1666 | 1285 | 0904 | 0523 | 0142 | 9761 | 9380 | 8999 | 8617 | 8236 | 193 | 0′ | 5 6661 |
| 377 | 1 | | 4520 | 4140 | 3759 | 3379 | 2998 | 2617 | 2236 | 1856 | 1475 | 1094 | 0713 | 0332 | 9951 | 9569 | 9188 | 8807 | 8425 | 190 | 1 | 6466 |
| 371 | 2 | | 4711 | 4330 | 3950 | 3569 | 3188 | 2807 | 2427 | 2046 | 1665 | 1284 | 0903 | 0521 | 0140 | 9759 | 9377 | 8996 | 8615 | 187 | 2 | 6272 |
| 364 | 3 | | 4901 | 4521 | 4140 | 3759 | 3378 | 2997 | 2617 | 2236 | 1854 | 1473 | 1092 | 0711 | 0330 | 9948 | 9567 | 9185 | 8804 | 183 | 3 | 6077 |
| 358 | 4 | | 5092 | 4711 | 4330 | 3949 | 3569 | 3187 | 2807 | 2425 | 2044 | 1663 | 1282 | 0900 | 0519 | 0137 | 9756 | 9374 | 8993 | 480 | 4 | 5883 |
| 352 | 5 | 5 (4) | 5282 | 4901 | 4521 | 4140 | 3759 | 3377 | 2996 | 2615 | 2234 | 1853 | 1471 | 1090 | 0708 | 0327 | 9945 | 9563 | 9181 | 177 | 5 | 5 5688 |
| 345 | 6 | | 5473 | 5092 | 4711 | 4330 | 3949 | 3567 | 3186 | 2805 | 2423 | 2042 | 1661 | 1279 | 0897 | 0516 | 0134 | 9752 | 9370 | 174 | 6 | 5494 |
| 339 | 7 | | 5663 | 5282 | 4901 | 4520 | 4139 | 3757 | 3376 | 2995 | 2613 | 2232 | 1850 | 1468 | 1087 | 0705 | 0323 | 9941 | 9559 | 170 | 7 | 5300 |
| 332 | 8 | | 5853 | 5472 | 5091 | 4710 | 4328 | 3947 | 3566 | 3184 | 2803 | 2421 | 2039 | 1658 | 1276 | 0894 | 0512 | 0130 | 9748 | 167 | 8 | 5106 |
| 326 | 9 | | 6043 | 5662 | 5281 | 4900 | 4518 | 4137 | 3755 | 3374 | 2992 | 2610 | 2228 | 1847 | 1465 | 1083 | 0701 | 0319 | 9937 | 164 | 9 | 4912 |
| 320 | 10 | 5 | 6234 | 5852 | 5471 | 5090 | 4708 | 4326 | 3945 | 3563 | 3181 | 2800 | 2418 | 2036 | 1654 | 1272 | 0890 | 0507 | 0125 | 161 | 10 | 5 4718 |
| 313 | 11 | | 6424 | 6042 | 5661 | 5279 | 4898 | 4516 | 4135 | 3753 | 3371 | 2989 | 2607 | 2225 | 1843 | 1460 | 1078 | 0696 | 0314 | 158 | 11 | 4524 |
| 307 | 12 | | 6614 | 6232 | 5851 | 5469 | 5087 | 4706 | 4324 | 3942 | 3560 | 3178 | 2796 | 2414 | 2032 | 1649 | 1267 | 0885 | 0502 | 154 | 12 | 4330 |
| 300 | 13 | | 6804 | 6422 | 6040 | 5659 | 5277 | 4895 | 4513 | 4131 | 3749 | 3367 | 2985 | 2603 | 2220 | 1838 | 1455 | 1073 | 0691 | 151 | 13 | 4136 |
| 294 | 14 | | 6993 | 6612 | 6230 | 5848 | 5466 | 5084 | 4702 | 4320 | 3938 | 3556 | 3174 | 2791 | 2409 | 2027 | 1644 | 1261 | 0879 | 148 | 14 | 3943 |
| 288 | 15 | 5 | 7183 | 6802 | 6420 | 6038 | 5656 | 5274 | 4892 | 4509 | 4127 | 3745 | 3363 | 2980 | 2598 | 2215 | 1833 | 1450 | 1067 | 145 | 15 | 5 3749 |
| 281 | 16 | | 7373 | 6991 | 6609 | 6227 | 5845 | 5463 | 5081 | 4699 | 4316 | 3934 | 3551 | 3169 | 2786 | 2404 | 2021 | 1638 | 1255 | 141 | 16 | 3555 |
| 275 | 17 | | 7563 | 7181 | 6799 | 6417 | 6034 | 5652 | 5270 | 4888 | 4505 | 4123 | 3740 | 3358 | 2975 | 2592 | 2209 | 1826 | 1444 | 138 | 17 | 3362 |
| 268 | 18 | | 7752 | 7370 | 6988 | 6606 | 6223 | 5841 | 5459 | 5077 | 4694 | 4311 | 3929 | 3546 | 3163 | 2780 | 2398 | 2015 | 1632 | 135 | 18 | 3168 |
| 262 | 19 | | 7942 | 7560 | 7178 | 6795 | 6413 | 6030 | 5648 | 5265 | 4883 | 4500 | 4117 | 3735 | 3352 | 2969 | 2586 | 2203 | 1820 | 132 | 19 | 2975 |
| 256 | 20 | 5 | 8131 | 7749 | 7367 | 6985 | 6602 | 6219 | 5837 | 5454 | 5072 | 4689 | 4306 | 3923 | 3540 | 3157 | 2774 | 2391 | 2008 | 129 | 20 | 5 2782 |
| 249 | 21 | | 8321 | 7938 | 7556 | 7174 | 6791 | 6408 | 6026 | 5643 | 5260 | 4877 | 4494 | 4111 | 3728 | 3345 | 2962 | 2579 | 2195 | 125 | 21 | 2588 |
| 243 | 22 | | 8510 | 8128 | 7745 | 7363 | 6980 | 6597 | 6215 | 5832 | 5149 | 5066 | 4683 | 4300 | 3916 | 3533 | 3150 | 2767 | 2383 | 122 | 22 | 2395 |
| 236 | 23 | | 8700 | 8317 | 7934 | 7552 | 7169 | 6786 | 6403 | 6020 | 5637 | 5254 | 4871 | 4488 | 4105 | 3721 | 3338 | 2955 | 2571 | 119 | 23 | 2202 |
| 230 | 21 | | 8889 | 8506 | 8123 | 7741 | 7358 | 6975 | 6592 | 6209 | 5826 | 5443 | 5059 | 4676 | 4293 | 3909 | 3526 | 3142 | 2759 | 116 | 24 | 2009 |
| 224 | 25 | 5 | 9078 | 8695 | 8312 | 7930 | 7547 | 7164 | 6781 | 6397 | 6014 | 5631 | 5248 | 4864 | 4481 | 4097 | 3714 | 3330 | 2946 | 113 | 25 | 5 1816 |
| 217 | 26 | | 9267 | 8884 | 8501 | 8118 | 7735 | 7352 | 6969 | 6586 | 6203 | 5819 | 5436 | 5052 | 4669 | 4285 | 3902 | 3518 | 3134 | 409 | 26 | 1623 |
| 211 | 27 | | 9456 | 9073 | 8690 | 8307 | 7924 | 7541 | 7158 | 6774 | 6391 | 6007 | 5624 | 5240 | 4857 | 4473 | 4089 | 3705 | 3322 | 106 | 27 | 1430 |
| 205 | 28 | | 9645 | 9262 | 8879 | 8496 | 8113 | 7729 | 7346 | 6963 | 6579 | 6196 | 5812 | 5428 | 5045 | 4661 | 4277 | 3893 | 3509 | 403 | 28 | 1237 |
| 198 | 29 | | 9834 | 9451 | 9068 | 8684 | 8301 | 7918 | 7534 | 7151 | 6767 | 6384 | 6000 | 5616 | 5232 | 4848 | 4465 | 4080 | 3696 | 400 | 29 | 4044 |
| 192 | 30 | 6 (5) | 0023 | 9640 | 9256 | 8873 | 8490 | 8106 | 7723 | 7339 | 6955 | 6572 | 6188 | 5804 | 5420 | 5036 | 4652 | 4268 | 3884 | 96 | 30 | 5 0852 |
| 185 | 31 | | 0212 | 9828 | 9445 | 9062 | 8678 | 8294 | 7911 | 7527 | 7143 | 6760 | 6376 | 5992 | 5608 | 5224 | 4840 | 4455 | 4071 | 93 | 31 | 0659 |
| 179 | 32 | | 0400 | 0017 | 9634 | 9250 | 8866 | 8483 | 8099 | 7715 | 7331 | 6947 | 6563 | 6179 | 5795 | 5411 | 5027 | 4643 | 4258 | 90 | 32 | 0466 |
| 173 | 33 | | 0589 | 0206 | 9822 | 9438 | 9055 | 8671 | 8287 | 7903 | 7519 | 7135 | 6751 | 6367 | 5983 | 5599 | 5215 | 4830 | 4445 | 87 | 33 | 0274 |
| 166 | 34 | | 0778 | 0394 | 0010 | 9627 | 9243 | 8859 | 8475 | 8091 | 7707 | 7323 | 6939 | 6555 | 6170 | 5786 | 5402 | 5017 | 4632 | 84 | 34 | 0081 |
| 160 | 35 | 6 (5) | 0966 | 0582 | 0199 | 9815 | 9431 | 9047 | 8663 | 8279 | 7895 | 7511 | 7126 | 6742 | 6358 | 5973 | 5589 | 5204 | 4819 | 80 | 35 | 4 9889 |
| 153 | 36 | | 4155 | 0774 | 0387 | 0003 | 9619 | 9235 | 8851 | 8467 | 8083 | 7698 | 7314 | 6929 | 6545 | 6160 | 5776 | 5391 | 5006 | 77 | 36 | 9697 |
| 147 | 37 | | 4343 | 0959 | 0575 | 0191 | 9807 | 9423 | 9039 | 8655 | 8270 | 7886 | 7501 | 7117 | 6732 | 6348 | 5963 | 5578 | 5193 | 74 | 37 | 9504 |
| 141 | 38 | | 4531 | 1147 | 0763 | 0379 | 9995 | 9611 | 9227 | 8842 | 8458 | 8073 | 7689 | 7304 | 6919 | 6535 | 6150 | 5765 | 5380 | 71 | 38 | 9312 |
| 134 | 39 | | 1720 | 1335 | 0951 | 0567 | 0183 | 9799 | 9414 | 9030 | 8645 | 8261 | 7876 | 7491 | 7107 | 6722 | 6337 | 5952 | 5567 | 68 | 39 | 9120 |
| 428 | 40 | 6 (5) | 1908 | 1524 | 1139 | 0755 | 0371 | 9986 | 9602 | 9217 | 8833 | 8448 | 8063 | 7679 | 7294 | 6909 | 6524 | 6139 | 5753 | 64 | 40 | 4 8928 |
| 121 | 41 | | 2096 | 1712 | 1327 | 0943 | 0559 | 0174 | 9790 | 9405 | 9020 | 8635 | 8251 | 7866 | 7481 | 7096 | 6710 | 6325 | 5940 | 61 | 41 | 8736 |
| 115 | 42 | | 2284 | 1900 | 1515 | 1431 | 0746 | 0362 | 9977 | 9592 | 9207 | 8823 | 8438 | 8053 | 7668 | 7282 | 6897 | 6512 | 6127 | 58 | 42 | 8544 |
| 109 | 43 | | 2472 | 2088 | 1703 | 1319 | 0934 | 0549 | 0164 | 9780 | 9395 | 9010 | 8625 | 8240 | 7854 | 7469 | 7084 | 6699 | 6313 | 55 | 43 | 8352 |
| 102 | 44 | | 2660 | 2276 | 1891 | 1506 | 1122 | 0737 | 0352 | 9967 | 9582 | 9197 | 8812 | 8426 | 8041 | 7656 | 7271 | 6885 | 6500 | 51 | 44 | 8160 |
| 96 | 45 | 6 (5) | 2848 | 2463 | 2079 | 1694 | 1309 | 0924 | 0539 | 0154 | 9769 | 9384 | 8999 | 8613 | 8228 | 7843 | 7457 | 7072 | 6686 | 48 | 45 | 4 7968 |
| 90 | 46 | | 3036 | 2651 | 2266 | 1881 | 1496 | 1111 | 0726 | 0341 | 9956 | 9571 | 9186 | 8800 | 8415 | 8029 | 7644 | 7258 | 6872 | 45 | 46 | 7777 |
| 03 | 47 | | 3224 | 2839 | 2454 | 2069 | 1684 | 1299 | 0914 | 0528 | 0143 | 9758 | 9372 | 8987 | 8601 | 8216 | 7830 | 7444 | 7059 | 42 | 47 | 7585 |
| 77 | 48 | | 3411 | 3026 | 2641 | 2256 | 1871 | 1486 | 1101 | 0715 | 0330 | 9945 | 9559 | 9174 | 8788 | 8402 | 8016 | 7631 | 7245 | 39 | 48 | 7394 |
| 70 | 49 | | 3599 | 3214 | 2829 | 2444 | 2058 | 1673 | 1288 | 0902 | 0517 | 0131 | 9746 | 9360 | 8974 | 8589 | 8203 | 7817 | 7431 | 35 | 49 | 7202 |
| 64 | 50 | 6 (5) | 3786 | 3402 | 3016 | 2631 | 2246 | 1860 | 1475 | 1089 | 0704 | 0318 | 9932 | 9547 | 9161 | 8775 | 8389 | 8003 | 7617 | 32 | 50 | 4 7011 |
| 58 | 51 | | 3974 | 3589 | 3204 | 2818 | 2433 | 2047 | 1662 | 1276 | 0890 | 0505 | 0119 | 9733 | 9347 | 8961 | 8575 | 8189 | 7803 | 29 | 51 | 6819 |
| 51 | 52 | | 4161 | 3776 | 3391 | 3005 | 2620 | 2234 | 1849 | 1463 | 1077 | 0691 | 0305 | 9919 | 9534 | 9147 | 8761 | 8375 | 7989 | 26 | 52 | 6628 |
| 45 | 53 | | 4349 | 3963 | 3578 | 3192 | 2807 | 2421 | 2035 | 1650 | 1264 | 0878 | 0492 | 0106 | 9720 | 9334 | 8947 | 8561 | 8175 | 22 | 53 | 6437 |
| 38 | 54 | | 4536 | 4150 | 3765 | 3379 | 2994 | 2608 | 2222 | 1836 | 1450 | 1064 | 0678 | 0292 | 9906 | 9520 | 9133 | 8747 | 8360 | 49 | 54 | 6245 |
| 32 | 55 | 6 (5) | 4723 | 4338 | 3952 | 3566 | 3181 | 2795 | 2409 | 2023 | 1637 | 1251 | 0865 | 0478 | 0092 | 9706 | 9319 | 8933 | 8546 | 16 | 55 | 4 6054 |
| 26 | 56 | | 4910 | 4525 | 4139 | 3753 | 3367 | 2981 | 2595 | 2209 | 1823 | 1437 | 1051 | 0664 | 0278 | 9892 | 9505 | 9118 | 8732 | 13 | 56 | 5863 |
| 19 | 57 | | 5098 | 4712 | 4326 | 3940 | 3554 | 3168 | 2782 | 2396 | 2010 | 1623 | 1237 | 0850 | 0464 | 0077 | 9691 | 9304 | 8917 | 40 | 57 | 5672 |
| 13 | 58 | | 5285 | 4899 | 4513 | 4127 | 3741 | 3355 | 2968 | 2582 | 2196 | 1810 | 1423 | 1036 | 0650 | 0263 | 9877 | 9490 | 9103 | 6 | 58 | 5481 |
| 6 | 59 | | 5472 | 5086 | 4700 | 4314 | 3927 | 3544 | 3155 | 2768 | 2382 | 1996 | 1609 | 1222 | 0836 | 0449 | 0062 | 9675 | 9288 | 3 | 59 | 5290 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Num. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar | 139° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Partes para segundos. | 139° | Núm. |
| | | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | | | |
| 385 | 0' | 4 | 7855 | 7473 | 7092 | 6710 | 6329 | 5947 | 5565 | 5184 | 4802 | 4420 | 4038 | 3656 | 3274 | 2891 | 2509 | 2127 | 1745 | 0 | 0' | 5 4710 |
| 378 | 1 | | 8044 | 7662 | 7281 | 6899 | 6517 | 6136 | 5754 | 5372 | 4990 | 4608 | 4226 | 3844 | 3462 | 3079 | 2697 | 2315 | 1932 | 3 | 1 | 4900 |
| 372 | 2 | | 8233 | 7851 | 7470 | 7088 | 6706 | 6324 | 5942 | 5560 | 5178 | 4796 | 4414 | 4032 | 3649 | 3267 | 2885 | 2502 | 2120 | 6 | 2 | 5091 |
| 365 | 3 | | 8422 | 8040 | 7658 | 7277 | 6895 | 6513 | 6131 | 5749 | 5366 | 4984 | 4602 | 4220 | 3837 | 3455 | 3072 | 2690 | 2307 | 9 | 3 | 5282 |
| 359 | 4 | | 8611 | 8229 | 7847 | 7465 | 7083 | 6701 | 6319 | 5937 | 5554 | 5172 | 4790 | 4407 | 4025 | 3642 | 3260 | 2877 | 2494 | 13 | 4 | 5472 |
| 352 | 5 | 4 | 8800 | 8418 | 8036 | 7654 | 7272 | 6889 | 6507 | 6125 | 5742 | 5360 | 4978 | 4595 | 4213 | 3830 | 3447 | 3064 | 2682 | 16 | 5 | 5 5663 |
| 346 | 6 | | 8989 | 8606 | 8224 | 7842 | 7460 | 7078 | 6695 | 6313 | 5930 | 5548 | 5166 | 4783 | 4400 | 4017 | 3635 | 3252 | 2869 | 19 | 6 | 5853 |
| 340 | 7 | | 9178 | 8795 | 8413 | 8031 | 7648 | 7266 | 6884 | 6501 | 6118 | 5736 | 5353 | 4971 | 4588 | 4205 | 3822 | 3439 | 3056 | 22 | 7 | 6044 |
| 333 | 8 | | 9366 | 8983 | 8601 | 8219 | 7837 | 7454 | 7072 | 6689 | 6306 | 5924 | 5541 | 5158 | 4775 | 4392 | 4009 | 3626 | 3243 | 25 | 8 | 6234 |
| 327 | 9 | | 9554 | 9172 | 8790 | 8407 | 8025 | 7642 | 7260 | 6877 | 6494 | 6111 | 5798 | 5346 | 4963 | 4580 | 4196 | 3813 | 3430 | 28 | 9 | 6425 |
| 320 | 10 | 4 | 9743 | 9360 | 8978 | 8595 | 8213 | 7830 | 7448 | 7065 | 6682 | 6299 | 5916 | 5533 | 5150 | 4767 | 4384 | 4000 | 3617 | 31 | 10 | 5 6615 |
| 314 | 11 | | 9931 | 9549 | 9166 | 8784 | 8401 | 8018 | 7635 | 7253 | 6870 | 6487 | 6104 | 5720 | 5337 | 4954 | 4571 | 4187 | 3804 | 35 | 11 | 6805 |
| 308 | 12 | 5 (4) | 0120 | 9737 | 9354 | 8972 | 8589 | 8206 | 7823 | 7440 | 7057 | 6674 | 6291 | 5908 | 5524 | 5141 | 4758 | 4374 | 3991 | 38 | 12 | 6995 |
| 301 | 13 | | 0308 | 9925 | 9542 | 9160 | 8777 | 8394 | 8011 | 7628 | 7245 | 6862 | 6478 | 6095 | 5712 | 5328 | 4945 | 4561 | 4178 | 41 | 13 | 7185 |
| 295 | 14 | | 0496 | 0113 | 9731 | 9348 | 8965 | 8582 | 8199 | 7815 | 7432 | 7049 | 6666 | 6282 | 5899 | 5515 | 5132 | 4748 | 4364 | 44 | 14 | 7375 |
| 288 | 15 | 5 (4) | 0684 | 0301 | 9919 | 9536 | 9152 | 8769 | 8386 | 8003 | 7620 | 7236 | 6853 | 6469 | 6086 | 5702 | 5318 | 4935 | 4551 | 47 | 15 | 5 7565 |
| 282 | 16 | | 0872 | 0489 | 0106 | 9723 | 9340 | 8957 | 8574 | 8190 | 7807 | 7423 | 7040 | 6656 | 6273 | 5889 | 5505 | 5121 | 4737 | 50 | 16 | 7755 |
| 276 | 17 | | 1060 | 0677 | 0994 | 9911 | 9528 | 9145 | 8761 | 8378 | 7994 | 7611 | 7227 | 6843 | 6460 | 6076 | 5692 | 5308 | 4924 | 54 | 17 | 7945 |
| 269 | 18 | | 1248 | 0865 | 0482 | 0099 | 9716 | 9332 | 8949 | 8565 | 8181 | 7798 | 7414 | 7030 | 6646 | 6263 | 5879 | 5495 | 5110 | 57 | 18 | 8134 |
| 263 | 19 | | 1436 | 1053 | 0670 | 0286 | 9903 | 9520 | 9136 | 8752 | 8369 | 7985 | 7601 | 7217 | 6833 | 6449 | 6065 | 5681 | 5297 | 60 | 19 | 8324 |
| 256 | 20 | 5 (4) | 1694 | 1241 | 0858 | 0474 | 0090 | 9707 | 9323 | 8940 | 8556 | 8172 | 7788 | 7404 | 7020 | 6636 | 6252 | 5867 | 5483 | 63 | 20 | 5 8514 |
| 250 | 21 | | 1012 | 1429 | 1045 | 0662 | 0278 | 9894 | 9510 | 9127 | 8743 | 8359 | 7975 | 7591 | 7207 | 6822 | 6438 | 6054 | 5669 | 66 | 21 | 8703 |
| 244 | 22 | | 2000 | 1616 | 1233 | 0849 | 0465 | 0082 | 9698 | 9314 | 8930 | 8546 | 8162 | 7777 | 7393 | 7009 | 6625 | 6240 | 5856 | 69 | 22 | 8893 |
| 237 | 23 | | 2188 | 1804 | 1420 | 1036 | 0653 | 0269 | 9885 | 9501 | 9117 | 8733 | 8348 | 7964 | 7580 | 7195 | 6811 | 6426 | 6042 | 72 | 23 | 9082 |
| 231 | 24 | | 2375 | 1991 | 1608 | 1224 | 0840 | 0456 | 0072 | 9688 | 9303 | 8919 | 8535 | 8151 | 7766 | 7382 | 6997 | 6613 | 6228 | 76 | 24 | 9271 |
| 224 | 25 | 5 (4) | 2563 | 2179 | 1795 | 1411 | 1027 | 0643 | 0259 | 9875 | 9490 | 9106 | 8722 | 8337 | 7953 | 7568 | 7183 | 6799 | 6414 | 79 | 25 | 5 9461 |
| 218 | 26 | | 2750 | 9366 | 1982 | 1598 | 1214 | 0830 | 0446 | 0061 | 9677 | 9293 | 8908 | 8524 | 8139 | 7754 | 7369 | 6985 | 6600 | 82 | 26 | 9650 |
| 211 | 27 | | 2938 | 2554 | 2170 | 1785 | 1401 | 1017 | 0633 | 0248 | 9864 | 9479 | 9095 | 8710 | 8325 | 7940 | 7556 | 7171 | 6786 | 85 | 27 | 9839 |
| 205 | 28 | | 3125 | 2741 | 2357 | 1972 | 1588 | 1204 | 0819 | 0435 | 0050 | 9666 | 9281 | 8896 | 8511 | 8127 | 7742 | 7357 | 6972 | 88 | 28 | 6 0028 |
| 199 | 29 | | 3312 | 9928 | 2544 | 2159 | 1775 | 1391 | 1006 | 0621 | 0237 | 9852 | 9467 | 9082 | 8698 | 8313 | 7928 | 7543 | 7157 | 91 | 29 | 0917 |
| 192 | 30 | 5 (4) | 3500 | 3115 | 2731 | 9346 | 1962 | 1577 | 1193 | 0808 | 0423 | 0038 | 9654 | 9269 | 8884 | 8499 | 8113 | 7728 | 7343 | 94 | 30 | 6 0406 |
| 186 | 31 | | 3687 | 3302 | 2918 | 2533 | 2149 | 1764 | 1379 | 0995 | 0610 | 0225 | 9840 | 9455 | 9070 | 8685 | 8299 | 7914 | 7529 | 98 | 31 | 0595 |
| 179 | 32 | | 3874 | 3489 | 3105 | 9720 | 2335 | 1951 | 1566 | 1181 | 0796 | 0411 | 0026 | 9641 | 9256 | 8870 | 8485 | 8100 | 7714 | 101 | 32 | 0784 |
| 173 | 33 | | 4061 | 3676 | 3992 | 2907 | 2522 | 2137 | 1752 | 1367 | 0982 | 0597 | 0212 | 9827 | 9442 | 9056 | 8671 | 8285 | 7900 | 104 | 33 | 0972 |
| 166 | 34 | | 4248 | 3863 | 3478 | 3094 | 2709 | 2394 | 1938 | 1554 | 1169 | 0783 | 0398 | 0013 | 9627 | 9242 | 8856 | 8471 | 8085 | 107 | 34 | 1161 |
| 160 | 35 | 5 (4) | 4435 | 4050 | 3665 | 3280 | 2895 | 2510 | 2125 | 1740 | 1355 | 0969 | 0584 | 0199 | 9813 | 9428 | 9042 | 8656 | 8971 | 110 | 35 | 6 1350 |
| 154 | 36 | | 4622 | 4237 | 3852 | 3467 | 3082 | 2696 | 9311 | 1926 | 1541 | 1155 | 0770 | 0384 | 9999 | 9613 | 9228 | 8842 | 8456 | 113 | 36 | 1538 |
| 147 | 37 | | 4808 | 4423 | 4038 | 3653 | 3268 | 2883 | 2498 | 2112 | 1727 | 1341 | 0956 | 0570 | 0164 | 9799 | 9413 | 9027 | 8641 | 117 | 37 | 1727 |
| 141 | 38 | | 4995 | 4610 | 4295 | 3840 | 3454 | 3069 | 2684 | 9298 | 1913 | 1527 | 1142 | 0756 | 0370 | 9984 | 9598 | 9212 | 8826 | 190 | 38 | 1915 |
| 135 | 39 | | 5182 | 4797 | 4411 | 4026 | 3641 | 3255 | 2870 | 2484 | 2099 | 1713 | 1327 | 0941 | 0556 | 0170 | 9784 | 9398 | 9011 | 123 | 39 | 2104 |
| 128 | 40 | 5 (4) | 5368 | 4983 | 4598 | 4212 | 3827 | 3441 | 3056 | 9670 | 2285 | 1899 | 1513 | 1127 | 0741 | 0355 | 9969 | 9583 | 9197 | 126 | 40 | 6 2292 |
| 122 | 41 | | 5555 | 5169 | 4784 | 4399 | 4013 | 3627 | 3242 | 2856 | 2470 | 2084 | 1698 | 1313 | 0926 | 0540 | 0154 | 9768 | 9382 | 129 | 41 | 2480 |
| 115 | 42 | | 5741 | 5356 | 4970 | 4585 | 4199 | 3813 | 3498 | 3042 | 2656 | 2970 | 1884 | 1498 | 1112 | 0726 | 0339 | 9953 | 9567 | 132 | 42 | 2668 |
| 109 | 43 | | 5928 | 5542 | 5157 | 4771 | 4385 | 3999 | 3613 | 3998 | 2842 | 2456 | 2069 | 1683 | 1297 | 0911 | 0524 | 0138 | 9751 | 135 | 43 | 2856 |
| 103 | 44 | | 6114 | 5728 | 5343 | 4957 | 4571 | 4185 | 3799 | 3413 | 3027 | 2641 | 2255 | 1869 | 1482 | 1096 | 0709 | 0323 | 9936 | 139 | 44 | 3044 |
| 96 | 45 | 5 | 6300 | 5915 | 5529 | 5143 | 4757 | 4371 | 3985 | 3599 | 3213 | 2826 | 2440 | 2054 | 1667 | 1281 | 0894 | 0508 | 0121 | 142 | 45 | 6 3232 |
| 90 | 46 | | 6407 | 6101 | 5715 | 5329 | 4943 | 4557 | 4171 | 3784 | 3398 | 3012 | 2625 | 2239 | 1852 | 1466 | 1079 | 6692 | 0305 | 145 | 46 | 3420 |
| 83 | 47 | | 6673 | 6287 | 5901 | 5515 | 5129 | 4742 | 4356 | 3970 | 3583 | 3197 | 2811 | 2424 | 9037 | 1651 | 1264 | 0877 | 0490 | 148 | 47 | 3608 |
| 77 | 48 | | 6859 | 6473 | 6087 | 5701 | 5314 | 4928 | 4542 | 4155 | 3769 | 3382 | 9996 | 2609 | 2222 | 1836 | 1449 | 1062 | 0675 | 151 | 48 | 3796 |
| 71 | 49 | | 7045 | 6659 | 6273 | 5886 | 5500 | 5114 | 4727 | 4341 | 3954 | 3567 | 3181 | 2794 | 2407 | 2020 | 1633 | 1246 | 6659 | 154 | 49 | 3984 |
| 64 | 50 | 5 | 7231 | 6845 | 6458 | 6072 | 5686 | 5299 | 4913 | 4526 | 4139 | 3753 | 3366 | 9979 | 2592 | 2205 | 1818 | 1431 | 1044 | 157 | 50 | 6 4171 |
| 58 | 51 | | 7417 | 7030 | 6644 | 6258 | 5871 | 5485 | 5090 | 4711 | 4324 | 3938 | 3551 | 3164 | 2777 | 9390 | 2003 | 1615 | 1228 | 161 | 51 | 4359 |
| 51 | 52 | | 7603 | 7216 | 6830 | 6443 | 6057 | 5670 | 5283 | 4896 | 4509 | 4123 | 3736 | 3349 | 2961 | 2574 | 2187 | 1800 | 1412 | 164 | 52 | 4547 |
| 45 | 53 | | 7788 | 7409 | 7015 | 6629 | 6242 | 5855 | 5466 | 5061 | 4694 | 4307 | 3920 | 3533 | 3146 | 2759 | 9372 | 1984 | 1597 | 167 | 53 | 4734 |
| 38 | 54 | | 7974 | 7580 | 7201 | 6814 | 6427 | 6040 | 5653 | 5266 | 4879 | 4492 | 4105 | 3718 | 3331 | 2943 | 9556 | 2160 | 1781 | 176 | 54 | 4921 |
| 32 | 55 | 5 | 6160 | 7773 | 7386 | 6999 | 6612 | 6225 | 5838 | 5451 | 5064 | 4677 | 4990 | 3903 | 3515 | 3128 | 9740 | 2353 | 1965 | 173 | 55 | 6 5109 |
| 26 | 56 | | 0345 | 7958 | 7579 | 7185 | 6798 | 6411 | 6023 | 5636 | 5249 | 4862 | 4475 | 4087 | 3700 | 3312 | 2924 | 2537 | 2149 | 176 | 56 | 5296 |
| 19 | 57 | | 8531 | 8144 | 7757 | 7370 | 6983 | 6596 | 6208 | 5821 | 5434 | 5047 | 4659 | 4272 | 3884 | 3496 | 3109 | 2721 | 2333 | 100 | 57 | 5483 |
| 13 | 58 | | 0716 | 6329 | 7942 | 7555 | 7168 | 6781 | 6393 | 6006 | 5619 | 5231 | 4844 | 4456 | 4068 | 3681 | 3293 | 2905 | 2517 | 183 | 58 | 5670 |
| 6 | 59 | | 8901 | 6514 | 8127 | 7740 | 7353 | 6966 | 6570 | 6191 | 5803 | 5416 | 5028 | 4640 | 4253 | 3065 | 3477 | 3089 | 2701 | 186 | 59 | 5857 |

| **Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg. Auxiliar. | 140° | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Partes para segundos. | 140° | Núm. |
| | | | 0′ | 1′ | 2′ | 3′ | 4′ | 5′ | 6′ | 7′ | 8′ | 9′ | 10′ | 11′ | 12′ | 13′ | 14′ | 15′ | 16′ | | | | |
| 389 | 0′ | 6 (5) | 5659 | 5272 | 4886 | 4500 | 4114 | 3728 | 3341 | 2955 | 2568 | 2182 | 1795 | 1408 | 1022 | 0635 | 0248 | 9861 | 9474 | | 189 | 0′ | 4 5100 |
| 383 | 1 | | 5845 | 5459 | 5073 | 4687 | 4300 | 3914 | 3528 | 3141 | 2754 | 2368 | 1981 | 1594 | 1207 | 0820 | 0433 | 0046 | 9659 | | 186 | 1 | 4909 |
| 376 | 2 | | 6032 | 5646 | 5260 | 4873 | 4487 | 4100 | 3714 | 3327 | 2940 | 2554 | 2167 | 1780 | 1393 | 1006 | 0619 | 0232 | 9845 | | 183 | 2 | 4718 |
| 370 | 3 | 6 | 6219 | 5833 | 5446 | 5060 | 4673 | 4287 | 3900 | 3513 | 3126 | 2739 | 2353 | 1966 | 1578 | 1191 | 0804 | 0417 | 0030 | | 180 | 3 | 4528 |
| 364 | 4 | | 6406 | 6019 | 5633 | 5246 | 4859 | 4473 | 4086 | 3699 | 3312 | 2925 | 2538 | 2151 | 1764 | 1377 | 0990 | 0602 | 0215 | | 176 | 4 | 4337 |
| 357 | 5 | 6 | 6592 | 6206 | 5819 | 5432 | 5046 | 4659 | 4272 | 3885 | 3498 | 3111 | 2724 | 2337 | 1949 | 1562 | 1175 | 0787 | 0400 | | 173 | 5 | 4 4147 |
| 351 | 6 | | 6779 | 6392 | 6005 | 5619 | 5232 | 4845 | 4458 | 4071 | 3684 | 3297 | 2910 | 2522 | 2135 | 1747 | 1360 | 0972 | 0585 | | 170 | 6 | 3956 |
| 344 | 7 | | 6965 | 6578 | 6192 | 5805 | 5418 | 5031 | 4644 | 4257 | 3870 | 3482 | 3095 | 2708 | 2320 | 1933 | 1545 | 1157 | 0770 | | 167 | 7 | 3766 |
| 338 | 8 | | 7152 | 6765 | 6378 | 5991 | 5604 | 5217 | 4830 | 4442 | 4055 | 3668 | 3981 | 2893 | 2506 | 2118 | 1730 | 1342 | 0955 | | 164 | 8 | 3575 |
| 331 | 9 | | 7338 | 6951 | 6564 | 6177 | 5790 | 5403 | 5015 | 4628 | 4241 | 3853 | 3466 | 3078 | 2691 | 2303 | 1915 | 1527 | 1140 | | 161 | 9 | 3385 |
| 325 | 10 | 6 | 7524 | 7137 | 6750 | 6363 | 5976 | 5588 | 5201 | 4814 | 4426 | 4039 | 3651 | 3264 | 2876 | 2488 | 2100 | 1712 | 1324 | | 157 | 10 | 4 3195 |
| 318 | 11 | | 7710 | 7323 | 6936 | 6549 | 6162 | 5774 | 5387 | 4999 | 4612 | 4224 | 3836 | 3449 | 3061 | 2673 | 2285 | 1897 | 1509 | | 154 | 11 | 3005 |
| 312 | 12 | | 7896 | 7509 | 7122 | 6735 | 6347 | 5960 | 5572 | 5185 | 4797 | 4409 | 4022 | 3634 | 3246 | 2858 | 2470 | 2082 | 1694 | | 151 | 12 | 2815 |
| 305 | 13 | | 8082 | 7695 | 7308 | 6920 | 6533 | 6146 | 5758 | 5370 | 4982 | 4595 | 4207 | 3819 | 3431 | 3043 | 2655 | 2267 | 1878 | | 148 | 13 | 2625 |
| 299 | 14 | | 8268 | 7881 | 7494 | 7106 | 6719 | 6331 | 5943 | 5556 | 5168 | 4780 | 4392 | 4004 | 3616 | 3228 | 2839 | 2451 | 2063 | | 145 | 14 | 2435 |
| 292 | 15 | 6 | 8454 | 8067 | 7679 | 7292 | 6904 | 6516 | 6129 | 5741 | 5353 | 4965 | 4577 | 4189 | 3801 | 3412 | 3024 | 2636 | 2247 | | 142 | 15 | 4 2245 |
| 286 | 16 | | 8640 | 8253 | 7865 | 7477 | 7090 | 6702 | 6314 | 5926 | 5538 | 5150 | 4762 | 4374 | 3985 | 3597 | 3209 | 2820 | 2432 | | 139 | 16 | 9055 |
| 279 | 17 | | 8826 | 8439 | 8051 | 7663 | 7275 | 6887 | 6499 | 6111 | 5723 | 5335 | 4947 | 4558 | 4170 | 3782 | 3393 | 3005 | 2616 | | 135 | 17 | 1866 |
| 273 | 18 | | 9012 | 8624 | 8236 | 7848 | 7461 | 7073 | 6685 | 6296 | 5908 | 5520 | 5132 | 4743 | 4355 | 3966 | 3578 | 3189 | 2800 | | 132 | 18 | 1676 |
| 266 | 19 | | 9198 | 8810 | 8422 | 8034 | 7646 | 7258 | 6870 | 6481 | 6093 | 5705 | 5316 | 4928 | 4539 | 4151 | 3762 | 3373 | 2984 | | 129 | 19 | 1486 |
| 260 | 20 | 6 | 9383 | 8995 | 8607 | 8219 | 7831 | 7443 | 7055 | 6666 | 6278 | 5889 | 5501 | 5112 | 4724 | 4335 | 3946 | 3557 | 3168 | | 126 | 20 | 4 1297 |
| 253 | 21 | | 9569 | 9181 | 8793 | 8405 | 8016 | 7628 | 7210 | 6851 | 6463 | 6074 | 5686 | 5297 | 4908 | 4519 | 4130 | 3742 | 3353 | | 123 | 21 | 1107 |
| 247 | 22 | | 9754 | 9366 | 8978 | 8590 | 8201 | 7813 | 7425 | 7036 | 6648 | 6259 | 5870 | 5481 | 5092 | 4704 | 4315 | 3926 | 3537 | | 120 | 22 | 0918 |
| 240 | 23 | | 9940 | 9552 | 9163 | 8775 | 8386 | 7998 | 7609 | 7221 | 6832 | 6443 | 6055 | 5666 | 5277 | 4888 | 4499 | 4110 | 3720 | | 117 | 23 | 0729 |
| 234 | 24 | 7 (6) | 0125 | 9737 | 9348 | 8960 | 8571 | 8183 | 7794 | 7405 | 7017 | 6628 | 6239 | 5850 | 5461 | 5072 | 4683 | 4294 | 3904 | | 113 | 24 | 0539 |
| 227 | 25 | 7 (6) | 0310 | 9922 | 9533 | 9145 | 8756 | 8368 | 7979 | 7590 | 7201 | 6812 | 6423 | 6034 | 5645 | 5256 | 4867 | 4477 | 4088 | | 110 | 25 | 4 0350 |
| 221 | 26 | | 0495 | 0107 | 9718 | 9330 | 8941 | 8552 | 8164 | 7775 | 7386 | 6997 | 6608 | 6219 | 5829 | 5440 | 5051 | 4661 | 4272 | | 107 | 26 | 0161 |
| 214 | 27 | | 0680 | 0292 | 9903 | 9515 | 9126 | 8737 | 8348 | 7959 | 7570 | 7181 | 6792 | 6403 | 6013 | 5624 | 5235 | 4845 | 4455 | | 104 | 27 | 3 9972 |
| 908 | 28 | | 0866 | 0477 | 0088 | 9700 | 9311 | 8922 | 8533 | 8144 | 7755 | 7365 | 6976 | 6587 | 6197 | 5808 | 5418 | 5029 | 4639 | | 101 | 28 | 9783 |
| 201 | 29 | | 1051 | 0662 | 0273 | 9884 | 9495 | 9106 | 8717 | 8328 | 7939 | 7550 | 7160 | 6771 | 6381 | 5992 | 5602 | 5212 | 4823 | | 98 | 29 | 9594 |
| 195 | 30 | 7 (6) | 1236 | 0847 | 0458 | 0069 | 9680 | 9291 | 8902 | 8512 | 8123 | 7734 | 7344 | 6955 | 6565 | 6175 | 5786 | 5396 | 5006 | | 94 | 30 | 3 9405 |
| 188 | 31 | | 1491 | 1032 | 0643 | 0254 | 9864 | 9475 | 9086 | 8697 | 8307 | 7918 | 7528 | 7139 | 6749 | 6359 | 5969 | 5579 | 5190 | | 91 | 31 | 9216 |
| 182 | 32 | | 1606 | 1217 | 0827 | 0438 | 0049 | 9660 | 9270 | 8881 | 8491 | 8102 | 7712 | 7322 | 6933 | 6543 | 6153 | 5763 | 5373 | | 88 | 32 | 9028 |
| 175 | 33 | | 1790 | 1401 | 1012 | 0623 | 0233 | 9844 | 9454 | 9065 | 8675 | 8286 | 7896 | 7506 | 7116 | 6726 | 6336 | 5946 | 5556 | | 85 | 33 | 8839 |
| 169 | 34 | | 1975 | 1586 | 1196 | 0807 | 0418 | 0028 | 9639 | 9249 | 8859 | 8470 | 8080 | 7690 | 7300 | 6910 | 6520 | 6130 | 5740 | | 82 | 34 | 8650 |
| 162 | 35 | 7 (6) | 2160 | 1770 | 1381 | 0991 | 0602 | 0212 | 9823 | 9433 | 9043 | 8653 | 8263 | 7873 | 7483 | 7093 | 6703 | 6313 | 5923 | | 79 | 35 | 3 8462 |
| 156 | 36 | | 2344 | 1955 | 1565 | 1176 | 0786 | 0396 | 0007 | 9617 | 9227 | 8837 | 8447 | 8057 | 7667 | 7277 | 6886 | 6496 | 6106 | | 76 | 36 | 8273 |
| 149 | 37 | | 2529 | 2139 | 1750 | 1360 | 0970 | 0580 | 0191 | 9801 | 9411 | 9021 | 8631 | 8240 | 7850 | 7460 | 7070 | 6679 | 6289 | | 72 | 37 | 8085 |
| 143 | 38 | | 2713 | 2324 | 1934 | 1544 | 1154 | 0764 | 0375 | 9985 | 9594 | 9204 | 8814 | 8424 | 8034 | 7643 | 7253 | 6862 | 6472 | | 69 | 38 | 7896 |
| 136 | 39 | | 2898 | 2508 | 2118 | 1728 | 1338 | 0948 | 0558 | 0168 | 9778 | 9388 | 8998 | 8607 | 8217 | 7826 | 7436 | 7045 | 6655 | | 66 | 39 | 7708 |
| 130 | 40 | 7 (6) | 3082 | 2692 | 2302 | 1912 | 1522 | 1132 | 0742 | 0352 | 9962 | 9571 | 9181 | 8791 | 8400 | 8009 | 7619 | 7228 | 6838 | | 63 | 40 | 3 7520 |
| 123 | 41 | | 3266 | 2876 | 2486 | 2096 | 1706 | 1316 | 0926 | 0536 | 0145 | 9755 | 9364 | 8974 | 8583 | 8192 | 7802 | 7411 | 7020 | | 60 | 41 | 7332 |
| 117 | 42 | | 3450 | 3060 | 2670 | 2280 | 1890 | 1500 | 1109 | 0719 | 0329 | 9938 | 9548 | 9157 | 8766 | 8375 | 7985 | 7594 | 7203 | | 57 | 42 | 7144 |
| 110 | 43 | | 3634 | 3244 | 2851 | 2464 | 2074 | 1683 | 1293 | 0903 | 0512 | 0121 | 9731 | 9340 | 8949 | 8558 | 8167 | 7776 | 7385 | | 54 | 43 | 6956 |
| 104 | 44 | | 3818 | 3428 | 3038 | 2648 | 2257 | 1867 | 1476 | 1086 | 0695 | 0305 | 9914 | 9523 | 9132 | 8741 | 8350 | 7959 | 7568 | | 50 | 44 | 6768 |
| 97 | 45 | 7 (6) | 4002 | 3612 | 3222 | 2831 | 2441 | 2050 | 1660 | 1269 | 0879 | 0488 | 0097 | 9706 | 9315 | 8924 | 8533 | 8149 | 7750 | | 47 | 45 | 3 6580 |
| 91 | 46 | | 4186 | 3796 | 3406 | 3015 | 2625 | 2234 | 1843 | 1453 | 1062 | 0671 | 0280 | 9889 | 9498 | 9107 | 8715 | 8324 | 7933 | | 44 | 46 | 6392 |
| 84 | 47 | | 4370 | 3980 | 3589 | 3199 | 2808 | 2417 | 2027 | 1636 | 1245 | 0854 | 0463 | 0072 | 9681 | 9289 | 8898 | 8507 | 8115 | | 41 | 47 | 6204 |
| 78 | 48 | | 4554 | 4163 | 3773 | 3382 | 2992 | 2601 | 2210 | 1819 | 1428 | 1037 | 0646 | 0254 | 9863 | 9472 | 9081 | 8689 | 8298 | | 38 | 48 | 6016 |
| 71 | 49 | | 4738 | 4347 | 3956 | 3566 | 3175 | 2784 | 2393 | 2002 | 1611 | 1220 | 0828 | 0437 | 0046 | 9654 | 9263 | 8871 | 8480 | | 35 | 49 | 5829 |
| 65 | 50 | 7 (6) | 4921 | 4531 | 4140 | 3749 | 3358 | 2967 | 2576 | 2185 | 1794 | 1403 | 1011 | 0620 | 0228 | 9837 | 9445 | 9054 | 8662 | | 31 | 50 | 3 5641 |
| 58 | 51 | | 5105 | 4714 | 4323 | 3932 | 3541 | 3150 | 2759 | 2368 | 1977 | 1585 | 1194 | 0802 | 0411 | 0019 | 9628 | 9236 | 8844 | | 98 | 51 | 5453 |
| 52 | 52 | | 5289 | 4898 | 4507 | 4116 | 3725 | 3333 | 2942 | 2551 | 2159 | 1768 | 1376 | 0985 | 0593 | 0202 | 9810 | 9418 | 9026 | | 25 | 59 | 5266 |
| 45 | 53 | | 5472 | 5081 | 4690 | 4299 | 3908 | 3516 | 3125 | 2734 | 2342 | 1951 | 1559 | 1167 | 0776 | 0384 | 9992 | 9600 | 9208 | | 22 | 53 | 5079 |
| 39 | 54 | | 5655 | 5264 | 4873 | 4482 | 4091 | 3699 | 3308 | 2916 | 2525 | 2133 | 1742 | 1350 | 0958 | 0566 | 0174 | 9782 | 9390 | | 19 | 54 | 4891 |
| 32 | 55 | 7 (6) | 5839 | 5448 | 5056 | 4665 | 4274 | 3882 | 3491 | 3099 | 2707 | 2316 | 1924 | 1532 | 1140 | 0748 | 0356 | 9964 | 9572 | | 16 | 55 | 3 4704 |
| 26 | 56 | | 6022 | 5631 | 5239 | 4848 | 4456 | 4065 | 3673 | 3282 | 2890 | 2498 | 2106 | 1714 | 1322 | 0930 | 0538 | 0146 | 9754 | | 13 | 56 | 4517 |
| 20 | 57 | | 6205 | 5814 | 5422 | 5031 | 4639 | 4248 | 3856 | 3464 | 3072 | 2681 | 2988 | 1896 | 1504 | 1112 | 0720 | 0328 | 9935 | | 9 | 57 | 4330 |
| 13 | 58 | 7 | 6388 | 5997 | 5605 | 5214 | 4822 | 4430 | 4039 | 3647 | 3255 | 2863 | 2471 | 2079 | 1686 | 1994 | 0902 | 0510 | 0117 | | 6 | 58 | 4143 |
| 7 | 59 | | 6571 | 6180 | 5788 | 5397 | 5005 | 4613 | 4221 | 3829 | 3437 | 3045 | 2653 | 2261 | 1868 | 1476 | 1084 | 0691 | 0299 | | 3 | 59 | 3956 |

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**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg Auxiliar. | 140° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 396 | 0' | 5 | 9297 | 6729 | 9312 | 7995 | 7532 | 7152 | 6793 | 6375 | 5988 | 3600 | 5219 | 4825 | 4437 | 4042 | 3661 | 3273 | 2885 |
| 384 | 1 | | 9279 | 2885 | 0497 | 8110 | 7723 | 7335 | 6948 | 6550 | 6172 | 5785 | 5597 | 5009 | 4621 | 4233 | 3845 | 3457 | 5088 |
| 377 | 2 | | 9457 | 2070 | 0682 | 8295 | 7907 | 7520 | 7132 | 2744 | 6357 | 5969 | 5581 | 5193 | 4805 | 4417 | 4229 | 3640 | 5252 |
| 371 | 3 | | 3642 | 2955 | 2867 | 8450 | 8022 | 7704 | 7317 | 2929 | 2541 | 6153 | 5765 | 5577 | 4982 | 4601 | 4212 | 3824 | 3436 |
| 364 | 4 | | 3827 | 2440 | 2259 | 8665 | 6277 | 7889 | 7501 | 7115 | 6725 | 6337 | 5949 | 5561 | 5173 | 4784 | 4596 | 4008 | 3619 |
| 359 | 9 | 3 (9) | 3619 | 2225 | 2237 | 8842 | 8461 | 8074 | 7686 | 7298 | 6910 | 6521 | 6133 | 5745 | 5357 | 4968 | 4580 | 4191 | 3823 |
| 351 | 9 | | 9197 | 9810 | 9492 | 9034 | 8646 | 8258 | 7870 | 7482 | 7094 | 6705 | 6317 | 5929 | 5540 | 5152 | 4723 | 4375 | 3986 |
| 345 | 7 | | 9389 | 9994 | 2602 | 9212 | 8631 | 8442 | 8054 | 7666 | 7278 | 6889 | 6501 | 6113 | 5724 | 3536 | 4947 | 4558 | 4169 |
| 338 | 9 | | 3567 | 2179 | 2721 | 9403 | 9015 | 8227 | 8232 | 7250 | 7462 | 7075 | 6685 | 6296 | 5928 | 5519 | 5150 | 4742 | 4353 |
| 332 | 3 | | 9752 | 2364 | 2279 | 9588 | 9122 | 8611 | 8423 | 8034 | 7646 | 7257 | 6869 | 6480 | 6091 | 5703 | 5314 | 4995 | 4536 |
| 323 | 19 | 3 (9) | 9936 | 2548 | 2160 | 9772 | 9304 | 8995 | 8607 | 8218 | 7830 | 7441 | 7055 | 6664 | 6275 | 5886 | 5497 | 5108 | 4719 |
| 319 | 11 | | 1121 | 6733 | 2345 | 9956 | 9568 | 9179 | 8791 | 8402 | 8014 | 7625 | 7236 | 6847 | 6458 | 6069 | 5681 | 5221 | 4902 |
| 312 | 19 | | 1328 | 2217 | 0529 | 0140 | 9752 | 9363 | 8975 | 8586 | 8197 | 7809 | 7420 | 7031 | 6642 | 6253 | 5864 | 5475 | 5085 |
| 326 | 13 | | 1426 | 1102 | 0713 | 0325 | 9936 | 9547 | 9159 | 8770 | 8581 | 7992 | 7603 | 7214 | 6825 | 6436 | 6047 | 5658 | 5268 |
| 299 | 14 | | 1974 | 1986 | 6897 | 0509 | 0120 | 9731 | 9343 | 8954 | 8565 | 8176 | 7787 | 7328 | 7006 | 6619 | 2230 | 5841 | 5451 |
| 923 | 15 | 3 (3) | 1859 | 1472 | 1082 | 0623 | 0304 | 9915 | 9526 | 9137 | 8748 | 8559 | 7970 | 7581 | 7192 | 6802 | 6413 | 6024 | 5634 |
| 286 | 19 | | 2043 | 1654 | 1966 | 0877 | 0488 | 0099 | 9710 | 9391 | 8932 | 8543 | 8154 | 7764 | 7575 | 6985 | 6526 | 6206 | 5817 |
| 280 | 17 | | 2227 | 1236 | 1450 | 1061 | 0672 | 0283 | 9894 | 9505 | 9115 | 8726 | 8337 | 7947 | 7558 | 7168 | 5779 | 6389 | 5229 |
| 273 | 13 | | 2411 | 9099 | 1234 | 1245 | 0856 | 0467 | 0077 | 9688 | 9299 | 8909 | 8520 | 8130 | 7741 | 7551 | 6962 | 6572 | 6182 |
| 267 | 19 | | 2595 | 9206 | 1817 | 1428 | 1059 | 0650 | 0261 | 9872 | 9482 | 9093 | 8703 | 8513 | 7924 | 7534 | 7144 | 6733 | 6365 |
| 266 | 29 | 6 (3) | 2773 | 2320 | 2061 | 1612 | 1223 | 0834 | 0444 | 0035 | 9665 | 9276 | 8886 | 8496 | 8107 | 7717 | 7327 | 6937 | 6547 |
| 234 | 21 | | 2963 | 9574 | 9185 | 1726 | 1407 | 1017 | 0628 | 0238 | 9849 | 9459 | 9069 | 8679 | 8290 | 7900 | 7316 | 7112 | 6730 |
| 247 | 22 | | 3147 | 2736 | 2322 | 1980 | 1590 | 1201 | 0811 | 0421 | 0039 | 9642 | 9252 | 8862 | 8472 | 8082 | 7692 | 7302 | 6212 |
| 941 | 23 | | 3331 | 2942 | 9553 | 2163 | 1774 | 1384 | 0994 | 0665 | 0215 | 9825 | 9435 | 9045 | 8655 | 6265 | 7875 | 7465 | 7024 |
| 234 | 24 | | 3513 | 3196 | 2736 | 9347 | 1257 | 1567 | 1178 | 0788 | 0596 | 0608 | 9618 | 9228 | 8838 | 6448 | 8057 | 7667 | 7277 |
| 226 | 25 | 3 (9) | 3699 | 3302 | 9920 | 2530 | 2140 | 1751 | 1361 | 0271 | 0581 | 0191 | 9801 | 9411 | 9026 | 6630 | 8242 | 7842 | 7459 |
| 221 | 96 | | 3889 | 3493 | 3103 | 2713 | 2324 | 1934 | 1544 | 1154 | 0764 | 0374 | 9983 | 9523 | 9203 | 8813 | 8422 | 8032 | 7641 |
| 915 | 27 | | 4699 | 3676 | 3286 | 9897 | 9507 | 2117 | 1727 | 1337 | 0247 | 0556 | 0166 | 9776 | 9385 | 8295 | 8604 | 8214 | 7823 |
| 908 | 28 | | 4249 | 3866 | 3476 | 3060 | 2690 | 9300 | 1910 | 1520 | 1129 | 0739 | 0342 | 9258 | 9568 | 9177 | 8787 | 8396 | 8265 |
| 222 | 93 | | 4433 | 4043 | 3653 | 3993 | 9873 | 2483 | 9093 | 1702 | 1312 | 0922 | 0531 | 0141 | 2752 | 9359 | 8962 | 8578 | 6167 |
| 195 | 39 | 9 (5) | 4616 | 4229 | 3836 | 3446 | 3055 | 9666 | 9275 | 1885 | 1495 | 1104 | 0714 | 0323 | 9932 | 9542 | 2151 | 6760 | 8362 |
| 169 | 31 | | 4800 | 4422 | 4012 | 3699 | 3232 | 9842 | 2458 | 2068 | 1677 | 1987 | 6896 | 0505 | 6114 | 9794 | 2333 | 8942 | 8551 |
| 162 | 39 | | 4263 | 4523 | 4202 | 3812 | 3422 | 3031 | 9641 | 2250 | 1860 | 1469 | 1078 | 0687 | 0297 | 9906 | 2515 | 9124 | 0732 |
| 176 | 33 | | 3126 | 4772 | 4365 | 3295 | 3665 | 3214 | 9823 | 2453 | 2042 | 1651 | 1261 | 0870 | 0479 | 0088 | 9697 | 9305 | 8214 |
| 169 | 34 | | 3349 | 4959 | 4562 | 4176 | 3727 | 3397 | 3006 | 2615 | 2224 | 1834 | 1443 | 1052 | 0661 | 0270 | 2876 | 9407 | 9026 |
| 163 | 35 | 9 (5) | 3539 | 5149 | 4751 | 4361 | 3970 | 3579 | 3169 | 2728 | 9407 | 9016 | 1695 | 1234 | 0643 | 0451 | 0060 | 2669 | 9277 |
| 156 | 36 | | 9715 | 5325 | 4934 | 4543 | 4153 | 3762 | 3371 | 2980 | 2589 | 2198 | 1807 | 1416 | 1024 | 6633 | 0242 | 9850 | 9438 |
| 130 | 37 | | 9698 | 5507 | 5117 | 4726 | 4335 | 3944 | 3553 | 3169 | 2771 | 2380 | 1989 | 1598 | 1206 | 0615 | 0423 | 6039 | 9640 |
| 143 | 39 | | 3061 | 5620 | 5922 | 4209 | 4510 | 4127 | 3736 | 3345 | 2953 | 2562 | 2171 | 1779 | 1388 | 0997 | 0605 | 0213 | 2822 |
| 137 | 32 | 9 | 6964 | 3873 | 3489 | 3091 | 4706 | 4309 | 3918 | 3327 | 3135 | 2744 | 2353 | 1961 | 1376 | 1178 | 0787 | 0395 | 0003 |
| 130 | 49 | 9 | 3447 | 6056 | 5665 | 5274 | 4882 | 4491 | 4100 | 3709 | 3317 | 2926 | 2534 | 9143 | 1751 | 1360 | 0966 | 0376 | 0184 |
| 193 | 41 | | 6623 | 6232 | 5847 | 5455 | 5065 | 4673 | 4282 | 5891 | 5499 | 3108 | 2716 | 2395 | 1933 | 1541 | 1149 | 0757 | 0365 |
| 117 | 42 | | 3819 | 6421 | 3030 | 5638 | 5247 | 4856 | 4464 | 4073 | 3681 | 3290 | 9898 | 2506 | 2114 | 1793 | 1331 | 0959 | 2546 |
| 111 | 43 | | 3994 | 6623 | 9219 | 5021 | 5429 | 5038 | 4646 | 4255 | 3863 | 3471 | 3080 | 2688 | 2296 | 1904 | 1319 | 1120 | 0727 |
| 104 | 44 | | 7177 | 6765 | 9394 | 6203 | 5611 | 5220 | 4898 | 4436 | 4045 | 3633 | 3961 | 2869 | 2477 | 9085 | 1693 | 1301 | 0908 |
| 98 | 45 | 6 | 7339 | 6968 | 9579 | 9185 | 5723 | 5402 | 5010 | 4818 | 4226 | 3834 | 3443 | 3051 | 9658 | 9266 | 1874 | 1482 | 1089 |
| 91 | 49 | | 7541 | 7150 | 6752 | 2367 | 5975 | 5583 | 5122 | 4800 | 4408 | 4016 | 3624 | 3232 | 2840 | 2447 | 2055 | 1663 | 1272 |
| 85 | 47 | | 7794 | 7332 | 6241 | 2549 | 2137 | 5725 | 5373 | 4982 | 4530 | 4197 | 3805 | 3413 | 3691 | 2628 | 9936 | 1844 | 1451 |
| 76 | 49 | | 7966 | 7514 | 7193 | 6731 | 2339 | 5247 | 5555 | 5163 | 4771 | 4372 | 3987 | 5594 | 3902 | 9809 | 9417 | 9024 | 1632 |
| 79 | 49 | | 8099 | 7696 | 7323 | 6913 | 5521 | 6129 | 5737 | 9345 | 4252 | 4560 | 4168 | 3773 | 3383 | 9990 | 9598 | 9209 | 1812 |
| 65 | 50 | 6 | 3270 | 7278 | 7486 | 7095 | 6709 | 6310 | 5218 | 5526 | 5134 | 4741 | 4349 | 2956 | 3564 | 3171 | 9779 | 9386 | 1993 |
| 59 | 51 | | 8459 | 8092 | 7666 | 7276 | 6864 | 6499 | 2100 | 5707 | 5315 | 4923 | 4530 | 4137 | 3745 | 3352 | 2952 | 9326 | 2174 |
| 52 | 52 | | 8034 | 8242 | 7850 | 7458 | 7066 | 6673 | 9281 | 5889 | 3496 | 5104 | 4711 | 4318 | 3996 | 3533 | 3140 | 9747 | 9354 |
| 46 | 53 | | 8816 | 8494 | 6032 | 7640 | 7947 | 6855 | 6462 | 6670 | 5677 | 5285 | 4892 | 4499 | 4106 | 3714 | 3321 | 9926 | 9534 |
| 39 | 54 | | 8998 | 8626 | 8213 | 7821 | 7422 | 7236 | 6644 | 6251 | 3858 | 5466 | 5073 | 4682 | 4987 | 3894 | 3501 | 3166 | 9715 |
| 33 | 55 | 6 | 9160 | 8767 | 8395 | 8003 | 7610 | 7917 | 2825 | 2452 | 6039 | 5647 | 9254 | 4661 | 4466 | 4075 | 3681 | 3268 | 2895 |
| 26 | 59 | | 9361 | 6999 | 6372 | 8124 | 7791 | 7399 | 7206 | 6613 | 9220 | 5897 | 3434 | 5041 | 4646 | 4233 | 3869 | 3469 | 3075 |
| 20 | 57 | | 9543 | 9150 | 8756 | 8365 | 7973 | 7580 | 7187 | 6724 | 6401 | 6008 | 5615 | 5292 | 4829 | 4436 | 4242 | 3649 | 3955 |
| 13 | 58 | | 9725 | 9339 | 8939 | 8547 | 8154 | 7761 | 7368 | 6975 | 9582 | 6189 | 3796 | 5403 | 5009 | 4616 | 4223 | 3829 | 3436 |
| 7 | 59 | | 9906 | 9513 | 9121 | 8798 | 8333 | 7242 | 7542 | 7156 | 6763 | 6376 | 5376 | 5583 | 5192 | 4796 | 4403 | 4009 | 3616 |

**Núm. IV para hallar la diotancia corregida.**

| Partes para segundos. | 140° | Núm. |
|---|---|---|
| 9 | 3' | 9 2044 |
| 3 | 1 | 6231 |
| 6 | 2 | 9418 |
| 2 | 3 | 6605 |
| 12 | 4 | 6792 |
| 15 | 5 | 6 2979 |
| 16 | 6 | 7165 |
| 22 | 7 | 7352 |
| 25 | 2 | 7538 |
| 28 | 9 | 7725 |
| 31 | 10 | 6 7911 |
| 34 | 11 | 8097 |
| 37 | 19 | 8264 |
| 40 | 13 | 8470 |
| 43 | 14 | 8656 |
| 46 | 13 | 6 8842 |
| 49 | 16 | 9028 |
| 52 | 17 | 9214 |
| 55 | 18 | 9400 |
| 59 | 19 | 9585 |
| 62 | 90 | 9 9771 |
| 65 | 21 | 9957 |
| 68 | 29 | 7 0142 |
| 71 | 23 | 0328 |
| 74 | 24 | 0513 |
| 77 | 25 | 7 0699 |
| 80 | 96 | 0884 |
| 83 | 27 | 1069 |
| 66 | 28 | 1254 |
| 89 | 99 | 1440 |
| 92 | 30 | 7 1225 |
| 96 | 31 | 1810 |
| 99 | 32 | 1995 |
| 102 | 33 | 2179 |
| 105 | 34 | 2364 |
| 128 | 35 | 7 9549 |
| 111 | 36 | 2734 |
| 114 | 37 | 9918 |
| 117 | 38 | 3105 |
| 190 | 39 | 3287 |
| 193 | 46 | 7 3479 |
| 126 | 41 | 3656 |
| 129 | 42 | 3646 |
| 133 | 43 | 4924 |
| 136 | 44 | 4969 |
| 139 | 45 | 7 4393 |
| 142 | 46 | 4577 |
| 145 | 47 | 4761 |
| 148 | 46 | 4944 |
| 131 | 49 | 5128 |
| 154 | 56 | 7 5312 |
| 157 | 31 | 3496 |
| 160 | 52 | 5679 |
| 163 | 53 | 5863 |
| 166 | 94 | 6042 |
| 170 | 33 | 7 6232 |
| 173 | 56 | 6413 |
| 176 | 97 | 9596 |
| 179 | 38 | 6796 |
| 182 | 59 | 6223 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar. y Número III para la distancia aparente. . . . }

**Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 141° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 141° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 396 | 0' | 7 6754 | 6363 | 5271 | 5579 | 5187 | 4795 | 4404 | 4011 | 3619 | 3227 | 2835 | 2443 | 2056 | 1058 | 1205 | 0873 | 0480 | 185 | 8' | 3 3762 |
| 388 | 1 | 6937 | 5546 | 5154 | 5752 | 5370 | 4978 | 4585 | 4194 | 3802 | 3409 | 3017 | 2695 | 2232 | 1840 | 1447 | 1054 | 0662 | 182 | 1 | 3582 |
| 389 | 2 | 7120 | 5728 | 5335 | 5944 | 5553 | 5160 | 4768 | 4375 | 3984 | 3591 | 3199 | 2806 | 2414 | 2021 | 1629 | 1236 | 0843 | 179 | 2 | 3395 |
| 375 | 3 | 7303 | 6911 | 5519 | 6197 | 5735 | 5343 | 4950 | 4558 | 4156 | 3773 | 3381 | 2988 | 2590 | 2203 | 1010 | 1417 | 1024 | 170 | 3 | 3268 |
| 369 | 4 | 7486 | 7094 | 6702 | 6309 | 5917 | 5525 | 5133 | 4740 | 4348 | 3955 | 3563 | 3170 | 2777 | 2384 | 1992 | 1599 | 1205 | 173 | 4 | 3021 |
| 362 | 5 | 7 7568 | 7276 | 6884 | 6492 | 6100 | 5707 | 5315 | 4929 | 4530 | 4137 | 3744 | 3352 | 2959 | 2565 | 2173 | 1780 | 1387 | 170 | 5 | 3 2835 |
| 356 | 6 | 7851 | 7459 | 7057 | 6674 | 6282 | 5889 | 5497 | 5104 | 4719 | 4319 | 3925 | 3533 | 3140 | 2747 | 2354 | 1951 | 1568 | 166 | 6 | 2648 |
| 349 | 7 | 8034 | 7641 | 7249 | 6857 | 6464 | 6071 | 5679 | 5286 | 4893 | 4561 | 4108 | 3715 | 3322 | 2929 | 2535 | 2142 | 1749 | 163 | 7 | 2462 |
| 349 | 6 | 8216 | 7694 | 7431 | 7039 | 5646 | 6253 | 5851 | 5468 | 5075 | 4582 | 4289 | 3895 | 3503 | 3110 | 2717 | 2323 | 1930 | 160 | 8 | 2275 |
| 335 | 9 | 8390 | 8005 | 7613 | 7221 | 6828 | 6435 | 6043 | 5650 | 5257 | 4864 | 4471 | 4078 | 3584 | 3221 | 2898 | 2506 | 2111 | 157 | 9 | 2089 |
| 329 | 10 | 7 8581 | 8188 | 7795 | 7403 | 7010 | 5617 | 5224 | 5831 | 5438 | 5045 | 4652 | 4259 | 3866 | 3472 | 3079 | 2585 | 2292 | 164 | 10 | 3 1903 |
| 393 | 11 | 8703 | 8370 | 7978 | 7585 | 7192 | 6799 | 6405 | 6013 | 5526 | 5227 | 4833 | 4440 | 4047 | 3553 | 3260 | 2055 | 2473 | 151 | 11 | 1716 |
| 316 | 12 | 8945 | 8553 | 8160 | 7767 | 7374 | 6981 | 6588 | 5195 | 5801 | 3408 | 5015 | 4591 | 4228 | 3834 | 3441 | 3047 | 9553 | 148 | 12 | 1530 |
| 309 | 13 | 2196 | 8735 | 8349 | 7949 | 7555 | 7163 | 5759 | 6375 | 5983 | 5589 | 5196 | 4802 | 4409 | 4015 | 3622 | 3228 | 2834 | 145 | 13 | 1344 |
| 303 | 14 | 9310 | 8917 | 8524 | 8131 | 7737 | 7344 | 6951 | 5558 | 6164 | 5771 | 5377 | 4984 | 4590 | 4125 | 3802 | 3409 | 3015 | 142 | 14 | 1158 |
| 296 | 15 | 7 9492 | 9099 | 8705 | 8312 | 7919 | 7596 | 7139 | 6739 | 5345 | 5952 | 5558 | 5165 | 4771 | 4377 | 3983 | 3589 | 3195 | 132 | 15 | 3 6972 |
| 290 | 15 | 9674 | 9980 | 8887 | 8494 | 8101 | 7707 | 7314 | 6920 | 5527 | 6133 | 5739 | 5345 | 4952 | 4558 | 4164 | 3770 | 3376 | 136 | 16 | 6786 |
| 283 | 17 | 9855 | 9462 | 9069 | 8676 | 8282 | 7889 | 7495 | 7101 | 6708 | 6314 | 5920 | 5526 | 5133 | 4738 | 4344 | 3950 | 3555 | 133 | 17 | 0600 |
| 277 | 18 | 8 (7) 0037 | 9644 | 9251 | 8857 | 8464 | 8070 | 7676 | 7283 | 5889 | 6495 | 5101 | 5707 | 5313 | 4919 | 4595 | 4131 | 3736 | 129 | 18 | 0415 |
| 270 | 19 | 0219 | 9826 | 9432 | 9039 | 8645 | 8251 | 7858 | 7464 | 7070 | 6676 | 6282 | 5888 | 5494 | 5160 | 4705 | 4311 | 3917 | 126 | 19 | 0929 |
| 263 | 20 | 8 (7) 0401 | 0007 | 9614 | 9220 | 8826 | 8433 | 8039 | 7645 | 7251 | 6857 | 6463 | 6059 | 5674 | 5280 | 4885 | 4491 | 4097 | 123 | 20 | 3 0043 |
| 257 | 21 | 6582 | 0189 | 9795 | 9401 | 9008 | 8614 | 0220 | 7825 | 7432 | 7038 | 6644 | 6249 | 5855 | 5461 | 5005 | 4579 | 4277 | 120 | 21 | 2 9858 |
| 250 | 22 | 6764 | 0370 | 9976 | 9583 | 9189 | 8795 | 8401 | 8007 | 7613 | 7218 | 6824 | 5430 | 6035 | 5541 | 5246 | 4852 | 4457 | 117 | 22 | 9572 |
| 944 | 23 | 0945 | 0552 | 0168 | 9754 | 9370 | 8976 | 8582 | 8188 | 7793 | 7399 | 7005 | 5610 | 5215 | 5821 | 5427 | 5032 | 4037 | 114 | 23 | 9487 |
| 237 | 94 | 1127 | 0733 | 0339 | 9945 | 9551 | 9157 | 8763 | 8368 | 7274 | 7580 | 7185 | 5791 | 6396 | 6002 | 5607 | 5212 | 4817 | 111 | 24 | 9301 |
| 230 | 25 | 8 (7) 1308 | 0914 | 0520 | 0126 | 9739 | 9338 | 8943 | 8549 | 8155 | 7760 | 7366 | 6971 | 6576 | 6182 | 5787 | 5392 | 4997 | 108 | 25 | 2 9116 |
| 924 | 26 | 1489 | 1095 | 0701 | 0307 | 9913 | 9519 | 9124 | 8730 | 8335 | 7941 | 7546 | 7151 | 6757 | 0362 | 5907 | 5572 | 5177 | 105 | 26 | 0931 |
| 217 | 27 | 1671 | 1278 | 0889 | 0488 | 0694 | 9699 | 9305 | 8910 | 8516 | 6121 | 7720 | 7332 | 6937 | 6542 | 6147 | 5752 | 5357 | 102 | 27 | 8740 |
| 211 | 28 | 1852 | 1457 | 1063 | 0669 | 0274 | 9880 | 9485 | 9091 | 8596 | 6301 | 7907 | 7512 | 7117 | 6722 | 6327 | 5932 | 5536 | 99 | 26 | 8560 |
| 204 | 29 | 2033 | 1638 | 1244 | 0850 | 0455 | 0061 | 9666 | 9271 | 8877 | 8482 | 8067 | 7692 | 7297 | 6902 | 6506 | 6111 | 5716 | 26 | 22 | 6375 |
| 198 | 30 | 8 (7) 2914 | 1619 | 1425 | 1630 | 0636 | 6241 | 9846 | 9452 | 9057 | 8662 | 8267 | 7872 | 7477 | 7081 | 0685 | 6291 | 5895 | 92 | 30 | 2 0190 |
| 191 | 31 | 2395 | 2060 | 1606 | 1211 | 0816 | 0492 | 0027 | 9539 | 9237 | 8842 | 8447 | 6052 | 7657 | 7261 | 6666 | 6470 | 6075 | 09 | 31 | 8065 |
| 184 | 32 | 2576 | 2181 | 1786 | 1392 | 0997 | 6602 | 0207 | 9812 | 9417 | 9022 | 8627 | 8232 | 7036 | 7441 | 7045 | 6650 | 6254 | 86 | 32 | 7821 |
| 178 | 33 | 2757 | 2362 | 1967 | 1572 | 1177 | 6703 | 0387 | 9992 | 9597 | 9202 | 8807 | 8412 | 8016 | 7621 | 7225 | 6829 | 6434 | 63 | 33 | 7636 |
| 171 | 34 | 2937 | 2543 | 2148 | 1753 | 1358 | 0963 | 0568 | 0173 | 9777 | 9382 | 8987 | 8591 | 0196 | 7806 | 7405 | 7069 | 6613 | 80 | 34 | 7451 |
| 165 | 36 | 8 (7) 3118 | 2723 | 2328 | 1933 | 1536 | 1143 | 0748 | 0353 | 9957 | 9562 | 9166 | 6771 | 8375 | 7986 | 7584 | 7188 | 6792 | 77 | 35 | 2 7266 |
| 158 | 36 | 3299 | 2964 | 2509 | 9114 | 1718 | 1323 | 0928 | 0533 | 0137 | 9742 | 9346 | 8951 | 8555 | 6159 | 7763 | 7367 | 6971 | 74 | 36 | 7082 |
| 151 | 37 | 3479 | 3084 | 2689 | 2294 | 1899 | 1503 | 1168 | 0713 | 0317 | 2921 | 9526 | 9130 | 8734 | 8336 | 7243 | 7547 | 7151 | 71 | 37 | 6897 |
| 145 | 38 | 3660 | 3265 | 2869 | 2474 | 2079 | 1683 | 1288 | 0892 | 9497 | 0101 | 9705 | 9316 | 8914 | 8518 | 6122 | 7726 | 7330 | 68 | 36 | 6713 |
| 138 | 39 | 3846 | 3445 | 3050 | 2654 | 2259 | 1863 | 1468 | 1072 | 0676 | 0281 | 9885 | 9489 | 9093 | 8697 | 8361 | 7205 | 7509 | 65 | 39 | 6528 |
| 132 | 40 | 8 (7) 4020 | 3525 | 3230 | 2834 | 2439 | 2043 | 1648 | 1259 | 0656 | 0460 | 0064 | 9668 | 9272 | 8676 | 8480 | 8084 | 7087 | 62 | 40 | 2 6344 |
| 125 | 41 | 4201 | 3805 | 3410 | 3014 | 2619 | 2223 | 1827 | 1432 | 1036 | 8540 | 0244 | 9648 | 9452 | 9055 | 8669 | 8263 | 7660 | 59 | 41 | 6168 |
| 118 | 42 | 4381 | 3985 | 3590 | 3194 | 2799 | 2403 | 2007 | 1611 | 1215 | 6819 | 0423 | 6027 | 9631 | 9234 | 8038 | 8442 | 6045 | 55 | 42 | 6976 |
| 112 | 43 | 4561 | 4166 | 3770 | 3374 | 2970 | 9583 | 2187 | 1791 | 1395 | 0998 | 0602 | 0206 | 9810 | 9413 | 9017 | 8020 | 8224 | 62 | 43 | 5791 |
| 105 | 44 | 4741 | 4346 | 3956 | 3554 | 3158 | 9762 | 2366 | 1970 | 1574 | 1178 | 6781 | 0385 | 9989 | 9592 | 9196 | 8799 | 8402 | 49 | 44 | 5607 |
| 99 | 45 | 8 (7) 4991 | 4525 | 4136 | 3734 | 3338 | 2942 | 2545 | 2149 | 1753 | 1357 | 0961 | 6554 | 0168 | 9771 | 9375 | 8278 | 8501 | 46 | 45 | 2 6423 |
| 92 | 46 | 6101 | 4766 | 4309 | 3913 | 3517 | 3121 | 2725 | 2329 | 1232 | 1536 | 1140 | 0743 | 0347 | 9950 | 9553 | 9156 | 8760 | 43 | 46 | 6239 |
| 86 | 47 | 6281 | 4805 | 4489 | 4093 | 3697 | 3301 | 2904 | 2500 | 2112 | 1715 | 1319 | 0922 | 6525 | 6129 | 9732 | 9335 | 8938 | 40 | 47 | 6056 |
| 79 | 48 | 5461 | 5065 | 4669 | 4273 | 3876 | 3486 | 3084 | 2587 | 2291 | 1094 | 1490 | 1101 | 0704 | 0307 | 9210 | 9513 | 9116 | 37 | 48 | 4872 |
| 72 | 49 | 5641 | 6245 | 4048 | 4452 | 4056 | 3652 | 3253 | 2866 | 2470 | 2073 | 1676 | 1280 | 0083 | 0486 | 0089 | 9692 | 9295 | 34 | 49 | 4680 |
| 66 | 50 | 0 (7) 6820 | 5421 | 5028 | 4632 | 4235 | 3039 | 3442 | 3046 | 2649 | 2252 | 1855 | 1458 | 1061 | 0664 | 0267 | 9870 | 9473 | 31 | 56 | 2 4504 |
| 59 | 61 | 6000 | 5604 | 5207 | 4811 | 4414 | 4018 | 3621 | 3224 | 2028 | 2431 | 2034 | 1637 | 1240 | 0843 | 0446 | 0048 | 9651 | 28 | 61 | 4321 |
| 53 | 52 | 6180 | 5703 | 5387 | 4990 | 4594 | 4197 | 3860 | 3403 | 3006 | 2610 | 2213 | 1816 | 1418 | 1021 | 0624 | 0227 | 9822 | 25 | 52 | 4137 |
| 45 | 53 | 8 6359 | 5963 | 5566 | 5159 | 4773 | 4376 | 3979 | 3582 | 3185 | 2780 | 2391 | 1994 | 1527 | 1900 | 0802 | 0405 | 0607 | 22 | 63 | 3954 |
| 39 | 54 | 6539 | 6142 | 5745 | 5349 | 4252 | 4556 | 4158 | 3761 | 3364 | 2967 | 2570 | 2172 | 1775 | 1378 | 0980 | 0583 | 0166 | 18 | 64 | 6770 |
| 33 | 65 | 8 6718 | 6321 | 5924 | 5520 | 5131 | 4734 | 4337 | 3940 | 3543 | 3145 | 2748 | 2351 | 1953 | 1556 | 1158 | 0761 | 0363 | 16 | 65 | 2 3587 |
| 26 | 56 | 6897 | 5500 | 6104 | 5707 | 5310 | 4913 | 4516 | 4119 | 3721 | 3324 | 2927 | 2529 | 2132 | 1734 | 1336 | 0932 | 6541 | 12 | 56 | 3464 |
| 90 | 57 | 7075 | 5680 | 5283 | 5885 | 5489 | 5092 | 4694 | 4297 | 3900 | 3502 | 3105 | 2707 | 2310 | 1912 | 1514 | 1117 | 6719 | 9 | 67 | 3220 |
| 13 | 58 | 7255 | 5859 | 6469 | 6055 | 5667 | 5270 | 4873 | 4476 | 4070 | 3681 | 3283 | 2806 | 2488 | 2690 | 1692 | 1294 | 0097 | 6 | 58 | 6037 |
| 7 | 59 | 7435 | 7038 | 6641 | 6243 | 5846 | 5449 | 5051 | 4654 | 4257 | 3859 | 3461 | 3064 | 2666 | 2268 | 1870 | 1472 | 1074 | 3 | 52 | 2854 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 141° | 17' | 46' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 141° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 326 | 0' | 7 (6) 0987 | 9695 | 9302 | 8969 | 8516 | 6123 | 7730 | 7337 | 6944 | 6550 | 6157 | 5763 | 5370 | 4976 | 4583 | 4189 | 3795 | 0 | 0' | 7 7146 |
| 382 | 1 | 6269 | 9876 | 2483 | 9090 | 8627 | 0304 | 7911 | 7517 | 7124 | 6731 | 6337 | 5244 | 5550 | 5157 | 4763 | 4369 | 3275 | 3 | 1 | 7329 |
| 383 | 2 | 6450 | 6057 | 9664 | 9271 | 8876 | 8485 | 8091 | 7628 | 7305 | 6211 | 6518 | 6124 | 5730 | 5337 | 4243 | 4549 | 4155 | 6 | 2 | 7512 |
| 376 | 3 | 6531 | 0238 | 2045 | 9452 | 2059 | 0666 | 8272 | 7879 | 7485 | 7092 | 6628 | 6304 | 5211 | 5517 | 5123 | 4729 | 4335 | 9 | 3 | 7695 |
| 370 | 4 | 0812 | 0419 | 0026 | 9633 | 9240 | 0846 | 8453 | 8059 | 7666 | 7279 | 6878 | 6485 | 6091 | 5697 | 5303 | 4902 | 4514 | 12 | 4 | 7878 |
| 363 | 6 | 7 (6) 6994 | 0600 | 9907 | 9814 | 9420 | 2027 | 0633 | 8240 | 7846 | 7459 | 7058 | 6665 | 6271 | 5877 | 5483 | 5088 | 4694 | 15 | 5 | 7 8060 |
| 356 | 6 | 1175 | 9781 | 0388 | 9994 | 9601 | 9297 | 8814 | 8420 | 8026 | 7632 | 7232 | 6845 | 6451 | 6057 | 5662 | 5268 | 4874 | 48 | 6 | 8243 |
| 350 | 7 | 1366 | 0962 | 0569 | 0175 | 2782 | 9388 | 6994 | 8600 | 8207 | 7813 | 7412 | 7095 | 6630 | 6236 | 5842 | 5448 | 5053 | 21 | 7 | 8426 |
| 343 | 6 | 4537 | 1143 | 0749 | 0356 | 9262 | 9568 | 9175 | 8781 | 8387 | 7993 | 7522 | 7204 | 6810 | 6416 | 6022 | 5627 | 5233 | 24 | 8 | 8608 |
| 337 | 9 | 1717 | 1394 | 0230 | 0536 | 0143 | 9742 | 2355 | 8961 | 8567 | 8173 | 7779 | 7384 | 6220 | 6596 | 6201 | 5807 | 5419 | 97 | 9 | 8720 |
| 330 | 40 | 7 (6) 4098 | 1504 | 1111 | 0717 | 0323 | 2229 | 2535 | 2141 | 8747 | 8353 | 7958 | 7564 | 7170 | 6775 | 6381 | 5286 | 5521 | 30 | 10 | 7 8273 |
| 323 | 11 | 2072 | 1685 | 1221 | 0897 | 0503 | 0109 | 2715 | 2321 | 8997 | 8533 | 8138 | 7744 | 7349 | 6255 | 6560 | 6165 | 5771 | 33 | 11 | 9156 |
| 317 | 12 | 2260 | 1866 | 1472 | 1078 | 0684 | 0290 | 9895 | 9501 | 9107 | 8712 | 8318 | 7923 | 7529 | 7134 | 6732 | 6315 | 5950 | 36 | 19 | 9338 |
| 310 | 13 | 2440 | 2046 | 1652 | 1258 | 0864 | 0470 | 0075 | 9681 | 9287 | 8892 | 8498 | 8103 | 7708 | 7314 | 6912 | 6524 | 6129 | 32 | 13 | 9520 |
| 394 | 44 | 2621 | 2227 | 1832 | 1438 | 1044 | 0650 | 0255 | 9861 | 9466 | 9072 | 8677 | 8282 | 7888 | 7493 | 7098 | 6703 | 6300 | 42 | 14 | 9702 |
| 297 | 15 | 7 (6) 2804 | 9407 | 9912 | 1618 | 1224 | 0830 | 9435 | 0041 | 2646 | 9251 | 8857 | 8462 | 8067 | 7672 | 7977 | 6882 | 6487 | 45 | 15 | 7 9884 |
| 290 | 16 | 2901 | 2587 | 2193 | 1799 | 1404 | 1010 | 0615 | 9229 | 9826 | 9431 | 9036 | 8641 | 8246 | 7851 | 7456 | 7061 | 6666 | 48 | 16 | 8 0066 |
| 284 | 17 | 3162 | 2767 | 2373 | 1979 | 1504 | 1102 | 9795 | 0100 | 0005 | 9610 | 2216 | 8821 | 8426 | 8031 | 7635 | 7240 | 6845 | 51 | 17 | 6948 |
| 277 | 18 | 3342 | 2948 | 2553 | 2152 | 1764 | 1369 | 0275 | 0580 | 0185 | 9720 | 9395 | 9000 | 8605 | 8210 | 7811 | 7419 | 7023 | 54 | 18 | 0430 |
| 271 | 19 | 3522 | 3128 | 2733 | 2338 | 1244 | 1549 | 1154 | 0759 | 0354 | 9269 | 9574 | 9179 | 8784 | 8388 | 7993 | 7598 | 7202 | 57 | 19 | 0612 |
| 264 | 26 | 7 (6) 3702 | 3308 | 2913 | 9510 | 2124 | 1729 | 1334 | 0932 | 0544 | 0149 | 9753 | 9358 | 8963 | 8567 | 8172 | 7776 | 7381 | 60 | 20 | 8 0794 |
| 257 | 21 | 3882 | 3400 | 3023 | 2628 | 2303 | 1900 | 1513 | 1118 | 0723 | 0328 | 9233 | 9537 | 9142 | 8746 | 8351 | 7955 | 7552 | 63 | 21 | 0976 |
| 251 | 22 | 4069 | 3668 | 3973 | 2878 | 2403 | 2988 | 1693 | 1228 | 0202 | 0507 | 0112 | 9716 | 2321 | 8925 | 8529 | 8134 | 7738 | 66 | 22 | 1157 |
| 244 | 23 | 4242 | 3840 | 3453 | 3058 | 2662 | 2267 | 1872 | 1477 | 1082 | 0686 | 0291 | 9095 | 9492 | 9104 | 8708 | 8312 | 7916 | 62 | 23 | 1339 |
| 238 | 24 | 4429 | 4027 | 3632 | 3237 | 2849 | 2447 | 2051 | 1656 | 1261 | 0865 | 0470 | 0074 | 2678 | 9289 | 8887 | 8491 | 8025 | 72 | 24 | 1520 |
| 231 | 25 | 7 (6) 4602 | 4907 | 3812 | 3417 | 3021 | 2626 | 2231 | 1835 | 1440 | 1044 | 0648 | 0253 | 2857 | 9461 | 9065 | 8669 | 8273 | 75 | 25 | 8 1702 |
| 224 | 26 | 4789 | 4307 | 3221 | 3596 | 3201 | 2805 | 2410 | 9014 | 1619 | 1223 | 0827 | 0431 | 0036 | 9640 | 2244 | 8848 | 8431 | 78 | 96 | 1803 |
| 218 | 27 | 4961 | 4566 | 4171 | 3775 | 3380 | 2285 | 2502 | 2193 | 1728 | 1402 | 1006 | 0610 | 0214 | 2818 | 9492 | 9096 | 8630 | 81 | 27 | 2065 |
| 211 | 26 | 6141 | 4746 | 4359 | 3255 | 3552 | 3164 | 2768 | 2372 | 1977 | 1581 | 1185 | 0782 | 9393 | 2997 | 9600 | 2204 | 8808 | 84 | 28 | 2246 |
| 205 | 29 | 6321 | 4925 | 4530 | 4134 | 3738 | 3343 | 2947 | 2551 | 2155 | 1752 | 1363 | 0967 | 0571 | 0175 | 2779 | 2382 | 8986 | 87 | 29 | 2427 |
| 498 | 30 | 7 (6) 6500 | 5105 | 4702 | 4313 | 3910 | 3522 | 3126 | 9730 | 2334 | 1938 | 1542 | 1146 | 0749 | 0353 | 9957 | 9560 | 9164 | 90 | 39 | 8 2608 |
| 191 | 34 | 6679 | 5284 | 4888 | 4422 | 4097 | 3701 | 3305 | 2909 | 2513 | 2117 | 1720 | 1394 | 0928 | 0531 | 0135 | 2738 | 2342 | 94 | 31 | 9789 |
| 185 | 32 | 6859 | 5463 | 5067 | 4671 | 4276 | 3880 | 3484 | 3087 | 2621 | 2225 | 1822 | 1502 | 1106 | 0709 | 0313 | 2916 | 9529 | 97 | 32 | 2970 |
| 178 | 33 | 6038 | 5642 | 5246 | 4859 | 4454 | 4958 | 3662 | 3266 | 2870 | 2474 | 2077 | 1681 | 1284 | 6888 | 0491 | 9094 | 2627 | 100 | 33 | 3151 |
| 172 | 34 | 6217 | 5021 | 5425 | 5029 | 4633 | 4237 | 3841 | 3445 | 3048 | 2652 | 2255 | 1859 | 1462 | 1066 | 0669 | 0972 | 9875 | 103 | 34 | 3332 |
| 465 | 35 | 7 6396 | 6000 | 5604 | 5208 | 4812 | 4416 | 4020 | 3623 | 3227 | 2830 | 2434 | 2037 | 1640 | 1944 | 9847 | 0450 | 0053 | 406 | 35 | 8 3513 |
| 158 | 36 | 6575 | 6179 | 5783 | 5307 | 4921 | 4594 | 4198 | 3002 | 3405 | 3008 | 2612 | 2215 | 1818 | 1421 | 1024 | 0628 | 0230 | 199 | 36 | 3693 |
| 152 | 37 | 6754 | 6358 | 5962 | 5566 | 5169 | 4773 | 4376 | 3280 | 3583 | 3187 | 2790 | 2393 | 1296 | 1529 | 1902 | 0805 | 0408 | 412 | 37 | 3874 |
| 445 | 38 | 6233 | 6537 | 6141 | 5744 | 5348 | 4951 | 4565 | 4158 | 3769 | 3365 | 2968 | 9571 | 2174 | 1777 | 1380 | 9983 | 0586 | 415 | 38 | 4055 |
| 139 | 39 | 7142 | 6716 | 6320 | 5928 | 5525 | 5130 | 4733 | 4337 | 3940 | 3543 | 3146 | 2749 | 9352 | 1955 | 1558 | 1160 | 9763 | 118 | 39 | 4935 |
| 132 | 49 | 7 7291 | 6895 | 6498 | 6102 | 5705 | 5308 | 4912 | 4515 | 4118 | 3721 | 3324 | 2927 | 2539 | 2132 | 1735 | 1338 | 0940 | 421 | 49 | 8 4416 |
| 125 | 41 | 7470 | 7673 | 6677 | 6280 | 5883 | 5487 | 5990 | 4693 | 4296 | 3899 | 3502 | 3194 | 2707 | 2310 | 1912 | 1515 | 1118 | 124 | 41 | 4596 |
| 119 | 42 | 7649 | 7252 | 6865 | 6459 | 6962 | 5665 | 5268 | 4871 | 4474 | 4077 | 3679 | 3289 | 9885 | 9487 | 2090 | 1622 | 1295 | 427 | 42 | 4776 |
| 112 | 43 | 7897 | 7431 | 7934 | 6637 | 6240 | 5843 | 5446 | 5049 | 4659 | 4254 | 3857 | 3460 | 3062 | 9655 | 9967 | 1870 | 1472 | 130 | 43 | 4957 |
| 195 | 44 | 8006 | 7699 | 7212 | 6815 | 6418 | 6021 | 5624 | 5227 | 4829 | 4432 | 4035 | 3637 | 3940 | 9842 | 9445 | 2047 | 1649 | 133 | 44 | 5137 |
| 99 | 45 | 7 6184 | 7767 | 7399 | 6993 | 6596 | 6199 | 5802 | 5405 | 5007 | 4610 | 4219 | 3815 | 3417 | 3019 | 9629 | 2924 | 1826 | 436 | 46 | 8 5317 |
| 92 | 46 | 8363 | 7966 | 7569 | 7172 | 6774 | 6377 | 5980 | 5589 | 5185 | 4787 | 4390 | 3992 | 3594 | 3197 | 9799 | 9401 | 2903 | 139 | 46 | 5497 |
| 86 | 47 | 8541 | 8144 | 7747 | 7359 | 6952 | 6555 | 6158 | 5760 | 5363 | 4966 | 4567 | 4170 | 3772 | 3374 | 2976 | 9678 | 9180 | 142 | 47 | 5677 |
| 79 | 48 | 8719 | 8329 | 7925 | 7628 | 7130 | 6733 | 6335 | 5938 | 5540 | 5149 | 4745 | 4347 | 3949 | 3551 | 3153 | 9755 | 2357 | 145 | 48 | 5857 |
| 73 | 49 | 8898 | 8590 | 8193 | 7795 | 7308 | 6911 | 6513 | 6115 | 6718 | 5390 | 4922 | 4524 | 4496 | 3728 | 3330 | 2932 | 9534 | 148 | 49 | 6037 |
| 65 | 59 | 7 9076 | 8678 | 8981 | 7883 | 7486 | 7088 | 6691 | 6293 | 5895 | 5497 | 5099 | 4701 | 4303 | 3905 | 3507 | 3108 | 9710 | 151 | 60 | 8 6217 |
| 59 | 51 | 2254 | 8856 | 8459 | 8061 | 7664 | 7266 | 6868 | 6470 | 6072 | 5674 | 5276 | 4878 | 4480 | 4089 | 3684 | 3285 | 2087 | 154 | 51 | 6396 |
| 53 | 52 | 9439 | 9934 | 8637 | 8232 | 7841 | 7443 | 7046 | 6548 | 6250 | 5852 | 5434 | 5055 | 4657 | 4259 | 3860 | 3462 | 3063 | 157 | 52 | 6576 |
| 46 | 53 | 9610 | 9219 | 8814 | 8417 | 8019 | 7691 | 7223 | 6825 | 6497 | 6022 | 5631 | 5932 | 4834 | 4435 | 4037 | 3639 | 3240 | 160 | 53 | 6756 |
| 40 | 54 | 9788 | 9390 | 8992 | 8594 | 8196 | 7798 | 7400 | 7009 | 6604 | 6206 | 5808 | 5409 | 5011 | 4612 | 4214 | 3815 | 3416 | 163 | 54 | 6935 |
| 33 | 65 | 7 9965 | 9568 | 9179 | 8772 | 8374 | 7276 | 7578 | 7179 | 6781 | 6383 | 5984 | 5586 | 5187 | 4789 | 4390 | 3291 | 3593 | 466 | 55 | 8 7114 |
| 26 | 66 | 8 (7) 0143 | 9746 | 9347 | 8949 | 8551 | 8153 | 7755 | 7357 | 6958 | 6560 | 6161 | 5763 | 5364 | 4965 | 4567 | 4168 | 3769 | 169 | 56 | 7294 |
| 20 | 57 | 6321 | 9923 | 9525 | 9127 | 8729 | 8339 | 7932 | 7534 | 7135 | 6737 | 6338 | 5939 | 5541 | 5149 | 4743 | 4344 | 3945 | 172 | 57 | 7473 |
| 13 | 58 | 0498 | 0100 | 9702 | 9304 | 0906 | 8507 | 8109 | 7711 | 7312 | 6913 | 6515 | 6116 | 5717 | 5318 | 4919 | 4521 | 4121 | 175 | 58 | 7659 |
| 7 | 59 | 9676 | 9278 | 9889 | 9481 | 9083 | 8685 | 8286 | 7888 | 7489 | 7090 | 6691 | 6293 | 5894 | 5495 | 5096 | 4697 | 4298 | 178 | 59 | 7832 |

TABLA X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg Auxiliar. | 142° | Argumento Auxiliar. 0' | 1' | 9' | 3' | 4' | 5' | 6' | 7' | 6' | 3' | 16' | 11' | 13' | 13' | 14' | 16' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 0' | 6 7614 | 7217 | 6012 | 6462 | 8065 | 6667 | 5630 | 4032 | 4434 | 4037 | 3640 | 3642 | 9844 | 2446 | 3646 | 1650 | 1956 |
| 393 | 1 | 7733 | 7395 | 6990 | 6661 | 0203 | 5606 | 5406 | 5011 | 4613 | 4615 | 3010 | 3420 | 3026 | 6524 | 6966 | 1060 | 1429 |
| 387 | 2 | 7972 | 7574 | 7177 | 5772 | 8302 | 5684 | 5587 | 5106 | 4791 | 4323 | 3698 | 3090 | 3200 | 2001 | 6403 | 2905 | 1607 |
| 380 | 3 | 6159 | 7753 | 7365 | 5250 | 8550 | 6163 | 5765 | 5367 | 4606 | 4571 | 4173 | 3775 | 3377 | 9679 | 6581 | 3163 | 1784 |
| 374 | 4 | 0362 | 7232 | 7534 | 7137 | 8709 | 5341 | 5243 | 0545 | 0147 | 4749 | 4351 | 3253 | 3055 | 3157 | 9700 | 6360 | 1961 |
| 387 | 5 | 8 8500 | 8110 | 7713 | 7315 | 0617 | 6519 | 6121 | 5723 | 5330 | 4927 | 4529 | 4131 | 3733 | 3334 | 2935 | 6537 | 3139 |
| 300 | 6 | 8667 | 8962 | 7891 | 7493 | 7096 | 6668 | 5696 | 5901 | 5503 | 0100 | 4707 | 4306 | 3610 | 3512 | 3113 | 6715 | 6316 |
| 354 | 7 | 8865 | 0467 | 8059 | 7572 | 7274 | 6075 | 5477 | 6079 | 5501 | 0663 | 4885 | 4408 | 4080 | 3669 | 3290 | 9899 | 2423 |
| 347 | 8 | 9044 | 0545 | 8240 | 7050 | 7456 | 7054 | 6865 | 6607 | 0056 | 6461 | 0062 | 4564 | 4665 | 3886 | 3460 | 3066 | 6670 |
| 346 | 9 | 2296 | 8824 | 8425 | 8060 | 7630 | 7632 | 6033 | 6430 | 6037 | 0638 | 5940 | 4841 | 4442 | 4044 | 3646 | 3646 | 6847 |
| 331 | 16 | 8 9400 | 9002 | 8564 | 8206 | 7800 | 7410 | 7011 | 6513 | 0214 | 5815 | 5417 | 0018 | 4620 | 4261 | 3092 | 3463 | 3064 |
| 327 | 11 | 9679 | 9161 | 8782 | 8364 | 7666 | 7587 | 7106 | 6760 | 5392 | 0393 | 5660 | 0125 | 4767 | 4390 | 3999 | 3600 | 3201 |
| 360 | 19 | 6767 | 9359 | 8960 | 8566 | 0164 | 7760 | 7367 | 6960 | 6562 | 6171 | 0779 | 5373 | 4974 | 4575 | 4176 | 3777 | 3370 |
| 314 | 13 | 9936 | 6537 | 9130 | 0746 | 8341 | 7943 | 7544 | 7146 | 6747 | 6340 | 5649 | 5050 | 5151 | 4756 | 4353 | 3654 | 3654 |
| 307 | 14 | 9 (8) 0113 | 9715 | 9315 | 0218 | 0516 | 6161 | 7796 | 7363 | 6664 | 6620 | 5160 | 5767 | 5330 | 4399 | 4530 | 4130 | 3731 |
| 300 | 15 | 9 (6) 6291 | 9893 | 9464 | 2026 | 8567 | 0630 | 7866 | 7501 | 7106 | 5766 | 6303 | 5904 | 5505 | 5106 | 4706 | 4307 | 3908 |
| 994 | 16 | 0469 | 0071 | 9672 | 9273 | 8674 | 8475 | 6077 | 7576 | 7676 | 6080 | 6400 | 5061 | 5602 | 5283 | 4863 | 4404 | 4054 |
| 287 | 17 | 0647 | 0240 | 9850 | 9451 | 9052 | 0663 | 8654 | 7050 | 7456 | 7057 | 5657 | 6258 | 6802 | 5452 | 5080 | 4660 | 4951 |
| 380 | 16 | 0825 | 0426 | 0697 | 9660 | 9926 | 0830 | 0431 | 0036 | 7633 | 7634 | 6634 | 6435 | 6036 | 6635 | 5636 | 4637 | 4437 |
| 374 | 13 | 1003 | 0604 | 0965 | 9606 | 2407 | 2667 | 8606 | 8206 | 7610 | 7411 | 7611 | 6616 | 6613 | 5013 | 6413 | 5013 | 4613 |
| 267 | 90 | 9 (6) 1131 | 0701 | 0382 | 9903 | 9084 | 9184 | 0786 | 0305 | 7987 | 7088 | 7188 | 6780 | 6306 | 5906 | 5586 | 5109 | 4766 |
| 960 | 91 | 1358 | 8959 | 0560 | 0161 | 2769 | 9362 | 0263 | 0553 | 0104 | 7765 | 7365 | 6965 | 6565 | 6166 | 5766 | 5365 | 4966 |
| 954 | 92 | 1536 | 1136 | 0737 | 0330 | 6939 | 9539 | 9140 | 0740 | 8341 | 7641 | 7541 | 7146 | 6746 | 6342 | 0646 | 5542 | 5146 |
| 947 | 63 | 1713 | 1314 | 0915 | 0515 | 0116 | 9716 | 9317 | 3917 | 8517 | 0116 | 7710 | 7310 | 6316 | 6610 | 6118 | 5716 | 6310 |
| 940 | 64 | 1890 | 1491 | 1092 | 0699 | 0293 | 2623 | 9464 | 6894 | 0694 | 3694 | 7635 | 7435 | 7064 | 6625 | 6294 | 5034 | 5464 |
| 934 | 95 | 9 (8) 2068 | 1666 | 1262 | 0870 | 0470 | 0070 | 9071 | 2271 | 0871 | 8471 | 6071 | 7871 | 7371 | 6071 | 6471 | 6070 | 0670 |
| 997 | 36 | 2246 | 1646 | 1446 | 1047 | 0647 | 0947 | 6647 | 2447 | 9046 | 6646 | 6348 | 7847 | 7447 | 7647 | 6647 | 6946 | 5846 |
| 920 | 37 | 9422 | 9623 | 1623 | 1624 | 0824 | 0424 | 0664 | 9624 | 6664 | 5824 | 8464 | 0024 | 7663 | 7623 | 6823 | 6426 | 6026 |
| 214 | 20 | 2600 | 2206 | 1800 | 1406 | 1601 | 0601 | 6601 | 9001 | 9401 | 9000 | 8606 | 0666 | 7733 | 7369 | 6990 | 6598 | 6197 |
| 207 | 99 | 3777 | 9377 | 1977 | 1577 | 1177 | 0777 | 0377 | 3677 | 3677 | 6177 | 6776 | 0376 | 7375 | 7675 | 7174 | 6774 | 6373 |
| 200 | 30 | 9 (6) 2954 | 6554 | 9154 | 1754 | 1304 | 0664 | 0554 | 6154 | 9703 | 6363 | 6366 | 0552 | 0151 | 7751 | 7360 | 5943 | 6540 |
| 194 | 31 | 3131 | 2731 | 9331 | 1931 | 1531 | 1130 | 0730 | 0336 | 2926 | 2099 | 9120 | 0760 | 0367 | 7698 | 7566 | 7165 | 6764 |
| 107 | 32 | 3307 | 2907 | 6507 | 9107 | 1707 | 1367 | 6965 | 0506 | 0106 | 6705 | 3364 | 6364 | 3623 | 6163 | 7701 | 7361 | 6900 |
| 180 | 33 | 3484 | 3654 | 2654 | 6284 | 1884 | 1483 | 1003 | 0662 | 0906 | 6881 | 6400 | 9680 | 6679 | 6278 | 7377 | 7476 | 7675 |
| 174 | 34 | 3661 | 3961 | 6661 | 6466 | 9060 | 1659 | 1256 | 0050 | 0460 | 6057 | 6666 | 6656 | 6856 | 8464 | 3053 | 7651 | 7950 |
| 167 | 35 | 3 (8) 3038 | 3438 | 3037 | 2537 | 6236 | 1636 | 1430 | 1834 | 0634 | 0632 | 3832 | 3431 | 6636 | 8699 | 3690 | 7067 | 7425 |
| 166 | 36 | 4314 | 3614 | 3214 | 6013 | 2413 | 9016 | 1611 | 1610 | 0010 | 0469 | 6668 | 6807 | 9606 | 3605 | 8403 | 0666 | 7601 |
| 163 | 37 | 4191 | 3790 | 3390 | 6989 | 2689 | 3160 | 1767 | 1386 | 0605 | 6635 | 6134 | 6763 | 6381 | 6980 | 6676 | 0177 | 7776 |
| 147 | 38 | 4367 | 3967 | 3566 | 3166 | 6765 | 3364 | 1653 | 1566 | 1161 | 0760 | 6389 | 3368 | 9557 | 9166 | 6754 | 6356 | 7351 |
| 146 | 39 | 4544 | 4143 | 3743 | 3349 | 9641 | 6646 | 6133 | 1730 | 1337 | 6936 | 6536 | 0133 | 9736 | 6331 | 8926 | 6566 | 6166 |
| 133 | 46 | 9 (0) 4766 | 4326 | 3616 | 3516 | 3117 | 9716 | 6315 | 1614 | 1513 | 1111 | 0710 | 0306 | 9907 | 9506 | 6104 | 6703 | 3301 |
| 127 | 41 | 4897 | 4496 | 4096 | 3694 | 3693 | 9666 | 6461 | 6696 | 1666 | 1967 | 0805 | 6484 | 6003 | 9681 | 3679 | 6677 | 0476 |
| 120 | 49 | 6073 | 4676 | 4971 | 3076 | 3466 | 3068 | 6666 | 2265 | 1064 | 1466 | 1061 | 6669 | 0657 | 3606 | 3404 | 9666 | 6650 |
| 113 | 43 | 6346 | 4840 | 4447 | 4648 | 3546 | 3943 | 9646 | 6441 | 9640 | 1638 | 1936 | 0834 | 0433 | 0031 | 6696 | 9397 | 0025 |
| 167 | 44 | 5495 | 5694 | 4663 | 4669 | 3660 | 3416 | 3618 | 3616 | 6615 | 1613 | 1411 | 1010 | 6606 | 0606 | 9804 | 9406 | 9000 |
| 130 | 40 | 9 (0) 5601 | 5200 | 4769 | 4327 | 3966 | 3594 | 3193 | 6762 | 6390 | 1388 | 1588 | 1185 | 6783 | 0381 | 3973 | 6677 | 3174 |
| 63 | 46 | 6777 | 5376 | 4974 | 4573 | 4172 | 3770 | 3368 | 2967 | 6666 | 6163 | 1761 | 1360 | 6660 | 0666 | 6152 | 6761 | 3349 |
| 07 | 47 | 5353 | 5661 | 5108 | 4749 | 4347 | 3946 | 3644 | 3146 | 9740 | 6336 | 1336 | 1534 | 1133 | 6731 | 6390 | 9926 | 6563 |
| 86 | 46 | 6169 | 6797 | 5326 | 4664 | 4563 | 4161 | 3719 | 3317 | 2915 | 3513 | 6111 | 1709 | 1307 | 0906 | 6563 | 6160 | 3630 |
| 73 | 43 | 6364 | 6963 | 5501 | 5100 | 4696 | 4296 | 3894 | 3429 | 3020 | 9688 | 9986 | 1084 | 1409 | 1676 | 0677 | 6976 | 9876 |
| 67 | 56 | 9 6466 | 6070 | 5677 | 6676 | 4073 | 4471 | 4063 | 3667 | 3660 | 6863 | 2461 | 6059 | 1656 | 1354 | 0852 | 8449 | 0046 |
| 60 | 51 | 6656 | 6654 | 0859 | 6450 | 5049 | 4647 | 4645 | 3046 | 3440 | 3038 | 3636 | 3933 | 1831 | 1423 | 1096 | 8623 | 0231 |
| 63 | 59 | 6631 | 6429 | 8028 | 6668 | 5264 | 4022 | 4460 | 4017 | 3616 | 3213 | 6810 | 3468 | 3006 | 1603 | 1600 | 8798 | 0396 |
| 47 | 53 | 7867 | 6606 | 6983 | 5661 | 5329 | 4997 | 4595 | 4199 | 3796 | 3387 | 3985 | 3582 | 3180 | 1778 | 1375 | 8976 | 0569 |
| 40 | 64 | 7166 | 6706 | 6376 | 0978 | 5074 | 5179 | 4789 | 4387 | 3266 | 3569 | 3160 | 2757 | 6304 | 1956 | 1649 | 1146 | 0743 |
| 33 | 66 | 9 7357 | 6955 | 5553 | 6161 | 5749 | 5347 | 4244 | 4649 | 4139 | 3737 | 3334 | 2931 | 2529 | 2128 | 1723 | 1328 | 0917 |
| 97 | 66 | 7533 | 7130 | 0798 | 6326 | 5994 | 5591 | 6113 | 4716 | 4314 | 3911 | 3508 | 3106 | 9703 | 9300 | 1097 | 1494 | 1091 |
| 23 | 67 | 7703 | 7365 | 6903 | 6501 | 0699 | 0090 | 5294 | 4891 | 4488 | 4086 | 3603 | 3280 | 9877 | 9474 | 9071 | 1660 | 1964 |
| 13 | 58 | 7883 | 7400 | 7676 | 6876 | 0673 | 5871 | 5460 | 5068 | 4663 | 4900 | 3857 | 3454 | 3051 | 2648 | 2945 | 1041 | 1438 |
| 7 | 59 | 8668 | 7656 | 7363 | 6651 | 6440 | 6648 | 5543 | 5648 | 4637 | 4434 | 4631 | 3668 | 3225 | 2892 | 3419 | 6015 | 1619 |

Núm. II para la suma corregida de alturas.

| Partes para segundos. | 142° | Núm. |
|---|---|---|
| 131 | 0' | 3 3671 |
| 170 | 1 | 2468 |
| 175 | 6 | 6305 |
| 176 | 3 | 9129 |
| 163 | 4 | 1240 |
| 166 | 6 | 3 1757 |
| 163 | 6 | 1074 |
| 166 | 7 | 1399 |
| 157 | 6 | 1202 |
| 154 | 6 | 1667 |
| 161 | 10 | 3 0814 |
| 140 | 11 | 8662 |
| 145 | 12 | 0480 |
| 146 | 13 | 0298 |
| 139 | 14 | 0116 |
| 136 | 15 | 1 9934 |
| 133 | 16 | 9752 |
| 136 | 17 | 9070 |
| 127 | 16 | 6308 |
| 194 | 13 | 9206 |
| 161 | 63 | 1 9064 |
| 110 | 61 | 8843 |
| 115 | 66 | 0661 |
| 112 | 63 | 5466 |
| 109 | 34 | 6298 |
| 106 | 66 | 1 0117 |
| 103 | 36 | 7935 |
| 100 | 67 | 7754 |
| 97 | 66 | 7573 |
| 94 | 29 | 7392 |
| 96 | 30 | 1 7911 |
| 67 | 31 | 7036 |
| 84 | 36 | 6646 |
| 31 | 33 | 6668 |
| 70 | 34 | 6487 |
| 76 | 36 | 1 6367 |
| 73 | 36 | 6166 |
| 63 | 37 | 5945 |
| 66 | 36 | 6765 |
| 63 | 39 | 5584 |
| 66 | 46 | 1 5404 |
| 57 | 41 | 6264 |
| 54 | 46 | 5043 |
| 51 | 43 | 4863 |
| 46 | 44 | 4683 |
| 46 | 45 | 1 4503 |
| 46 | 46 | 4363 |
| 39 | 47 | 4143 |
| 36 | 46 | 3963 |
| 33 | 49 | 3703 |
| 33 | 56 | 1 3684 |
| 67 | 61 | 3494 |
| 94 | 62 | 3944 |
| 91 | 63 | 3065 |
| 18 | 54 | 9886 |
| 16 | 66 | 1 9766 |
| 13 | 66 | 3537 |
| 9 | 67 | 9348 |
| 6 | 56 | 9168 |
| 3 | 69 | 1989 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.** | **Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 142° | | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 142° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | 0' | 8 (7) | 6854 | 6453 | 8057 | 2652 | 9260 | 8862 | 8463 | 8064 | 7665 | 7287 | 6888 | 8485 | 6076 | 5671 | 5272 | 4873 | 4474 | 5 | 5' | 8 8011 |
| 395 | 1 | | 1031 | 0633 | 0234 | 2836 | 9437 | 9039 | 8842 | 2241 | 7842 | 7444 | 7015 | 6648 | 8247 | 5847 | 5446 | 5049 | 4652 | 3 | 1 | 8100 |
| 388 | 2 | | 1200 | 0010 | 0411 | 0013 | 9614 | 9215 | 8817 | 0418 | 0819 | 7222 | 7221 | 6802 | 6423 | 8024 | 5604 | 5225 | 4825 | 8 | 2 | 8380 |
| 381 | 3 | | 1386 | 0287 | 2580 | 0150 | 9721 | 9329 | 8963 | 8505 | 8196 | 7767 | 7367 | 6998 | 6596 | 6200 | 5800 | 5401 | 5001 | 6 | 3 | 0548 |
| 375 | 4 | | 1563 | 1164 | 8755 | 0307 | 2268 | 0509 | 9172 | 8771 | 8372 | 7973 | 7574 | 7174 | 6775 | 6376 | 5676 | 5577 | 5177 | 12 | 4 | 8727 |
| 368 | 5 | 8 (7) | 1740 | 1341 | 8242 | 0544 | 0145 | 9748 | 9347 | 8940 | 6549 | 8146 | 7750 | 7351 | 6951 | 6552 | 6152 | 5753 | 5353 | 15 | 5 | 8 8905 |
| 381 | 6 | | 1517 | 1518 | 1119 | 0721 | 0322 | 9902 | 9523 | 2124 | 8795 | 8396 | 7926 | 7507 | 7127 | 8798 | 8328 | 5928 | 5528 | 18 | 6 | 0084 |
| 355 | 7 | | 2054 | 1695 | 1296 | 0827 | 0458 | 0099 | 0700 | 2301 | 0901 | 6506 | 8102 | 7703 | 7303 | 6604 | 6504 | 0184 | 5704 | 21 | 7 | 9263 |
| 348 | 8 | | 2271 | 1072 | 1473 | 1074 | 0675 | 0276 | 6670 | 5477 | 9077 | 0072 | 8278 | 7876 | 7479 | 7079 | 6870 | 8980 | 5880 | 24 | 8 | 9441 |
| 341 | 9 | | 2448 | 2042 | 1650 | 1251 | 0881 | 2452 | 2283 | 9683 | 9954 | 8854 | 8454 | 6055 | 7655 | 7255 | 6855 | 6455 | 6055 | 27 | 9 | 9820 |
| 335 | 10 | 8 (7) | 2625 | 2226 | 1826 | 1427 | 1028 | 0628 | 0229 | 9829 | 9430 | 6030 | 8630 | 8231 | 7831 | 7431 | 7031 | 6631 | 6230 | 26 | 10 | 0 9798 |
| 320 | 11 | | 2802 | 2402 | 2003 | 1604 | 1224 | 0805 | 0408 | 0006 | 9608 | 6206 | 8806 | 8408 | 8006 | 7602 | 7206 | 6806 | 6406 | 32 | 11 | 9977 |
| 321 | 12 | | 2972 | 2575 | 2150 | 1780 | 1381 | 2981 | 0581 | 0182 | 9782 | 9382 | 8982 | 8589 | 8182 | 7789 | 7302 | 6681 | 6581 | 35 | 16 | 9 0155 |
| 314 | 13 | | 3155 | 2758 | 2356 | 1656 | 1557 | 1157 | 0757 | 0358 | 6952 | 9558 | 9158 | 8758 | 8357 | 7637 | 7557 | 7157 | 6756 | 38 | 13 | 0333 |
| 320 | 14 | | 3332 | 2932 | 2532 | 2133 | 1733 | 1333 | 0933 | 0834 | 0134 | 6734 | 0333 | 8633 | 8533 | 6133 | 7732 | 7332 | 6031 | 41 | 14 | 0511 |
| 301 | 15 | 8 (7) | 3562 | 3108 | 2728 | 2309 | 1929 | 1509 | 1106 | 0709 | 0309 | 9909 | 9509 | 6109 | 0706 | 8360 | 7907 | 7507 | 7105 | 44 | 15 | 9 0690 |
| 294 | 16 | | 3684 | 3265 | 2805 | 2405 | 2085 | 1685 | 1285 | 0885 | 6485 | 6685 | 9685 | 0284 | 8884 | 8483 | 5083 | 7582 | 7201 | 47 | 16 | 0888 |
| 208 | 17 | | 3861 | 3461 | 3061 | 2661 | 2261 | 1281 | 1461 | 1261 | 0661 | 0560 | 9860 | 0462 | 0059 | 8659 | 2258 | 7857 | 7456 | 52 | 17 | 1048 |
| 281 | 15 | | 4237 | 3637 | 3237 | 2037 | 2437 | 9237 | 1537 | 1237 | 6836 | 0436 | 2035 | 0635 | 9934 | 8834 | 0433 | 8032 | 7631 | 53 | 16 | 1924 |
| 574 | 15 | | 4213 | 3813 | 3413 | 3013 | 2613 | 2213 | 1813 | 1412 | 1012 | 0611 | 0211 | 9812 | 2409 | 9269 | 0608 | 8207 | 7806 | 50 | 16 | 1401 |
| 580 | 55 | 8 (7) | 4390 | 3989 | 3529 | 3109 | 2789 | 2389 | 1988 | 1508 | 1187 | 6787 | 0388 | 0085 | 0584 | 2184 | 2783 | 8382 | 7981 | 52 | 20 | 9 1579 |
| 561 | 21 | | 4565 | 4165 | 3765 | 3305 | 2965 | 2564 | 2164 | 1763 | 1363 | 0662 | 0561 | 0160 | 6759 | 6359 | 8958 | 8557 | 0155 | 62 | 21 | 1757 |
| 254 | 22 | | 4742 | 4341 | 3541 | 3541 | 3140 | 2740 | 2339 | 1629 | 1538 | 1137 | 0736 | 0335 | 6934 | 6534 | 9132 | 0731 | 0330 | 65 | 22 | 1935 |
| 546 | 23 | | 4910 | 4517 | 4117 | 3716 | 3310 | 2915 | 0515 | 2114 | 1713 | 1312 | 0911 | 0510 | 0109 | 6750 | 9307 | 8606 | 8505 | 68 | 23 | 2112 |
| 541 | 24 | | 5094 | 4653 | 4293 | 3662 | 3491 | 3692 | 2690 | 2909 | 1688 | 1407 | 1086 | 0685 | 0204 | 9883 | 9482 | 9082 | 6075 | 71 | 24 | 2290 |
| 234 | 28 | 8 (7) | 8269 | 4862 | 4468 | 4068 | 3667 | 3266 | 2265 | 2464 | 2263 | 1669 | 1261 | 0060 | 0459 | 0058 | 9856 | 9255 | 8853 | 74 | 58 | 6 0467 |
| 527 | 26 | | 5448 | 5045 | 4644 | 4243 | 3843 | 3442 | 3041 | 2640 | 2930 | 1837 | 1436 | 1035 | 2634 | 0232 | 2831 | 9499 | 2028 | 77 | 26 | 6044 |
| 221 | 27 | | 5621 | 5220 | 4819 | 4416 | 4018 | 3517 | 3216 | 9815 | 9414 | 2012 | 1811 | 1210 | 2800 | 2407 | 0025 | 6604 | 9202 | 82 | 27 | 2802 |
| 514 | 25 | | 5727 | 5366 | 4995 | 4594 | 4193 | 3722 | 3321 | 2090 | 9589 | 2187 | 1780 | 1384 | 2083 | 0521 | 0186 | 9775 | 5370 | 03 | 28 | 9690 |
| 267 | 25 | | 5275 | 5571 | 5170 | 4769 | 4368 | 3967 | 3566 | 3165 | 2783 | 2362 | 1961 | 1559 | 1157 | 2750 | 0354 | 6952 | 2550 | 05 | 59 | 3176 |
| 261 | 35 | 8 (7) | 6148 | 5747 | 5346 | 4945 | 4543 | 4142 | 3741 | 3340 | 2938 | 2537 | 2135 | 1734 | 1332 | 2630 | 0528 | 0128 | 9724 | 88 | 30 | 5 3353 |
| 164 | 31 | | 6323 | 5922 | 5521 | 5120 | 4718 | 4317 | 3616 | 3514 | 3113 | 2711 | 2310 | 1928 | 1508 | 1104 | 0702 | 0320 | 5892 | 61 | 31 | 3530 |
| 157 | 35 | 5 | 6498 | 6097 | 8696 | 5295 | 4653 | 4499 | 4091 | 3689 | 3280 | 2886 | 2484 | 2089 | 1686 | 1279 | 0877 | 0474 | 0072 | 94 | 36 | 3707 |
| 181 | 33 | | 6674 | 6272 | 5871 | 5470 | 5068 | 4607 | 4065 | 3864 | 3469 | 3060 | 2659 | 2057 | 1855 | 1453 | 1251 | 0648 | 0246 | 97 | 33 | 3884 |
| 174 | 34 | | 6849 | 6448 | 6248 | 5645 | 5243 | 4842 | 4442 | 4038 | 3637 | 3235 | 2833 | 2431 | 2225 | 1627 | 1205 | 0822 | 0420 | 105 | 34 | 4281 |
| 187 | 35 | 8 | 7024 | 6623 | 6221 | 5820 | 5410 | 5010 | 4615 | 4213 | 3811 | 3400 | 3007 | 2805 | 2203 | 1801 | 1398 | 0990 | 0524 | 163 | 35 | 2 4238 |
| 181 | 38 | | 7199 | 8798 | 8396 | 5995 | 5593 | 5121 | 4789 | 4387 | 3986 | 3583 | 3181 | 2775 | 9377 | 1075 | 1572 | 1172 | 0787 | 105 | 36 | 4415 |
| 154 | 37 | | 7374 | 6973 | 8571 | 0109 | 5762 | 5366 | 4904 | 4562 | 4160 | 3758 | 3356 | 2953 | 2551 | 2149 | 1740 | 1344 | 2641 | 105 | 37 | 4591 |
| 147 | 35 | | 7849 | 7140 | 0746 | 0344 | 5942 | 5540 | 5132 | 4736 | 4334 | 3932 | 3532 | 3127 | 2725 | 2302 | 1600 | 1517 | 1115 | 112 | 38 | 4768 |
| 141 | 35 | | 7724 | 7322 | 6921 | 6519 | 6117 | 5715 | 5313 | 4910 | 4508 | 4106 | 3704 | 3301 | 2899 | 2460 | 2094 | 1621 | 1288 | 115 | 36 | 4644 |
| 134 | 45 | 5 | 7099 | 7457 | 7695 | 6693 | 6291 | 5889 | 5487 | 5085 | 4682 | 4280 | 3870 | 3475 | 3073 | 9670 | 2267 | 1864 | 1402 | 115 | 40 | 2 5121 |
| 157 | 41 | | 8074 | 7672 | 7270 | 6868 | 6466 | 6063 | 5661 | 5256 | 4858 | 4454 | 4051 | 3649 | 3248 | 2843 | 2441 | 2030 | 1835 | 121 | 41 | 5297 |
| 120 | 45 | | 5642 | 7847 | 7444 | 7642 | 8642 | 8238 | 5835 | 5433 | 5030 | 4628 | 4225 | 3623 | 3420 | 3017 | 2614 | 2211 | 1808 | 124 | 42 | 5473 |
| 114 | 43 | | 5423 | 8021 | 7616 | 7217 | 6214 | 6412 | 5806 | 5607 | 5204 | 4822 | 4300 | 3668 | 3563 | 3160 | 2787 | 2384 | 1261 | 127 | 43 | 5850 |
| 107 | 44 | | 8598 | 8195 | 7793 | 7321 | 5986 | 6586 | 6183 | 5781 | 5378 | 4676 | 4573 | 4170 | 3767 | 3354 | 2951 | 2582 | 2155 | 130 | 44 | 5896 |
| 150 | 48 | 5 | 5772 | 8376 | 7568 | 7568 | 7163 | 6760 | 6357 | 5655 | 5552 | 5149 | 4748 | 4343 | 3640 | 3537 | 3134 | 2731 | 2328 | 133 | 45 | 5 6002 |
| 94 | 46 | | 6947 | 8544 | 2142 | 7730 | 7337 | 6934 | 6531 | 8129 | 5720 | 5323 | 4620 | 4517 | 4114 | 3711 | 3327 | 2924 | 2881 | 138 | 46 | 8178 |
| 87 | 47 | | 5121 | 0719 | 2318 | 7513 | 7811 | 7108 | 8705 | 6306 | 5806 | 5496 | 5023 | 4626 | 4287 | 3884 | 3480 | 3877 | 2574 | 132 | 47 | 6354 |
| 80 | 46 | | 5295 | 8653 | 8466 | 8087 | 7685 | 7280 | 6870 | 6476 | 8673 | 5670 | 5687 | 4824 | 4460 | 4057 | 3653 | 3050 | 2848 | 145 | 46 | 5532 |
| 74 | 45 | | 2470 | 0867 | 8684 | 2281 | 7859 | 7458 | 7853 | 8650 | 6247 | 5843 | 5440 | 5637 | 4833 | 4230 | 3826 | 3423 | 3812 | 145 | 49 | 5706 |
| 67 | 55 | 5 | 2644 | 6641 | 8238 | 8435 | 8235 | 7609 | 7256 | 6623 | 6422 | 6017 | 5613 | 5210 | 4887 | 4483 | 3656 | 3596 | 3122 | 147 | 80 | 9 8882 |
| 60 | 51 | | 2818 | 6415 | 9216 | 8609 | 8266 | 7883 | 7405 | 6667 | 6563 | 6168 | 5727 | 5323 | 4980 | 1578 | 4172 | 3788 | 3365 | 158 | 81 | 7257 |
| 54 | 82 | | 5960 | 0586 | 9188 | 0783 | 2386 | 7677 | 7873 | 7175 | 8757 | 8363 | 5280 | 5558 | 5153 | 4746 | 4345 | 3241 | 3537 | 153 | 82 | 7233 |
| 47 | 53 | 2 (8) | 0158 | 6763 | 6366 | 8957 | 8553 | 6150 | 7747 | 7343 | 8646 | 8538 | 6133 | 5726 | 5325 | 4022 | 4518 | 4114 | 3718 | 156 | 83 | 7468 |
| 40 | 54 | | 5340 | 6637 | 6534 | 0130 | 8727 | 8364 | 7628 | 7817 | 7113 | 8766 | 6308 | 5602 | 5428 | 5224 | 4622 | 4282 | 3682 | 162 | 84 | 7564 |
| 33 | 38 | 2 (6) | 5514 | 8112 | 6707 | 2304 | 8961 | 6467 | 6694 | 7668 | 7286 | 6882 | 6472 | 8075 | 5671 | 5287 | 4803 | 4455 | 4255 | 162 | 55 | 5 7752 |
| 27 | 58 | | 5687 | 8264 | 9881 | 9477 | 0074 | 8678 | 8267 | 7863 | 7436 | 7058 | 6656 | 6246 | 5843 | 5448 | 5238 | 4631 | 4227 | 165 | 55 | 7935 |
| 22 | 87 | | 6861 | 8458 | 6654 | 9651 | 5247 | 6844 | 8448 | 8636 | 7632 | 7228 | 6825 | 6420 | 6016 | 5812 | 5208 | 4824 | 4399 | 168 | 57 | 2112 |
| 13 | 56 | | 1235 | 6831 | 0208 | 6824 | 2421 | 9017 | 6813 | 6205 | 7605 | 7421 | 6667 | 8563 | 6186 | 5785 | 5380 | 4678 | 4572 | 171 | 88 | 8285 |
| 7 | 56 | | 1208 | 6805 | 0421 | 9968 | 2564 | 6168 | 8786 | 8282 | 7576 | 7874 | 7176 | 6766 | 8321 | 5957 | 5583 | 5148 | 4744 | 174 | 32 | 5462 |

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| **Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas. |
|---|---|

| Partes para segundos del Arg. Auxiliar. | 143° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 143° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 406 | 0' | 2 6233 | 7831 | 7428 | 7026 | 6693 | 6298 | 5017 | 5414 | 5011 | 4608 | 4905 | 3802 | 3399 | 2996 | 2522 | 2182 | 1785 | 177 | 0' | 1 1810 |
| 399 | 1 | 8408 | 8005 | 7603 | 7200 | 6797 | 6395 | 5992 | 5589 | 5186 | 4783 | 4379 | 3976 | 3573 | 3169 | 2766 | 2362 | 1959 | 174 | 1 | 1631 |
| 399 | 2 | 8583 | 8180 | 7778 | 7375 | 6972 | 6569 | 6166 | 5763 | 5360 | 4957 | 4553 | 4150 | 3747 | 3343 | 2940 | 2536 | 2132 | 171 | 2 | 1459 |
| 385 | 3 | 8758 | 8355 | 7952 | 7550 | 7146 | 6743 | 6340 | 5937 | 5534 | 5131 | 4727 | 4321 | 3920 | 3517 | 3113 | 2710 | 2306 | 168 | 3 | 1273 |
| 378 | 4 | 8933 | 8530 | 8127 | 7724 | 7321 | 6918 | 6514 | 6111 | 5788 | 5305 | 4901 | 4498 | 4094 | 3690 | 3287 | 2883 | 2479 | 165 | 4 | 1025 |
| 372 | 5 | 9 2187 | 8704 | 8301 | 7898 | 7495 | 7092 | 6689 | 6285 | 5882 | 5478 | 5075 | 4671 | 4268 | 3864 | 3460 | 3056 | 2652 | 162 | 5 | 1 0916 |
| 365 | 6 | 2282 | 8879 | 8476 | 8073 | 7669 | 7266 | 6863 | 6459 | 6056 | 5652 | 5249 | 4845 | 4441 | 4037 | 3634 | 3230 | 2826 | 159 | 6 | 0737 |
| 358 | 7 | 2456 | 9053 | 8650 | 8247 | 7843 | 7440 | 7037 | 6633 | 6230 | 5826 | 5422 | 5019 | 4615 | 4211 | 3807 | 3403 | 2999 | 156 | 7 | 0552 |
| 351 | 8 | 2631 | 9228 | 8824 | 8421 | 8018 | 7614 | 7911 | 6807 | 6183 | 6000 | 5596 | 5192 | 4788 | 4384 | 3980 | 3576 | 3172 | 153 | 8 | 0380 |
| 345 | 9 | 2805 | 2402 | 8999 | 8595 | 8122 | 7788 | 7384 | 6981 | 6577 | 6173 | 5769 | 5365 | 4961 | 4557 | 4153 | 3742 | 3315 | 150 | 9 | 0202 |
| 338 | 10 | 9 9980 | 9576 | 9173 | 8769 | 8366 | 7962 | 7558 | 7155 | 6751 | 6347 | 5943 | 5539 | 5135 | 4731 | 4326 | 3922 | 3518 | 147 | 10 | 1 0023 |
| 331 | 11 | 0 (9) 0154 | 9750 | 2347 | 8943 | 8540 | 8136 | 7732 | 7398 | 6924 | 6520 | 6116 | 5712 | 5308 | 4904 | 4492 | 4095 | 3690 | 145 | 11 | 0 9845 |
| 324 | 12 | 0328 | 2924 | 2521 | 2117 | 8714 | 8310 | 7906 | 7502 | 7098 | 6694 | 6290 | 5885 | 5481 | 5077 | 4672 | 4268 | 3863 | 142 | 12 | 9667 |
| 318 | 13 | 0502 | 0098 | 9695 | 2291 | 8887 | 8483 | 8079 | 7675 | 7971 | 6067 | 6463 | 6059 | 5654 | 5250 | 4845 | 4441 | 4036 | 139 | 13 | 9489 |
| 311 | 14 | 0676 | 0272 | 9869 | 9465 | 9061 | 8657 | 8253 | 7849 | 7445 | 7040 | 6636 | 6232 | 5897 | 5423 | 5018 | 4613 | 4209 | 136 | 14 | 9310 |
| 304 | 15 | 0 (9) 0850 | 0446 | 0042 | 2639 | 9235 | 8531 | 8426 | 8092 | 7618 | 7214 | 6809 | 6405 | 6000 | 5595 | 5191 | 4786 | 4381 | 133 | 15 | 0 9132 |
| 297 | 16 | 1021 | 0620 | 0216 | 9812 | 9408 | 9004 | 8600 | 8195 | 7791 | 7387 | 6982 | 6578 | 6173 | 5768 | 5363 | 4959 | 4554 | 130 | 16 | 8954 |
| 291 | 17 | 1198 | 0794 | 0390 | 9986 | 9582 | 9177 | 8773 | 8369 | 7964 | 7560 | 7155 | 6750 | 6346 | 5941 | 5536 | 5131 | 4726 | 127 | 17 | 8776 |
| 284 | 18 | 1372 | 0960 | 0564 | 0159 | 9755 | 9350 | 8946 | 8542 | 8137 | 7733 | 7328 | 6923 | 6518 | 6114 | 5782 | 5304 | 1899 | 124 | 18 | 8599 |
| 277 | 19 | 1545 | 1141 | 0737 | 0333 | 9928 | 9593 | 9119 | 8715 | 8310 | 7906 | 7501 | 7096 | 6691 | 6286 | 5881 | 5476 | 5871 | 121 | 19 | 6421 |
| 270 | 20 | 0 (9) 1719 | 1315 | 0911 | 0506 | 0102 | 9697 | 9293 | 8888 | 8483 | 8079 | 7674 | 7269 | 6864 | 6459 | 6054 | 5648 | 5243 | 118 | 20 | 0 8243 |
| 264 | 21 | 1823 | 1488 | 1084 | 0680 | 0275 | 9870 | 9466 | 9661 | 8656 | 8251 | 7846 | 7441 | 7036 | 6631 | 6226 | 5821 | 5415 | 115 | 21 | 8065 |
| 257 | 22 | 2066 | 1662 | 1257 | 0853 | 0448 | 0043 | 9639 | 9234 | 8829 | 8424 | 8019 | 7614 | 7209 | 6803 | 6398 | 5993 | 5587 | 112 | 22 | 7888 |
| 250 | 23 | 2248 | 1835 | 1431 | 1026 | 0621 | 0216 | 9812 | 9407 | 9002 | 8597 | 8192 | 7786 | 7381 | 6976 | 6570 | 6165 | 5759 | 109 | 23 | 7710 |
| 243 | 24 | 2413 | 2008 | 1604 | 1192 | 0794 | 0389 | 9984 | 9579 | 9174 | 8769 | 8364 | 7959 | 7553 | 7148 | 6743 | 6337 | 5931 | 106 | 24 | 7533 |
| 237 | 25 | 0 (9) 2586 | 2182 | 1777 | 1372 | 0967 | 0562 | 0157 | 9752 | 9347 | 8942 | 8536 | 8131 | 7725 | 7328 | 6915 | 6509 | 6103 | 103 | 25 | 0 7356 |
| 230 | 26 | 2768 | 2355 | 1950 | 1545 | 1140 | 0735 | 0330 | 9925 | 9520 | 9114 | 8709 | 8303 | 7898 | 7492 | 7087 | 6681 | 6275 | 100 | 26 | 7178 |
| 293 | 27 | 2933 | 2528 | 2123 | 1718 | 1313 | 0908 | 0503 | 0097 | 9692 | 9287 | 8881 | 8476 | 8070 | 7664 | 7259 | 6853 | 6447 | 97 | 27 | 7001 |
| 216 | 28 | 3106 | 2701 | 2296 | 1891 | 1486 | 1080 | 0675 | 0970 | 9864 | 9459 | 9053 | 8648 | 8242 | 7836 | 7431 | 7025 | 6619 | 94 | 28 | 6824 |
| 210 | 29 | 3279 | 2874 | 2469 | 2064 | 1658 | 1253 | 0848 | [illegible]442 | 0037 | 9631 | 9226 | 8820 | 8414 | 8008 | 7602 | 7196 | 6790 | 91 | 29 | 6647 |
| 203 | 30 | 6 (9) 3452 | 3047 | 2642 | 2236 | 1831 | 1426 | 1020 | 8615 | 0209 | 9803 | 9398 | 8992 | 8586 | 8180 | 7774 | 7368 | 6962 | 88 | 30 | 6 6470 |
| 196 | 31 | 3625 | 3220 | 2814 | 2409 | 2004 | 1598 | 1193 | 0787 | 0381 | 9976 | 9570 | 9164 | 8758 | 8352 | 7946 | 7540 | 7133 | 86 | 31 | 6293 |
| 189 | 32 | 3798 | 3392 | 2987 | 2582 | 2176 | 1771 | 1365 | 0959 | 0553 | [illegible]148 | 9742 | 9336 | 8930 | 8524 | 8117 | 7711 | 7305 | 83 | 32 | 6116 |
| 182 | 33 | 3970 | 3565 | 3160 | 2754 | 2349 | 1943 | 1537 | 1131 | 0725 | 0320 | 9914 | 9508 | 9101 | 8695 | 8289 | 7883 | 7476 | 80 | 33 | 5939 |
| 176 | 34 | 4143 | 3738 | 3332 | 2927 | 2521 | 2115 | 1709 | 1303 | 8897 | 0491 | 0085 | 9679 | 9273 | 8867 | 8460 | 8054 | 7648 | 77 | 34 | 5762 |
| 169 | 35 | 6 (9) 4316 | 3910 | 3505 | 3099 | 2693 | 9287 | 1881 | 1475 | 1069 | 0663 | 0257 | 9851 | 9445 | 9038 | 8632 | 8225 | 7819 | 74 | 35 | 0 5585 |
| 162 | 36 | 4488 | 4083 | 3677 | 3271 | 2865 | 2459 | 9053 | 1647 | 1241 | 0835 | 0429 | 0023 | 9616 | 9210 | 8803 | 8397 | 7990 | 71 | 36 | 5409 |
| 155 | 37 | 4661 | 4255 | 3849 | 3443 | 3037 | 2631 | 2225 | 1812 | 1413 | 1007 | 0601 | 0194 | 9788 | 9381 | 8974 | 8568 | 8161 | 68 | 37 | 5232 |
| 149 | 38 | 4833 | 4427 | 4022 | 3616 | 3218 | 9803 | 2397 | 1291 | 1585 | 1179 | 0772 | 0366 | 9959 | 9552 | 9146 | 8739 | 8332 | 65 | 38 | 5056 |
| 149 | 39 | 5006 | 4600 | 4194 | 3788 | 3382 | 9975 | 2569 | 2163 | 1757 | 1350 | 8244 | 0537 | 8130 | 2724 | 9317 | 8910 | 8503 | 62 | 39 | 4879 |
| 135 | 40 | 0 (9) 5178 | 4772 | 4366 | 3968 | 3554 | 3147 | 2741 | 2335 | 1928 | 1522 | 1115 | 0708 | 0302 | 9895 | 9488 | 9081 | 8674 | 52 | 40 | 6 4703 |
| 198 | 41 | 6350 | 4244 | 4538 | 4132 | 3725 | 3319 | 2913 | 9506 | 2100 | 1693 | 1286 | 0880 | 0473 | 0066 | 9659 | 2252 | 8845 | 56 | 41 | 4527 |
| 192 | 42 | 5522 | 5116 | 4710 | 4304 | 3897 | 3491 | 3084 | 2678 | 2271 | 1864 | 1458 | 1051 | 0644 | 0237 | 9830 | 9423 | 9016 | 53 | 42 | 4350 |
| 115 | 43 | 5694 | 5288 | 4882 | 4475 | 4069 | 3662 | 3956 | 2849 | 2442 | 2036 | 1629 | 1222 | 0815 | 0408 | 0001 | 9594 | 9186 | 50 | 43 | 4174 |
| 188 | 44 | 5866 | 5460 | 5054 | 4647 | 4241 | 3831 | 3427 | 3021 | 2614 | 2207 | 1800 | 1393 | 0986 | 0579 | 0172 | 9764 | 9357 | 47 | 44 | 3998 |
| 101 | 45 | 0 (9) 6038 | 5632 | 5925 | 4819 | 4412 | 4006 | 3599 | 3192 | 2785 | 2378 | 1971 | 1564 | 1157 | 0750 | 0342 | 9935 | 9528 | 44 | 45 | 0 3822 |
| 95 | 46 | 6210 | 5804 | 5397 | 4990 | 4584 | 4177 | 3770 | 3363 | 2956 | 2549 | 2142 | 1735 | 1398 | 0920 | 0513 | 0106 | 9698 | 41 | 46 | 3646 |
| 88 | 47 | 6382 | 5975 | 5569 | 5162 | 4755 | 1348 | 3941 | 3534 | 3127 | 2720 | 2313 | 1906 | 1498 | 1091 | 0684 | 0276 | 9868 | 38 | 47 | 3470 |
| 81 | 48 | 0 6554 | 6147 | 5746 | 5334 | 4927 | 4520 | 4113 | 3706 | 3298 | 2891 | 2484 | 2077 | 1669 | 1262 | 0854 | 0446 | 0039 | 35 | 48 | 3294 |
| 74 | 49 | 6725 | 6319 | 5912 | 5505 | 5098 | 4691 | 1284 | 3877 | 3469 | 3062 | 2655 | 2247 | 1840 | 1432 | 1025 | 0617 | 0209 | 32 | 49 | 3118 |
| 68 | 50 | 0 6827 | 6490 | 6083 | 5676 | 5269 | 4862 | 4455 | 4048 | 3640 | 3233 | 2825 | 2418 | 2010 | 1603 | 1195 | 0787 | 0379 | 29 | 50 | 0 2943 |
| 61 | 51 | 7069 | 6662 | 6255 | 5848 | 5440 | 5033 | 4626 | 4219 | 3811 | 3404 | 9996 | 2589 | 9181 | 1773 | 1365 | 0957 | 0549 | 27 | 51 | 2767 |
| 54 | 52 | 7240 | 6833 | 6426 | 6012 | 5612 | 5204 | 4797 | 4390 | 3982 | 3574 | 3167 | 2759 | 2351 | 1943 | 1536 | 1128 | 0720 | 24 | 52 | 2592 |
| 47 | 53 | 7412 | 7004 | 6597 | 6190 | 5783 | 5375 | 4968 | 4560 | 4153 | 3745 | 3337 | 2930 | 9592 | 2114 | 1706 | 1298 | 0890 | 21 | 53 | 2416 |
| 41 | 54 | 7583 | 7176 | 6768 | 6361 | 5954 | 5546 | 5139 | 4731 | 4323 | 3916 | 3508 | 3108 | 2692 | 2284 | 1876 | 1468 | 1059 | 18 | 54 | 2241 |
| 34 | 55 | 0 7754 | 7347 | 6939 | 6532 | 6125 | 5717 | 5309 | 4902 | 4494 | 4086 | 3678 | 3270 | 2862 | 2454 | 2046 | 1638 | 1299 | 15 | 55 | 6 2065 |
| 27 | 56 | 7225 | 7518 | 7110 | 6703 | 6295 | 5888 | 5480 | 5072 | 4664 | 4257 | 3849 | 3441 | 3032 | 2624 | 2216 | 1808 | 1399 | 12 | 56 | 1890 |
| 20 | 57 | 8096 | 7689 | 7281 | 6874 | 6466 | 6058 | 5654 | 5243 | 4835 | 4427 | 4019 | 3611 | 3209 | 2794 | 2386 | 1977 | 1569 | 9 | 57 | 1715 |
| 13 | 58 | 8267 | 7860 | 7452 | 7045 | 6637 | 6229 | 5821 | 5413 | 5005 | 4597 | 4189 | 3781 | 3372 | 2964 | 2556 | 2147 | 1739 | 6 | 58 | 1540 |
| 7 | 59 | 8439 | 8031 | 7623 | 7215 | 0808 | 6400 | 5992 | 5584 | 5176 | 4767 | 4359 | 3951 | 3549 | 3134 | 2726 | 2317 | 1908 | 3 | 59 | 1364 |

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TABLA X. Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

| Partes para segundos del Arg. Auxiliar. | 143° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 407 | 6′ | 9 (6) 1302 | 0978 | 0575 | 0171 | 2707 | 9363 | 8959 | 8555 | 6151 | 7747 | 7343 | 6938 | 6534 | 6129 | 5725 | 5321 | 4916 |
| 460 | 1 | 1555 | 1152 | 0740 | 0344 | 2940 | 2536 | 9132 | 8728 | 8394 | 7919 | 7515 | 7111 | 6706 | 6302 | 5827 | 5493 | 5008 |
| 393 | 2 | 1729 | 1325 | 6221 | 0517 | 0113 | 9709 | 9305 | 8901 | 8426 | 8092 | 7688 | 7283 | 6879 | 6474 | 6069 | 5665 | 5260 |
| 307 | 3 | 1902 | 1496 | 1024 | 0690 | 0286 | 9882 | 9478 | 9073 | 8669 | 8265 | 7860 | 7455 | 7051 | 6646 | 6241 | 5837 | 5432 |
| 386 | 4 | 2075 | 1671 | 1267 | 6863 | 0459 | 6055 | 9650 | 9246 | 8642 | 8437 | 6032 | 7628 | 7223 | 6818 | 6413 | 6008 | 5604 |
| 373 | 5 | 9 (6) 2246 | 1844 | 1446 | 1636 | 0639 | 0227 | 2823 | 2412 | 9014 | 8609 | 8205 | 7800 | 7395 | 6290 | 6585 | 6180 | 5775 |
| 366 | 6 | 2421 | 2017 | 1613 | 1209 | 0804 | 0400 | 9226 | 9591 | 9186 | 8782 | 8377 | 7972 | 7567 | 7162 | 6757 | 6352 | 5247 |
| 360 | 7 | 2594 | 2190 | 1786 | 1382 | 0277 | 0573 | 0168 | 2764 | 9359 | 8954 | 8549 | 8144 | 7739 | 7334 | 6999 | 6524 | 6119 |
| 353 | 6 | 2767 | 2363 | 1959 | 1554 | 1150 | 0745 | 0340 | 9936 | 9531 | 9126 | 8721 | 0316 | 7211 | 7506 | 7101 | 6695 | 6220 |
| 346 | 9 | 2940 | 2636 | 2131 | 1727 | 1322 | 6918 | 0513 | 0168 | 9703 | 9228 | 8823 | 8488 | 8083 | 7678 | 7279 | 6867 | 6162 |
| 332 | 10 | 9 (8) 3113 | 2709 | 2304 | 1822 | 1495 | 1020 | 0685 | 0280 | 9875 | 2470 | 9065 | 8660 | 8255 | 7849 | 7444 | 7039 | 6633 |
| 332 | 11 | 3286 | 2881 | 2477 | 2672 | 1667 | 1262 | 0857 | 0452 | 0047 | 9642 | 9237 | 8832 | 8426 | 8621 | 7615 | 7210 | 6804 |
| 326 | 12 | 3459 | 3654 | 2642 | 2244 | 1840 | 1435 | 1030 | 6624 | 0219 | 9814 | 2402 | 9003 | 8528 | 8193 | 7787 | 7381 | 6976 |
| 312 | 13 | 3631 | 3226 | 2822 | 2417 | 2012 | 1607 | 1202 | 6797 | 0321 | 9986 | 2581 | 2175 | 8770 | 8364 | 7958 | 7553 | 7147 |
| 312 | 14 | 3604 | 3399 | 2224 | 2589 | 2184 | 1779 | 1374 | 0968 | 0563 | 0158 | 2759 | 2347 | 8941 | 8535 | 8130 | 7724 | 7318 |
| 305 | 15 | 9 (8) 3976 | 3571 | 3166 | 2761 | 2356 | 1251 | 1546 | 1140 | 0735 | 0329 | 9924 | 2518 | 2113 | 8707 | 8301 | 7825 | 7489 |
| 299 | 16 | 4149 | 3744 | 3339 | 2933 | 2528 | 2123 | 1718 | 1312 | 0207 | 0501 | 0025 | 9690 | 2284 | 8878 | 8472 | 8666 | 7660 |
| 292 | 17 | 4321 | 3916 | 3511 | 3106 | 2700 | 2225 | 1889 | 1484 | 1078 | 0673 | 0267 | 2861 | 9455 | 2042 | 8643 | 8237 | 7831 |
| 285 | 18 | 4423 | 4088 | 3683 | 3278 | 2872 | 2467 | 2061 | 1656 | 1256 | 0844 | 0438 | 0032 | 2627 | 2221 | 8814 | 6468 | 8062 |
| 270 | 19 | 4066 | 4960 | 3855 | 3456 | 3044 | 2632 | 2233 | 1827 | 1491 | 1016 | 6616 | 6204 | 9798 | 9392 | 8985 | 8579 | 8173 |
| 271 | 20 | 9 (6) 4838 | 4432 | 4027 | 3621 | 3216 | 2810 | 2405 | 1999 | 1593 | 1187 | 0781 | 0375 | 9969 | 9563 | 2156 | 8750 | 8344 |
| 265 | 21 | 5010 | 4604 | 4129 | 3793 | 3388 | 2982 | 2576 | 2170 | 1764 | 1358 | 0952 | 0546 | 0140 | 9734 | 9327 | 8221 | 8514 |
| 258 | 22 | 5182 | 4776 | 4371 | 3263 | 3559 | 3153 | 2748 | 2342 | 1236 | 1592 | 1123 | 0717 | 0311 | 9964 | 9428 | 9622 | 8683 |
| 251 | 23 | 5354 | 4948 | 4543 | 4137 | 3731 | 3325 | 2219 | 2513 | 2107 | 1701 | 1294 | 0888 | 0482 | 0075 | 9669 | 9262 | 8856 |
| 244 | 24 | 5526 | 5120 | 4714 | 4368 | 3902 | 3496 | 3090 | 2684 | 2278 | 1872 | 1465 | 1052 | 0653 | 0246 | 9839 | 9433 | 2026 |
| 237 | 25 | 9 (8) 5628 | 5222 | 4886 | 4480 | 4074 | 3668 | 3262 | 2855 | 2449 | 2043 | 1636 | 1230 | 6823 | 0417 | 0010 | 2603 | 2196 |
| 231 | 26 | 5869 | 5463 | 5657 | 4651 | 4245 | 3832 | 3433 | 3027 | 2620 | 9214 | 1807 | 1401 | 0224 | 0587 | 0180 | 9774 | 2367 |
| 224 | 27 | 6041 | 5635 | 5229 | 4823 | 4417 | 4010 | 3604 | 3198 | 2791 | 2385 | 1978 | 1571 | 1165 | 0758 | 0351 | 9244 | 2537 |
| 217 | 28 | 6213 | 5807 | 5400 | 4994 | 4588 | 4182 | 3775 | 3362 | 2962 | 2556 | 2149 | 1742 | 1335 | 0928 | 6521 | 6114 | 2767 |
| 216 | 29 | 6384 | 5978 | 5572 | 5165 | 4759 | 4353 | 3946 | 3540 | 3133 | 2726 | 2320 | 1913 | 1566 | 1029 | 0692 | 0285 | 9877 |
| 204 | 30 | 9 6556 | 6142 | 5743 | 5337 | 4930 | 4524 | 4117 | 3711 | 3304 | 2897 | 9490 | 2083 | 1676 | 1962 | 6869 | 6455 | 6647 |
| 197 | 31 | 6727 | 6321 | 5214 | 5508 | 5101 | 4625 | 4288 | 3881 | 3475 | 3068 | 9661 | 2254 | 1847 | 1439 | 1632 | 0625 | 0217 |
| 190 | 32 | 6898 | 6492 | 6086 | 5679 | 5272 | 4866 | 4459 | 4032 | 3645 | 3238 | 2831 | 9424 | 2617 | 1610 | 1202 | 0725 | 6387 |
| 183 | 33 | 7670 | 6663 | 6257 | 5856 | 5443 | 5037 | 4636 | 4223 | 3816 | 3402 | 3002 | 2594 | 2187 | 1786 | 1379 | 6965 | 6557 |
| 170 | 34 | 7241 | 6834 | 6428 | 6021 | 5614 | 5267 | 4860 | 4323 | 3286 | 3572 | 3172 | 2765 | 2357 | 1956 | 1542 | 1135 | 6727 |
| 170 | 35 | 9 7412 | 7006 | 6599 | 6192 | 5785 | 5378 | 4971 | 4563 | 4157 | 3742 | 3342 | 2935 | 2527 | 2126 | 1712 | 1305 | 0827 |
| 163 | 36 | 7503 | 7177 | 6770 | 6363 | 5950 | 5549 | 5141 | 4734 | 4327 | 3990 | 3512 | 3105 | 2627 | 9220 | 1882 | 1474 | 1067 |
| 156 | 37 | 7754 | 7347 | 6240 | 6533 | 6126 | 5719 | 5312 | 4205 | 4427 | 4020 | 3683 | 3275 | 2667 | 2466 | 2052 | 1644 | 1236 |
| 149 | 36 | 7925 | 7516 | 7111 | 6764 | 6297 | 5896 | 5482 | 5675 | 4668 | 4960 | 3853 | 3445 | 3637 | 2629 | 2222 | 1814 | 1406 |
| 143 | 39 | 8626 | 7602 | 7262 | 6875 | 6468 | 6060 | 5653 | 5245 | 4830 | 4430 | 4023 | 3615 | 3207 | 2799 | 2321 | 1283 | 1575 |
| 136 | 40 | 9 8267 | 7860 | 7453 | 7045 | 6638 | 6231 | 6893 | 5416 | 5008 | 4600 | 4193 | 3785 | 3377 | 2969 | 2561 | 2153 | 1745 |
| 129 | 41 | 8438 | 8030 | 7623 | 7216 | 6868 | 6401 | 5993 | 5586 | 5176 | 4770 | 4362 | 3954 | 3547 | 3139 | 2730 | 2322 | 1214 |
| 122 | 42 | 8608 | 8201 | 7794 | 7386 | 6979 | 6571 | 6164 | 5756 | 6348 | 4940 | 4532 | 4124 | 3716 | 3308 | 2900 | 2492 | 2683 |
| 116 | 43 | 8779 | 8372 | 7964 | 7557 | 7149 | 6741 | 6334 | 5926 | 5518 | 5116 | 4702 | 4294 | 3886 | 3476 | 3069 | 2661 | 2253 |
| 109 | 44 | 8950 | 8549 | 8134 | 7727 | 7319 | 6911 | 0504 | 6026 | 5688 | 5280 | 4872 | 4463 | 4055 | 3647 | 3239 | 2830 | 2492 |
| 102 | 45 | 9 9190 | 8712 | 8305 | 7897 | 7489 | 7081 | 6674 | 6266 | 5058 | 5449 | 5041 | 4633 | 4225 | 3816 | 3408 | 2999 | 2591 |
| 95 | 46 | 9290 | 8883 | 8475 | 8067 | 7659 | 7251 | 6843 | 6435 | 6027 | 5619 | 5211 | 4809 | 4394 | 3986 | 3577 | 3168 | 2760 |
| 88 | 47 | 9461 | 9053 | 8645 | 8237 | 7899 | 7421 | 7013 | 6606 | 6197 | 5789 | 5380 | 4972 | 4563 | 4155 | 3746 | 3337 | 2929 |
| 81 | 46 | 9631 | 9223 | 8815 | 8407 | 7999 | 7591 | 7183 | 6776 | 6366 | 5958 | 5550 | 5141 | 4733 | 4324 | 3215 | 3506 | 3098 |
| 75 | 49 | 9801 | 9393 | 8985 | 8577 | 8169 | 7761 | 7353 | 6944 | 6536 | 6127 | 6719 | 5310 | 4902 | 4493 | 4084 | 3675 | 3266 |
| 68 | 60 | 2 2971 | 9563 | 9155 | 8747 | 8339 | 7931 | 7522 | 7114 | 6705 | 6297 | 5888 | 5480 | 5071 | 4662 | 4253 | 3844 | 3435 |
| 61 | 51 | 0 (9) 6141 | 9733 | 2325 | 8917 | 8569 | 8100 | 7692 | 7283 | 6875 | 6466 | 6057 | 5649 | 5240 | 4831 | 4422 | 4013 | 3604 |
| 54 | 52 | 6311 | 9903 | 9496 | 9087 | 0676 | 8270 | 7861 | 7453 | 7044 | 6635 | 6227 | 5818 | 5409 | 5000 | 4521 | 4182 | 3773 |
| 48 | 53 | 0481 | 0073 | 2665 | 9256 | 0046 | 8439 | 8031 | 7022 | 7213 | 6805 | 6396 | 5987 | 5576 | 5169 | 4760 | 4350 | 3941 |
| 41 | 54 | 0651 | 0243 | 9834 | 9426 | 9017 | 8609 | 8200 | 7791 | 7303 | 0974 | 6565 | 6150 | 5747 | 5337 | 4928 | 4519 | 4110 |
| 34 | 55 | 0 (9) 0821 | 0413 | 0004 | 9596 | 9187 | 8776 | 8362 | 7961 | 7552 | 7143 | 6734 | 6325 | 5915 | 5506 | 5027 | 4687 | 4278 |
| 27 | 56 | 0991 | 0582 | 0174 | 9765 | 9356 | 8947 | 8539 | 8130 | 7721 | 7312 | 6963 | 6493 | 6084 | 5675 | 5266 | 4850 | 4446 |
| 20 | 57 | 1160 | 0752 | 0343 | 9954 | 9526 | 9117 | 8708 | 8999 | 7896 | 7481 | 7071 | 6662 | 6253 | 5843 | 5434 | 5024 | 4615 |
| 14 | 56 | 1330 | 0921 | 0513 | 0104 | 9695 | 9286 | 0877 | 8466 | 6059 | 7649 | 7240 | 6831 | 0421 | 0012 | 6602 | 5192 | 4783 |
| 7 | 59 | 1500 | 1091 | 0689 | 0273 | 9864 | 9455 | 9046 | 8637 | 8227 | 7818 | 7409 | 6999 | 6590 | 6180 | 5770 | 5361 | 4951 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos | 143° | Núm. |
|---|---|---|
| 0 | 0′ | 9 6636 |
| 3 | 1 | 0811 |
| 6 | 2 | 0285 |
| 9 | 3 | 9160 |
| 11 | 4 | 9335 |
| 14 | 5 | 2 2510 |
| 17 | 6 | 2685 |
| 20 | 7 | 9859 |
| 23 | 8 | 0 6034 |
| 26 | 9 | 0208 |
| 29 | 10 | 0 0383 |
| 32 | 11 | 6557 |
| 35 | 12 | 0731 |
| 37 | 13 | 6906 |
| 40 | 14 | 1080 |
| 43 | 15 | 0 1254 |
| 46 | 16 | 1428 |
| 42 | 17 | 1602 |
| 52 | 18 | 1776 |
| 55 | 19 | 1949 |
| 58 | 20 | 0 2123 |
| 61 | 21 | 2227 |
| 63 | 22 | 2470 |
| 66 | 23 | 2644 |
| 69 | 24 | 2817 |
| 72 | 25 | 0 2991 |
| 75 | 26 | 3164 |
| 78 | 27 | 3337 |
| 81 | 28 | 3511 |
| 84 | 29 | 3684 |
| 86 | 36 | 0 3857 |
| 82 | 31 | 4030 |
| 22 | 32 | 4203 |
| 25 | 33 | 4376 |
| 28 | 34 | 4548 |
| 101 | 35 | 0 4721 |
| 104 | 36 | 4894 |
| 107 | 37 | 6066 |
| 110 | 38 | 5239 |
| 112 | 39 | 5411 |
| 116 | 40 | 0 6584 |
| 110 | 41 | 5756 |
| 121 | 42 | 5928 |
| 124 | 43 | 6100 |
| 127 | 44 | 6973 |
| 130 | 45 | 0 6445 |
| 133 | 46 | 6617 |
| 135 | 47 | 6788 |
| 138 | 48 | 6960 |
| 141 | 49 | 7132 |
| 144 | 50 | 0 7301 |
| 147 | 61 | 7475 |
| 150 | 52 | 7647 |
| 153 | 53 | 7818 |
| 156 | 54 | 7990 |
| 159 | 55 | 0 8161 |
| 161 | 56 | 6333 |
| 164 | 57 | 8504 |
| 107 | 58 | 8675 |
| 170 | 59 | 8846 |

**Tabla. X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 144 | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 144 | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 411 | 6' | 6 6606 | 8262 | 7764 | 7386 | 0970 | 6579 | 0162 | 3734 | 5346 | 4637 | 4329 | 4121 | 3712 | 3394 | 2093 | 9486 | 2879 | 179 | 6' | 6 1109 |
| 404 | 1 | 6796 | 9372 | 7963 | 7557 | 7149 | 6741 | 6339 | 5694 | 3516 | 3190 | 4699 | 4291 | 3892 | 3474 | 3965 | 2636 | 2247 | 170 | 1 | 1012 |
| 397 | 2 | 9931 | 0342 | 8135 | 7797 | 7319 | 6911 | 5503 | 6094 | 5686 | 5978 | 4069 | 4461 | 4952 | 3043 | 3934 | 2696 | 2417 | 167 | 2 | 9940 |
| 391 | 9 | 9129 | 9714 | 8306 | 7898 | 7490 | 7081 | 6973 | 6965 | 6036 | 3440 | 5039 | 4939 | 4999 | 3819 | 3494 | 2293 | 2302 | 164 | 3 | 6663 |
| 304 | 4 | 9269 | 8804 | 8479 | 8006 | 7660 | 7951 | 0043 | 0435 | 6026 | 5617 | 5209 | 4009 | 4391 | 3689 | 3579 | 3164 | 2765 | 161 | 4 | 6498 |
| 377 | 5 | 6 9463 | 9053 | 8647 | 8938 | 7830 | 7422 | 7013 | 6693 | 5199 | 5797 | 5370 | 4679 | 4561 | 4152 | 3742 | 3334 | 2924 | 159 | 3 | 0 0313 |
| 379 | 6 | 9034 | 9226 | 8817 | 8499 | 2600 | 7562 | 7183 | 9773 | 9366 | 5637 | 5540 | 5136 | 4730 | 4321 | 3912 | 3363 | 3994 | 136 | 9 | 6141 |
| 393 | 7 | 9904 | 9396 | 8967 | 8679 | 8170 | 7799 | 7353 | 6944 | 6536 | 6127 | 5719 | 5309 | 4900 | 4491 | 4081 | 3672 | 3263 | 133 | 7 | 9 9969 |
| 956 | 6 | 9974 | 9566 | 9137 | 8749 | 6340 | 7939 | 7523 | 7114 | 9793 | 0996 | 3887 | 5476 | 5959 | 1260 | 4231 | 3811 | 3432 | 139 | 9 | 9762 |
| 349 | 2 | 1 (0) 6143 | 9736 | 9329 | 9616 | 8319 | 0102 | 7663 | 7284 | 9073 | 6496 | 0957 | 5040 | 5229 | 4629 | 4426 | 4916 | 3601 | 147 | 6 | 9017 |
| 343 | 16 | 1 (6) 9313 | 9909 | 9490 | 9889 | 8680 | 8971 | 7862 | 7453 | 7944 | 6633 | 6226 | 3617 | 5498 | 4266 | 4586 | 4179 | 3776 | 144 | 19 | 9 9449 |
| 330 | 11 | 9405 | 6076 | 9668 | 9259 | 8850 | 8441 | 8032 | 7623 | 7914 | 0894 | 0396 | 5686 | 6277 | 3107 | 4759 | 4349 | 3629 | 141 | 11 | 9209 |
| 329 | 19 | 9955 | 9946 | 6038 | 6429 | 9820 | 8611 | 8202 | 7763 | 7383 | 0974 | 0595 | 6133 | 5746 | 5336 | 4927 | 4317 | 4167 | 130 | 19 | 6094 |
| 329 | 13 | 6095 | 9416 | 0097 | 6596 | 9190 | 8760 | 8371 | 7662 | 7553 | 7143 | 6734 | 6321 | 5915 | 3585 | 3063 | 4080 | 4979 | 133 | 13 | 8926 |
| 913 | 14 | 0993 | 9586 | 9177 | 9768 | 9356 | 8939 | 8541 | 8131 | 7722 | 7313 | 6963 | 9463 | 9984 | 3674 | 3264 | 4854 | 4444 | 192 | 14 | 0746 |
| 306 | 13 | 1 (0) 1165 | 6756 | 9347 | 9930 | 9629 | 6119 | 0718 | 0391 | 7091 | 7402 | 7972 | 6009 | 6953 | 5843 | 3433 | 5093 | 4013 | 130 | 13 | 9 8572 |
| 961 | 16 | 1395 | 0999 | 9317 | 9107 | 9690 | 9989 | 8876 | 8470 | 8060 | 7051 | 7241 | 0931 | 9191 | 9811 | 5601 | 3191 | 4701 | 127 | 16 | 0398 |
| 295 | 17 | 1303 | 1095 | 6680 | 6277 | 9868 | 9458 | 9949 | 8639 | 9229 | 7990 | 7419 | 7909 | 6398 | 6166 | 3776 | 5369 | 4939 | 194 | 17 | 9224 |
| 286 | 19 | 1674 | 1265 | 6856 | 6446 | 9637 | 9627 | 9910 | 8690 | 8398 | 7989 | 7372 | 7162 | 9732 | 9346 | 3232 | 3329 | 6110 | 191 | 19 | 6631 |
| 281 | 19 | 1644 | 1435 | 1626 | 6616 | 9200 | 6727 | 9387 | 0977 | 8597 | 6137 | 7740 | 7387 | 9228 | 6317 | 9197 | 3627 | 3906 | 116 | 19 | 7877 |
| 274 | 20 | 1 (0) 2914 | 1904 | 1195 | 6785 | 0379 | 9960 | 9556 | 2146 | 0736 | 9390 | 7610 | 7386 | 7626 | 9686 | 6975 | 3863 | 3435 | 116 | 26 | 9 7763 |
| 207 | 91 | 9183 | 1774 | 1364 | 0254 | 9545 | 0135 | 2729 | 2313 | 8905 | 0493 | 0093 | 7673 | 7264 | 6864 | 6444 | 6033 | 3023 | 112 | 21 | 7630 |
| 906 | 29 | 2352 | 1243 | 1333 | 1194 | 0714 | 0364 | 9094 | 9484 | 9074 | 0994 | 8953 | 7943 | 7433 | 7999 | 6612 | 6901 | 3791 | 110 | 22 | 7336 |
| 254 | 23 | 2592 | 2119 | 1709 | 1293 | 0883 | 0473 | 0063 | 9653 | 9249 | 9839 | 8422 | 8019 | 7661 | 7121 | 9709 | 9366 | 3669 | 107 | 23 | 7193 |
| 247 | 24 | 9621 | 2981 | 1671 | 1462 | 1052 | 9642 | 9231 | 9621 | 2411 | 2961 | 0590 | 9166 | 7762 | 7339 | 9249 | 6537 | 9127 | 194 | 94 | 7962 |
| 246 | 93 | 1 (0) 2890 | 2450 | 2049 | 1631 | 1221 | 0818 | 0496 | 9999 | 2580 | 9199 | 8739 | 8348 | 7638 | 7597 | 7116 | 9703 | 6994 | 191 | 93 | 9 6836 |
| 233 | 29 | 3099 | 2919 | 9209 | 1799 | 1389 | 0979 | 8562 | 6158 | 9746 | 9338 | 0997 | 6319 | 9169 | 7623 | 7264 | 6873 | 6402 | 98 | 26 | 6663 |
| 296 | 97 | 3198 | 2788 | 2370 | 1968 | 1550 | 1146 | 6737 | 9327 | 9916 | 9396 | 9693 | 8664 | 0974 | 7962 | 7452 | 7641 | 9636 | 96 | 97 | 6482 |
| 912 | 99 | 9397 | 9957 | 2547 | 2137 | 1727 | 1315 | 0906 | 0493 | 0085 | 9674 | 9963 | 6053 | 8449 | 8991 | 7699 | 7209 | 6790 | 99 | 20 | 6219 |
| 219 | 26 | 3539 | 3126 | 2716 | 2309 | 1895 | 1483 | 1074 | 9904 | 9253 | 9949 | 9491 | 2621 | 8610 | 9122 | 7767 | 7379 | 6963 | 99 | 29 | 6142 |
| 996 | 39 | 1 (0) 3703 | 3265 | 2085 | 2474 | 2064 | 1633 | 1943 | 8832 | 6491 | 0019 | 9399 | 9169 | 0777 | 6366 | 7963 | 7644 | 7133 | 86 | 96 | 9 5970 |
| 199 | 31 | 3874 | 3464 | 3053 | 2642 | 2932 | 1892 | 1411 | 1996 | 0586 | 6179 | 9767 | 6289 | 8243 | 6594 | 0123 | 7711 | 7369 | 64 | 91 | 6727 |
| 199 | 39 | 4043 | 3632 | 3222 | 2611 | 2491 | 1220 | 1579 | 1168 | 6757 | 6346 | 9233 | 6324 | 2113 | 0722 | 9229 | 7072 | 7467 | 61 | 92 | 3624 |
| 185 | 33 | 4912 | 3801 | 3396 | 9980 | 2562 | 2150 | 1747 | 1336 | 6925 | 0514 | 0193 | 9699 | 9901 | 8066 | 0136 | 6946 | 7633 | 78 | 33 | 5452 |
| 179 | 34 | 4309 | 3979 | 3356 | 3148 | 2737 | 9390 | 1913 | 1504 | 1093 | 8689 | 0971 | 9869 | 9448 | 9637 | 8623 | 9914 | 7662 | 76 | 94 | 5279 |
| 171 | 35 | 1 (0) 4349 | 4136 | 3797 | 3316 | 2965 | 2424 | 9083 | 1679 | 1961 | 0850 | 6439 | 0697 | 9216 | 9264 | 6722 | 9361 | 7969 | 79 | 33 | 9 5166 |
| 164 | 36 | 4717 | 4366 | 3895 | 3403 | 3974 | 2662 | 2931 | 1840 | 1429 | 1018 | 0606 | 6195 | 9782 | 9371 | 8960 | 0646 | 0130 | 69 | 96 | 4934 |
| 158 | 37 | 4886 | 4473 | 4094 | 3053 | 3242 | 2830 | 9419 | 2068 | 1627 | 1195 | 8774 | 6369 | 9950 | 9839 | 2127 | 8713 | 8303 | 60 | 97 | 4761 |
| 131 | 36 | 3034 | 4942 | 4239 | 3921 | 9410 | 2996 | 2397 | 9176 | 1764 | 1353 | 6941 | 6329 | 0116 | 9706 | 9294 | 8882 | 0476 | 69 | 99 | 4509 |
| 144 | 39 | 3222 | 4611 | 4429 | 3969 | 3377 | 3166 | 2793 | 2343 | 1932 | 1526 | 1199 | 6697 | 0203 | 9873 | 2461 | 9649 | 8637 | 61 | 39 | 4410 |
| 137 | 46 | 1 (0) 5399 | 4976 | 4569 | 4157 | 3743 | 3334 | 2229 | 9511 | 2099 | 1989 | 1676 | 6264 | 0452 | 6646 | 9698 | 9216 | 0804 | 68 | 46 | 9 4244 |
| 130 | 41 | 9530 | 3147 | 4730 | 4326 | 3913 | 9502 | 3090 | 9970 | 2266 | 1935 | 1443 | 1631 | 6619 | 9267 | 2765 | 2363 | 0271 | 63 | 41 | 4672 |
| 193 | 42 | 3799 | 5315 | 4904 | 4492 | 4901 | 3669 | 3238 | 2849 | 2434 | 6892 | 1616 | 1198 | 0760 | 0374 | 9962 | 9650 | 6137 | 69 | 49 | 9990 |
| 117 | 43 | 3894 | 3163 | 3972 | 4696 | 4249 | 3827 | 3423 | 3613 | 2601 | 9106 | 1777 | 1366 | 6953 | 6641 | 6199 | 2710 | 9364 | 49 | 49 | 9727 |
| 119 | 44 | 9699 | 3631 | 5939 | 4899 | 4416 | 4004 | 9592 | 3161 | 2769 | 2357 | 1944 | 1592 | 1196 | 0768 | 6293 | 9803 | 2476 | 46 | 44 | 9565 |
| 103 | 45 | 1 (9) 9930 | 3812 | 3497 | 4995 | 4583 | 4172 | 3769 | 3348 | 2936 | 9524 | 2111 | 1699 | 1287 | 0875 | 0462 | 9059 | 9637 | 49 | 45 | 9 9283 |
| 96 | 46 | 6390 | 3986 | 3372 | 3163 | 4731 | 4339 | 3697 | 3215 | 3103 | 9991 | 2278 | 1885 | 1404 | 1641 | 0629 | 0210 | 9809 | 40 | 46 | 9912 |
| 89 | 47 | 9566 | 6164 | 6742 | 3330 | 4912 | 4509 | 4094 | 3609 | 3278 | 9950 | 2445 | 2033 | 1620 | 1206 | 2793 | 9382 | 9979 | 37 | 47 | 3640 |
| 82 | 46 | 1 9733 | 6321 | 3619 | 3498 | 5006 | 4673 | 4961 | 9849 | 3437 | 3924 | 9612 | 2909 | 1787 | 1374 | 2962 | 0049 | 9130 | 95 | 40 | 9868 |
| 75 | 49 | 6661 | 9496 | 9677 | 2666 | 5269 | 4641 | 4428 | 4016 | 9604 | 3191 | 9779 | 2366 | 1954 | 1541 | 1126 | 9712 | 6309 | 39 | 49 | 9690 |
| 99 | 50 | 1 7069 | 6952 | 6214 | 5832 | 5428 | 5898 | 4525 | 4193 | 3771 | 3358 | 2946 | 2333 | 9129 | 1707 | 1294 | 6001 | 6409 | 29 | 56 | 9 2523 |
| 62 | 51 | 7236 | 6824 | 6411 | 5299 | 3587 | 5175 | 4762 | 4350 | 3937 | 3595 | 3112 | 2699 | 2286 | 1874 | 1461 | 1648 | 8034 | 26 | 61 | 9333 |
| 55 | 52 | 7493 | 9991 | 3579 | 6166 | 5724 | 5342 | 4926 | 4517 | 4164 | 3691 | 3978 | 2866 | 9453 | 2649 | 1697 | 1214 | 6866 | 23 | 69 | 9162 |
| 46 | 33 | 7272 | 7169 | 6740 | 6333 | 5221 | 5520 | 6096 | 4683 | 4271 | 3058 | 3446 | 3032 | 2619 | 2206 | 1763 | 1360 | 0906 | 26 | 53 | 2016 |
| 41 | 54 | 7739 | 7323 | 9213 | 6500 | 6086 | 5675 | 3263 | 4830 | 4437 | 4824 | 3011 | 3198 | 2785 | 9972 | 1936 | 1316 | 1132 | 17 | 94 | 1839 |
| 34 | 50 | 1 7903 | 7492 | 7080 | 6067 | 6265 | 5849 | 6429 | 3610 | 4904 | 4191 | 3772 | 3363 | 2631 | 2538 | 2125 | 1711 | 1226 | 14 | 55 | 9 1667 |
| 27 | 56 | 6072 | 7256 | 7247 | 6024 | 6421 | 6009 | 5566 | 3183 | 4776 | 4337 | 3944 | 3531 | 3117 | 9704 | 2291 | 1977 | 1404 | 11 | 66 | 1496 |
| 21 | 57 | 6236 | 7026 | 7414 | 7001 | 6588 | 6173 | 3762 | 5349 | 4936 | 4323 | 4110 | 3697 | 3283 | 2679 | 2457 | 9643 | 1629 | 9 | 67 | 1393 |
| 14 | 06 | 6406 | 7993 | 7588 | 7166 | 6755 | 6349 | 6229 | 5519 | 5163 | 4689 | 4976 | 3862 | 3449 | 3030 | 2622 | 2209 | 1792 | 6 | 69 | 1154 |
| 7 | 59 | 9573 | 0166 | 7747 | 7334 | 0921 | 6508 | 6095 | 5689 | 5962 | 4865 | 4442 | 4029 | 3613 | 3282 | 2798 | 2974 | 1900 | 3 | 62 | 6983 |

**Tabla X.** Número I para la suma de alturas aparentes y Nú ero III para la distancia aparente. . . . } y el Argumento Auxiliar. | Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg Auxiliar. | 144 | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 144 | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 412 | 6' | 9 (9) 1662 | 1255 | 6551 | 0442 | 6033 | 2624 | 2215 | 8806 | 8396 | 7987 | 7577 | 7168 | 6758 | 6348 | 5939 | 5529 | 5119 | 5 | 9' | 5 9017 |
| 465 | 1 | 1838 | 1429 | 1020 | 0611 | 0202 | 9793 | 9384 | 8274 | 8595 | 8155 | 7746 | 7335 | 6926 | 6517 | 6107 | 5627 | 5267 | 3 | 1 | 2188 |
| 328 | 2 | 2008 | 1599 | 1125 | 0780 | 0371 | 9962 | 2552 | 2143 | 8734 | 8324 | 7914 | 7505 | 7095 | 6685 | 6275 | 5865 | 5455 | 6 | 2 | 9359 |
| 391 | 3 | 2177 | 1758 | 1359 | 0942 | 0540 | 0131 | 9721 | 9312 | 8902 | 8492 | 8083 | 7673 | 7263 | 6853 | 6443 | 6033 | 5623 | 8 | 3 | 9530 |
| 385 | 4 | 2346 | 1937 | 1528 | 1118 | 0709 | 0299 | 9890 | 9480 | 9071 | 8661 | 8251 | 7841 | 7431 | 7021 | 6611 | 6201 | 5791 | 11 | 4 | 9700 |
| 378 | 5 | 9 (9) 2315 | 2106 | 1997 | 1267 | 0878 | 0468 | 0059 | 9649 | 9239 | 8829 | 8419 | 8009 | 7599 | 7169 | 6779 | 6369 | 5958 | 14 | 5 | 0 2871 |
| 371 | 9 | 2684 | 2275 | 1866 | 1456 | 1046 | 0637 | 0227 | 9817 | 9407 | 8997 | 8587 | 8177 | 7767 | 7357 | 6947 | 6536 | 5126 | 17 | 9 | 1 6042 |
| 364 | 7 | 2853 | 2444 | 2034 | 1925 | 1215 | 0805 | 0395 | 9966 | 9576 | 9166 | 8766 | 8345 | 7935 | 7525 | 7115 | 6704 | 6294 | 20 | 7 | 0212 |
| 357 | 8 | 3022 | 2613 | 2203 | 1793 | 1384 | 0974 | 0564 | 0154 | 9744 | 9334 | 8924 | 8513 | 8103 | 7693 | 7282 | 6872 | 6161 | 22 | 9 | 0383 |
| 350 | 9 | 3191 | 2781 | 2372 | 1962 | 1552 | 1142 | 0732 | 0322 | 9912 | 9502 | 9092 | 8681 | 8271 | 7860 | 7450 | 7639 | 5629 | 25 | 9 | 0553 |
| 943 | 15 | 6 (9) 3360 | 2950 | 2540 | 2130 | 1721 | 1311 | 0900 | 0490 | 0080 | 9670 | 9260 | 8849 | 8439 | 8028 | 7617 | 7207 | 6796 | 28 | 19 | 1 6723 |
| 337 | 11 | 3529 | 3119 | 2769 | 2299 | 1889 | 1472 | 1059 | 0658 | 0248 | 9838 | 9427 | 9017 | 8606 | 8196 | 7785 | 7374 | 5963 | 31 | 11 | 0894 |
| 330 | 12 | 3697 | 3287 | 2877 | 2467 | 2057 | 1547 | 1237 | 0826 | 0416 | 0006 | 2595 | 9185 | 8774 | 8363 | 7952 | 7542 | 7131 | 34 | 12 | 1064 |
| 323 | 13 | 3866 | 3456 | 3046 | 2536 | 2225 | 1015 | 1405 | 0994 | 0564 | 0173 | 9763 | 2352 | 8941 | 8531 | 5120 | 7709 | 7298 | 37 | 13 | 1234 |
| 316 | 14 | 4534 | 3624 | 3214 | 2804 | 2394 | 1983 | 1573 | 1162 | 0752 | 0341 | 9931 | 9520 | 9109 | 8698 | 8287 | 7876 | 7465 | 39 | 14 | 1404 |
| 309 | 13 | 0 (9) 4203 | 3793 | 3382 | 2972 | 2562 | 2151 | 1741 | 1330 | 0920 | 0509 | 0098 | 9687 | 9276 | 8865 | 8454 | 8043 | 7632 | 42 | 15 | 1 1574 |
| 302 | 19 | 4371 | 3961 | 3551 | 3140 | 2730 | 2319 | 1902 | 1498 | 1087 | 0676 | 5266 | 9855 | 9444 | 9633 | 6622 | 8210 | 7799 | 45 | 16 | 1744 |
| 225 | 17 | 4539 | 4129 | 3719 | 3308 | 9898 | 2187 | 2076 | 1666 | 1955 | 0844 | 0433 | 0029 | 9611 | 9200 | 8789 | 6377 | 7966 | 48 | 17 | 1914 |
| 288 | 18 | 4708 | 4297 | 3687 | 3476 | 3066 | 2655 | 2244 | 1833 | 1429 | 1011 | 0600 | 0189 | 9778 | 9367 | 6956 | 9544 | 8133 | 51 | 10 | 9081 |
| 282 | 19 | 4979 | 4465 | 4655 | 3644 | 3933 | 2623 | 2412 | 2001 | 1596 | 1179 | 5768 | 0357 | 9945 | 9534 | 2193 | 6711 | 8300 | 53 | 19 | 2253 |
| 275 | 29 | 9 (9) 5044 | 4632 | 4223 | 3812 | 3401 | 9991 | 2580 | 2168 | 1757 | 1346 | 0935 | 0524 | 0112 | 9701 | 2989 | 8878 | 8467 | 36 | 25 | 1 2423 |
| 268 | 21 | 3212 | 4801 | 4391 | 3980 | 3669 | 3150 | 2747 | 2339 | 1925 | 1313 | 1102 | 0991 | 9979 | 9868 | 2456 | 9045 | 8633 | 59 | 21 | 2592 |
| 261 | 22 | 3380 | 4969 | 4358 | 4147 | 3736 | 3323 | 9914 | 2503 | 9092 | 1681 | 1969 | 0858 | 0446 | 0035 | 9623 | 9211 | 8800 | 92 | 22 | 9762 |
| 254 | 23 | 3348 | 5137 | 4796 | 4315 | 3904 | 3493 | 3682 | 2671 | 2239 | 1948 | 1436 | 1025 | 0613 | 5202 | 9790 | 9378 | 8966 | 95 | 93 | 2931 |
| 247 | 24 | 9716 | 5303 | 4894 | 4483 | 4072 | 3660 | 3249 | 2839 | 2426 | 2016 | 1603 | 1192 | 0780 | 0368 | 9966 | 9544 | 9133 | 68 | 24 | 3101 |
| 940 | 93 | 0 (9) 3383 | 5472 | 5561 | 4650 | 4239 | 3628 | 3415 | 3005 | 2593 | 2189 | 1770 | 1358 | 0947 | 0535 | 0193 | 9711 | 9299 | 70 | 95 | 1 3270 |
| 933 | 29 | 9651 | 5640 | 6929 | 4918 | 4406 | 3995 | 3583 | 3172 | 2760 | 2349 | 1937 | 1525 | 1113 | 0701 | 0289 | 9677 | 9465 | 73 | 26 | 3439 |
| 927 | 97 | 6219 | 5908 | 5396 | 4985 | 4574 | 4162 | 3751 | 3339 | 2997 | 9516 | 2104 | 1692 | 1980 | 0858 | 0456 | 6044 | 9632 | 76 | 27 | 3608 |
| 990 | 99 | 9386 | 5975 | 5564 | 5159 | 4741 | 4399 | 3919 | 3506 | 3094 | 9662 | 9270 | 1858 | 1447 | 1034 | 0622 | 0210 | 9798 | 79 | 29 | 3778 |
| 213 | 99 | 6354 | 9142 | 5731 | 3399 | 4908 | 4496 | 4005 | 3973 | 3261 | 2849 | 2437 | 2025 | 1613 | 1201 | 0789 | 0376 | 9964 | 92 | 29 | 3947 |
| 255 | 36 | 9 9721 | 9310 | 5898 | 3487 | 3075 | 4663 | 4259 | 3646 | 3428 | 3019 | 2604 | 9192 | 1779 | 1367 | 0955 | 6542 | 6130 | 84 | 30 | 1 4116 |
| 199 | 31 | 9689 | 5477 | 6063 | 5654 | 5249 | 4830 | 4419 | 4909 | 3594 | 3189 | 2779 | 2358 | 1946 | 1533 | 1191 | 0708 | 0296 | 67 | 31 | 4284 |
| 192 | 32 | 7956 | 9644 | 9233 | 5921 | 5409 | 4997 | 4383 | 4173 | 3761 | 3349 | 2937 | 2324 | 9112 | 1699 | 1287 | 0874 | 0462 | 90 | 32 | 4453 |
| 185 | 33 | 7223 | 9911 | 6400 | 5986 | 5576 | 5164 | 4732 | 4349 | 3928 | 3315 | 3103 | 2691 | 2276 | 1866 | 1453 | 1040 | 0628 | 93 | 33 | 4622 |
| 178 | 34 | 7390 | 6979 | 6567 | 9153 | 9743 | 5331 | 4919 | 4509 | 4594 | 3662 | 3269 | 2057 | 2444 | 2032 | 1619 | 1206 | 9793 | 96 | 34 | 4791 |
| 179 | 33 | 6 7557 | 7145 | 5733 | 9321 | 5909 | 5497 | 3985 | 4673 | 4260 | 3848 | 3435 | 3023 | 2610 | 2198 | 1785 | 1372 | 0959 | 99 | 33 | 1 4959 |
| 165 | 36 | 7724 | 7312 | 9900 | 9488 | 5076 | 5664 | 6959 | 4939 | 4427 | 4014 | 3609 | 3189 | 9779 | 9364 | 1951 | 1538 | 1125 | 151 | 36 | 5128 |
| 138 | 37 | 7691 | 7479 | 7067 | 6655 | 6243 | 5830 | 5416 | 5006 | 4593 | 4100 | 3768 | 3355 | 9949 | 9529 | 2116 | 1793 | 1290 | 104 | 37 | 3296 |
| 151 | 39 | 6055 | 7649 | 7234 | 9922 | 9409 | 5297 | 5584 | 5179 | 4759 | 4346 | 3934 | 3591 | 3108 | 2695 | 2282 | 1669 | 1456 | 107 | 39 | 5465 |
| 144 | 39 | 9225 | 7913 | 7406 | 5988 | 9379 | 9163 | 5731 | 5338 | 4925 | 4512 | 4100 | 3687 | 3274 | 9861 | 2448 | 2035 | 1621 | 110 | 39 | 5633 |
| 137 | 40 | 9 9322 | 7979 | 7597 | 7155 | 6742 | 6329 | 3917 | 5504 | 5091 | 4678 | 4266 | 3853 | 3440 | 3026 | 2613 | 9200 | 1787 | 113 | 45 | 1 5801 |
| 130 | 41 | 9358 | 8146 | 7733 | 7321 | 9908 | 9495 | 6083 | 5670 | 5257 | 4944 | 4431 | 4018 | 3603 | 3192 | 2778 | 2365 | 1952 | 115 | 41 | 3969 |
| 124 | 42 | 9725 | 6312 | 7900 | 7487 | 7975 | 6669 | 6249 | 5936 | 5423 | 5010 | 4697 | 4184 | 3771 | 3358 | 2944 | 2531 | 9117 | 118 | 49 | 9138 |
| 117 | 43 | 6621 | 8479 | 9069 | 7954 | 7941 | 6828 | 9415 | 5002 | 5589 | 5179 | 4763 | 4350 | 3936 | 3523 | 3109 | 2696 | 9962 | 191 | 43 | 6306 |
| 119 | 44 | 9650 | 5545 | 6233 | 7920 | 7467 | 9294 | 6581 | 9168 | 3753 | 5342 | 4929 | 4515 | 4109 | 3688 | 3276 | 9891 | 2447 | 194 | 44 | 6474 |
| 193 | 43 | 0 9224 | 8612 | 6399 | 7986 | 7573 | 7190 | 9747 | 5334 | 5921 | 5507 | 5094 | 4661 | 4967 | 3654 | 3440 | 3026 | 9612 | 127 | 46 | 1 6642 |
| 96 | 46 | 9321 | 8979 | 6565 | 6159 | 7739 | 7326 | 9913 | 5500 | 6086 | 5973 | 5260 | 4846 | 4432 | 4019 | 3605 | 3191 | 9777 | 130 | 46 | 6809 |
| 89 | 47 | 9637 | 2144 | 8731 | 8316 | 7205 | 7422 | 7079 | 9665 | 9252 | 5938 | 5495 | 5011 | 4598 | 4184 | 3770 | 3359 | 2942 | 132 | 47 | 9977 |
| 82 | 49 | 9723 | 9310 | 8997 | 9484 | 5971 | 7657 | 7244 | 9831 | 6417 | 9064 | 5599 | 5177 | 4763 | 4349 | 3935 | 3521 | 3107 | 135 | 48 | 7145 |
| 75 | 49 | 9889 | 9479 | 9563 | 6650 | 5237 | 7823 | 7419 | 6996 | 6563 | 5169 | 5733 | 5342 | 4928 | 4614 | 4100 | 3666 | 3272 | 138 | 49 | 7313 |
| 69 | 55 | 1 (5) 0555 | 9642 | 9229 | 0816 | 6402 | 7989 | 7575 | 7169 | 6749 | 6334 | 5991 | 5507 | 5093 | 4579 | 4265 | 3851 | 3437 | 141 | 50 | 1 7480 |
| 62 | 51 | 0221 | 9609 | 9395 | 9981 | 0568 | 9154 | 7741 | 7327 | 9913 | 9500 | 5086 | 5679 | 5258 | 4844 | 4430 | 4016 | 3601 | 144 | 51 | 7649 |
| 55 | 52 | 9357 | 9974 | 9561 | 2147 | 5733 | 8320 | 7906 | 7499 | 7079 | 5665 | 5251 | 5837 | 5423 | 5009 | 4595 | 4180 | 3766 | 145 | 62 | 7815 |
| 48 | 53 | 6953 | 5140 | 2726 | 2313 | 8699 | 8485 | 0072 | 7950 | 7244 | 9630 | 6416 | 9609 | 5688 | 5173 | 4759 | 4345 | 3930 | 149 | 33 | 7982 |
| 41 | 54 | 0719 | 0305 | 9592 | 2479 | 9094 | 0650 | 6237 | 7823 | 7499 | 6995 | 5561 | 6197 | 5732 | 5338 | 4924 | 4509 | 4095 | 152 | 64 | 9155 |
| 34 | 55 | 1 (0) 6683 | 0471 | 0967 | 9514 | 2230 | 8615 | 0409 | 7200 | 7574 | 7160 | 5746 | 9331 | 5917 | 9503 | 5088 | 4074 | 4259 | 155 | 53 | 1 6317 |
| 28 | 56 | 1950 | 0939 | 9293 | 9809 | 9395 | 8991 | 9557 | 9153 | 7739 | 7395 | 9911 | 9496 | 6092 | 5667 | 5253 | 4836 | 4423 | 136 | 56 | 8494 |
| 91 | 57 | 1219 | 6609 | 9386 | 9974 | 9550 | 2149 | 0739 | 8319 | 7904 | 7495 | 7575 | 6661 | 6246 | 5832 | 5417 | 5002 | 4588 | 191 | 57 | 8651 |
| 14 | 59 | 1381 | 0967 | 0554 | 0146 | 2725 | 9311 | 9627 | 6463 | 9569 | 7654 | 7249 | 9825 | 9411 | 5996 | 5581 | 5167 | 4752 | 163 | 58 | 9815 |
| 7 | 59 | 1947 | 1133 | 9725 | 9305 | 9891 | 9479 | 9592 | 9648 | 9233 | 7819 | 7404 | 9990 | 9575 | 5161 | 5746 | 5331 | 4916 | 166 | 59 | 8985 |

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**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . y el Argumento Auxiliar.** | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 145° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 145° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416 | 0' | 1 8739 | 8327 | 7214 | 7501 | 7088 | 6275 | 6261 | 5848 | 5433 | 5021 | 4508 | 4125 | 3781 | 3367 | 2954 | 2542 | 2126 | 120 | 0' | 2 0812 |
| 409 | 1 | 8906 | 8493 | 8080 | 7867 | 7254 | 6841 | 6428 | 6014 | 5601 | 5187 | 4774 | 4360 | 3947 | 3533 | 3119 | 2705 | 2291 | 166 | 1 | 0641 |
| 402 | 2 | 9073 | 8660 | 8247 | 7834 | 7420 | 7007 | 6594 | 6180 | 5767 | 5353 | 4940 | 4526 | 4112 | 3698 | 3285 | 2871 | 2457 | 163 | 2 | 0470 |
| 395 | 3 | 9239 | 8826 | 8413 | 8000 | 7587 | 7173 | 6760 | 6346 | 5933 | 5519 | 5105 | 4692 | 4278 | 3864 | 3450 | 3036 | 2622 | 161 | 3 | 0300 |
| 388 | 4 | 9406 | 8993 | 8579 | 8166 | 7753 | 7339 | 6926 | 6512 | 6099 | 5685 | 5271 | 4857 | 4443 | 4029 | 3615 | 3201 | 2787 | 158 | 4 | 0129 |
| 381 | 5 | 1 9572 | 9159 | 8746 | 8332 | 7919 | 7505 | 7092 | 6678 | 8264 | 5851 | 5437 | 5023 | 4609 | 4195 | 3781 | 3366 | 2952 | 155 | 5 | 8 9958 |
| 374 | 6 | 9739 | 9325 | 8912 | 8498 | 8085 | 7671 | 7258 | 6844 | 6430 | 2016 | 5602 | 5188 | 4774 | 4362 | 3946 | 3532 | 3117 | 152 | 6 | 9708 |
| 368 | 7 | 9905 | 9492 | 9078 | 8665 | 8251 | 7837 | 7424 | 7010 | 6590 | 0182 | 5788 | 5354 | 4940 | 4525 | 4111 | 3697 | 3282 | 142 | 7 | 2617 |
| 361 | 0 | 2 (1) 0071 | 9658 | 9244 | 8831 | 8417 | 8003 | 7589 | 7175 | 6761 | 6347 | 5233 | 5519 | 5105 | 4690 | 4276 | 3862 | 3447 | 142 | 0 | 2447 |
| 354 | 9 | 0237 | 9824 | 9410 | 8997 | 8583 | 8169 | 7755 | 7341 | 6927 | 6513 | 6099 | 5684 | 5270 | 4855 | 4441 | 4027 | 3612 | 144 | 9 | 9277 |
| 347 | 10 | 2 (1) 6403 | 9990 | 9576 | 9162 | 8748 | 8334 | 7921 | 7506 | 7092 | 6678 | 6264 | 5849 | 5435 | 5020 | 4606 | 4191 | 3777 | 141 | 10 | 8 9106 |
| 340 | 11 | 0569 | 0156 | 9742 | 9328 | 8914 | 8500 | 8086 | 7672 | 7258 | 6843 | 6429 | 6015 | 5660 | 5185 | 4771 | 4356 | 3941 | 138 | 11 | 8936 |
| 333 | 12 | 0735 | 0322 | 9908 | 2494 | 9080 | 8666 | 8252 | 7837 | 7423 | 7009 | 0594 | 6180 | 5763 | 5358 | 4938 | 4521 | 4106 | 135 | 12 | 8766 |
| 326 | 13 | 0901 | 0487 | 0073 | 2659 | 9245 | 8831 | 8417 | 8003 | 7588 | 7174 | 2759 | 6345 | 5930 | 5515 | 5100 | 4685 | 4271 | 132 | 13 | 0596 |
| 319 | 14 | 1067 | 0653 | 0239 | 9825 | 9411 | 8997 | 8582 | 8168 | 7753 | 7339 | 2924 | 6509 | 6095 | 5680 | 6265 | 4850 | 4435 | 130 | 14 | 8426 |
| 312 | 15 | 2 (1) 1233 | 0819 | 0405 | 9991 | 9576 | 9162 | 8747 | 8333 | 7918 | 7504 | 7089 | 6674 | 6260 | 5845 | 5430 | 5015 | 4599 | 127 | 15 | 8 0256 |
| 305 | 16 | 1399 | 0984 | 0570 | 0156 | 9742 | 9327 | 8913 | 8498 | 8083 | 7669 | 7254 | 6839 | 6424 | 6009 | 5594 | 5179 | 4764 | 124 | 16 | 8086 |
| 298 | 17 | 1564 | 1150 | 0736 | 0321 | 9907 | 9492 | 9078 | 8663 | 8248 | 7834 | 7419 | 7004 | 6589 | 6174 | 5759 | 5343 | 4928 | 121 | 17 | 7916 |
| 291 | 18 | 1730 | 1316 | 0901 | 0487 | 0072 | 9658 | 9243 | 8828 | 8413 | 7998 | 7583 | 7168 | 6753 | 6338 | 5923 | 5508 | 5002 | 118 | 18 | 7747 |
| 984 | 19 | 1895 | 1481 | 1066 | 8652 | 0237 | 9823 | 9408 | 8993 | 8578 | 8163 | 7748 | 7333 | 6918 | 6503 | 6087 | 5672 | 5256 | 116 | 12 | 7577 |
| 277 | 20 | 2 (1) 2061 | 1646 | 1232 | 0017 | 0402 | 9988 | 9573 | 9158 | 8743 | 8328 | 7913 | 7497 | 7082 | 6667 | 6252 | 5836 | 5420 | 113 | 20 | 8 7408 |
| 270 | 21 | 2226 | 1811 | 1397 | 0982 | 0567 | 0162 | 9738 | 9323 | 8908 | 8492 | 8077 | 7662 | 7247 | 6831 | 6416 | 6000 | 5504 | 110 | 21 | 7238 |
| 264 | 22 | 2391 | 1977 | 1562 | 1147 | 0732 | 0317 | 9902 | 9487 | 9072 | 8657 | 8242 | 7826 | 7411 | 6995 | 6580 | 6164 | 5748 | 107 | 22 | 7069 |
| 257 | 23 | 2557 | 2142 | 1727 | 1312 | 0897 | 0482 | 0067 | 9652 | 9237 | 0821 | 8406 | 7991 | 7575 | 7159 | 6744 | 6328 | 5912 | 104 | 23 | 2099 |
| 250 | 24 | 2722 | 2307 | 1892 | 1477 | 1062 | 0647 | 0232 | 9818 | 2401 | 0986 | 8570 | 8155 | 7739 | 7323 | 6908 | 6492 | 6076 | 101 | 24 | 6730 |
| 243 | 25 | 2 (1) 2887 | 2472 | 2057 | 1642 | 1227 | 0811 | 0396 | 2981 | 2566 | 9150 | 0734 | 8312 | 7903 | 7487 | 7072 | 6656 | 6240 | 99 | 25 | 8 6501 |
| 236 | 26 | 3052 | 2637 | 2222 | 1807 | 1391 | 0972 | 0561 | 0145 | 0730 | 9314 | 8899 | 8483 | 8027 | 7651 | 7235 | 6812 | 6403 | 96 | 26 | 6392 |
| 229 | 27 | 3217 | 2802 | 2386 | 1971 | 1556 | 1141 | 2725 | 0310 | 9824 | 9478 | 9063 | 8647 | 8231 | 7815 | 7399 | 6983 | 6567 | 93 | 97 | 6222 |
| 222 | 28 | 3382 | 2966 | 2551 | 2136 | 1721 | 1305 | 0890 | 0474 | 0058 | 9643 | 9227 | 8811 | 8395 | 7979 | 7563 | 7147 | 6731 | 90 | 28 | 6053 |
| 215 | 29 | 3546 | 3131 | 2718 | 2300 | 1885 | 1469 | 1054 | 0638 | 0222 | 9807 | 0391 | 0975 | 8559 | 8143 | 7727 | 7312 | 6094 | 87 | 29 | 5884 |
| 208 | 30 | 2 (1) 3711 | 3296 | 2880 | 2465 | 2049 | 1634 | 1218 | 0802 | 0386 | 9971 | 9555 | 9139 | 8722 | 8306 | 7890 | 7474 | 7057 | 84 | 30 | 8 5716 |
| 201 | 31 | 3876 | 3460 | 3045 | 2629 | 2214 | 1798 | 1382 | 0966 | 0560 | 0134 | 2718 | 9302 | 8886 | 0470 | 8054 | 7637 | 7221 | 02 | 31 | 5547 |
| 194 | 32 | 4040 | 3625 | 3209 | 2793 | 2378 | 1962 | 1546 | 1130 | 0714 | 0298 | 9882 | 9466 | 2650 | 8633 | 8217 | 7801 | 7384 | 79 | 32 | 5378 |
| 187 | 33 | 4205 | 3789 | 3373 | 2958 | 2542 | 2126 | 1710 | 1294 | 0870 | 0422 | 0046 | 9630 | 9213 | 8797 | 8380 | 7964 | 7547 | 76 | 33 | 5209 |
| 100 | 34 | 4369 | 3954 | 3538 | 3122 | 2706 | 2290 | 1874 | 1458 | 1042 | 0626 | 0209 | 2793 | 9377 | 0960 | 8544 | 8127 | 7710 | 73 | 34 | 5041 |
| 173 | 35 | 2 (1) 4533 | 4118 | 3702 | 3286 | 2870 | 2454 | 2038 | 1622 | 1206 | 0789 | 0373 | 9956 | 9540 | 9123 | 8707 | 8290 | 7873 | 76 | 35 | 8 4872 |
| 166 | 36 | 4698 | 4282 | 3866 | 3450 | 3634 | 2618 | 2202 | 1786 | 1360 | 0953 | 0536 | 0120 | 9703 | 9287 | 8870 | 8453 | 8036 | 88 | 36 | 4704 |
| 160 | 37 | 4882 | 4446 | 4030 | 3614 | 3190 | 2782 | 2366 | 1949 | 1533 | 1112 | 0700 | 2283 | 9867 | 9450 | 2033 | 8616 | 8199 | 65 | 37 | 4535 |
| 153 | 38 | 5026 | 4610 | 4194 | 3778 | 3362 | 2946 | 2529 | 2113 | 1696 | 1280 | 0083 | 0446 | 0030 | 9613 | 9196 | 8772 | 8362 | 62 | 38 | 4367 |
| 146 | 39 | 5190 | 4774 | 4358 | 3942 | 3526 | 3109 | 2693 | 2270 | 1860 | 1443 | 1026 | 0610 | 0193 | 9770 | 9359 | 8942 | 8625 | 59 | 39 | 4199 |
| 139 | 40 | 2 (1) 5354 | 4938 | 4522 | 4106 | 3689 | 3273 | 2856 | 2440 | 2023 | 1606 | 1190 | 0773 | 0356 | 9939 | 9522 | 2105 | 8687 | 56 | 40 | 8 4031 |
| 132 | 41 | 5518 | 5102 | 4686 | 4269 | 3853 | 3436 | 3020 | 2603 | 2106 | 1770 | 1353 | 0936 | 0519 | 0102 | 9685 | 9267 | 8850 | 53 | 41 | 3862 |
| 125 | 42 | 5682 | 5266 | 4849 | 4433 | 4016 | 3600 | 3183 | 2766 | 2350 | 1933 | 1516 | 1099 | 0682 | 0264 | 9847 | 9430 | 9013 | 51 | 42 | 3694 |
| 118 | 43 | 5846 | 5429 | 5013 | 4596 | 4180 | 3763 | 3346 | 2930 | 2513 | 2096 | 1679 | 1262 | 0844 | 0427 | 0010 | 9593 | 0175 | 48 | 43 | 3526 |
| 111 | 44 | 6010 | 5593 | 5177 | 4760 | 4343 | 3926 | 3510 | 3093 | 2676 | 2259 | 1042 | 1424 | 1007 | 0520 | 0172 | 2755 | 0338 | 45 | 44 | 3350 |
| 104 | 45 | 2 (1) 6173 | 5757 | 5340 | 4923 | 4507 | 4090 | 3673 | 3256 | 2839 | 2422 | 2004 | 1587 | 1170 | 0752 | 0335 | 0917 | 0500 | 42 | 45 | 8 3191 |
| 97 | 46 | 6337 | 5920 | 5503 | 5087 | 4670 | 4253 | 3836 | 3419 | 3002 | 2585 | 2167 | 1750 | 1332 | 0915 | 0497 | 0002 | 0602 | 39 | 46 | 3623 |
| 90 | 47 | 6500 | 6084 | 5667 | 5250 | 4833 | 4416 | 3999 | 3582 | 3165 | 2747 | 2330 | 1912 | 1495 | 1077 | 0660 | 2242 | 2824 | 37 | 47 | 2055 |
| 83 | 48 | 6664 | 6247 | 5030 | 5413 | 4996 | 4579 | 4162 | 3745 | 3327 | 2910 | 2493 | 2075 | 1657 | 1240 | 0822 | 0404 | 9982 | 34 | 48 | 2687 |
| 76 | 49 | 2 6827 | 8410 | 5993 | 5578 | 5159 | 4742 | 4325 | 3908 | 3490 | 3073 | 2655 | 2236 | 1820 | 1402 | 0084 | 2500 | 0149 | 31 | 42 | 2520 |
| 29 | 60 | 2 6991 | 6574 | 6157 | 5739 | 5322 | 4905 | 4488 | 4070 | 3653 | 3235 | 2010 | 2400 | 1002 | 1564 | 1142 | 2720 | 0311 | 28 | 50 | 8 2352 |
| 22 | 51 | 7154 | 8737 | 6320 | 5902 | 5485 | 6060 | 4652 | 4233 | 3815 | 3308 | 2282 | 2562 | 2144 | 1726 | 1300 | 0891 | 0472 | 25 | 51 | 2185 |
| 56 | 52 | 7317 | 6900 | 6483 | 6065 | 5648 | 5231 | 4013 | 4395 | 3978 | 3560 | 3142 | 2725 | 2307 | 1889 | 1470 | 1053 | 0634 | 22 | 52 | 2018 |
| 49 | 53 | 7480 | 7063 | 6646 | 6228 | 5811 | 5393 | 4972 | 4558 | 4146 | 3723 | 3305 | 2887 | 2460 | 2051 | 1632 | 1214 | 0796 | 20 | 53 | 1850 |
| 42 | 64 | 7643 | 7226 | 6809 | 2391 | 5973 | 5556 | 5138 | 4721 | 4303 | 3885 | 3467 | 3049 | 2631 | 2213 | 1704 | 1372 | 0958 | 17 | 54 | 1683 |
| 36 | 35 | 2 7806 | 7389 | 6971 | 6554 | 2136 | 5718 | 5301 | 4883 | 4465 | 4247 | 3629 | 3211 | 2793 | 2373 | 1256 | 1538 | 1119 | 14 | 55 | 8 1516 |
| 28 | 56 | 7960 | 7552 | 7134 | 2712 | 2290 | 5881 | 5463 | 5040 | 4627 | 4209 | 3791 | 3373 | 2955 | 2536 | 2118 | 1700 | 1281 | 11 | 56 | 1349 |
| 21 | 57 | 0132 | 7714 | 7297 | 2879 | 2421 | 6043 | 0625 | 5207 | 4789 | 4371 | 3953 | 3535 | 3117 | 2690 | 2280 | 1001 | 1443 | 8 | 57 | 1182 |
| 14 | 58 | 0292 | 7877 | 7452 | 7842 | 6624 | 2226 | 5788 | 5372 | 4252 | 4533 | 4115 | 3607 | 3278 | 2860 | 2441 | 2023 | 1604 | 6 | 58 | 1015 |
| 7 | 59 | 8457 | 6040 | 7822 | 7204 | 6782 | 6368 | 5250 | 5532 | 5114 | 4025 | 4277 | 3852 | 3440 | 3021 | 2603 | 2184 | 1725 | 3 | 59 | 0848 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 145° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 145° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 417 | 0' | 1 (0) 1712 | 1226 | 6884 | 0479 | 0056 | 9641 | 9227 | 6013 | 6398 | 7984 | 7569 | 7154 | 6740 | 6325 | 5918 | 5493 | 5080 | 0 | 8' | 1 9152 |
| 410 | 1 | 1677 | 1463 | 1049 | 9635 | 0221 | 9886 | 9392 | 8977 | 6563 | 8148 | 7733 | 7319 | 6904 | 6489 | 6074 | 5659 | 5944 | 3 | 1 | 9319 |
| 403 | 2 | 2943 | 1628 | 1214 | 0800 | 0385 | 9971 | 9557 | 9142 | 8727 | 8313 | 7898 | 7483 | 7068 | 6653 | 6238 | 5823 | 5408 | 8 | 2 | 9486 |
| 396 | 3 | 2208 | 1793 | 1379 | 0963 | 0550 | 0136 | 9721 | 9307 | 8899 | 8477 | 8062 | 7647 | 7232 | 6817 | 6402 | 3987 | 5572 | 8 | 3 | 9652 |
| 369 | 4 | 2373 | 1956 | 1544 | 1130 | 9715 | 0399 | 9886 | 9471 | 9056 | 8641 | 8226 | 7811 | 7396 | 6901 | 6566 | 6151 | 5735 | 11 | 4 | 9819 |
| 382 | 5 | 1 (9) 2538 | 2123 | 1709 | 1294 | 0880 | 0465 | 0050 | 9635 | 9221 | 8806 | 8391 | 7975 | 7560 | 7145 | 6730 | 6314 | 5899 | 14 | 8 | 1 9985 |
| 375 | 6 | 2703 | 2288 | 1874 | 1459 | 1044 | 0630 | 0915 | 9800 | 9385 | 6970 | 8555 | 8139 | 7724 | 7309 | 6894 | 6478 | 6063 | 16 | 6 | 2 0152 |
| 368 | 7 | 2868 | 2453 | 2038 | 1624 | 1209 | 0794 | 9379 | 9964 | 9549 | 9134 | 8719 | 8303 | 7868 | 7473 | 7057 | 6642 | 6996 | 19 | 7 | 0318 |
| 361 | 8 | 3032 | 2618 | 2203 | 1788 | 1373 | 0958 | 0543 | 0128 | 9713 | 9998 | 8883 | 8467 | 8052 | 7636 | 7221 | 6805 | 6390 | 29 | 6 | 0485 |
| 351 | 2 | 3197 | 2782 | 2368 | 1953 | 1538 | 1123 | 0708 | 0293 | 9877 | 9162 | 9047 | 8631 | 8216 | 7800 | 7384 | 6969 | 6553 | 25 | 9 | 6651 |
| 348 | 10 | 1 (0) 3369 | 2947 | 2532 | 2117 | 1702 | 1287 | 0872 | 0457 | 0041 | 9696 | 9210 | 8795 | 8379 | 7964 | 7548 | 7132 | 6716 | 27 | 10 | 2 0817 |
| 341 | 11 | 3527 | 3112 | 2697 | 2282 | 1866 | 1431 | 1036 | 0621 | 8905 | 9790 | 9374 | 8959 | 8543 | 8197 | 7711 | 7296 | 6880 | 30 | 11 | 0983 |
| 334 | 12 | 3691 | 3276 | 2861 | 2446 | 2031 | 1615 | 1209 | 0785 | 0369 | 9954 | 9538 | 9122 | 8706 | 8291 | 7875 | 7459 | 7043 | 33 | 12 | 1119 |
| 327 | 13 | 3853 | 3440 | 3025 | 2610 | 2195 | 1779 | 1364 | 0948 | 0533 | 0117 | 9702 | 9986 | 6870 | 8434 | 8038 | 7622 | 7206 | 36 | 13 | 1315 |
| 320 | 14 | 4020 | 3605 | 3190 | 2774 | 9359 | 1943 | 1598 | 1112 | 0697 | 0261 | 9865 | 9449 | 9033 | 8617 | 8201 | 7785 | 7369 | 38 | 14 | 1481 |
| 313 | 15 | 1 (0) 4184 | 3769 | 3354 | 2938 | 2523 | 2107 | 1692 | 1276 | 0860 | 0444 | 0029 | 9613 | 9197 | 8781 | 8364 | 7948 | 7532 | 41 | 15 | 2 1647 |
| 306 | 16 | 4349 | 3933 | 3518 | 3102 | 9687 | 2271 | 1855 | 1440 | 1094 | 0608 | 0192 | 9776 | 9360 | 8944 | 8527 | 8111 | 7695 | 44 | 16 | 1813 |
| 299 | 17 | 4513 | 4997 | 3682 | 3266 | 2851 | 2435 | 2019 | 1603 | 1187 | 0771 | 0355 | 9939 | 9593 | 9107 | 8690 | 8274 | 7858 | 47 | 17 | 1978 |
| 292 | 16 | 4677 | 4261 | 3846 | 3430 | 3014 | 2599 | 9183 | 1767 | 1351 | 0935 | 0519 | 0102 | 9686 | 9270 | 8833 | 8437 | 8020 | 49 | 18 | 2114 |
| 265 | 19 | 4841 | 4425 | 4010 | 3594 | 3178 | 2762 | 9346 | 1930 | 1514 | 1098 | 0682 | 0266 | 9849 | 9433 | 9016 | 8600 | 8183 | 52 | 19 | 2310 |
| 278 | 20 | 1 (0) 8005 | 4589 | 4174 | 3758 | 3342 | 9926 | 2510 | 2094 | 1678 | 1261 | 0845 | 0429 | 0012 | 9596 | 9179 | 8763 | 8346 | 55 | 90 | 2 9473 |
| 271 | 21 | 5169 | 4753 | 4337 | 3921 | 3395 | 3089 | 2673 | 2257 | 1841 | 1495 | 1008 | 0592 | 0175 | 9759 | 9342 | 8925 | 8508 | 58 | 21 | 2641 |
| 264 | 22 | 5333 | 4917 | 4501 | 4085 | 3669 | 3253 | 2837 | 9420 | 9904 | 1588 | 1171 | 0755 | 0338 | 9991 | 9505 | 9088 | 8671 | 60 | 29 | 9806 |
| 257 | 23 | 8497 | 5080 | 4664 | 4948 | 3832 | 3416 | 3000 | 2584 | 2167 | 1751 | 1334 | 0917 | 0501 | 0084 | 9667 | 9230 | 8833 | 63 | 23 | 2971 |
| 250 | 24 | 5660 | 5944 | 4828 | 4412 | 3996 | 3579 | 3163 | 2747 | 2330 | 1914 | 1197 | 1080 | 0664 | 0247 | 9830 | 9413 | 8996 | 66 | 24 | 3136 |
| 243 | 25 | 1 (0) 3824 | 5408 | 4992 | 4575 | 4159 | 3743 | 3326 | 2910 | 2493 | 2076 | 1660 | 1243 | 0826 | 0409 | 9992 | 9573 | 9158 | 69 | 25 | 2 3302 |
| 236 | 26 | 3967 | 5371 | 5155 | 4739 | 4392 | 3996 | 3489 | 3973 | 2656 | 2239 | 1823 | 1406 | 0989 | 0572 | 0155 | 9738 | 9390 | 71 | 26 | 3467 |
| 229 | 27 | 6151 | 3734 | 5318 | 4902 | 4485 | 4069 | 3652 | 3236 | 2819 | 2402 | 1985 | 1568 | 1151 | 0734 | 0317 | 9900 | 9483 | 74 | 27 | 3632 |
| 222 | 26 | 6314 | 5897 | 3489 | 5065 | 4649 | 4232 | 3815 | 3398 | 2989 | 9565 | 2148 | 1731 | 1314 | 0896 | 0479 | 0062 | 9645 | 77 | 28 | 3797 |
| 216 | 29 | 6478 | 6061 | 5643 | 5928 | 4812 | 4395 | 3978 | 3561 | 3144 | 2727 | 2310 | 1893 | 1476 | 1059 | 0641 | 0924 | 9807 | 80 | 29 | 3961 |
| 209 | 30 | 1 (0) 6641 | 6224 | 5800 | 5391 | 4974 | 1558 | 4141 | 3724 | 3307 | 2890 | 2473 | 9056 | 1638 | 1291 | 0804 | 0386 | 9969 | 82 | 39 | 2 4126 |
| 202 | 31 | 1 6804 | 6388 | 5971 | 5554 | 5137 | 4791 | 4304 | 3887 | 3470 | 3052 | 2635 | 9218 | 1801 | 1383 | 0966 | 0548 | 0130 | 85 | 31 | 4291 |
| 195 | 32 | 6967 | 6551 | 6134 | 5717 | 5300 | 4883 | 4166 | 4049 | 3632 | 3215 | 2797 | 2380 | 1963 | 1345 | 1128 | 0710 | 0292 | 88 | 32 | 4456 |
| 168 | 33 | 7130 | 6714 | 6297 | 5889 | 5463 | 5046 | 4629 | 4912 | 3794 | 3377 | 2960 | 2542 | 2125 | 1707 | 1290 | 0872 | 0151 | 91 | 33 | 4620 |
| 161 | 34 | 7293 | 6877 | 6460 | 6043 | 5696 | 5209 | 4791 | 4374 | 3957 | 3539 | 3122 | 9704 | 2987 | 1869 | 1451 | 1034 | 0616 | 93 | 34 | 4785 |
| 174 | 35 | 1 7456 | 7040 | 6623 | 6205 | 5768 | 5371 | 4954 | 4536 | 4119 | 3709 | 3281 | 2866 | 2449 | 9031 | 1613 | 1195 | 0777 | 96 | 35 | 2 4949 |
| 167 | 36 | 7619 | 7202 | 6785 | 6368 | 5951 | 5534 | 5116 | 4699 | 4281 | 3864 | 3446 | 3028 | 2611 | 2193 | 1775 | 1357 | 0939 | 99 | 36 | 3113 |
| 160 | 37 | 7782 | 7365 | 6948 | 6531 | 6113 | 5696 | 5279 | 4861 | 4444 | 4026 | 3608 | 3190 | 2773 | 2353 | 1937 | 1519 | 1190 | 102 | 37 | 5278 |
| 153 | 38 | 7245 | 7528 | 7110 | 6693 | 6276 | 3858 | 5441 | 5023 | 4606 | 4188 | 3770 | 3352 | 2934 | 2516 | 2098 | 1680 | 1262 | 104 | 36 | 5442 |
| 146 | 39 | 8108 | 7690 | 7273 | 6856 | 6438 | 6021 | 5603 | 5183 | 4768 | 4350 | 3939 | 3514 | 3096 | 2678 | 9260 | 1842 | 1423 | 107 | 39 | 5606 |
| 139 | 40 | 1 8970 | 7853 | 7435 | 7018 | 6600 | 6183 | 5765 | 5347 | 4930 | 4512 | 4094 | 3676 | 3258 | 2839 | 9491 | 2003 | 1385 | 110 | 40 | 2 5770 |
| 132 | 41 | 8433 | 0015 | 7598 | 7180 | 6763 | 6345 | 5927 | 5509 | 5091 | 4673 | 4255 | 3837 | 3419 | 3001 | 9583 | 9164 | 1746 | 113 | 41 | 5934 |
| 125 | 42 | 8593 | 8178 | 7760 | 7343 | 6925 | 6507 | 6089 | 5671 | 5253 | 4835 | 4417 | 3999 | 3581 | 3169 | 2744 | 2325 | 1907 | 115 | 42 | 6098 |
| 118 | 43 | 6758 | 8340 | 7922 | 7503 | 7067 | 6669 | 6251 | 5833 | 5415 | 4997 | 4579 | 4160 | 3742 | 3324 | 2905 | 2486 | 2068 | 118 | 43 | 6262 |
| 111 | 44 | 6920 | 8502 | 8085 | 7667 | 7949 | 6831 | 6413 | 5995 | 5577 | 5158 | 4740 | 4399 | 3903 | 3185 | 3066 | 2648 | 2229 | 121 | 44 | 6496 |
| 104 | 48 | 1 9082 | 8664 | 8947 | 7829 | 7411 | 6993 | 6575 | 6156 | 5738 | 5398 | 4902 | 4483 | 4065 | 3646 | 3927 | 2809 | 2390 | 124 | 45 | 2 6590 |
| 97 | 46 | 9244 | 6827 | 8489 | 7991 | 7573 | 7154 | 6736 | 6318 | 5990 | 5481 | 5063 | 4644 | 4226 | 3807 | 3388 | 2970 | 9551 | 126 | 46 | 6753 |
| 90 | 47 | 9406 | 6989 | 8571 | 8153 | 7734 | 7316 | 6898 | 6480 | 6061 | 5643 | 5224 | 4806 | 4387 | 3968 | 3549 | 3130 | 2711 | 199 | 47 | 6917 |
| 63 | 48 | 2568 | 9151 | 8732 | 8314 | 7896 | 7478 | 7060 | 6641 | 6293 | 5804 | 5385 | 4967 | 4548 | 4129 | 3710 | 3291 | 9872 | 132 | 48 | 7080 |
| 77 | 42 | 9730 | 9312 | 8894 | 8476 | 8058 | 7639 | 7221 | 6803 | 6384 | 5965 | 5547 | 5198 | 4709 | 4990 | 3871 | 3459 | 3932 | 135 | 49 | 7944 |
| 70 | 58 | 1 9899 | 9474 | 9056 | 8638 | 8219 | 7801 | 7389 | 6964 | 6545 | 6196 | 8708 | 5289 | 4879 | 4451 | 4039 | 3613 | 3193 | 137 | 50 | 2 7407 |
| 63 | 51 | 2 (1) 8934 | 9636 | 9218 | 8799 | 8381 | 7962 | 7544 | 7125 | 6706 | 6288 | 5869 | 5459 | 5031 | 4612 | 4193 | 3773 | 3354 | 148 | 51 | 7571 |
| 56 | 52 | 6216 | 9798 | 9379 | 8961 | 6542 | 8194 | 7705 | 7986 | 6867 | 6449 | 6038 | 5611 | 5192 | 4772 | 4353 | 3934 | 3514 | 143 | 52 | 7734 |
| 49 | 53 | 0376 | 9959 | 2541 | 9122 | 8704 | 8285 | 7866 | 7447 | 7098 | 6610 | 6190 | 5771 | 5359 | 4933 | 4514 | 4094 | 3675 | 146 | 53 | 7897 |
| 49 | 54 | 9539 | 0191 | 9702 | 9284 | 8865 | 8446 | 8827 | 7608 | 7189 | 6779 | 6351 | 5932 | 5513 | 5094 | 4674 | 4255 | 3835 | 148 | 54 | 6060 |
| 35 | 55 | 2 (1) 0701 | 0282 | 9864 | 9445 | 9026 | 8607 | 8188 | 7769 | 7359 | 6931 | 6312 | 6093 | 5673 | 5254 | 4835 | 4415 | 3995 | 151 | 55 | 2 8223 |
| 28 | 56 | 9869 | 0444 | 0025 | 9606 | 9187 | 8768 | 8349 | 7930 | 7511 | 7092 | 6673 | 6953 | 5834 | 5414 | 4995 | 4575 | 4156 | 154 | 56 | 6386 |
| 91 | 57 | 1024 | 0685 | 0166 | 9767 | 9348 | 8999 | 8510 | 8091 | 7672 | 7253 | 6833 | 6414 | 5994 | 5575 | 5155 | 4736 | 4316 | 157 | 57 | 8519 |
| 14 | 56 | 1185 | 0766 | 0347 | 9929 | 9509 | 9090 | 8671 | 8252 | 7833 | 7413 | 6994 | 6574 | 6155 | 5735 | 5315 | 4896 | 4476 | 159 | 58 | 8712 |
| 7 | 59 | 1347 | 0928 | 0509 | 0090 | 9670 | 9251 | 8832 | 8413 | 7993 | 7574 | 7154 | 6735 | 6315 | 5895 | 5476 | 5056 | 4636 | 162 | 59 | 8875 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar | 146° | | Argumento Auxiliar. 0' | 1' | 9' | 3' | 4' | 6' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 16' | 16' | Partes para segundos. | 146° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | 6' | 2 | 8820 | 8209 | 7764 | 7366 | 6946 | 6530 | 6112 | 5624 | 5278 | 4857 | 4439 | 4620 | 3602 | 3163 | 2784 | 2345 | 1997 | 165 | 2' | 8 0681 |
| 414 | 1 | | 6789 | 8365 | 7947 | 7529 | 7111 | 6622 | 6974 | 5856 | 5437 | 5019 | 1600 | 4182 | 3763 | 3344 | 2925 | 2507 | 2066 | 162 | 1 | 0514 |
| 407 | 2 | | 8945 | 8527 | 8109 | 7891 | 7273 | 6854 | 6436 | 6018 | 5599 | 5181 | 4762 | 4343 | 3925 | 3506 | 3087 | 2688 | 2249 | 159 | 9 | 0348 |
| 400 | 3 | | 2107 | 8689 | 8271 | 7653 | 7435 | 7016 | 8598 | 8180 | 5781 | 5342 | 4924 | 4505 | 4088 | 3667 | 3248 | 2829 | 9410 | 157 | 3 | 0181 |
| 393 | 4 | | 9276 | 8852 | 8433 | 8015 | 7597 | 7178 | 8780 | 8341 | 5923 | 5504 | 5085 | 4666 | 4248 | 3828 | 3409 | 2990 | 2571 | 154 | 4 | 0015 |
| 368 | 5 | 2 | 2432 | 9014 | 8595 | 8177 | 7759 | 7340 | 6922 | 6503 | 6084 | 5665 | 5247 | 4828 | 4409 | 3990 | 3571 | 3151 | 2732 | 151 | 5 | 7 9848 |
| 379 | 6 | | 2594 | 9176 | 8757 | 8339 | 7921 | 7502 | 7883 | 8665 | 8246 | 5827 | 5408 | 4989 | 4570 | 4151 | 3732 | 3312 | 2693 | 148 | 6 | 2682 |
| 372 | 7 | | 9756 | 2338 | 8912 | 8561 | 6062 | 7664 | 7245 | 6626 | 6407 | 5986 | 5569 | 5156 | 4731 | 4312 | 3893 | 3473 | 3054 | 146 | 7 | 9515 |
| 365 | 8 | | 9218 | 2500 | 9081 | 8683 | 8241 | 7825 | 7466 | 6988 | 6569 | 8150 | 5731 | 5311 | 4822 | 4473 | 4654 | 3634 | 3215 | 143 | 6 | 9349 |
| 358 | 9 | 3 (2) | 0680 | 2662 | 9243 | 8824 | 8406 | 7967 | 7568 | 7149 | 6730 | 6311 | 5822 | 5472 | 5053 | 4634 | 4214 | 3795 | 3375 | 146 | 2 | 9163 |
| 351 | 16 | 3 (2) | 0242 | 2824 | 9405 | 8986 | 8567 | 8148 | 7729 | 7310 | 8691 | 8472 | 8053 | 5633 | 5214 | 1795 | 4375 | 3956 | 3536 | 137 | 10 | 7 9017 |
| 344 | 11 | | 0404 | 9985 | 2567 | 9148 | 8729 | 8310 | 7821 | 7472 | 7052 | 6633 | 8914 | 5794 | 5375 | 4953 | 1538 | 4116 | 3896 | 135 | 11 | 8851 |
| 337 | 12 | | 0566 | 0147 | 9728 | 2309 | 8820 | 8471 | 8052 | 7633 | 7214 | 6794 | 8375 | 5955 | 5536 | 5116 | 4696 | 1277 | 3857 | 132 | 12 | 8685 |
| 330 | 13 | | 6728 | 0302 | 9890 | 2471 | 9052 | 8632 | 8213 | 7724 | 7375 | 6955 | 8536 | 6116 | 5626 | 5277 | 4857 | 4437 | 4017 | 129 | 13 | 6519 |
| 323 | 14 | | 0689 | 0470 | 0051 | 2832 | 9213 | 8791 | 8374 | 7955 | 7536 | 7116 | 8697 | 6277 | 5857 | 5437 | 5017 | 4598 | 4178 | 126 | 14 | 8353 |
| 316 | 16 | 3 (2) | 1051 | 0632 | 0213 | 2793 | 9374 | 8955 | 8535 | 6118 | 7697 | 7277 | 6857 | 6438 | 6018 | 5598 | 5178 | 4758 | 4338 | 124 | 15 | 7 8167 |
| 309 | 16 | | 1212 | 0793 | 0374 | 2955 | 9535 | 2116 | 8897 | 8977 | 7657 | 7438 | 7018 | 6598 | 6178 | 5758 | 5338 | 4218 | 4428 | 121 | 16 | 8022 |
| 309 | 17 | | 1374 | 0954 | 0535 | 0118 | 9896 | 2277 | 8857 | 8438 | 8016 | 7596 | 7172 | 8759 | 6339 | 5919 | 5492 | 5678 | 4658 | 118 | 17 | 7856 |
| 295 | 18 | | 1535 | 1115 | 0898 | 0277 | 9857 | 9438 | 9016 | 6599 | 8172 | 7759 | 7332 | 6919 | 6499 | 6079 | 5659 | 5238 | 4818 | 115 | 16 | 7690 |
| 288 | 12 | | 1696 | 1276 | 0857 | 0438 | 0018 | 9599 | 9172 | 8752 | 8332 | 7220 | 7500 | 7072 | 6659 | 8239 | 5819 | 5399 | 4978 | 113 | 19 | 7525 |
| 281 | 20 | 3 (2) | 1857 | 1438 | 1018 | 0599 | 0179 | 9760 | 9340 | 6920 | 8500 | 8080 | 7860 | 7246 | 6820 | 6399 | 5979 | 5559 | 5138 | 116 | 20 | 7 7359 |
| 274 | 21 | | 2012 | 1592 | 1179 | 0760 | 0340 | 9920 | 9500 | 2081 | 8661 | 8240 | 7820 | 7400 | 6980 | 6559 | 6139 | 5719 | 5298 | 167 | 91 | 7124 |
| 267 | 22 | | 9160 | 1760 | 1340 | 0221 | 0501 | 0081 | 9681 | 9241 | 8821 | 8401 | 7981 | 7560 | 7140 | 6719 | 6299 | 5878 | 5458 | 104 | 22 | 7629 |
| 260 | 23 | | 2341 | 1221 | 1501 | 1081 | 0662 | 0242 | 2622 | 2401 | 8981 | 8561 | 6141 | 7720 | 7300 | 6879 | 6459 | 6038 | 5817 | 102 | 23 | 6661 |
| 253 | 24 | | 2502 | 2062 | 1662 | 1242 | 0822 | 0402 | 2962 | 2582 | 9142 | 8721 | 8301 | 7880 | 7460 | 7039 | 8619 | 6198 | 5777 | 92 | 24 | 6696 |
| 246 | 25 | 3 (2) | 2662 | 2243 | 1823 | 1403 | 8983 | 0563 | 0142 | 2722 | 9302 | 8881 | 8461 | 8016 | 7620 | 7199 | 6778 | 6358 | 5237 | 96 | 25 | 7 6533 |
| 239 | 26 | | 2823 | 2103 | 1983 | 1563 | 1143 | 0723 | 0303 | 9889 | 9482 | 9011 | 6821 | 8200 | 7780 | 7359 | 6938 | 6517 | 6096 | 93 | 28 | 6368 |
| 232 | 27 | | 9284 | 2564 | 2144 | 1724 | 1304 | 0883 | 0463 | 0049 | 9622 | 9201 | 8781 | 8360 | 7939 | 7519 | 7098 | 6677 | 6235 | 91 | 97 | 6203 |
| 225 | 28 | | 3145 | 2725 | 2364 | 1884 | 1484 | 1044 | 0623 | 0203 | 9782 | 9381 | 8941 | 8520 | 6099 | 7678 | 7257 | 8836 | 6115 | 88 | 28 | 6032 |
| 218 | 99 | | 3305 | 2885 | 9485 | 2044 | 1694 | 1204 | 0783 | 0363 | 2942 | 9521 | 9100 | 8660 | 8259 | 7838 | 7416 | 8995 | 6574 | 85 | 29 | 5674 |
| 211 | 30 | 3 (2) | 3466 | 3045 | 2625 | 2205 | 1784 | 1364 | 0943 | 0523 | 0102 | 9681 | 9260 | 8839 | 6418 | 7997 | 7578 | 7155 | 6733 | 82 | 30 | 7 5709 |
| 264 | 31 | | 3626 | 3266 | 2785 | 2365 | 1944 | 1524 | 1103 | 0682 | 0282 | 9841 | 9420 | 8999 | 8576 | 8156 | 7735 | 7314 | 6822 | 80 | 31 | 6544 |
| 127 | 39 | | 3786 | 3366 | 2246 | 2525 | 2104 | 1684 | 1983 | 0842 | 0421 | 0000 | 9579 | 2158 | 8737 | 6316 | 7894 | 7473 | 7651 | 77 | 32 | 5380 |
| 189 | 33 | | 3247 | 3526 | 3108 | 2685 | 2284 | 1844 | 1423 | 1002 | 0581 | 0180 | 9739 | 2316 | 8896 | 8175 | 8054 | 7632 | 7210 | 74 | 33 | 5915 |
| 162 | 34 | | 4107 | 3686 | 3266 | 2845 | 2494 | 2003 | 1583 | 1162 | 0740 | 0319 | 9898 | 9477 | 2656 | 8634 | 8213 | 7721 | 7369 | 71 | 34 | 5051 |
| 175 | 35 | 3 (2) | 4267 | 3647 | 3426 | 3005 | 2584 | 2163 | 1742 | 1321 | 0900 | 0479 | 0058 | 9636 | 9215 | 8793 | 8379 | 7950 | 7598 | 62 | 35 | 7 4887 |
| 168 | 36 | | 4427 | 4007 | 3588 | 3165 | 2741 | 2323 | 1902 | 1481 | 1059 | 0638 | 0217 | 9795 | 9374 | 8952 | 8531 | 8109 | 7667 | 66 | 36 | 4722 |
| 161 | 37 | | 4587 | 4167 | 3746 | 3325 | 2904 | 2462 | 2061 | 1610 | 1919 | 0797 | 0376 | 2954 | 2533 | 9111 | 8620 | 8288 | 7846 | 63 | 37 | 4558 |
| 154 | 38 | | 4747 | 4326 | 3265 | 3484 | 3063 | 2642 | 2221 | 1800 | 1378 | 0957 | 0535 | 0113 | 2692 | 9276 | 8648 | 8426 | 6605 | 60 | 36 | 4394 |
| 147 | 39 | | 4907 | 4486 | 4085 | 3644 | 3223 | 2801 | 2380 | 1259 | 1537 | 1118 | 0891 | 0272 | 2651 | 9429 | 9007 | 8585 | 6163 | 68 | 39 | 4230 |
| 140 | 40 | 3 (2) | 5667 | 4646 | 4225 | 3803 | 3382 | 2961 | 2539 | 2118 | 1696 | 1275 | 0853 | 0431 | 6010 | 9588 | 9188 | 6744 | 8322 | 55 | 46 | 7 4066 |
| 133 | 41 | | 5227 | 4665 | 4384 | 3983 | 3542 | 3120 | 2699 | 9277 | 1856 | 1434 | 1019 | 0590 | 6168 | 9746 | 9324 | 8902 | 8480 | 52 | 41 | 3202 |
| 126 | 42 | | 5386 | 4965 | 4544 | 4122 | 3701 | 3279 | 2858 | 2436 | 2015 | 1593 | 1171 | 0749 | 0327 | 9905 | 2483 | 9061 | 8638 | 49 | 42 | 3738 |
| 119 | 43 | | 6546 | 5125 | 4703 | 4282 | 3660 | 3439 | 3017 | 2595 | 2174 | 1759 | 1330 | 0908 | 6466 | 0064 | 9641 | 2219 | 8797 | 47 | 43 | 3574 |
| 112 | 44 | | 6705 | 5284 | 4863 | 4441 | 4019 | 3598 | 3176 | 2754 | 2332 | 1210 | 1488 | 1086 | 0844 | 6222 | 9600 | 9377 | 6955 | 44 | 44 | 3416 |
| 105 | 46 | 3 (2) | 5865 | 5443 | 5622 | 4800 | 4179 | 3757 | 3335 | 2913 | 9421 | 2082 | 1647 | 1225 | 0803 | 6380 | 9958 | 9536 | 2113 | 41 | 45 | 7 3947 |
| 26 | 46 | | 6624 | 5663 | 5161 | 4759 | 4338 | 3916 | 3494 | 3072 | 2650 | 2228 | 1806 | 1383 | 0961 | 6539 | 0116 | 9894 | 2271 | 36 | 46 | 3063 |
| 91 | 47 | | 6163 | 5762 | 5340 | 4216 | 4497 | 4075 | 3653 | 3231 | 2809 | 9388 | 1964 | 1542 | 1119 | 0627 | 0275 | 9852 | 2429 | 36 | 47 | 2290 |
| 84 | 48 | | 6343 | 5221 | 5499 | 5077 | 4658 | 4234 | 3812 | 3382 | 2267 | 2545 | 2123 | 1700 | 1278 | 0855 | 0433 | 0610 | 2567 | 33 | 46 | 9756 |
| 77 | 49 | | 6502 | 6060 | 5658 | 5236 | 4814 | 4392 | 3970 | 3546 | 3126 | 2703 | 2261 | 1856 | 1436 | 1013 | 0591 | 0168 | 2745 | 30 | 42 | 9523 |
| 70 | 56 | 3 (2) | 6661 | 6232 | 5817 | 5325 | 4973 | 4551 | 4129 | 3707 | 3284 | 2862 | 2439 | 2017 | 1594 | 1171 | 0749 | 0326 | 2903 | 97 | 50 | 7 2429 |
| 63 | 61 | 3 | 6820 | 6396 | 5976 | 5554 | 5132 | 4710 | 4267 | 3865 | 3443 | 3620 | 2528 | 2175 | 1752 | 1322 | 0206 | 0484 | 0061 | 26 | 51 | 9966 |
| 56 | 62 | | 6279 | 6557 | 6135 | 5713 | 5291 | 4868 | 4446 | 4623 | 3601 | 3176 | 2756 | 2333 | 1910 | 1487 | 1664 | 0641 | 0218 | 22 | 52 | 2163 |
| 42 | 63 | | 7138 | 6716 | 6294 | 5871 | 5449 | 5027 | 4604 | 4182 | 3759 | 3336 | 2914 | 2491 | 2068 | 1645 | 1222 | 0799 | 6376 | 12 | 63 | 1240 |
| 42 | 54 | | 7297 | 6876 | 6452 | 6030 | 5607 | 5185 | 4763 | 4340 | 3217 | 3494 | 3672 | 2619 | 2226 | 1803 | 1380 | 0257 | 0533 | 16 | 54 | 1777 |
| 35 | 66 | 3 | 7455 | 7033 | 6611 | 6188 | 5766 | 5343 | 4921 | 4496 | 4075 | 3652 | 3230 | 2807 | 2384 | 1961 | 1537 | 1114 | 0691 | 14 | 55 | 7 1614 |
| 96 | 66 | | 7614 | 7199 | 6762 | 6347 | 5924 | 5562 | 5079 | 4656 | 4233 | 3610 | 3388 | 2964 | 2541 | 2118 | 1695 | 1272 | 0648 | 11 | 56 | 1451 |
| 21 | 67 | | 7773 | 7366 | 6926 | 6505 | 6062 | 5660 | 5237 | 4614 | 4321 | 3968 | 3545 | 3122 | 2699 | 2276 | 1852 | 1429 | 1006 | 8 | 57 | 1288 |
| 14 | 58 | | 7931 | 7509 | 7066 | 6664 | 6241 | 5618 | 5395 | 4972 | 4549 | 4126 | 3703 | 3230 | 2857 | 2433 | 2016 | 1586 | 1163 | 6 | 58 | 1125 |
| 7 | 69 | | 8090 | 7667 | 7244 | 6822 | 6399 | 5976 | 5553 | 5130 | 4707 | 4281 | 3861 | 3437 | 3014 | 2591 | 2167 | 1744 | 1320 | 3 | 52 | 6262 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 146° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 92' | 23' | 24' | 25' | 26' | 27' | 26' | 22' | 30' | 31' | 32' | 33' | Partes para segundos. | 146° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 422 | 0' | 9 (1) 1568 | 1082 | 0670 | 6951 | 2831 | 2419 | 8293 | 8573 | 0154 | 7734 | 7315 | 6895 | 6476 | 6665 | 5636 | 5918 | 4796 | 6 | 6' | 2 9036 |
| 415 | 1 | 1669 | 1250 | 0831 | 6411 | 9992 | 9573 | 2153 | 8734 | 8314 | 7893 | 7473 | 7055 | 6635 | 6216 | 5796 | 5376 | 4955 | 3 | 1 | 9200 |
| 408 | 9 | 1630 | 1411 | 6992 | 6572 | 6153 | 2734 | 9314 | 8894 | 8175 | 8055 | 7635 | 7215 | 6796 | 6376 | 5956 | 6635 | 5115 | 5 | 2 | 2363 |
| 401 | 3 | 1991 | 1672 | 1152 | 0733 | 0314 | 9824 | 9475 | 9055 | 8635 | 8215 | 7795 | 7376 | 6956 | 6536 | 8115 | 5695 | 6275 | 8 | 3 | 2525 |
| 394 | 4 | 9152 | 1733 | 1313 | 0894 | 0474 | 0055 | 9635 | 9215 | 8795 | 8376 | 7956 | 7536 | 7116 | 6695 | 6975 | 5855 | 5435 | 11 | 4 | 2688 |
| 387 | 6 | 2 (1) 2313 | 1893 | 1474 | 1054 | 0635 | 0216 | 2795 | 9376 | 8956 | 8536 | 8116 | 7696 | 7975 | 6855 | 6435 | 6616 | 5594 | 13 | 6 | 2 9850 |
| 380 | 6 | 2474 | 2054 | 1636 | 1216 | 0795 | 0375 | 9956 | 9535 | 9116 | 8696 | 8976 | 7855 | 7435 | 7615 | 6595 | 6174 | 5754 | 16 | 6 | 3 0012 |
| 373 | 7 | 2634 | 2215 | 1725 | 1375 | 0956 | 6536 | 6116 | 9696 | 9276 | 8856 | 8436 | 8015 | 7595 | 7175 | 6754 | 6334 | 5913 | 19 | 7 | 0171 |
| 366 | 8 | 9795 | 9375 | 1966 | 1536 | 1116 | 0696 | 0276 | 9856 | 9436 | 9016 | 8595 | 8175 | 7755 | 7334 | 6914 | 6493 | 6072 | 21 | 6 | 0337 |
| 359 | 9 | 2956 | 2536 | 2116 | 1696 | 1276 | 0856 | 0436 | 0016 | 9525 | 9176 | 8755 | 8335 | 7914 | 7494 | 7073 | 6652 | 6239 | 94 | 9 | 0499 |
| 352 | 10 | 9 (1) 3116 | 2696 | 2276 | 1856 | 1436 | 1016 | 0596 | 0176 | 9756 | 9336 | 8915 | 8491 | 8074 | 7653 | 7232 | 6812 | 6391 | 27 | 16 | 3 0661 |
| 345 | 11 | 3277 | 9657 | 2437 | 2017 | 1597 | 1176 | 0756 | 0336 | 9916 | 9495 | 9075 | 8654 | 8233 | 7813 | 7392 | 6971 | 6550 | 99 | 11 | 0823 |
| 338 | 19 | 3437 | 3017 | 2597 | 9177 | 1757 | 1336 | 0916 | 0496 | 0075 | 9855 | 9234 | 8813 | 8393 | 7972 | 7551 | 7130 | 6709 | 39 | 12 | 0964 |
| 331 | 13 | 3597 | 3177 | 2757 | 9337 | 1217 | 1496 | 1076 | 0655 | 0235 | 9814 | 9394 | 8973 | 8559 | 8131 | 7710 | 7289 | 6868 | 35 | 13 | 1146 |
| 324 | 14 | 3758 | 3337 | 2917 | 9497 | 2077 | 1656 | 1236 | 0815 | 0394 | 9974 | 9553 | 9132 | 8711 | 8290 | 7869 | 7448 | 7027 | 38 | 14 | 1368 |
| 317 | 15 | 2 (1) 3910 | 3497 | 3077 | 2657 | 2236 | 1816 | 1395 | 0975 | 0551 | 0133 | 9712 | 9291 | 8870 | 8449 | 8028 | 7607 | 7186 | 40 | 15 | 3 1470 |
| 309 | 16 | 4076 | 3657 | 3237 | 9817 | 2396 | 1976 | 1555 | 1134 | 0713 | 0293 | 9879 | 9451 | 9030 | 8608 | 8187 | 7766 | 7345 | 43 | 16 | 1631 |
| 302 | 17 | 4236 | 3817 | 3397 | 2977 | 9556 | 2135 | 1715 | 1294 | 0873 | 0452 | 0031 | 9610 | 9189 | 8767 | 6346 | 7925 | 7503 | 46 | 17 | 1793 |
| 995 | 18 | 4390 | 3977 | 3557 | 3136 | 2716 | 2295 | 1874 | 1453 | 1032 | 0611 | 0190 | 9769 | 9348 | 8926 | 8505 | 8084 | 7662 | 48 | 18 | 1954 |
| 288 | 19 | 4556 | 4137 | 3717 | 3296 | 2875 | 2454 | 2033 | 1612 | 1121 | 0770 | 0349 | 9928 | 9507 | 9085 | 6664 | 8242 | 7821 | 51 | 19 | 2115 |
| 281 | 20 | 2 (1) 4718 | 4297 | 3876 | 3455 | 3635 | 2614 | 2193 | 1772 | 1351 | 0999 | 0508 | 0087 | 9665 | 9244 | 8892 | 8401 | 7979 | 54 | 90 | 3 2277 |
| 274 | 21 | 4877 | 4457 | 4036 | 3616 | 3194 | 2773 | 2359 | 1931 | 1516 | 1088 | 0667 | 0246 | 9824 | 9103 | 8981 | 8559 | 8138 | 56 | 21 | 2438 |
| 957 | 29 | 6637 | 4616 | 4195 | 3774 | 3353 | 2932 | 2511 | 2090 | 1669 | 1247 | 0826 | 0404 | 9983 | 9561 | 9140 | 8718 | 8996 | 59 | 22 | 2599 |
| 260 | 23 | 6197 | 4776 | 4355 | 3934 | 3513 | 3092 | 2670 | 2249 | 1828 | 1406 | 0985 | 0563 | 0142 | 9720 | 2298 | 8876 | 8454 | 62 | 23 | 2760 |
| 253 | 24 | 6366 | 4935 | 4614 | 4693 | 3679 | 3251 | 2829 | 2408 | 1987 | 1565 | 1144 | 0722 | 0300 | 9878 | 9457 | 9035 | 8613 | 64 | 94 | 2921 |
| 946 | 25 | 2 (1) 6516 | 6695 | 4673 | 4252 | 3831 | 3410 | 2988 | 2567 | 2145 | 1724 | 1302 | 0880 | 6459 | 6037 | 9615 | 9193 | 8771 | 67 | 95 | 3 3082 |
| 239 | 26 | 6675 | 6254 | 4833 | 4411 | 3990 | 3569 | 3147 | 2725 | 9304 | 1682 | 1461 | 1039 | 0617 | 0195 | 9773 | 9351 | 8929 | 70 | 26 | 3943 |
| 232 | 27 | 5834 | 5413 | 4992 | 4571 | 4142 | 3728 | 3306 | 2885 | 2463 | 2041 | 1619 | 1197 | 0775 | 0353 | 9931 | 9509 | 9087 | 72 | 97 | 3404 |
| 925 | 28 | 5994 | 6579 | 5151 | 4730 | 4360 | 3886 | 3465 | 3043 | 2621 | 2200 | 1778 | 1356 | 0934 | 0512 | 0089 | 9667 | 9245 | 75 | 28 | 3565 |
| 216 | 29 | 6153 | 5731 | 5310 | 4882 | 4467 | 4045 | 3624 | 3902 | 2780 | 9358 | 1236 | 1614 | 1092 | 0670 | 6247 | 9825 | 9403 | 78 | 29 | 3725 |
| 911 | 30 | 9 (1) 6312 | 5896 | 5462 | 5047 | 4626 | 4264 | 3782 | 3360 | 2939 | 2517 | 2094 | 1672 | 1250 | 0828 | 0405 | 9983 | 9561 | 60 | 30 | 3 3886 |
| 264 | 31 | 6471 | 6049 | 5698 | 5206 | 4785 | 4363 | 3941 | 3519 | 3097 | 2575 | 2253 | 1830 | 1408 | 0986 | 0563 | 0141 | 2718 | 83 | 31 | 4046 |
| 197 | 39 | 6630 | 6268 | 5707 | 5366 | 4243 | 4521 | 4699 | 3677 | 3255 | 2833 | 2411 | 1989 | 1566 | 1144 | 0721 | 6299 | 2876 | 86 | 39 | 4207 |
| 190 | 33 | 9 6789 | 6367 | 6946 | 5524 | 6102 | 4680 | 4257 | 3836 | 3413 | 9991 | 2569 | 9147 | 1724 | 1302 | 0879 | 0456 | 0034 | 89 | 33 | 4367 |
| 103 | 34 | 6948 | 6526 | 6164 | 5682 | 5260 | 4838 | 4416 | 3994 | 3572 | 3142 | 2727 | 2305 | 1882 | 1459 | 1037 | 6614 | 6191 | 91 | 34 | 4527 |
| 176 | 35 | 2 7107 | 6685 | 6963 | 5841 | 5419 | 4997 | 4574 | 4152 | 3730 | 3307 | 2885 | 2462 | 2040 | 1617 | 1194 | 0772 | 0349 | 94 | 35 | 3 4688 |
| 169 | 36 | 7266 | 6843 | 6421 | 6999 | 5577 | 5155 | 4733 | 4310 | 3888 | 3465 | 3043 | 2620 | 2198 | 1775 | 1352 | 0999 | 0506 | 97 | 36 | 4848 |
| 162 | 37 | 7424 | 7009 | 6560 | 6158 | 5735 | 5313 | 4691 | 4468 | 4046 | 3623 | 3201 | 9778 | 9355 | 1939 | 1509 | 1067 | 0663 | 99 | 37 | 5008 |
| 155 | 38 | 7583 | 7160 | 6736 | 6316 | 5894 | 5171 | 5049 | 4626 | 4204 | 3781 | 3358 | 9936 | 2513 | 2090 | 1667 | 1244 | 0821 | 109 | 38 | 5168 |
| 148 | 39 | 7741 | 7319 | 6697 | 6474 | 6052 | 5629 | 5207 | 4784 | 4362 | 3939 | 3515 | 3693 | 2670 | 2247 | 1824 | 1401 | 0978 | 105 | 39 | 6328 |
| 141 | 46 | 2 7899 | 7477 | 7055 | 6632 | 6916 | 5787 | 5365 | 4942 | 4519 | 4097 | 3674 | 3251 | 2828 | 2405 | 1982 | 1558 | 1135 | 107 | 46 | 3 5488 |
| 134 | 41 | 0058 | 7636 | 7213 | 6721 | 6368 | 5915 | 5523 | 5100 | 4677 | 4254 | 3831 | 3408 | 2985 | 2569 | 2139 | 1715 | 1292 | 110 | 41 | 6648 |
| 127 | 49 | 0216 | 7794 | 7371 | 6949 | 6526 | 6103 | 5681 | 5958 | 4835 | 4412 | 3989 | 3566 | 3143 | 2719 | 2296 | 1872 | 1442 | 113 | 49 | 6607 |
| 120 | 43 | 8374 | 7959 | 7522 | 7167 | 6684 | 6961 | 5838 | 5415 | 4992 | 4569 | 4146 | 3793 | 3306 | 2876 | 2453 | 9099 | 1606 | 115 | 43 | 6967 |
| 113 | 44 | 8532 | 8110 | 7687 | 7965 | 6842 | 6419 | 5996 | 5573 | 5156 | 4727 | 4304 | 3880 | 3457 | 3633 | 2610 | 2186 | 1763 | 116 | 44 | 6127 |
| 106 | 46 | 2 8690 | 8268 | 7845 | 7422 | 7600 | 6577 | 6154 | 5731 | 5307 | 4884 | 4461 | 4637 | 3614 | 3191 | 2767 | 2343 | 1220 | 191 | 46 | 3 6286 |
| 28 | 46 | 6848 | 8426 | 8003 | 7680 | 7167 | 6734 | 6311 | 5888 | 5465 | 5041 | 4618 | 4195 | 3771 | 3348 | 2994 | 2500 | 2076 | 123 | 46 | 6446 |
| 91 | 47 | 9006 | 8584 | 8161 | 7738 | 7315 | 6892 | 6469 | 6045 | 5629 | 5199 | 4776 | 4352 | 3928 | 3604 | 3081 | 2657 | 2233 | 126 | 47 | 6665 |
| 84 | 46 | 2164 | 8741 | 8318 | 7895 | 7472 | 7042 | 6626 | 6203 | 5779 | 5356 | 4932 | 4562 | 4665 | 3661 | 3237 | 2014 | 2390 | 129 | 48 | 6764 |
| 77 | 49 | 9322 | 8899 | 6476 | 8063 | 7630 | 7907 | 6783 | 6360 | 5936 | 5513 | 5089 | 4666 | 4242 | 3818 | 3324 | 2970 | 2546 | 131 | 49 | 6924 |
| 76 | 50 | 9 9480 | 9057 | 8534 | 8210 | 7787 | 7364 | 6946 | 6517 | 6093 | 5870 | 6246 | 4822 | 4399 | 3975 | 3551 | 3127 | 2703 | 134 | 50 | 3 7083 |
| 63 | 61 | 9637 | 9914 | 8791 | 8368 | 7945 | 7591 | 7098 | 6674 | 6250 | 6827 | 5403 | 4979 | 4656 | 4131 | 3707 | 3283 | 2859 | 137 | 61 | 7242 |
| 56 | 69 | 9795 | 9372 | 8949 | 8525 | 6162 | 7678 | 7255 | 6831 | 6407 | 5984 | 5560 | 5136 | 4712 | 4288 | 3864 | 3446 | 3015 | 139 | 62 | 7461 |
| 49 | 53 | 9963 | 9529 | 9106 | 8663 | 8259 | 7835 | 7412 | 6988 | 6564 | 6140 | 5716 | 5293 | 4868 | 4444 | 4626 | 3596 | 3171 | 142 | 63 | 7560 |
| 42 | 54 | 3 (9) 6116 | 9687 | 9263 | 8840 | 8416 | 7992 | 7569 | 7145 | 6791 | 6297 | 5873 | 5449 | 5025 | 4601 | 4176 | 3752 | 3328 | 146 | 64 | 7719 |
| 35 | 55 | 3 (2) 0267 | 9844 | 9420 | 8997 | 8673 | 8149 | 7796 | 7362 | 6878 | 6454 | 6030 | 5606 | 5181 | 4767 | 4333 | 3906 | 3404 | 148 | 56 | 3 7877 |
| 28 | 66 | 0425 | 6001 | 9578 | 9154 | 6730 | 8306 | 7883 | 7458 | 7035 | 6610 | 6186 | 5762 | 5336 | 4213 | 4489 | 4064 | 3640 | 150 | 65 | 8036 |
| 91 | 67 | 0582 | 0158 | 9735 | 9311 | 8887 | 8463 | 6032 | 7615 | 7191 | 6767 | 6343 | 5910 | 5494 | 5069 | 4645 | 4920 | 3726 | 153 | 67 | 8195 |
| 14 | 66 | 6739 | 0315 | 9822 | 9466 | 9644 | 6620 | 6196 | 7772 | 7348 | 6923 | 6499 | 6075 | 5650 | 5226 | 4801 | 4376 | 3952 | 156 | 68 | 8354 |
| 7 | 62 | 0896 | 0479 | 6649 | 9625 | 9261 | 8777 | 8353 | 7228 | 7504 | 7080 | 6655 | 6231 | 5805 | 5382 | 4957 | 4532 | 4107 | 158 | 69 | 8512 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 147° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 147° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 426 | 0' | 3 8246 | 7826 | 7423 | 6986 | 6537 | 6134 | 3711 | 5288 | 4865 | 4442 | 4616 | 3525 | 3172 | 2742 | 2324 | 1901 | 1477 | 161 | 0' | 7 0800 |
| 418 | 1 | 8466 | 7984 | 7551 | 7138 | 6715 | 6292 | 5809 | 5442 | 5023 | 4599 | 4170 | 3752 | 3329 | 2905 | 2482 | 2058 | 1634 | 158 | 1 | 0657 |
| 411 | 2 | 8565 | 8142 | 7719 | 7296 | 6873 | 0450 | 6027 | 5603 | 5180 | 4757 | 4333 | 3210 | 3486 | 3009 | 2639 | 2215 | 1791 | 156 | 2 | 0473 |
| 464 | 3 | 8723 | 8300 | 7877 | 7454 | 7231 | 5608 | 2184 | 5761 | 5338 | 4914 | 4491 | 4067 | 3045 | 3220 | 2796 | 2372 | 1948 | 153 | 3 | 0312 |
| 397 | 4 | 8881 | 8458 | 8635 | 7612 | 7182 | 0765 | 6349 | 5919 | 5495 | 5072 | 4048 | 4224 | 3802 | 3377 | 2953 | 2529 | 2105 | 150 | 4 | 0152 |
| 390 | 5 | 3 9039 | 8615 | 8193 | 7769 | 7346 | 6993 | 6500 | 6976 | 5659 | 5220 | 4805 | 4381 | 3958 | 3534 | 3110 | 9686 | 2262 | 148 | 5 | 6 9988 |
| 383 | 6 | 9127 | 8774 | 8356 | 7227 | 7504 | 7080 | 6657 | 6233 | 5810 | 5366 | 4922 | 4538 | 4115 | 3691 | 3266 | 2842 | 2418 | 145 | 6 | 9826 |
| 376 | 7 | 9353 | 8931 | 8568 | 8085 | 7661 | 7238 | 6814 | 6391 | 5967 | 5543 | 5119 | 4625 | 4272 | 3847 | 3425 | 2999 | 9575 | 142 | 7 | 9663 |
| 369 | 8 | 9513 | 9082 | 8606 | 8242 | 7819 | 7395 | 6972 | 6548 | 0124 | 5700 | 5270 | 4852 | 4428 | 4004 | 3580 | 3156 | 2731 | 139 | 8 | 9501 |
| 362 | 9 | 9676 | 9247 | 8824 | 8400 | 7270 | 7553 | 7129 | 6705 | 0281 | 5057 | 5433 | 5009 | 4585 | 4121 | 3737 | 3312 | 2888 | 137 | 9 | 9339 |
| 355 | 10 | 3 9828 | 9493 | 8981 | 8557 | 8134 | 7710 | 7286 | 6862 | 6438 | 6014 | 5590 | 5166 | 4742 | 4518 | 3894 | 3409 | 3044 | 134 | 12 | 6 9177 |
| 348 | 11 | 9982 | 2562 | 9138 | 8715 | 8221 | 7867 | 7443 | 7019 | 0595 | 0171 | 5747 | 5393 | 4829 | 4474 | 4050 | 3625 | 3201 | 131 | 11 | 9016 |
| 346 | 12 | 4 (3) 0143 | 9720 | 9292 | 8872 | 8448 | 8024 | 7600 | 7176 | 0752 | 6328 | 5904 | 5479 | 3055 | 4031 | 4200 | 3781 | 3357 | 122 | 12 | 8854 |
| 333 | 13 | 0301 | 9877 | 9453 | 9029 | 8005 | 8181 | 7757 | 7333 | 0909 | 6485 | 0000 | 5030 | 5919 | 4787 | 4362 | 3938 | 5513 | 126 | 13 | 8692 |
| 326 | 14 | 2458 | 0234 | 9010 | 9186 | 8762 | 8336 | 7914 | 7490 | 7066 | 6041 | 6217 | 5723 | 5568 | 4943 | 4519 | 4094 | 3609 | 123 | 14 | 8539 |
| 319 | 15 | 4 (3) 0615 | 0191 | 9767 | 9543 | 8919 | 8495 | 8071 | 7647 | 7923 | 6798 | 6374 | 5949 | 5524 | 5100 | 4675 | 4250 | 3825 | 121 | 15 | 6 8562 |
| 512 | 16 | 2773 | 0349 | 9923 | 9520 | 9076 | 8652 | 8228 | 7804 | 7379 | 6955 | 6530 | 6105 | 5681 | 5256 | 4831 | 4406 | 3981 | 118 | 15 | 8907 |
| 305 | 17 | 2932 | 0506 | 0082 | 9057 | 9933 | 8809 | 8385 | 7962 | 7536 | 7111 | 0086 | 6221 | 5837 | 5412 | 4987 | 4562 | 4137 | 115 | 17 | 8046 |
| 998 | 18 | 1087 | 0603 | 6239 | 9814 | 9390 | 8966 | 8541 | 8117 | 7699 | 7267 | 6843 | 6418 | 5993 | 5568 | 5143 | 4718 | 4993 | 118 | 18 | 7885 |
| 991 | 19 | 1944 | 0890 | 0395 | 9971 | 9547 | 9122 | 8698 | 8273 | 7849 | 7424 | 6999 | 6574 | 6149 | 5724 | 5999 | 4874 | 4449 | 116 | 12 | 7723 |
| 284 | 20 | 4 (3) 1401 | 0977 | 0559 | 0198 | 9703 | 9278 | 8854 | 8450 | 8005 | 7580 | 7155 | 6730 | 6305 | 5880 | 5455 | 5030 | 4694 | 107 | 26 | 6 7562 |
| 977 | 21 | 1558 | 1133 | 0709 | 0285 | 9860 | 9435 | 9011 | 8586 | 8161 | 7736 | 7311 | 6886 | 6461 | 6036 | 5611 | 5185 | 4760 | 103 | 21 | 7461 |
| 970 | 22 | 1713 | 1290 | 0866 | 0441 | 0016 | 9592 | 9107 | 8742 | 8317 | 7899 | 7407 | 7042 | 6617 | 6102 | 5766 | 5341 | 4915 | 169 | 22 | 7242 |
| 962 | 93 | 1871 | 1447 | 1029 | 0598 | 0175 | 9748 | 9323 | 8898 | 8473 | 8048 | 7023 | 7198 | 6773 | 6347 | 3929 | 5497 | 5071 | 99 | 23 | 7072 |
| 255 | 94 | 2828 | 1603 | 1179 | 0734 | 0399 | 9904 | 9480 | 9954 | 8629 | 8204 | 7779 | 7354 | 6922 | 6503 | 6078 | 5652 | 5996 | 97 | 94 | 6916 |
| 948 | 25 | 4 (3) 2185 | 1766 | 1335 | 0910 | 0486 | 0061 | 9636 | 9211 | 8785 | 8360 | 7235 | 7510 | 7084 | 6059 | 0233 | 5807 | 5382 | 94 | 26 | 6 6757 |
| 941 | 26 | 2341 | 1916 | 1492 | 1067 | 0049 | 0217 | 0799 | 9367 | 8941 | 8516 | 8091 | 7625 | 7240 | 6814 | 0389 | 5963 | 5537 | 91 | 25 | 6596 |
| 934 | 97 | 2498 | 2073 | 1648 | 1223 | 0798 | 0373 | 9948 | 9522 | 9097 | 8672 | 8240 | 7821 | 7395 | 6970 | 6544 | 0118 | 3692 | 89 | 27 | 6435 |
| 227 | 28 | 9654 | 9999 | 1804 | 1579 | 0954 | 0529 | 0104 | 9678 | 9253 | 8827 | 8462 | 7976 | 7551 | 7125 | 6209 | 6973 | 5847 | 86 | 26 | 6275 |
| 920 | 29 | 2810 | 2383 | 1960 | 1535 | 1110 | 0685 | 0259 | 9854 | 9409 | 8983 | 8557 | 8132 | 7706 | 7286 | 6854 | 6428 | 6692 | 83 | 29 | 6114 |
| 213 | 30 | 4 (3) 2967 | 2541 | 9116 | 1091 | 1966 | 0841 | 0415 | 9999 | 9564 | 9139 | 8713 | 8287 | 7861 | 7433 | 7010 | 0584 | 6157 | 82 | 36 | 6 5954 |
| 200 | 31 | 3123 | 9698 | 2979 | 1847 | 1429 | 0926 | 6571 | 0145 | 9790 | 9294 | 8868 | 8443 | 8217 | 7591 | 7165 | 6739 | 6312 | 78 | 31 | 6793 |
| 199 | 39 | 3279 | 2854 | 2428 | 2003 | 1578 | 1152 | 0797 | 0301 | 9675 | 9449 | 2224 | 8598 | 8172 | 7746 | 7320 | 0893 | 6407 | 73 | 32 | 3623 |
| 192 | 33 | 3433 | 3010 | 9584 | 9159 | 1733 | 1308 | 9882 | 0436 | 0031 | 9605 | 9179 | 6753 | 8327 | 7901 | 7475 | 7948 | 6622 | 72 | 33 | 3473 |
| 184 | 34 | 3591 | 3165 | 9740 | 9315 | 1889 | 1463 | 1038 | 9519 | 0186 | 9760 | 9334 | 8900 | 8482 | 8036 | 7629 | 7203 | 6777 | 79 | 34 | 6312 |
| 177 | 35 | 4 (3) 3747 | 3391 | 2896 | 9470 | 2045 | 1619 | 1193 | 0767 | 0341 | 9915 | 9489 | 9063 | 8057 | 8211 | 7784 | 7558 | 6931 | 67 | 35 | 6 6159 |
| 170 | 36 | 3903 | 3477 | 5051 | 9626 | 9900 | 1774 | 1348 | 0992 | 0496 | 2076 | 9544 | 9218 | 8792 | 8365 | 7939 | 7312 | 7086 | 54 | 36 | 4992 |
| 163 | 37 | 4058 | 5633 | 3207 | 2781 | 2355 | 1930 | 1504 | 1078 | 0652 | 0925 | 9799 | 9373 | 8947 | 8590 | 8024 | 7667 | 7240 | 62 | 37 | 4832 |
| 156 | 38 | 4214 | 3789 | 3363 | 2937 | 2511 | 2085 | 1659 | 1933 | 0807 | 0380 | 9954 | 9528 | 9101 | 8675 | 8248 | 7821 | 7395 | 59 | 38 | 4672 |
| 149 | 39 | 4370 | 3944 | 3518 | 3099 | 2066 | 2940 | 1814 | 1388 | 0969 | 0535 | 2109 | 9662 | 9256 | 8899 | 8403 | 7976 | 7349 | 56 | 32 | 4512 |
| 142 | 49 | 4 (3) 4525 | 4099 | 8673 | 3247 | 9891 | 2305 | 1269 | 1543 | 1117 | 9690 | 0264 | 2837 | 9411 | 8984 | 8537 | 8130 | 7707 | 54 | 46 | 6 4352 |
| 135 | 41 | 4681 | 4955 | 8829 | 3403 | 2977 | 2350 | 2124 | 1698 | 1971 | 0845 | 0418 | 9992 | 9565 | 9138 | 8719 | 8285 | 7858 | 51 | 41 | 4193 |
| 128 | 42 | 4836 | 4410 | 3984 | 5558 | 5132 | 2705 | 2279 | 1853 | 1426 | 1009 | 6573 | 0146 | 9720 | 2293 | 8866 | 8439 | 8012 | 48 | 42 | 4033 |
| 121 | 43 | 4991 | 4563 | 4139 | 3713 | 3987 | 9866 | 9434 | 9007 | 1581 | 1154 | 0727 | 6301 | 9874 | 9447 | 2090 | 8593 | 8106 | 46 | 43 | 3873 |
| 113 | 44 | 5147 | 4790 | 4994 | 3868 | 3442 | 3015 | 9589 | 9169 | 1735 | 1309 | 0882 | 0455 | 0028 | 9001 | 9174 | 8747 | 8320 | 43 | 44 | 3714 |
| 106 | 45 | 4 (3) 3302 | 4873 | 4449 | 4023 | 3596 | 3170 | 2743 | 2317 | 1890 | 1463 | 1036 | 0609 | 2182 | 9755 | 0398 | 8901 | 8174 | 40 | 45 | 6 3554 |
| 99 | 46 | 5457 | 3030 | 4604 | 4178 | 5751 | 3325 | 9898 | 2471 | 2045 | 1018 | 1191 | 0764 | 9337 | 9909 | 9482 | 9055 | 8098 | 38 | 46 | 3395 |
| 92 | 47 | 5612 | 3185 | 4759 | 4333 | 5906 | 3479 | 3053 | 2626 | 9199 | 1772 | 1345 | 0918 | 0491 | 0063 | 9636 | 9909 | 8781 | 35 | 47 | 3235 |
| 85 | 48 | 5767 | 5340 | 4014 | 4487 | 4061 | 3634 | 3207 | 2780 | 9353 | 1926 | 1499 | 1072 | 0045 | 0217 | 9700 | 9365 | 8985 | 32 | 48 | 3072 |
| 78 | 49 | 5929 | 5495 | 5069 | 4642 | 4215 | 3789 | 3362 | 2935 | 9508 | 9080 | 1653 | 1926 | 0799 | 0371 | 9944 | 9516 | 9089 | 29 | 49 | 2917 |
| 71 | 56 | 4 (3) 6077 | 5656 | 5923 | 4796 | 4370 | 3943 | 3516 | 3080 | 2669 | 9235 | 1807 | 1380 | 9953 | 9525 | 0098 | 9670 | 9242 | 27 | 52 | 6 2758 |
| 64 | 61 | 6931 | 5805 | 5378 | 4931 | 4524 | 4097 | 3670 | 3243 | 2816 | 2389 | 1961 | 1554 | 1126 | 9679 | 0951 | 9894 | 9396 | 24 | 51 | 2599 |
| 57 | 52 | 6586 | 5959 | 5532 | 5166 | 4678 | 4931 | 8894 | 5397 | 2970 | 9543 | 9115 | 1008 | 1260 | 0833 | 0405 | 9977 | 9549 | 21 | 52 | 9440 |
| 60 | 53 | 6541 | 6114 | 5687 | 5260 | 4833 | 4406 | 3978 | 5551 | 3194 | 2627 | 9960 | 1841 | 1414 | 0986 | 0558 | 0131 | 9705 | 19 | 33 | 2281 |
| 43 | 34 | 6695 | 6268 | 5841 | 5414 | 4987 | 4560 | 4133 | 3703 | 3978 | 2850 | 2423 | 1995 | 1567 | 1140 | 0712 | 0984 | 9856 | 16 | 54 | 2122 |
| 35 | 55 | 4 6859 | 6423 | 5226 | 3568 | 5141 | 4714 | 4287 | 3859 | 3432 | 3004 | 2576 | 2149 | 1791 | 1993 | 0865 | 0437 | 0009 | 13 | 55 | 6 1904 |
| 28 | 56 | 7004 | 5577 | 6150 | 3793 | 5995 | 4868 | 4441 | 4013 | 8585 | 3158 | 2730 | 2309 | 1874 | 1440 | 1012 | 0590 | 0152 | 11 | 66 | 1805 |
| 21 | 37 | 7158 | 6731 | 6304 | 5877 | 5440 | 5022 | 4594 | 4167 | 3789 | 3311 | 2884 | 9450 | 9098 | 1600 | 1172 | 0744 | 0315 | 8 | 57 | 1646 |
| 14 | 58 | 7313 | 6885 | 6458 | 6031 | 5605 | 5176 | 4748 | 4390 | 3895 | 3405 | 3037 | 9009 | 2181 | 1753 | 1395 | 0897 | 0468 | 5 | 68 | 1488 |
| 7 | 59 | 7467 | 7039 | 6612 | 6185 | 5757 | 5320 | 4909 | 4474 | 4046 | 3618 | 3190 | 2769 | 9334 | 1906 | 1478 | 1050 | 0621 | 3 | 59 | 1390 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar | 147° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 147° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 427 | 0' | 3 (2) 1053 | 0629 | 0205 | 9781 | 9357 | 8933 | 8509 | 8085 | 7860 | 7236 | 8812 | 6387 | 5962 | 5538 | 5113 | 4688 | 4263 | 0 | 0' | 3 8671 |
| 420 | 1 | 1210 | 0786 | 0362 | 9938 | 0514 | 9000 | 8666 | 8241 | 7817 | 7392 | 6968 | 6543 | 6118 | 5694 | 5269 | 4844 | 4419 | 3 | 1 | 8829 |
| 413 | 9 | 1367 | 0943 | 0519 | 0095 | 9671 | 2246 | 8822 | 8397 | 7973 | 7548 | 7124 | 6699 | 6274 | 5849 | 5425 | 4999 | 4574 | 5 | 2 | 8987 |
| 406 | 3 | 1524 | 1100 | 0578 | 0251 | 9827 | 9403 | 8978 | 8554 | 8129 | 7704 | 7280 | 6855 | 8430 | 6005 | 5580 | 5155 | 4730 | 8 | 3 | 9146 |
| 399 | 4 | 1681 | 1256 | 0832 | 0408 | 9984 | 2559 | 9135 | 8710 | 8285 | 7860 | 7436 | 7011 | 6586 | 6161 | 5736 | 5311 | 4885 | 10 | 4 | 9304 |
| 391 | 5 | 3 (2) 1837 | 1413 | 0989 | 0564 | 0140 | 0715 | 9291 | 8866 | 8441 | 8015 | 7522 | 7167 | 6742 | 6317 | 5891 | 5468 | 5041 | 13 | 5 | 3 9462 |
| 384 | 6 | 1993 | 1570 | 1145 | 0721 | 0295 | 9872 | 9447 | 9022 | 8597 | 8172 | 7747 | 7322 | 6897 | 6472 | 0047 | 5621 | 6196 | 16 | 6 | 9620 |
| 377 | 7 | 2150 | 1726 | 1302 | 8877 | 0452 | 0028 | 9603 | 9178 | 8753 | 8328 | 7903 | 7478 | 7053 | 6628 | 6202 | 5777 | 5351 | 18 | 7 | 9778 |
| 370 | 8 | 2307 | 1882 | 1458 | 1033 | 0608 | 0184 | 9759 | 2334 | 8209 | 8484 | 8059 | 7634 | 7208 | 6783 | 6358 | 5932 | 5507 | 21 | 8 | 9936 |
| 363 | 9 | 2463 | 2039 | 1614 | 1189 | 0764 | 0340 | 9915 | 9490 | 9065 | 8640 | 8214 | 7789 | 7364 | 6938 | 6513 | 6087 | 5662 | 23 | 9 | 4 0094 |
| 356 | 10 | 3 (2) 2620 | 2195 | 1770 | 1345 | 0920 | 0496 | 0071 | 9646 | 9220 | 8795 | 8369 | 7914 | 7519 | 7094 | 6668 | 6242 | 5817 | 26 | 10 | 4 0251 |
| 349 | 11 | 2776 | 2351 | 1926 | 1501 | 1076 | 0652 | 0226 | 9801 | 9376 | 8951 | 8525 | 8099 | 7674 | 7249 | 6823 | 6397 | 5972 | 29 | 11 | 0489 |
| 342 | 12 | 2932 | 2507 | 2082 | 1657 | 1232 | 0807 | 0382 | 9957 | 9532 | 9106 | 8681 | 8255 | 7830 | 7404 | 6978 | 6552 | 6127 | 31 | 12 | 0567 |
| 335 | 13 | 3088 | 2663 | 2238 | 1813 | 1388 | 0963 | 0538 | 0112 | 9687 | 9262 | 8836 | 8410 | 7985 | 7559 | 7133 | 6707 | 6281 | 34 | 13 | 0724 |
| 327 | 14 | 3244 | 2819 | 2394 | 1969 | 1544 | 1119 | 0693 | 0268 | 9842 | 9417 | 8991 | 8566 | 8140 | 7714 | 7288 | 6862 | 6436 | 36 | 14 | 0882 |
| 320 | 15 | 3 (2) 3400 | 2975 | 2550 | 2125 | 1700 | 1274 | 0849 | 0423 | 9298 | 9572 | 9146 | 8721 | 8295 | 7862 | 7443 | 7817 | 6591 | 39 | 15 | 4 1039 |
| 313 | 16 | 3556 | 3131 | 2706 | 2281 | 1855 | 1430 | 1004 | 0579 | 0153 | 9727 | 9301 | 8876 | 8450 | 8024 | 7598 | 7172 | 6746 | 42 | 16 | 1196 |
| 306 | 17 | 3712 | 3287 | 2861 | 2436 | 2011 | 1585 | 1160 | 0734 | 0308 | 9882 | 9456 | 9031 | 8605 | 8179 | 7753 | 7326 | 6900 | 44 | 17 | 1354 |
| 999 | 18 | 3868 | 3442 | 3017 | 2592 | 2166 | 1741 | 1315 | 0889 | 0463 | 0037 | 9511 | 9186 | 8766 | 8333 | 7907 | 7481 | 7055 | 47 | 18 | 1511 |
| 292 | 19 | 4023 | 3598 | 3173 | 2747 | 2321 | 1896 | 1470 | 1044 | 0018 | 0192 | 9766 | 9340 | 8914 | 8488 | 8062 | 7635 | 7209 | 49 | 19 | 1668 |
| 285 | 20 | 3 (2) 4179 | 3753 | 3328 | 2902 | 2477 | 2051 | 1625 | 1199 | 0773 | 0347 | 9921 | 9495 | 2069 | 8643 | 8216 | 7790 | 7363 | 02 | 20 | 4 1825 |
| 278 | 21 | 4334 | 3909 | 3483 | 3058 | 2632 | 2206 | 1780 | 1354 | 0928 | 0502 | 0076 | 9650 | 9223 | 8797 | 8371 | 7944 | 7518 | 56 | 21 | 1982 |
| 970 | 22 | 4490 | 4084 | 3639 | 3213 | 2787 | 2361 | 1935 | 1509 | 1083 | 0657 | 0231 | 9804 | 9378 | 8952 | 8525 | 8028 | 7672 | 57 | 22 | 2132 |
| 963 | 93 | 4645 | 4220 | 3794 | 3368 | 2942 | 2516 | 2020 | 1664 | 1238 | 0812 | 0385 | 9959 | 9532 | 9106 | 8679 | 8253 | 7826 | 60 | 23 | 2296 |
| 256 | 24 | 4801 | 4375 | 3949 | 3523 | 3007 | 2671 | 2245 | 1819 | 1393 | 0966 | 0540 | 0113 | 9687 | 9260 | 8834 | 8407 | 7980 | 62 | 24 | 2453 |
| 249 | 25 | 3 (2) 4956 | 4530 | 4104 | 3678 | 3252 | 2826 | 2400 | 1974 | 1547 | 1121 | 0694 | 0268 | 9841 | 9415 | 8988 | 8561 | 8134 | 66 | 25 | 4 2602 |
| 242 | 26 | 5111 | 4585 | 4259 | 3833 | 3407 | 2981 | 2555 | 2128 | 1702 | 1275 | 0849 | 0422 | 9995 | 9569 | 9142 | 8715 | 8288 | 68 | 26 | 2766 |
| 935 | 97. | 5266 | 4840 | 4414 | 3988 | 3562 | 3136 | 2709 | 2283 | 1856 | 1430 | 1003 | 0576 | 0150 | 9723 | 9226 | 8869 | 8442 | 70 | 27 | 2922 |
| 228 | 28 | 5421 | 4925 | 4569 | 4143 | 3717 | 3290 | 2864 | 2437 | 2011 | 1584 | 1157 | 0731 | 0304 | 9877 | 9450 | 9023 | 8596 | 73 | 28 | 3079 |
| 221 | 22 | 5576 | 5150 | 4724 | 4298 | 3871 | 3445 | 3018 | 2592 | 2165 | 1738 | 1311 | 0885 | 0458 | 0031 | 9604 | 2176 | 8749 | 75 | 29 | 3235 |
| 914 | 30 | 3 (2) 5731 | 5305 | 4879 | 4452 | 4026 | 3599 | 3173 | 2746 | 2319 | 1892 | 1466 | 1039 | 0612 | 0185 | 9757 | 9330 | 8903 | 78 | 36 | 4 3391 |
| 906 | 31 | 5886 | 5460 | 5033 | 4607 | 4180 | 3754 | 3327 | 2900 | 2473 | 2047 | 1620 | 1193 | 0766 | 0338 | 9211 | 9484 | 9056 | 81 | 31 | 3548 |
| 199 | 32 | 5041 | 5614 | 5188 | 4761 | 4335 | 3908 | 3481 | 3055 | 2628 | 2201 | 1774 | 1347 | 0919 | 0492 | 0065 | 9637 | 9210 | 83 | 32 | 3704 |
| 192 | 33 | 6196 | 5769 | 5343 | 4916 | 4489 | 4063 | 3636 | 3209 | 2782 | 2355 | 1928 | 1500 | 1073 | 0648 | 0218 | 9791 | 9363 | 86 | 33 | 3860 |
| 185 | 34 | 6350 | 5924 | 5427 | 5070 | 4644 | 4217 | 3720 | 3363 | 2936 | 2509 | 2082 | 1654 | 1227 | 0799 | 0372 | 9944 | 9617 | 88 | 34 | 4016 |
| 178 | 35 | 3 (9) 5505 | 6078 | 5051 | 5225 | 4798 | 4371 | 3944 | 3517 | 3020 | 2662 | 2235 | 1808 | 1380 | 0953 | 0525 | 0098 | 9670 | 91 | 35 | 4 4172 |
| 171 | 36 | 6659 | 6233 | 5806 | 5379 | 4252 | 4525 | 4028 | 3671 | 3244 | 2816 | 2389 | 1261 | 1534 | 1106 | 0679 | 0251 | 9823 | 94 | 36 | 4328 |
| 164 | 37 | 6814 | 6387 | 5960 | 5533 | 5106 | 4679 | 4252 | 3825 | 3397 | 2970 | 2542 | 2115 | 1687 | 1260 | 0832 | 0404 | 9976 | 96 | 37 | 4484 |
| 157 | 38 | 3 6968 | 6541 | 6114 | 5687 | 5260 | 4833 | 4406 | 3978 | 3651 | 3124 | 2696 | 2268 | 1841 | 1413 | 0285 | 0557 | 0130 | 99 | 38 | 4640 |
| 150 | 39 | 7122 | 6095 | 6268 | 5841 | 5414 | 4987 | 4560 | 4132 | 3705 | 3277 | 2850 | 2422 | 1994 | 1566 | 1139 | 8711 | 0283 | 101 | 39 | 4795 |
| 142 | 40 | 3 7276 | 6849 | 6422 | 5995 | 5568 | 5141 | 4713 | 4286 | 3858 | 3431 | 3003 | 2575 | 2147 | 1720 | 1292 | 8864 | 0436 | 104 | 46 | 4 4951 |
| 135 | 41 | 7431 | 7003 | 0576 | 6149 | 5722 | 5294 | 4867 | 4439 | 4012 | 3584 | 3156 | 2728 | 2301 | 1873 | 1445 | 1017 | 0588 | 107 | 41 | 9106 |
| 128 | 42 | 7585 | 7107 | 6730 | 8303 | 5875 | 5448 | 5021 | 4593 | 4165 | 3737 | 3310 | 2882 | 2454 | 2026 | 1598 | 1169 | 0741 | 109 | 42 | 5262 |
| 121 | 43 | 7739 | 7311 | 6884 | 6456 | 6029 | 5602 | 5174 | 4746 | 4319 | 3891 | 3463 | 3035 | 2607 | 2179 | 1750 | 1322 | 0894 | 112 | 43 | 6417 |
| 114 | 44 | 7893 | 7465 | 7838 | 6610 | 6183 | 5755 | 5327 | 4900 | 4472 | 4044 | 3616 | 3188 | 2760 | 2332 | 1903 | 1475 | 1047 | 114 | 44 | 5573 |
| 107 | 45 | 3 8046 | 7619 | 7191 | 6764 | 6338 | 5909 | 5481 | 5053 | 4625 | 4197 | 3769 | 3341 | 2913 | 2484 | 2856 | 1628 | 1199 | 117 | 45 | 4 5728 |
| 100 | 46 | 8200 | 7773 | 7345 | 6917 | 6490 | 6062 | 5634 | 5206 | 4778 | 4350 | 3922 | 3494 | 3865 | 2637 | 2209 | 1780 | 1352 | 120 | 46 | 5883 |
| 93 | 47 | 8354 | 7926 | 7499 | 7071 | 6643 | 6215 | 5787 | 5359 | 4931 | 4503 | 4075 | 3647 | 3218 | 2798 | 2361 | 1933 | 1504 | 122 | 47 | 6038 |
| 85 | 48 | 8508 | 8080 | 7552 | 7224 | 6796 | 6369 | 5941 | 5512 | 5084 | 4656 | 4228 | 3799 | 3371 | 2942 | 2514 | 2085 | 1656 | 125 | 48 | 6193 |
| 78 | 49 | 8661 | 8233 | 7806 | 7378 | 6950 | 6522 | 6094 | 5665 | 5237 | 4889 | 4381 | 3952 | 3524 | 3095 | 2666 | 2238 | 1809 | 127 | 49 | 6348 |
| 71 | 50 | 3 8815 | 8387 | 7959 | 7531 | 7103 | 6675 | 6247 | 5818 | 5390 | 4962 | 4533 | 4105 | 3676 | 3247 | 2819 | 2398 | 1981 | 130 | 50 | 4 6503 |
| 64 | 61 | 8960 | 8540 | 8112 | 7684 | 7256 | 6828 | 6400 | 5971 | 5543 | 5114 | 4686 | 4257 | 3829 | 3400 | 2271 | 2542 | 2113 | 133 | 51 | 6658 |
| 57 | 59 | 9121 | 8693 | 8265 | 7837 | 7409 | 6981 | 6552 | 6124 | 5696 | 5267 | 4838 | 4410 | 3981 | 3552 | 3123 | 2694 | 2265 | 135 | 52 | 6813 |
| 50 | 53 | 9275 | 8847 | 8419 | 7990 | 7562 | 7134 | 6705 | 6277 | 5848 | 5428 | 4991 | 4562 | 4133 | 3784 | 3275 | 2846 | 2417 | 138 | 53 | 6967 |
| 43 | 54 | 9428 | 9086 | 8572 | 8143 | 7715 | 7286 | 6858 | 6429 | 6001 | 5572 | 5143 | 4715 | 4286 | 3857 | 3427 | 2998 | 2569 | 148 | 54 | 7122 |
| 36 | 55 | 3 9581 | 9163 | 8724 | 8296 | 7868 | 7439 | 7011 | 6582 | 6153 | 5725 | 5296 | 4867 | 4438 | 4889 | 3588 | 3160 | 2721 | 143 | 65 | 4 7276 |
| 29 | 56 | 9734 | 9306 | 8877 | 8449 | 8021 | 7692 | 7163 | 6735 | 6306 | 5877 | 5448 | 5019 | 4590 | 4161 | 3732 | 3302 | 2873 | 146 | 56 | 7431 |
| 91 | 57 | 9887 | 9459 | 9030 | 8602 | 8173 | 7745 | 7316 | 8887 | 6458 | 6029 | 5600 | 5171 | 4742 | 4313 | 3884 | 3454 | 3025 | 148 | 57 | 7585 |
| 14 | 58 | 4 (3) 0040 | 9612 | 9183 | 8754 | 8326 | 7897 | 7468 | 7039 | 6610 | 6181 | 5752 | 6323 | 4894 | 4465 | 4036 | 3606 | 3176 | 161 | 58 | 7740 |
| 7 | 59 | 0193 | 9764 | 9336 | 8907 | 8178 | 8049 | 7621 | 7192 | 6763 | 6334 | 5904 | 5475 | 5046 | 4617 | 4187 | 3758 | 3328 | 153 | 69 | 7894 |

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**Tabla X.** Numero I para la suma de alturas aparentes y Numero III para la distancia aparente. . . . } y el Argumento Auxiliar. | **Núm. II para la suma corregida de alturas.**

| Partes para segundos del Arg. Auxiliar. | 148° | | Argumento Auxiliar. 6' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 16' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 148° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436 | 0' | 4 | 7621 | 7123 | 6766 | 6338 | 3211 | 6483 | 6055 | 4626 | 4200 | 3772 | 3344 | 2916 | 2486 | 2069 | 1631 | 1203 | 0774 | 156 | 6' | 6 1171 |
| 423 | 1 | | 7775 | 7347 | 6926 | 6492 | 6665 | 5637 | 0209 | 4781 | 4353 | 3625 | 3427 | 3069 | 2641 | 2212 | 1784 | 1305 | 0927 | 103 | 1 | 1613 |
| 41[illegible] | 2 | | 7926 | 7501 | 7674 | 8646 | 6216 | 5796 | 5363 | 4935 | 4507 | 4078 | 3606 | 3222 | 2794 | 2365 | 1237 | 1508 | 1060 | 101 | 2 | 6854 |
| 409 | 3 | | 8083 | 7655 | 7227 | 6800 | 6372 | 5644 | 0016 | 5088 | 4600 | 4232 | 3803 | 3373 | 2947 | 2518 | 2020 | 1661 | 1232 | 146 | 3 | 0690 |
| 401 | 4 | | 8236 | 7869 | 7381 | 6953 | 6525 | 6097 | 6669 | 0241 | 4613 | 4386 | 3256 | 3526 | 3099 | 2671 | 2242 | 1014 | 1365 | 146 | 4 | 6538 |
| 394 | 6 | 4 | 6390 | 7962 | 7335 | 7107 | 6679 | 6251 | 5823 | 5364 | 4966 | 4538 | 4109 | 3681 | 3252 | 2824 | 2395 | 1666 | 1537 | 143 | 0 | 6 6360 |
| 367 | 6 | | 6544 | 6116 | 7688 | 7260 | 6832 | 6464 | 0276 | 5547 | 6119 | 4691 | 4262 | 3634 | 3405 | 2977 | 2548 | 2116 | 1690 | 146 | 6 | 6222 |
| 360 | 7 | | 6626 | 6270 | 7842 | 7414 | 6985 | 6557 | 6129 | 3700 | 6272 | 4844 | 4415 | 3686 | 3558 | 3129 | 2706 | 2271 | 1842 | 136 | 7 | 0664 |
| 37[illegible] | 8 | | 6851 | 8423 | 7995 | 7567 | 7130 | 6710 | 6282 | 5853 | 5425 | 4997 | 4568 | 4139 | 3710 | 3261 | 2803 | 2424 | 1224 | 135 | 6 | 0 9906 |
| 36[illegible] | 2 | | 9063 | 6577 | 8148 | 7720 | 7292 | 6863 | 6435 | 6006 | 5578 | 5149 | 4721 | 4292 | 3863 | 3434 | 3005 | 2576 | 2147 | 133 | 9 | 2749 |
| 358 | 16 | 4 | 2156 | 8730 | 8302 | 7873 | 7445 | 7016 | 6588 | 6159 | 5731 | 5302 | 4873 | 4444 | 4615 | 3566 | 3157 | 2728 | 2299 | 130 | 10 | 6 9091 |
| 331 | 11 | | 9311 | 6883 | 8455 | 8026 | 7598 | 7169 | 6741 | 6312 | 5883 | 5455 | 5026 | 4527 | 4168 | 3739 | 3309 | 2880 | 2451 | 127 | 11 | 9433 |
| 344 | 12 | | 9465 | 2036 | 8606 | 8176 | 7751 | 7322 | 6664 | 6465 | 6036 | 5607 | 5178 | 4746 | 4320 | 3821 | 3462 | 3032 | 2603 | 125 | 12 | 2276 |
| 337 | 13 | | 9616 | 9189 | 8761 | 6332 | 7964 | 7475 | 7646 | 6617 | 6189 | 6760 | 5331 | 4901 | 4472 | 4643 | 3614 | 3184 | 2755 | 122 | 13 | 2118 |
| 330 | 14 | | 9771 | 9342 | 8914 | 8485 | 8056 | 7626 | 7129 | 6776 | 6341 | 3612 | 5483 | 5054 | 4624 | 4195 | 3760 | 3336 | 2967 | 126 | 14 | 6661 |
| 32[illegible] | 15 | 4 | 9924 | 9495 | 9067 | 8636 | 6209 | 7786 | 7351 | 6223 | 6493 | 6064 | 5635 | 5206 | 4777 | 4347 | 3218 | 3488 | 3059 | 117 | 13 | 6 8804 |
| 315 | 16 | 5 (4) | 6077 | 2648 | 9219 | 8791 | 8362 | 7933 | 7504 | 7670 | 6646 | 6917 | 6787 | 5358 | 4922 | 4422 | 4070 | 3640 | 3210 | 114 | 16 | 0646 |
| 308 | 17 | | 6230 | 2801 | 9372 | 8943 | 8514 | 8085 | 7056 | 7227 | 6728 | 6366 | 5239 | 5516 | 5661 | 4661 | 4221 | 3792 | 3362 | 112 | 17 | 8482 |
| 361 | 16 | | 0362 | 9954 | 9523 | 9096 | 8667 | 8238 | 7602 | 7380 | 6250 | 6521 | 6661 | 5662 | 5232 | 4603 | 4373 | 3943 | 3513 | 109 | 18 | 8332 |
| 224 | 19 | | 6635 | 6166 | 9677 | 9248 | 8819 | 8390 | 7961 | 7332 | 7162 | 6673 | 6243 | 5814 | 5384 | 4255 | 4525 | 4095 | 3665 | 167 | 12 | 8175 |
| 287 | 26 | 5 (4) | 0688 | 6259 | 9830 | 9401 | 8972 | 8542 | 8113 | 7684 | 7254 | 6825 | 6360 | 5966 | 5536 | 5106 | 4676 | 4246 | 3816 | 104 | 20 | 3 8618 |
| 260 | 21 | | 6640 | 0411 | 9982 | 2553 | 2124 | 8695 | 8265 | 7836 | 7406 | 6977 | 6547 | 0117 | 5688 | 5256 | 4828 | 4366 | 3968 | 161 | 21 | 7861 |
| 272 | 22 | | 0993 | 6564 | 0135 | 2766 | 9276 | 8847 | 8417 | 7966 | 7556 | 7122 | 6699 | 6262 | 5639 | 5402 | 4279 | 4542 | 4112 | 26 | 22 | 7764 |
| 265 | 23 | | 1143 | 0716 | 0287 | 2658 | 9428 | 6299 | 8569 | 8140 | 7716 | 7280 | 6851 | 6421 | 5291 | 5561 | 0131 | 4701 | 4276 | 26 | 23 | 7547 |
| 258 | 24 | | 1266 | 0669 | 0439 | 6610 | 9366 | 9151 | 6721 | 8292 | 7662 | 7432 | 7662 | 6572 | 6142 | 5712 | 5282 | 4652 | 4421 | 24 | 24 | 7391 |
| 251 | 25 | 5 (4) | 1430 | 1621 | 0591 | 0169 | 6732 | 9303 | 8673 | 8443 | 8014 | 7684 | 7154 | 6724 | 6294 | 5863 | 5433 | 5003 | 4372 | 91 | 25 | 6 7234 |
| 944 | 26 | | 1662 | 1173 | 6744 | 6314 | 9684 | 9455 | 6620 | 8590 | 8165 | 7735 | 7360 | 6675 | 6445 | 6010 | 5584 | 5154 | 4723 | 88 | 26 | 7676 |
| 237 | 27 | | 1755 | 1325 | 0896 | 0466 | 6636 | 6666 | 9177 | 6747 | 8317 | 7687 | 7457 | 7026 | 6526 | 6166 | 5735 | 5305 | 4874 | 86 | 27 | 6921 |
| 229 | 26 | | 1267 | 1477 | 1647 | 0616 | 6166 | 9758 | 6329 | 8896 | 6466 | 8636 | 7666 | 7178 | 6747 | 6317 | 5886 | 5456 | 5625 | 83 | 26 | 6765 |
| 922 | 22 | | 2056 | 1629 | 1199 | 6776 | 6340 | 9910 | 2486 | 9050 | 6626 | 6189 | 7752 | 7329 | 6698 | 6468 | 6037 | 0667 | 5176 | 61 | 29 | 6609 |
| 215 | 30 | 6 (4) | 2211 | 1761 | 1351 | 0921 | 0491 | 6661 | 2631 | 9201 | 6771 | 6341 | 7916 | 7480 | 7049 | 6619 | 6186 | 3756 | 5327 | 76 | 36 | 6 6452 |
| 208 | 31 | | 2363 | 1233 | 1563 | 1073 | 0643 | 0213 | 9763 | 6353 | 8222 | 8492 | 8061 | 7631 | 7200 | 6776 | 6339 | 0908 | 5477 | 70 | 31 | 6296 |
| 201 | 32 | | 2514 | 2664 | 1635 | 1225 | 6794 | 6364 | 6934 | 6304 | 9673 | 8643 | 8212 | 7782 | 7351 | 6221 | 6490 | 60[illegible] | 0626 | 73 | 32 | 6146 |
| 194 | 33 | | 2666 | 2236 | 1666 | 1376 | 6246 | 6316 | 0065 | 6655 | 9224 | 8794 | 6363 | 7233 | 7562 | 7671 | 6641 | 6210 | 5772 | 76 | 33 | 0964 |
| 166 | 34 | | 2616 | 2388 | 1956 | 1627 | 1697 | 0667 | 6237 | 6866 | 9373 | 6643 | 8514 | 8064 | 7653 | 7222 | 6761 | 6366 | 5629 | 66 | 34 | 6828 |
| 179 | 36 | 6 (4) | 2969 | 2539 | 2169 | 1672 | 1249 | 6816 | 0386 | 9957 | 9526 | 9696 | 6666 | 6234 | 7604 | 7373 | 6942 | 6516 | 6679 | 65 | 36 | 5 6072 |
| 172 | 36 | | 3121 | 2691 | 2266 | 1636 | 1466 | 0969 | 6639 | 6166 | 9677 | 9247 | 8816 | 8385 | 7954 | 7323 | 7622 | 6661 | 6230 | 62 | 36 | 6516 |
| 165 | 37 | | 3272 | 2642 | 2412 | 1961 | 1531 | 1126 | 0660 | 6259 | 6628 | 6328 | 6267 | 8536 | 8105 | 7674 | 7242 | 6811 | 6380 | 60 | 37 | 5366 |
| 158 | 36 | | 3424 | 2693 | 2563 | 2132 | 1762 | 1271 | 0641 | 0416 | 9272 | 6548 | 2117 | 8666 | 6253 | 7624 | 7323 | 6961 | 6530 | 67 | 38 | 6266 |
| 161 | 39 | | 3576 | 3144 | 2714 | 2283 | 1853 | 1422 | 0961 | 6361 | 6136 | 9692 | 9266 | 8837 | 6403 | 7974 | 7543 | 7112 | 6666 | 66 | 32 | 5042 |
| 143 | 40 | 6 (4) | 3726 | 3266 | 2665 | 2434 | 2004 | 1573 | 1142 | 6711 | 6260 | 9849 | 2418 | 8987 | 8556 | 6124 | 7663 | 7262 | 6836 | 62 | 40 | 5 4894 |
| 136 | 41 | | 3677 | 3447 | 3616 | 2565 | 2135 | 1724 | 1293 | 0662 | 0431 | 6666 | 2569 | 2137 | 6706 | 6276 | 7843 | 7412 | 6980 | 46 | 41 | 4736 |
| 129 | 42 | | 4626 | 3398 | 3167 | 2736 | 2305 | 1875 | 1444 | 1613 | 6561 | 6150 | 2712 | 9268 | 6656 | 6423 | 7993 | 7362 | 7136 | 47 | 42 | 4583 |
| 122 | 43 | | 4179 | 3746 | 3318 | 2667 | 2436 | 2023 | 1694 | 1163 | 6732 | 0361 | 9869 | 9438 | 2066 | 8570 | 6143 | 7712 | 7200 | 44 | 43 | 4427 |
| 115 | 44 | | 4330 | 3266 | 3469 | 3038 | 2667 | 2176 | 1745 | 1313 | 6882 | 6451 | 0612 | 9588 | 9156 | 6720 | 6223 | 7861 | 7429 | 42 | 44 | 4272 |
| 168 | 43 | 6 (4) | 4161 | 4656 | 3616 | 3188 | 2757 | 2326 | 1695 | 1464 | 1632 | 0601 | 6169 | 9736 | 9306 | 8670 | 6443 | 8011 | 7579 | 39 | 43 | 6 4117 |
| 100 | 46 | | 4632 | 4261 | 3776 | 3339 | 2208 | 2477 | 2045 | 1614 | 1183 | 0751 | 0319 | 9868 | 2456 | 9024 | 8592 | 8161 | 7729 | 36 | 46 | 3262 |
| 93 | 47 | | 4783 | 4352 | 3621 | 3469 | 3656 | 2627 | 2196 | 1764 | 1333 | 0961 | 0462 | 0038 | 9666 | 9174 | 6742 | 8316 | 7678 | 34 | 47 | 3607 |
| 86 | 46 | | 4933 | 4502 | 4071 | 3640 | 3269 | 2777 | 2346 | 1914 | 1483 | 1051 | 0612 | 0188 | 9756 | 9324 | 6892 | 6460 | 8628 | 31 | 46 | 3652 |
| 76 | 42 | | 5664 | 4653 | 4221 | 3790 | 3359 | 2927 | 2466 | 2064 | 1633 | 1261 | 6769 | 0337 | 9905 | 6473 | 9641 | 8609 | 8177 | 22 | 49 | 3497 |
| 72 | 66 | 6 (4) | 5234 | 4663 | 4372 | 3640 | 3369 | 3078 | 2646 | 2214 | 1763 | 1351 | 0919 | 0487 | 6033 | 9623 | 9191 | 8758 | 8326 | 26 | 00 | 6 3342 |
| 65 | 61 | | 6365 | 4954 | 4522 | 4691 | 3652 | 3226 | 2726 | 2364 | 1232 | 1501 | 1069 | 0637 | 6204 | 9772 | 9340 | 6908 | 8475 | 23 | 61 | 3167 |
| 57 | 62 | | 5533 | 3104 | 4672 | 4241 | 3866 | 3376 | 2946 | 2514 | 2082 | 1630 | 1218 | 6786 | 6354 | 9922 | 9469 | 9657 | 8625 | 21 | 52 | 3033 |
| 00 | 63 | | 5685 | 5254 | 4622 | 4361 | 3956 | 3528 | 3696 | 2664 | 2232 | 1800 | 1368 | 6936 | 0063 | 6071 | 9632 | 6266 | 8774 | 18 | 63 | 2676 |
| 43 | 64 | | 5636 | 5404 | 4672 | 4041 | 4106 | 3677 | 3245 | 2813 | 2381 | 1949 | 1517 | 1085 | 0603 | 6220 | 9766 | 9353 | 8923 | 16 | 64 | 2724 |
| 36 | 56 | 5 (4) | 5986 | 3554 | 5122 | 4691 | 4252 | 3827 | 3395 | 2963 | 2531 | 2629 | 1667 | 1934 | 0802 | 0369 | 9237 | 9504 | 9072 | 13 | 33 | 5 2569 |
| 29 | 06 | | 6136 | 5704 | 6272 | 4041 | 4409 | 3977 | 3545 | 3113 | 2681 | 2248 | 1816 | 1383 | 6951 | 0518 | 0686 | 9653 | 2220 | 10 | 56 | 2410 |
| 22 | 67 | | 6286 | 5854 | 5422 | 4220 | 4558 | 4126 | 3694 | 3262 | 2630 | 2398 | 1966 | 1533 | 1106 | 0667 | 6235 | 9802 | 6362 | 6 | 67 | 2260 |
| 14 | 68 | | 6436 | 6004 | 6572 | 0140 | 4766 | 4276 | 3844 | 3411 | 2279 | 2547 | 2114 | 1682 | 1249 | 0616 | 0384 | 9951 | 9518 | 6 | 56 | 2106 |
| 7 | 69 | | 6580 | 6154 | 5729 | 5220 | 4856 | 4125 | 3993 | 3561 | 3126 | 2696 | 2263 | 1831 | 1398 | 0265 | 6539 | 6100 | 9667 | 3 | 59 | 1952 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos del Arg. Auxiliar. | 148° | | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 96' | 27' | 28' | 29' | 36' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 431 | 0' | 4 (3) | 0346 | 2917 | 9408 | 9060 | 8631 | 8902 | 7773 | 7544 | 6915 | 6486 | 6056 | 5627 | 5198 | 4768 | 4332 | 5209 | 5480 |
| 494 | 1 | | 0498 | 0070 | 9641 | 9212 | 8783 | 8354 | 7925 | 7496 | 7067 | 6638 | 6906 | 5779 | 5350 | 4220 | 4490 | 4061 | 3631 |
| 417 | 2 | | 0651 | 0222 | 2723 | 9365 | 8936 | 8507 | 8077 | 7648 | 7219 | 6790 | 6360 | 5931 | 5501 | 5079 | 4649 | 4212 | 3782 |
| 410 | 3 | | 0804 | 0575 | 2246 | 9517 | 9088 | 8659 | 8230 | 7800 | 7571 | 6942 | 6519 | 6083 | 5653 | 5923 | 4793 | 4364 | 3934 |
| 465 | 4 | | 0956 | 0527 | 0028 | 9669 | 9940 | 8811 | 8389 | 7952 | 7593 | 7093 | 6664 | 6235 | 5804 | 5375 | 4945 | 4516 | 4085 |
| 395 | 5 | 4 (3) | 1108 | 0679 | 0251 | 9821 | 9392 | 8963 | 8534 | 8104 | 7675 | 7245 | 6815 | 6386 | 5956 | 5526 | 5096 | 4666 | 4936 |
| 388 | 6 | | 1261 | 0832 | 0403 | 9975 | 9544 | 9115 | 8685 | 8256 | 7827 | 7397 | 6967 | 6537 | 6107 | 5677 | 5247 | 4817 | 4387 |
| 381 | 7 | | 1415 | 0984 | 0555 | 0195 | 9696 | 9267 | 8637 | 8408 | 7978 | 7548 | 7119 | 6689 | 6259 | 5829 | 5399 | 4969 | 4538 |
| 374 | 8 | | 1565 | 1136 | 0707 | 0277 | 9848 | 9419 | 8989 | 8559 | 6130 | 7700 | 7270 | 6840 | 6410 | 5980 | 5550 | 5190 | 4689 |
| 367 | 9 | | 1717 | 1286 | 0852 | 0429 | 0000 | 9570 | 2141 | 8711 | 8281 | 7851 | 7491 | 6991 | 6561 | 6151 | 5701 | 5271 | 4840 |
| 360 | 10 | 4 (3) | 1862 | 1440 | 1011 | 0581 | 0159 | 9792 | 9999 | 8862 | 8435 | 8003 | 7573 | 7143 | 6719 | 6282 | 5852 | 5421 | 4991 |
| 352 | 11 | | 2021 | 1592 | 1163 | 0753 | 0303 | 2874 | 9444 | 9014 | 6584 | 8154 | 7794 | 7294 | 6863 | 6433 | 6003 | 5572 | 5142 |
| 345 | 12 | | 2173 | 1744 | 1314 | 0885 | 0455 | 0025 | 9595 | 9165 | 8735 | 8305 | 7875 | 7445 | 7014 | 6584 | 6154 | 5723 | 5292 |
| 538 | 13 | | 2325 | 1896 | 1466 | 1056 | 0606 | 0177 | 9747 | 9317 | 8886 | 8156 | 8026 | 7596 | 7165 | 6735 | 6304 | 5874 | 5443 |
| 351 | 14 | | 2477 | 2047 | 1618 | 1188 | 0758 | 0398 | 9898 | 9466 | 9038 | 8607 | 8177 | 7747 | 7316 | 6886 | 6455 | 6094 | 5594 |
| 394 | 15 | 4 (3) | 2622 | 2199 | 1769 | 1339 | 0909 | 0479 | 0049 | 9619 | 9189 | 8758 | 8398 | 7897 | 7467 | 7036 | 6606 | 6175 | 5744 |
| 516 | 16 | | 2780 | 2351 | 1221 | 1491 | 1061 | 0631 | 0200 | 9770 | 9340 | 8909 | 8479 | 8048 | 7618 | 7187 | 6756 | 6395 | 5895 |
| 309 | 17 | | 2932 | 9509 | 2079 | 1642 | 1212 | 0782 | 0351 | 9991 | 9491 | 9060 | 8630 | 8199 | 7768 | 7338 | 6907 | 6476 | 6045 |
| 302 | 18 | | 3084 | 2654 | 2223 | 1793 | 1363 | 0933 | 0502 | 0072 | 9642 | 9211 | 8780 | 8350 | 7919 | 7488 | 7057 | 6626 | 6195 |
| 295 | 19 | | 3235 | 2805 | 9375 | 1945 | 1514 | 1084 | 0653 | 0993 | 9792 | 9362 | 8231 | 8500 | 8069 | 7639 | 7907 | 6776 | 6545 |
| 288 | 20 | 4 (3) | 3386 | 2956 | 9526 | 9096 | 1665 | 1935 | 0804 | 0574 | 9943 | 9512 | 9089 | 8651 | 8920 | 7789 | 7358 | 6927 | 6495 |
| 280 | 21 | | 3530 | 3107 | 2677 | 9247 | 1816 | 1386 | 0955 | 0595 | 0094 | 9663 | 9232 | 8801 | 8370 | 7239 | 7508 | 7077 | 6645 |
| 273 | 22 | | 3602 | 3258 | 9828 | 2398 | 1267 | 1537 | 1106 | 0675 | 0244 | 9814 | 9383 | 8959 | 8520 | 8089 | 7658 | 7927 | 6795 |
| 266 | 23 | | 3840 | 3410 | 2979 | 2549 | 9118 | 1687 | 1257 | 0826 | 0395 | 9964 | 9533 | 9109 | 8670 | 8239 | 7808 | 7577 | 6245 |
| 259 | 24 | | 3991 | 3561 | 3130 | 9699 | 2269 | 1838 | 1407 | 0976 | 0545 | 0114 | 9683 | 9959 | 8891 | 8390 | 7958 | 7527 | 7095 |
| 252 | 26 | 4 (3) | 4142 | 3711 | 3281 | 2850 | 9419 | 1989 | 1558 | 1127 | 0696 | 0265 | 9834 | 9402 | 8971 | 8540 | 8108 | 7677 | 7245 |
| 244 | 26 | | 4293 | 3862 | 3432 | 3001 | 9570 | 2139 | 1708 | 1977 | 0846 | 0115 | 9984 | 9552 | 9121 | 8690 | 8258 | 7826 | 7395 |
| 237 | 27 | | 4444 | 4013 | 3582 | 3159 | 9721 | 2290 | 1659 | 1497 | 0996 | 0565 | 0134 | 9709 | 9971 | 8839 | 8408 | 7976 | 7544 |
| 230 | 26 | | 4595 | 4164 | 3733 | 3302 | 9871 | 2440 | 2009 | 1570 | 1146 | 0715 | 0984 | 9859 | 9421 | 8989 | 8557 | 8126 | 7694 |
| 223 | 29 | | 4745 | 4315 | 3884 | 3453 | 3092 | 9590 | 2159 | 1728 | 1927 | 0865 | 0434 | 0009 | 9571 | 9139 | 8707 | 8275 | 7843 |
| 216 | 30 | 4 (3) | 4896 | 4465 | 4034 | 3603 | 3179 | 2741 | 2309 | 1878 | 1447 | 1015 | 0584 | 0159 | 9720 | 9288 | 8857 | 8425 | 7993 |
| 209 | 31 | | 6047 | 4616 | 4184 | 3753 | 3329 | 9891 | 2460 | 2028 | 1597 | 1165 | 0733 | 0309 | 9870 | 9438 | 9006 | 8574 | 8142 |
| 201 | 32 | | 5127 | 4766 | 4335 | 3904 | 3479 | 3041 | 2610 | 2178 | 1746 | 1315 | 0883 | 0451 | 0019 | 9580 | 9156 | 8724 | 8992 |
| 124 | 33 | | 5347 | 4916 | 4485 | 4054 | 3622 | 5191 | 2760 | 2328 | 1896 | 1465 | 1033 | 0601 | 0169 | 9737 | 9305 | 8873 | 8441 |
| 187 | 54 | | 5490 | 5067 | 4635 | 4201 | 3773 | 3341 | 2909 | 2478 | 9046 | 1614 | 1189 | 0750 | 0318 | 9886 | 9454 | 9022 | 8590 |
| 180 | 35 | 4 (3) | 5648 | 5217 | 4785 | 4354 | 3923 | 3491 | 3059 | 2628 | 2196 | 1764 | 1332 | 0900 | 0468 | 0036 | 9603 | 9171 | 8739 |
| 172 | 36 | | 5798 | 5367 | 4955 | 4504 | 4072 | 3641 | 3902 | 2777 | 2345 | 1913 | 1481 | 1049 | 0617 | 0185 | 9753 | 9520 | 8868 |
| 165 | 37 | | 5948 | 5517 | 5085 | 4654 | 4222 | 3790 | 3359 | 2997 | 9495 | 2063 | 1631 | 1199 | 0766 | 0334 | 9909 | 9469 | 9057 |
| 158 | 36 | | 6099 | 5667 | 5235 | 4801 | 4579 | 3940 | 3502 | 3076 | 2645 | 2219 | 1780 | 1348 | 0915 | 0483 | 0051 | 9618 | 9186 |
| 151 | 39 | | 6949 | 5817 | 5385 | 4954 | 4592 | 4090 | 3658 | 3226 | 9794 | 9361 | 1999 | 1497 | 1065 | 0632 | 0200 | 9767 | 2334 |
| 144 | 40 | 4 (3) | 6598 | 5967 | 5535 | 5103 | 4671 | 4939 | 3807 | 3375 | 2943 | 2511 | 2078 | 1646 | 1214 | 0781 | 0546 | 9916 | 9483 |
| 137 | 41 | | 6548 | 6117 | 5685 | 5252 | 4891 | 4389 | 3957 | 3524 | 3099 | 9660 | 2228 | 1795 | 1363 | 0930 | 0497 | 0084 | 2632 |
| 129 | 42 | | 6698 | 6266 | 5834 | 5402 | 4270 | 4638 | 4106 | 5674 | 3241 | 2809 | 2377 | 1944 | 1511 | 1079 | 0646 | 0213 | 2780 |
| 129 | 45 | | 6848 | 6416 | 5984 | 5552 | 5190 | 4686 | 4255 | 3823 | 3390 | 9958 | 2526 | 9093 | 1660 | 1227 | 0795 | 0362 | 9999 |
| 115 | 44 | 4 | 6997 | 6565 | 6133 | 5701 | 5269 | 4837 | 4404 | 3972 | 3539 | 3107 | 9671 | 2242 | 1809 | 1376 | 0943 | 0510 | 0077 |
| 108 | 46 | 4 | 7147 | 6715 | 6283 | 5851 | 5418 | 4986 | 4554 | 4121 | 3688 | 3956 | 9823 | 2390 | 1258 | 1525 | 1092 | 0652 | 0225 |
| 101 | 46 | | 7297 | 6864 | 6432 | 6000 | 5568 | 5135 | 4703 | 4270 | 3837 | 3405 | 2979 | 2539 | 9106 | 1673 | 1240 | 0807 | 0374 |
| 93 | 47 | | 7446 | 7014 | 6581 | 6149 | 5717 | 5284 | 4852 | 4419 | 3986 | 3553 | 3121 | 2688 | 9255 | 1899 | 1389 | 0955 | 0592 |
| 66 | 48 | | 7595 | 7163 | 6731 | 6298 | 5866 | 5433 | 5001 | 4568 | 4135 | 5702 | 3969 | 2836 | 9403 | 1970 | 1537 | 1103 | 0670 |
| 79 | 49 | | 7745 | 7319 | 6880 | 6447 | 6015 | 5582 | 5149 | 4717 | 4984 | 5851 | 3418 | 2985 | 2551 | 2118 | 1685 | 1252 | 0818 |
| 72 | 50 | 4 | 7894 | 7461 | 7029 | 6596 | 6164 | 5731 | 5998 | 4865 | 4432 | 3999 | 5566 | 3133 | 2700 | 9266 | 1833 | 1400 | 0966 |
| 65 | 51 | | 8043 | 7610 | 7178 | 6745 | 6312 | 5880 | 5447 | 5014 | 4581 | 4148 | 3715 | 3281 | 2848 | 2415 | 1981 | 1548 | 1114 |
| 68 | 52 | | 8192 | 7759 | 7527 | 6894 | 6461 | 6028 | 5595 | 5162 | 4729 | 4296 | 3865 | 3430 | 2296 | 2565 | 2129 | 1696 | 1962 |
| 50 | 53 | | 6341 | 7208 | 7476 | 7045 | 6610 | 6177 | 5744 | 5311 | 4878 | 4414 | 4011 | 3578 | 3144 | 2711 | 2977 | 1843 | 1410 |
| 43 | 54 | | 8420 | 8057 | 7624 | 7191 | 6758 | 6325 | 5892 | 5452 | 5026 | 4595 | 4159 | 3796 | 3299 | 2859 | 2425 | 1991 | 1557 |
| 36 | 55 | 4 | 8639 | 8206 | 7775 | 7340 | 6907 | 6474 | 6041 | 5608 | 5174 | 4741 | 4307 | 3874 | 3440 | 5007 | 2573 | 2139 | 1705 |
| 29 | 56 | | 0768 | 8355 | 7922 | 7489 | 7056 | 6622 | 6189 | 6756 | 5322 | 4889 | 4455 | 4022 | 5588 | 3154 | 2720 | 2287 | 1853 |
| 22 | 57 | | 6956 | 8505 | 8070 | 7657 | 7204 | 6771 | 6537 | 5904 | 5470 | 5057 | 4605 | 4170 | 3736 | 3309 | 2860 | 2434 | 9000 |
| 14 | 56 | | 9085 | 8652 | 8919 | 7786 | 7552 | 6212 | 6486 | 6052 | 5618 | 5185 | 4751 | 4517 | 3884 | 5450 | 3016 | 9589 | 2148 |
| 7 | 52 | | 2224 | 8800 | 8367 | 7234 | 7501 | 7067 | 6634 | 6200 | 5766 | 5533 | 4899 | 4465 | 4031 | 5597 | 5163 | 9729 | 2293 |

Núm. IV para ballar la distancia corregida.

| Partes para segundos. | 148° | Núm. |
|---|---|---|
| 0 | 6' | 4 8048 |
| 2 | 1 | 8909 |
| 5 | 2 | 8356 |
| 8 | 3 | 8510 |
| 16 | 4 | 8664 |
| 13 | 5 | 4 0818 |
| 15 | 6 | 8972 |
| 16 | 7 | 9125 |
| 20 | 8 | 9979 |
| 23 | 9 | 2433 |
| 25 | 10 | 4 9586 |
| 28 | 11 | 9739 |
| 30 | 12 | 9892 |
| 33 | 13 | 5 0046 |
| 35 | 14 | 0199 |
| 38 | 15 | 5 0352 |
| 40 | 16 | 0505 |
| 43 | 17 | 0658 |
| 46 | 18 | 0811 |
| 48 | 12 | 0964 |
| 51 | 90 | 5 1117 |
| 53 | 91 | 1269 |
| 56 | 22 | 1492 |
| 58 | 23 | 1575 |
| 61 | 24 | 1727 |
| 63 | 25 | 6 1879 |
| 66 | 26 | 2032 |
| 68 | 97 | 9184 |
| 71 | 28 | 2336 |
| 73 | 29 | 9488 |
| 76 | 30 | 5 9640 |
| 78 | 31 | 2792 |
| 81 | 32 | 9244 |
| 84 | 53 | 3096 |
| 86 | 54 | 3248 |
| 89 | 35 | 5 3399 |
| 91 | 36 | 3551 |
| 94 | 57 | 3702 |
| 96 | 38 | 3854 |
| 99 | 39 | 4005 |
| 101 | 40 | 5 4156 |
| 104 | 41 | 4308 |
| 106 | 42 | 4459 |
| 102 | 43 | 4610 |
| 111 | 44 | 4761 |
| 114 | 45 | 5 4912 |
| 116 | 46 | 5063 |
| 119 | 47 | 6913 |
| 122 | 46 | 5364 |
| 124 | 49 | 6515 |
| 127 | 56 | 5 5665 |
| 129 | 51 | 5816 |
| 152 | 52 | 5266 |
| 154 | 53 | 6117 |
| 137 | 54 | 6267 |
| 139 | 65 | 5 6417 |
| 142 | 56 | 6567 |
| 144 | 57 | 6718 |
| 147 | 68 | 6868 |
| 149 | 59 | 7018 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 149° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 149° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 435 | 0' | 5 (4) 6735 | 6303 | 5871 | 5439 | 5007 | 4575 | 4142 | 3710 | 3278 | 2845 | 2412 | 1980 | 1547 | 1114 | 8681 | 0248 | 9815 | 152 | 0' | 5 1798 |
| 428 | 1 | 6885 | 6453 | 6021 | 5589 | 5156 | 4724 | 4292 | 3859 | 3427 | 2994 | 2561 | 2129 | 1696 | 1263 | 0830 | 0397 | 9963 | 149 | 1 | 1644 |
| 421 | 2 | 5 7035 | 6603 | 6171 | 5738 | 5306 | 4873 | 4441 | 4008 | 3576 | 3143 | 2710 | 2277 | 1814 | 1411 | 0978 | 0545 | 0112 | 147 | 2 | 1490 |
| 413 | 3 | 7184 | 6752 | 6320 | 5888 | 5455 | 5023 | 4590 | 4157 | 3724 | 3292 | 2859 | 2426 | 1993 | 1560 | 1127 | 0694 | 0260 | 144 | 3 | 1336 |
| 406 | 4 | 7334 | 6902 | 6469 | 6037 | 5604 | 5172 | 4739 | 4306 | 3873 | 3441 | 3208 | 2575 | 2142 | 1709 | 1275 | 2842 | 0409 | 142 | 4 | 1182 |
| 399 | 5 | 5 7483 | 7051 | 6618 | 6186 | 5753 | 5321 | 4888 | 4455 | 4022 | 3589 | 3156 | 2723 | 2298 | 1857 | 1424 | 2998 | 8557 | 139 | 5 | 5 1028 |
| 392 | 6 | 7633 | 7208 | 6768 | 6335 | 5982 | 5470 | 5037 | 4604 | 4171 | 3738 | 3305 | 2872 | 2439 | 2005 | 1572 | 1139 | 0705 | 137 | 6 | 0875 |
| 384 | 7 | 7782 | 7349 | 6917 | 6484 | 6051 | 5619 | 5186 | 4753 | 4320 | 3887 | 3454 | 3020 | 2587 | 2154 | 1720 | 1287 | 8053 | 134 | 7 | 0721 |
| 377 | 8 | 7931 | 7499 | 7066 | 6633 | 6260 | 5767 | 5334 | 4921 | 4468 | 4035 | 3602 | 3169 | 2735 | 2302 | 1868 | 1435 | 1021 | 132 | 8 | 0567 |
| 370 | 9 | 8080 | 7648 | 7215 | 6782 | 6349 | 5916 | 5483 | 5050 | 4617 | 4184 | 3750 | 3317 | 2884 | 2460 | 2016 | 1583 | 1149 | 129 | 9 | 2414 |
| 362 | 18 | 5 8222 | 7797 | 7364 | 6931 | 6498 | 6065 | 5632 | 5199 | 4765 | 4332 | 3899 | 3465 | 3032 | 2598 | 2161 | 1731 | 1297 | 127 | 10 | 5 2261 |
| 355 | 11 | 8378 | 7945 | 7513 | 7080 | 6647 | 6213 | 5780 | 5347 | 4914 | 4480 | 4047 | 3613 | 3182 | 2746 | 2312 | 1879 | 1445 | 124 | 11 | 0107 |
| 348 | 12 | 8527 | 8094 | 7661 | 7228 | 6795 | 6362 | 5929 | 5495 | 5062 | 4629 | 4195 | 3761 | 3328 | 2894 | 2460 | 2026 | 1592 | 122 | 12 | 4 9954 |
| 341 | 13 | 8676 | 8243 | 7810 | 7377 | 6944 | 6510 | 6077 | 5644 | 5210 | 4777 | 4343 | 3909 | 3478 | 3012 | 2688 | 2174 | 1740 | 119 | 13 | 9801 |
| 334 | 14 | 8825 | 8392 | 7959 | 7526 | 7092 | 6659 | 6225 | 5792 | 5358 | 4925 | 4491 | 4057 | 3624 | 3190 | 2766 | 2322 | 1888 | 116 | 14 | 9648 |
| 326 | 16 | 5 8973 | 8540 | 8107 | 7674 | 7241 | 6807 | 6374 | 5940 | 5507 | 5073 | 4639 | 4205 | 3771 | 3337 | 2903 | 2469 | 2035 | 114 | 15 | 4 9496 |
| 319 | 16 | 9122 | 8689 | 8256 | 7822 | 7389 | 6955 | 6622 | 6088 | 5655 | 5221 | 4787 | 4353 | 3919 | 3485 | 3051 | 2617 | 2183 | 111 | 16 | 9342 |
| 312 | 17 | 9270 | 8837 | 8404 | 7971 | 7537 | 7124 | 6670 | 6236 | 5803 | 5369 | 4935 | 4501 | 4067 | 3633 | 3198 | 2764 | 2330 | 109 | 17 | 9189 |
| 305 | 18 | 9419 | 8986 | 8552 | 8119 | 7685 | 7252 | 6818 | 6384 | 5950 | 5516 | 5082 | 4648 | 4214 | 3780 | 3346 | 2211 | 2477 | 126 | 18 | 9236 |
| 297 | 19 | 9567 | 9134 | 8761 | 8267 | 7833 | 7400 | 6966 | 6532 | 6098 | 5664 | 5230 | 4796 | 4362 | 3928 | 3493 | 3059 | 2624 | 124 | 19 | 8883 |
| 298 | 20 | 5 9716 | 9282 | 8849 | 8415 | 7981 | 7548 | 7114 | 6680 | 6246 | 5812 | 5378 | 4944 | 4509 | 4075 | 3648 | 3206 | 2771 | 181 | 20 | 4 8731 |
| 283 | 21 | 9864 | 9431 | 8997 | 8563 | 8129 | 7696 | 7262 | 6828 | 6394 | 5959 | 5525 | 5091 | 4667 | 4222 | 3788 | 3353 | 2918 | 29 | 21 | 8578 |
| 276 | 22 | 6 (5) 0012 | 9579 | 9115 | 8711 | 8277 | 7843 | 7489 | 6975 | 6541 | 6107 | 5673 | 5238 | 4801 | 4369 | 3935 | 3500 | 3065 | 95 | 22 | 8425 |
| 268 | 23 | 0160 | 9727 | 9293 | 8859 | 8425 | 7991 | 7657 | 7123 | 6689 | 6254 | 5820 | 5386 | 4951 | 4516 | 4082 | 3647 | 3212 | 94 | 23 | 8273 |
| 261 | 24 | 6308 | 2875 | 9441 | 9007 | 8573 | 8139 | 7705 | 7270 | 6836 | 6402 | 5967 | 5533 | 5098 | 4663 | 4229 | 3794 | 3359 | 91 | 24 | 8121 |
| 251 | 25 | 6 (5) 0456 | 0022 | 9589 | 9155 | 8720 | 8286 | 7852 | 7418 | 6983 | 6549 | 6114 | 5680 | 5245 | 4810 | 4376 | 3941 | 3506 | 89 | 25 | 4 7268 |
| 247 | 26 | 8604 | 8170 | 9736 | 9362 | 8868 | 8434 | 8008 | 7565 | 7131 | 6696 | 6262 | 5827 | 5392 | 4957 | 4523 | 4088 | 3653 | 86 | 25 | 7816 |
| 239 | 27 | 0752 | 0318 | 9884 | 9450 | 9016 | 8581 | 8147 | 7713 | 7278 | 6843 | 6409 | 5974 | 5539 | 5104 | 4669 | 4234 | 3729 | 84 | 27 | 7564 |
| 232 | 28 | 6900 | 0466 | 0032 | 9697 | 9163 | 8729 | 8294 | 7862 | 7426 | 5990 | 6566 | 6121 | 5686 | 5251 | 4816 | 4381 | 3946 | 81 | 28 | 7512 |
| 225 | 29 | 1048 | 0613 | 0179 | 9745 | 9310 | 8876 | 8441 | 8007 | 7572 | 7137 | 6783 | 6268 | 5833 | 5398 | 4963 | 4528 | 4093 | 78 | 29 | 7366 |
| 218 | 38 | 6 (5) 1195 | 8761 | 0326 | 9892 | 9458 | 9023 | 8589 | 8134 | 7719 | 7284 | 6850 | 6415 | 5980 | 5544 | 5109 | 4674 | 4239 | 76 | 30 | 4 7208 |
| 210 | 31 | 1343 | 0928 | 0474 | 0039 | 2605 | 9170 | 8736 | 8321 | 7866 | 7431 | 5996 | 6561 | 8126 | 5691 | 6256 | 4820 | 4385 | 73 | 31 | 7056 |
| 203 | 32 | 1490 | 1056 | 0621 | 0187 | 9752 | 9317 | 3883 | 8448 | 8013 | 7678 | 7143 | 6708 | 6273 | 5837 | 5402 | 4967 | 4531 | 71 | 32 | 6984 |
| 196 | 33 | 1637 | 1203 | 0768 | 0334 | 9899 | 9464 | 9230 | 8595 | 8160 | 7725 | 7290 | 6854 | 6419 | 5984 | 6549 | 5113 | 4678 | 68 | 33 | 6752 |
| 189 | 34 | 1785 | 1350 | 0916 | 0481 | 0046 | 9611 | 9176 | 8742 | 8307 | 7872 | 7436 | 7601 | 6566 | 6130 | 5695 | 5259 | 4824 | 66 | 34 | 6601 |
| 181 | 35 | 6 (5) 1932 | 1497 | 1063 | 0628 | 0193 | 9758 | 9323 | 8889 | 8453 | 8018 | 7683 | 7147 | 6712 | 6276 | 5841 | 5405 | 4970 | 63 | 35 | 4 6449 |
| 174 | 36 | 2079 | 1644 | 1210 | 0775 | 0340 | 9905 | 9470 | 9035 | 8600 | 8164 | 7729 | 7294 | 6858 | 6422 | 5987 | 5551 | 5116 | 61 | 36 | 6298 |
| 167 | 37 | 2226 | 1791 | 1367 | 0922 | 0487 | 0062 | 9617 | 9181 | 8746 | 8311 | 7876 | 7440 | 7004 | 6569 | 6133 | 5697 | 5261 | 58 | 37 | 6146 |
| 160 | 38 | 2373 | 1938 | 1504 | 1069 | 0634 | 0198 | 9763 | 9328 | 8893 | 8157 | 8022 | 7586 | 7151 | 6715 | 6279 | 5813 | 5407 | 56 | 38 | 5995 |
| 152 | 39 | 2520 | 2085 | 1650 | 1215 | 0780 | 6345 | 9910 | 9474 | 9039 | 8604 | 8168 | 7732 | 7297 | 6861 | 6425 | 5989 | 5553 | 53 | 39 | 5844 |
| 145 | 40 | 6 (5) 2667 | 2232 | 1797 | 1362 | 0927 | 0491 | 0056 | 9621 | 9185 | 8750 | 8314 | 7878 | 7443 | 7007 | 6571 | 6135 | 5698 | 51 | 40 | 4 5692 |
| 138 | 41 | 2814 | 2379 | 1944 | 1509 | 1073 | 0638 | 0203 | 9767 | 9331 | 8896 | 8460 | 8024 | 7588 | 7153 | 6717 | 6281 | 5844 | 48 | 41 | 5541 |
| 131 | 42 | 2961 | 2525 | 2090 | 1655 | 1220 | 2784 | 0349 | 9913 | 9478 | 9042 | 8606 | 8170 | 7734 | 7298 | 6862 | 6426 | 5990 | 46 | 42 | 5390 |
| 123 | 43 | 3107 | 2672 | 2237 | 1801 | 1386 | 6931 | 6495 | 0059 | 9624 | 9188 | 8752 | 8316 | 7880 | 7444 | 7808 | 6572 | 6135 | 43 | 43 | 5239 |
| 116 | 44 | 3254 | 2818 | 2383 | 1948 | 1512 | 1077 | 0641 | 0205 | 9770 | 9334 | 8898 | 8462 | 8026 | 7690 | 7163 | 6717 | 6281 | 40 | 44 | 5088 |
| 189 | 45 | 6 (5) 3400 | 2965 | 2530 | 2894 | 1659 | 1223 | 6787 | 0351 | 9915 | 9480 | 9044 | 8608 | 8171 | 7735 | 7299 | 6863 | 6426 | 38 | 45 | 4 4937 |
| 162 | 46 | 3547 | 3111 | 2676 | 2240 | 1805 | 1369 | 0933 | 0497 | 6061 | 9625 | 9189 | 8763 | 8317 | 7881 | 7444 | 7088 | 6571 | 35 | 46 | 4786 |
| 94 | 47 | 3693 | 3268 | 2822 | 2386 | 1951 | 1615 | 1079 | 0643 | 0207 | 9771 | 9335 | 8899 | 8462 | 8626 | 7690 | 7153 | 6717 | 33 | 47 | 4536 |
| 87 | 48 | 3839 | 3484 | 2968 | 2532 | 2697 | 1661 | 1225 | 8789 | 0353 | 9917 | 9480 | 9044 | 8608 | 8171 | 7735 | 7298 | 6862 | 30 | 48 | 4485 |
| 80 | 42 | 3986 | 3556 | 3114 | 2678 | 2243 | 1867 | 1371 | 0935 | 0498 | 0062 | 9626 | 9190 | 8753 | 8317 | 7880 | 7443 | 7007 | 28 | 49 | 4335 |
| 73 | 50 | 6 (5) 4132 | 3696 | 3260 | 2824 | 2389 | 1952 | 1616 | 1080 | 0644 | 0208 | 9771 | 9335 | 8898 | 8462 | 8026 | 7588 | 7152 | 25 | 50 | 4 4184 |
| 65 | 51 | 4278 | 3842 | 3406 | 2970 | 2534 | 2098 | 1662 | 1226 | 0789 | 0363 | 9917 | 9486 | 9044 | 8667 | 8170 | 7733 | 7297 | 23 | 51 | 4034 |
| 58 | 52 | 4424 | 3988 | 3552 | 3116 | 2680 | 2244 | 1808 | 1371 | 0936 | 2498 | 0062 | 9625 | 9189 | 8762 | 8316 | 7878 | 7441 | 20 | 52 | 3883 |
| 51 | 53 | 4570 | 4134 | 3698 | 3262 | 2825 | 2389 | 1953 | 1517 | 1080 | 0644 | 8207 | 9770 | 9334 | 8897 | 8460 | 8023 | 7586 | 18 | 53 | 3733 |
| 44 | 54 | 4716 | 4280 | 3843 | 3407 | 2971 | 2535 | 2098 | 1662 | 1225 | 6789 | 0352 | 9915 | 9472 | 2042 | 8665 | 8168 | 7731 | 15 | 54 | 3583 |
| 36 | 55 | 6 (5) 4861 | 4425 | 3989 | 3553 | 3117 | 2680 | 2244 | 1807 | 1371 | 0934 | 0497 | 0660 | 9624 | 9187 | 8730 | 8313 | 7875 | 13 | 55 | 4 3433 |
| 29 | 56 | 5007 | 4571 | 4135 | 3698 | 3262 | 2826 | 2389 | 1952 | 1516 | 1079 | 6642 | 0205 | 9768 | 9331 | 8894 | 8457 | 8020 | 16 | 56 | 3282 |
| 22 | 57 | 5153 | 4716 | 4280 | 3844 | 3407 | 2971 | 2634 | 2098 | 1661 | 1224 | 0787 | 6350 | 9913 | 9476 | 9039 | 8502 | 8164 | 8 | 57 | 3132 |
| 15 | 58 | 5298 | 4862 | 4126 | 3989 | 3553 | 3116 | 2679 | 2243 | 1866 | 1369 | 0932 | 2495 | 0058 | 9621 | 9183 | 8746 | 8309 | 5 | 58 | 2983 |
| 7 | 59 | 5444 | 5007 | 4571 | 4134 | 3698 | 3261 | 2824 | 2388 | 1951 | 1514 | 1077 | 0640 | 8202 | 9765 | 9328 | 8890 | 8453 | 2 | 59 | 2833 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

| Partes para segundos del Arg. Auxiliar | 149° | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | |
| 436 | 0' | 4 9382 | 8949 | 8515 | 9082 | 7649 | 7215 | 6702 | 6348 | 5914 | 5481 | 5047 | 4613 | 4179 | 3745 | 3311 | 2876 | 2442 |
| 429 | 1 | 9539 | 9997 | 8664 | 8230 | 7797 | 7363 | 6930 | 6496 | 6062 | 5528 | 5194 | 4760 | 4326 | 3892 | 3458 | 3023 | 2589 |
| 422 | 2 | 9679 | 9245 | 8812 | 8379 | 7945 | 7511 | 7078 | 6644 | 6210 | 5776 | 5342 | 4908 | 4474 | 4039 | 3605 | 3171 | 2736 |
| 414 | 3 | 9827 | 9394 | 8960 | 8527 | 8093 | 7659 | 7226 | 6791 | 6358 | 5924 | 5489 | 5055 | 4621 | 4187 | 3752 | 3319 | 2884 |
| 407 | 4 | 9975 | 9542 | 9108 | 8675 | 0241 | 7807 | 7373 | 6939 | 6505 | 6071 | 5637 | 5203 | 4768 | 4334 | 3900 | 3465 | 3031 |
| 400 | 5 | 5 (4) 0123 | 9690 | 9256 | 8822 | 8389 | 7955 | 7521 | 7087 | 6653 | 6219 | 5784 | 5350 | 4916 | 4481 | 4047 | 3612 | 3177 |
| 392 | 5 | 0271 | 9838 | 9404 | 8970 | 8536 | 8102 | 7668 | 7234 | 6800 | 6366 | 5932 | 5497 | 5063 | 4628 | 4194 | 3759 | 3324 |
| 385 | 7 | 0419 | 9986 | 9552 | 9118 | 8684 | 8250 | 7816 | 7382 | 6948 | 6513 | 6079 | 5644 | 5210 | 4775 | 4341 | 3906 | 3471 |
| 378 | 6 | 0567 | 0134 | 9700 | 9266 | 8832 | 8398 | 7963 | 7529 | 7095 | 6661 | 5226 | 5791 | 5357 | 4922 | 4487 | 4053 | 3618 |
| 371 | 9 | 9715 | 0281 | 9847 | 9413 | 8979 | 0545 | 8111 | 7676 | 7242 | 6808 | 6373 | 5938 | 5504 | 5069 | 4634 | 4199 | 3764 |
| 363 | 18 | 5 (4) 0863 | 0429 | 9995 | 9561 | 9127 | 8692 | 8258 | 7824 | 7389 | 6955 | 6520 | 6085 | 5651 | 5216 | 4781 | 4346 | 3911 |
| 356 | 11 | 1011 | 0577 | 0143 | 9708 | 9274 | 8840 | 8405 | 7971 | 7536 | 7102 | 6667 | 6232 | 5798 | 5363 | 4928 | 4493 | 4057 |
| 349 | 12 | 1158 | 0724 | 0290 | 9956 | 9421 | 8987 | 8553 | 8118 | 7683 | 7249 | 6814 | 6379 | 5944 | 5509 | 5074 | 4639 | 4204 |
| 342 | 13 | 1306 | 0872 | 0437 | 0003 | 9569 | 9134 | 8700 | 8265 | 7830 | 7396 | 6961 | 6526 | 6091 | 5656 | 5221 | 4785 | 4350 |
| 334 | 14 | 1453 | 1019 | 0585 | 0150 | 9716 | 9281 | 8847 | 8412 | 7977 | 7542 | 7107 | 6672 | 6237 | 5802 | 5367 | 4932 | 4197 |
| 327 | 16 | 5 (4) 1601 | 1166 | 0732 | 0298 | 9863 | 9428 | 8994 | 8559 | 0124 | 7689 | 7254 | 6819 | 6384 | 5919 | 5514 | 5078 | 4643 |
| 320 | 16 | 1748 | 1314 | 0879 | 9445 | 0010 | 9575 | 9141 | 8706 | 8271 | 7836 | 7401 | 6966 | 6530 | 6095 | 5660 | 5224 | 4789 |
| 313 | 17 | 1595 | 1461 | 1026 | 0592 | 0157 | 9722 | 9287 | 8952 | 8418 | 7982 | 7547 | 7112 | 6677 | 6241 | 5806 | 5371 | 4935 |
| 305 | 16 | 9043 | 1608 | 1173 | 0739 | 0304 | 9869 | 9434 | 8999 | 8564 | 8129 | 7694 | 7258 | 6823 | 6388 | 5952 | 5517 | 5081 |
| 298 | 19 | 9190 | 1755 | 1320 | 0896 | 9451 | 0016 | 9581 | 9146 | 8711 | 8275 | 7840 | 7405 | 6969 | 6534 | 6098 | 5663 | 5227 |
| 291 | 20 | 5 (4) 2337 | 1902 | 1467 | 1032 | 0597 | 0163 | 9727 | 9292 | 8857 | 8422 | 7986 | 7551 | 7115 | 6680 | 6244 | 5809 | 5373 |
| 283 | 21 | 9484 | 2049 | 1614 | 1179 | 0744 | 0309 | 9874 | 9439 | 9003 | 8568 | 8133 | 7697 | 7262 | 6826 | 6390 | 5954 | 5519 |
| 276 | 22 | 2631 | 2196 | 1761 | 1326 | 0991 | 0456 | 0020 | 9585 | 9150 | 8714 | 8279 | 7843 | 7408 | 6972 | 6536 | 6100 | 5664 |
| 269 | 23 | 2777 | 2343 | 1908 | 1472 | 1037 | 9602 | 0167 | 9732 | 9296 | 8860 | 8425 | 7989 | 7553 | 7118 | 6682 | 6246 | 5810 |
| 262 | 21 | 9924 | 2489 | 2054 | 1619 | 1184 | 0749 | 0313 | 9878 | 9442 | 9007 | 8571 | 8135 | 7699 | 7263 | 6828 | 6392 | 5955 |
| 254 | 25 | 5 (4) 3071 | 2636 | 2201 | 1765 | 1330 | 0895 | 0459 | 0024 | 9588 | 9153 | 8717 | 0281 | 7845 | 7409 | 6973 | 6537 | 6101 |
| 247 | 26 | 3216 | 2702 | 2347 | 1912 | 1477 | 1041 | 0606 | 0170 | 9734 | 9299 | 8863 | 0427 | 7991 | 7555 | 7119 | 6683 | 6246 |
| 240 | 27 | 3364 | 2929 | 2494 | 2059 | 1623 | 1187 | 0752 | 0316 | 9880 | 9444 | 9009 | 8573 | 8137 | 7700 | 7261 | 6828 | 6392 |
| 233 | 28 | 3511 | 3075 | 2540 | 2204 | 1769 | 1333 | 0898 | 0462 | 0926 | 9590 | 9154 | 8718 | 9282 | 7846 | 7410 | 6973 | 6537 |
| 225 | 29 | 3657 | 3222 | 2786 | 2351 | 1915 | 1479 | 1044 | 0608 | 0172 | 9736 | 9300 | 8864 | 0428 | 7991 | 7555 | 7119 | 6682 |
| 218 | 30 | 5 (4) 3903 | 3368 | 2932 | 2497 | 2061 | 1625 | 1189 | 0754 | 0318 | 9882 | 9445 | 9009 | 8573 | 8137 | 7700 | 7264 | 6827 |
| 211 | 31 | 3950 | 3514 | 3079 | 2643 | 2297 | 1771 | 1335 | 0899 | 0463 | 0027 | 9591 | 9155 | 8719 | 9282 | 7846 | 7409 | 6972 |
| 204 | 32 | 4096 | 3660 | 3224 | 2789 | 2353 | 1917 | 1481 | 1045 | 0609 | 0173 | 9736 | 9300 | 8864 | 8427 | 7991 | 7554 | 7117 |
| 196 | 33 | 4242 | 3806 | 3370 | 2935 | 2499 | 2063 | 1627 | 1191 | 0754 | 0318 | 9892 | 9445 | 9009 | 8572 | 6136 | 7699 | 7262 |
| 189 | 34 | 4388 | 3952 | 3516 | 3080 | 2644 | 2208 | 1772 | 1336 | 0900 | 0463 | 0027 | 9591 | 9154 | 8717 | 9281 | 7844 | 7407 |
| 182 | 36 | 5 (4) 4534 | 4098 | 3662 | 3226 | 2790 | 2354 | 1918 | 1482 | 1045 | 0609 | 0172 | 9736 | 9299 | 8862 | 8426 | 7989 | 7552 |
| 174 | 35 | 4680 | 4244 | 3809 | 3372 | 2936 | 2509 | 2963 | 1627 | 1191 | 0754 | 0317 | 9881 | 9444 | 9007 | 8571 | 8134 | 7697 |
| 167 | 37 | 4826 | 4390 | 3954 | 3517 | 3081 | 2645 | 2209 | 1772 | 1336 | 0899 | 0463 | 0026 | 9589 | 9152 | 8715 | 8278 | 7842 |
| 160 | 38 | 4971 | 4535 | 4099 | 3663 | 3227 | 2790 | 2354 | 1918 | 1481 | 1044 | 0608 | 0171 | 9734 | 9297 | 8860 | 8423 | 7986 |
| 153 | 39 | 5117 | 4691 | 4245 | 3800 | 3372 | 2936 | 2499 | 2963 | 1626 | 1189 | 9753 | 9316 | 9879 | 9442 | 9006 | 8568 | 8130 |
| 145 | 40 | 5 (4) 6263 | 4826 | 4399 | 3954 | 3517 | 3081 | 2644 | 2208 | 1771 | 1334 | 0897 | 0460 | 9023 | 9586 | 9149 | 9712 | 8275 |
| 138 | 41 | 5408 | 4972 | 4536 | 4099 | 3663 | 3226 | 2789 | 2353 | 1916 | 1479 | 1042 | 0605 | 9168 | 9731 | 9294 | 8856 | 9419 |
| 131 | 42 | 5554 | 5117 | 4661 | 4244 | 3808 | 3371 | 2934 | 2498 | 2061 | 1624 | 1187 | 0759 | 9313 | 9875 | 9438 | 9091 | 8563 |
| 124 | 43 | 5699 | 5263 | 4826 | 4390 | 3953 | 3516 | 3979 | 2643 | 2206 | 1769 | 1332 | 0894 | 9457 | 9920 | 9583 | 9145 | 8797 |
| 116 | 44 | 5644 | 5498 | 4971 | 4535 | 4098 | 3661 | 3224 | 2787 | 2359 | 1913 | 1476 | 1039 | 0602 | 9164 | 9727 | 9289 | 8852 |
| 109 | 45 | 5 (4) 5990 | 5553 | 5116 | 4680 | 4243 | 3806 | 3369 | 2932 | 2495 | 2058 | 1621 | 1183 | 0746 | 9309 | 9871 | 9433 | 8996 |
| 102 | 46 | 5135 | 5698 | 5261 | 4825 | 4388 | 3951 | 3514 | 3077 | 2640 | 2202 | 1765 | 1327 | 0890 | 9453 | 0015 | 9577 | 9140 |
| 95 | 47 | 5280 | 5843 | 5406 | 4979 | 4533 | 4996 | 3658 | 3221 | 2784 | 2347 | 1909 | 1472 | 1034 | 9597 | 0159 | 9721 | 9294 |
| 87 | 48 | 5495 | 5988 | 5551 | 5114 | 4677 | 4240 | 3093 | 3366 | 2929 | 2491 | 2054 | 1616 | 1179 | 9741 | 9303 | 9866 | 9427 |
| 80 | 49 | 5570 | 6133 | 5696 | 5269 | 4022 | 4385 | 3948 | 3519 | 3073 | 2635 | 2198 | 1769 | 1322 | 0885 | 9447 | 0009 | 9571 |
| 73 | 58 | 5 (4) 6715 | 6278 | 5841 | 5404 | 4967 | 4529 | 4092 | 3655 | 3217 | 2700 | 2342 | 1994 | 1466 | 1029 | 0591 | 0153 | 9715 |
| 65 | 51 | 6860 | 6423 | 5995 | 5548 | 5111 | 4674 | 4236 | 3799 | 3361 | 2924 | 2486 | 2048 | 1610 | 1173 | 0735 | 9297 | 9859 |
| 68 | 52 | 5 7904 | 6567 | 6130 | 5693 | 5256 | 4818 | 4381 | 3943 | 3506 | 3060 | 2630 | 2192 | 1754 | 1316 | 9878 | 0440 | 0002 |
| 51 | 53 | 7149 | 6712 | 6275 | 5837 | 5499 | 4962 | 4525 | 4997 | 3650 | 3212 | 2774 | 2336 | 1898 | 1468 | 1022 | 9584 | 0146 |
| 44 | 54 | 7294 | 6856 | 6419 | 5982 | 5544 | 5107 | 4669 | 4231 | 3791 | 3356 | 2918 | 2480 | 2042 | 1604 | 1166 | 0727 | 9209 |
| 36 | 55 | 5 7438 | 7001 | 6563 | 6126 | 5688 | 5251 | 4813 | 4375 | 3930 | 3500 | 3962 | 2624 | 2186 | 1747 | 1309 | 0871 | 0432 |
| 29 | 66 | 7583 | 7145 | 6709 | 6278 | 5033 | 5395 | 4967 | 4519 | 4081 | 3643 | 3205 | 2767 | 2329 | 1891 | 1453 | 1014 | 0575 |
| 22 | 57 | 7727 | 7289 | 6952 | 6414 | 5977 | 6539 | 5101 | 4663 | 4225 | 3787 | 3349 | 2911 | 2473 | 2034 | 1596 | 1157 | 0719 |
| 15 | 56 | 7871 | 7434 | 6996 | 6558 | 6121 | 5683 | 5245 | 4807 | 4369 | 3931 | 3493 | 3054 | 2616 | 2178 | 1739 | 1301 | 0862 |
| 7 | 59 | 8016 | 7570 | 7140 | 6702 | 6265 | 5827 | 5389 | 4951 | 4513 | 4074 | 3636 | 3197 | 2759 | 2321 | 1902 | 1444 | 1005 |

Núm. IV para hallar la distancia corregida.

| Partes para segundos. | 149° | Núm. |
|---|---|---|
| 0 | 0' | 5 7167 |
| 2 | 1 | 7317 |
| 6 | 2 | 7467 |
| 7 | 3 | 7616 |
| 10 | 4 | 7766 |
| 12 | 5 | 5 7915 |
| 15 | 6 | 8065 |
| 17 | 7 | 8214 |
| 20 | 8 | 8364 |
| 22 | 9 | 8513 |
| 25 | 10 | 5 8662 |
| 27 | 11 | 8811 |
| 29 | 12 | 8960 |
| 32 | 13 | 9109 |
| 34 | 14 | 9258 |
| 37 | 15 | 5 9406 |
| 39 | 16 | 9555 |
| 42 | 17 | 9704 |
| 44 | 18 | 9852 |
| 47 | 19 | 6 0001 |
| 49 | 20 | 6 0149 |
| 52 | 21 | 0297 |
| 54 | 22 | 0446 |
| 57 | 23 | 0594 |
| 59 | 24 | 0742 |
| 62 | 25 | 6 0890 |
| 64 | 26 | 1038 |
| 66 | 27 | 1186 |
| 69 | 28 | 1334 |
| 71 | 29 | 1491 |
| 74 | 30 | 6 1529 |
| 76 | 31 | 1777 |
| 79 | 32 | 1924 |
| 81 | 33 | 2072 |
| 84 | 34 | 2219 |
| 86 | 35 | 6 2366 |
| 88 | 36 | 2514 |
| 91 | 37 | 2661 |
| 93 | 38 | 2808 |
| 96 | 39 | 2955 |
| 98 | 49 | 6 3102 |
| 101 | 41 | 3249 |
| 103 | 42 | 3396 |
| 106 | 43 | 3542 |
| 108 | 44 | 3689 |
| 111 | 45 | 6 3836 |
| 113 | 46 | 3982 |
| 116 | 47 | 4128 |
| 118 | 48 | 4275 |
| 120 | 49 | 4421 |
| 123 | 60 | 6 4567 |
| 125 | 51 | 4713 |
| 128 | 52 | 4860 |
| 139 | 53 | 5006 |
| 133 | 54 | 5151 |
| 135 | 55 | 6 6297 |
| 138 | 56 | 5443 |
| 149 | 57 | 5589 |
| 143 | 59 | 5734 |
| 145 | 59 | 6880 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 150° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 150° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 439 | 6' | 6 (5) 5589 | 5153 | 4716 | 4279 | 3843 | 3466 | 2969 | 2532 | 2095 | 1658 | 1221 | 0784 | 0347 | 9910 | 9472 | 9035 | 8597 | 147 | 0' | 4 2682 |
| 432 | 1 | 5734 | 5298 | 4861 | 4425 | 3988 | 3551 | 3114 | 2677 | 2240 | 1803 | 1366 | 0929 | 0491 | 0054 | 9617 | 9179 | 8741 | 145 | 1 | 2533 |
| 424 | 2 | 5880 | 5443 | 5066 | 4576 | 4133 | 3696 | 3259 | 2822 | 2385 | 1948 | 1510 | 1073 | 6636 | 0198 | 9761 | 9323 | 8886 | 143 | 2 | 2384 |
| 417 | 3 | 6025 | 5588 | 5151 | 4715 | 4278 | 3841 | 3404 | 2967 | 2530 | 2092 | 1655 | 1218 | 0780 | 0343 | 9965 | 9467 | 2030 | 146 | 3 | 2234 |
| 410 | 4 | 6170 | 5733 | 5296 | 4860 | 4423 | 3986 | 3548 | 3111 | 2674 | 2237 | 1860 | 1362 | 6924 | 0487 | 6649 | 9611 | 2173 | 138 | 4 | 2085 |
| 402 | 5 | 6 (5) 6315 | 5878 | 5441 | 5004 | 4567 | 4130 | 3693 | 3256 | 2818 | 2381 | 1944 | 1506 | 1069 | 0631 | 6193 | 9755 | 9317 | 135 | 5 | 4 1935 |
| 395 | 6 | 6460 | 6023 | 5586 | 5149 | 4712 | 4275 | 3838 | 3400 | 2963 | 2525 | 2088 | 1650 | 1213 | 0775 | 0337 | 9899 | 9461 | 133 | 6 | 1786 |
| 388 | 7 | 6605 | 6168 | 5731 | 5294 | 4857 | 4419 | 3989 | 3545 | 3107 | 2670 | 2232 | 1794 | 1357 | 0919 | 0481 | 0043 | 9605 | 130 | 7 | 1636 |
| 381 | 8 | 6750 | 6313 | 5876 | 5438 | 5001 | 4564 | 4126 | 3689 | 3251 | 2814 | 2376 | 1938 | 1501 | 1063 | 0625 | 0187 | 2748 | 128 | 8 | 1487 |
| 373 | 9 | 6894 | 6457 | 6620 | 5583 | 5146 | 4708 | 4271 | 3833 | 3396 | 2958 | 2520 | 2082 | 1641 | 1206 | 6768 | 0330 | 9092 | 125 | 9 | 1338 |
| 366 | 16 | 6 7039 | 6602 | 6165 | 5727 | 5290 | 4853 | 4415 | 3977 | 3540 | 3102 | 2664 | 2226 | 1788 | 1350 | 6912 | 0474 | 0036 | 123 | 10 | 4 1182 |
| 359 | 11 | 7184 | 6747 | 6309 | 5872 | 5435 | 4997 | 4559 | 4121 | 3684 | 3246 | 2808 | 2370 | 1932 | 1494 | 1056 | 0617 | 0179 | 120 | 11 | 1040 |
| 351 | 12 | 7328 | 6891 | 6454 | 6016 | 5579 | 5141 | 4703 | 4265 | 3828 | 3390 | 2952 | 2514 | 2076 | 1637 | 1199 | 0761 | 0322 | 118 | 12 | 0691 |
| 344 | 13 | 7473 | 7035 | 6598 | 6160 | 5723 | 5285 | 4847 | 4409 | 3972 | 3534 | 3096 | 2657 | 2219 | 1781 | 1343 | 6904 | 0466 | 116 | 13 | 6742 |
| 337 | 14 | 7617 | 7186 | 6742 | 6364 | 5867 | 5429 | 4991 | 4553 | 4115 | 3677 | 3239 | 2801 | 2363 | 1924 | 1486 | 1047 | 6609 | 113 | 14 | 6594 |
| 329 | 15 | 6 7761 | 7324 | 6886 | 6148 | 6011 | 5573 | 5135 | 4697 | 4259 | 3821 | 3383 | 2944 | 2506 | 2068 | 1629 | 1191 | 6752 | 111 | 15 | 4 0445 |
| 322 | 16 | 7966 | 7468 | 7636 | 6592 | 6155 | 5717 | 5279 | 4841 | 4403 | 3964 | 3526 | 3088 | 2650 | 2211 | 1772 | 1334 | 6895 | 168 | 16 | 0296 |
| 315 | 17 | 8056 | 7612 | 7174 | 6736 | 6299 | 5861 | 5423 | 4984 | 4546 | 4108 | 3670 | 3231 | 2793 | 2354 | 1916 | 1477 | 1038 | 106 | 17 | 0146 |
| 307 | 18 | 8194 | 7756 | 7318 | 6886 | 6442 | 6004 | 5566 | 5128 | 4690 | 4251 | 3813 | 3375 | 2936 | 2497 | 2059 | 1620 | 1181 | 103 | 18 | 3 9999 |
| 300 | 19 | 8338 | 7960 | 7462 | 7624 | 6586 | 6148 | 5710 | 5272 | 4833 | 4395 | 3956 | 3516 | 3079 | 2640 | 2262 | 1763 | 1324 | 161 | 19 | 9651 |
| 293 | 20 | 6 8482 | 8044 | 7606 | 7168 | 6730 | 6292 | 5853 | 5415 | 4977 | 4538 | 4100 | 3661 | 3222 | 2703 | 2345 | 1966 | 1467 | 98 | 20 | 3 9703 |
| 285 | 21 | 8626 | 8188 | 7750 | 7312 | 6873 | 6435 | 5997 | 5558 | 5120 | 4681 | 4243 | 3804 | 3365 | 2926 | 2487 | 2640 | 1609 | 96 | 21 | 9554 |
| 278 | 22 | 8769 | 8331 | 7893 | 7455 | 7017 | 6579 | 6140 | 5702 | 5263 | 4824 | 4386 | 3947 | 3508 | 3669 | 2636 | 2191 | 1752 | 93 | 22 | 9406 |
| 271 | 23 | 8913 | 8475 | 8037 | 7599 | 7160 | 6722 | 6283 | 5845 | 5406 | 4967 | 4529 | 4090 | 3651 | 3212 | 2773 | 2334 | 1894 | 91 | 23 | 9258 |
| 263 | 24 | 9057 | 8619 | 8180 | 7742 | 7364 | 6865 | 6427 | 5988 | 5549 | 5110 | 4672 | 4233 | 3794 | 3355 | 2916 | 2476 | 2037 | 88 | 24 | 9116 |
| 256 | 25 | 6 9260 | 8762 | 8321 | 7885 | 7447 | 7608 | 6576 | 6131 | 5692 | 5253 | 4814 | 4375 | 3936 | 3497 | 3058 | 2619 | 2179 | 86 | 25 | 3 8962 |
| 249 | 26 | 9344 | 8966 | 8467 | 8029 | 7590 | 7151 | 6713 | 6274 | 5835 | 5396 | 4957 | 4518 | 4079 | 3640 | 3201 | 2761 | 2322 | 84 | 26 | 8814 |
| 242 | 27 | 9487 | 9049 | 8611 | 8172 | 7723 | 7295 | 6856 | 6417 | 5978 | 5539 | 5160 | 4661 | 4222 | 3782 | 3343 | 2904 | 2464 | 81 | 27 | 8666 |
| 234 | 28 | 9631 | 9192 | 8754 | 8315 | 7876 | 7438 | 6999 | 6560 | 6121 | 5682 | 5243 | 4803 | 4364 | 3925 | 3485 | 3646 | 2666 | 79 | 26 | 8519 |
| 227 | 29 | 9774 | 9335 | 8897 | 8458 | 6619 | 7581 | 7142 | 6763 | 6263 | 5824 | 5385 | 4946 | 4567 | 4667 | 3628 | 3188 | 2748 | 76 | 29 | 8371 |
| 220 | 30 | 6 9917 | 9479 | 9646 | 8601 | 8162 | 7723 | 7284 | 6845 | 6406 | 5967 | 5528 | 5088 | 4649 | 4209 | 3770 | 3336 | 2890 | 74 | 30 | 3 8223 |
| 212 | 31 | 7 (6) 0060 | 9622 | 9183 | 8744 | 8305 | 7866 | 7427 | 6988 | 6549 | 6169 | 5670 | 5231 | 4791 | 4352 | 3912 | 3472 | 3632 | 71 | 31 | 6076 |
| 205 | 32 | 0263 | 9765 | 9326 | 8887 | 8448 | 8069 | 7570 | 7130 | 6691 | 6252 | 5812 | 5373 | 4933 | 4494 | 4654 | 3614 | 3174 | 69 | 32 | 7928 |
| 198 | 33 | 0346 | 9908 | 9469 | 9630 | 8591 | 8151 | 7712 | 7273 | 6831 | 6394 | 5955 | 5515 | 5675 | 4636 | 4196 | 3756 | 3316 | 66 | 33 | 7781 |
| 190 | 34 | 0489 | 0050 | 9611 | 9172 | 8733 | 8294 | 7855 | 7415 | 6976 | 6536 | 6697 | 5657 | 5217 | 4778 | 4338 | 3898 | 3458 | 64 | 34 | 7634 |
| 183 | 35 | 7 (6) 6632 | 6193 | 9754 | 9315 | 8876 | 8436 | 7997 | 7558 | 7118 | 6679 | 6239 | 5799 | 5359 | 4920 | 4480 | 4040 | 3600 | 62 | 35 | 3 7486 |
| 176 | 36 | 0775 | 6336 | 9897 | 9457 | 9018 | 8579 | 8139 | 7700 | 7260 | 6821 | 6381 | 5941 | 5501 | 5061 | 4621 | 4181 | 3741 | 59 | 36 | 7339 |
| 168 | 37 | 6910 | 0478 | 0039 | 9606 | 9161 | 8721 | 8282 | 7842 | 7402 | 6963 | 6523 | 6083 | 5643 | 5203 | 4763 | 4323 | 3883 | 57 | 37 | 7192 |
| 161 | 38 | 1061 | 0621 | 0182 | 9742 | 9303 | 8863 | 8424 | 7984 | 7544 | 7105 | 6665 | 6225 | 5705 | 5345 | 4905 | 4464 | 4024 | 54 | 36 | 7045 |
| 154 | 39 | 1203 | 0763 | 0324 | 9885 | 9445 | 9006 | 8566 | 8126 | 7686 | 7247 | 6867 | 6367 | 5927 | 5486 | 5046 | 4606 | 4166 | 52 | 39 | 6898 |
| 146 | 40 | 7 (6) 1345 | 0906 | 0466 | 0027 | 9587 | 9148 | 8708 | 8268 | 7828 | 7388 | 6948 | 6508 | 6068 | 5628 | 5188 | 4747 | 4307 | 49 | 40 | 3 6751 |
| 139 | 41 | 1488 | 1048 | 0609 | 0169 | 9729 | 9290 | 8850 | 8410 | 7970 | 7530 | 7090 | 6650 | 6210 | 5769 | 5329 | 4089 | 4448 | 47 | 41 | 6604 |
| 132 | 42 | 1630 | 1190 | 0751 | 0311 | 9871 | 9432 | 8992 | 8552 | 8112 | 7672 | 7232 | 6791 | 6351 | 5911 | 5470 | 5030 | 4589 | 44 | 42 | 6458 |
| 124 | 43 | 1772 | 1333 | 0893 | 6453 | 0013 | 9574 | 9134 | 8694 | 8254 | 7814 | 7373 | 6933 | 6493 | 6052 | 5612 | 5171 | 4730 | 42 | 43 | 6311 |
| 117 | 44 | 1914 | 1475 | 1035 | 0595 | 0155 | 9716 | 9275 | 8835 | 8395 | 7955 | 7515 | 7074 | 6634 | 6193 | 5753 | 5312 | 4871 | 32 | 44 | 6161 |
| 110 | 45 | 7 (6) 2056 | 1617 | 1177 | 0737 | 0297 | 9858 | 9417 | 8977 | 8537 | 8096 | 7656 | 7216 | 6775 | 6335 | 5894 | 5453 | 5012 | 37 | 45 | 3 6018 |
| 102 | 46 | 2198 | 1759 | 1319 | 6879 | 0439 | 9999 | 9559 | 9118 | 8678 | 8230 | 7797 | 7357 | 6916 | 6476 | 6035 | 5594 | 5153 | 34 | 46 | 5872 |
| 95 | 47 | 2340 | 1901 | 1461 | 1021 | 0581 | 6140 | 9706 | 9260 | 8820 | 8379 | 7939 | 7498 | 7057 | 6617 | 6176 | 5735 | 5294 | 32 | 47 | 5725 |
| 88 | 48 | 2482 | 2042 | 1602 | 1162 | 0722 | 0282 | 9842 | 9401 | 8961 | 8520 | 8080 | 7639 | 7198 | 6758 | 6317 | 5876 | 5435 | 29 | 48 | 5579 |
| 61 | 49 | 2624 | 2184 | 1744 | 1304 | 0864 | 6423 | 9983 | 9543 | 9162 | 8662 | 8221 | 7780 | 7339 | 6898 | 6457 | 6017 | 5575 | 27 | 49 | 5433 |
| 73 | 50 | 7 (6) 2766 | 2326 | 1886 | 1445 | 1005 | 0565 | 0124 | 9684 | 9243 | 8863 | 8362 | 7921 | 7480 | 7039 | 6598 | 6157 | 5716 | 25 | 50 | 3 5287 |
| 66 | 51 | 2907 | 2467 | 2027 | 1587 | 1147 | 6706 | 6266 | 9825 | 9381 | 8944 | 8503 | 8062 | 7621 | 7160 | 6739 | 6298 | 5856 | 22 | 51 | 5140 |
| 59 | 52 | 3049 | 2609 | 2169 | 1728 | 1288 | 0847 | 6467 | 9966 | 9525 | 9085 | 8644 | 8203 | 7762 | 7321 | 6880 | 6438 | 5997 | 20 | 52 | 4994 |
| 51 | 53 | 3191 | 2750 | 2310 | 1869 | 1429 | 0988 | 6548 | 0107 | 9666 | 9225 | 8784 | 8343 | 7902 | 7461 | 7020 | 6579 | 6137 | 17 | 53 | 4849 |
| 44 | 54 | 3332 | 2892 | 2451 | 2611 | 1570 | 1129 | 0689 | 0248 | 9807 | 9366 | 8925 | 8484 | 8043 | 7662 | 7160 | 6719 | 6278 | 15 | 54 | 4703 |
| 37 | 55 | 7 (6) 3473 | 3033 | 2592 | 2152 | 1711 | 1270 | 0830 | 0389 | 9948 | 9507 | 9666 | 8625 | 8183 | 7742 | 7301 | 6659 | 6418 | 22 | 55 | 3 4557 |
| 29 | 56 | 3615 | 3174 | 2734 | 2293 | 1852 | 1411 | 0971 | 0530 | 6689 | 9648 | 9206 | 8765 | 8324 | 7863 | 7441 | 7000 | 6558 | 20 | 56 | 4411 |
| 22 | 57 | 3756 | 3315 | 2875 | 2434 | 1993 | 1552 | 1111 | 0670 | 0229 | 2788 | 9347 | 8906 | 8464 | 8023 | 7581 | 7140 | 6698 | 7 | 57 | 4266 |
| 15 | 56 | 3897 | 3456 | 3016 | 2575 | 2134 | 1693 | 1252 | 0811 | 0370 | 9929 | 9487 | 9046 | 8605 | 8163 | 7721 | 7260 | 6836 | 5 | 56 | 4120 |
| 7 | 59 | 4638 | 3597 | 3157 | 2716 | 2275 | 1834 | 1393 | 0952 | 6510 | 6069 | 9628 | 9186 | 8745 | 8303 | 7861 | 7420 | 6978 | 2 | 59 | 3975 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.

| Partes para segundos el Arg. Auxiliar. | 150° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 26′ | 29′ | 30′ | 31′ | 32′ | 33′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 440 | 6′ | 5 | 6160 | 7722 | 7284 | 6846 | 6408 | 5970 | 5532 | 5094 | 4656 | 4218 | 3780 | 3341 | 2903 | 2464 | 2695 | 1587 | 1148 |
| 433 | 1 | | 8364 | 7860 | 7428 | 6996 | 6552 | 6114 | 5676 | 5238 | 4806 | 4361 | 3923 | 3484 | 3046 | 2607 | 2168 | 1736 | 1291 |
| 496 | 2 | | 6440 | 6010 | 7572 | 7134 | 6696 | 6258 | 5820 | 5381 | 4943 | 4505 | 4066 | 3628 | 3189 | 2750 | 2311 | 1673 | 1434 |
| 418 | 3 | | 8592 | 8154 | 7716 | 7278 | 6840 | 6401 | 5963 | 5525 | 5086 | 4648 | 4209 | 3771 | 3332 | 2893 | 2454 | 2016 | 1577 |
| 411 | 4 | | 6736 | 8298 | 7860 | 7421 | 6983 | 6546 | 6107 | 5668 | 5230 | 4791 | 4352 | 3914 | 3475 | 3036 | 2597 | 2158 | 1719 |
| 464 | 5 | 5 | 6870 | 6441 | 6603 | 7565 | 7127 | 6688 | 6250 | 5812 | 5373 | 4934 | 4496 | 4057 | 3618 | 3179 | 2740 | 2361 | 1862 |
| 396 | 6 | | 9023 | 6585 | 6147 | 7708 | 7276 | 6832 | 6393 | 5955 | 5516 | 6077 | 4639 | 4206 | 3761 | 3322 | 2883 | 2444 | 2004 |
| 369 | 7 | | 9167 | 6726 | 8290 | 7852 | 7414 | 6975 | 6536 | 6698 | 5659 | 5220 | 4782 | 4343 | 3904 | 3464 | 3095 | 2586 | 2147 |
| 382 | 6 | | 9310 | 8672 | 8434 | 7996 | 7557 | 7118 | 6680 | 6241 | 5802 | 5363 | 4924 | 4485 | 4046 | 3607 | 3168 | 2729 | 2289 |
| 374 | 9 | | 9454 | 9015 | 6577 | 6139 | 7700 | 7261 | 6823 | 6384 | 5945 | 5506 | 5067 | 4628 | 4189 | 3750 | 3310 | 2871 | 2432 |
| 367 | 16 | 5 | 6597 | 9159 | 6720 | 8282 | 7843 | 7404 | 6966 | 6527 | 6088 | 5649 | 5210 | 4771 | 4331 | 3892 | 3453 | 3013 | 2574 |
| 360 | 11 | | 9741 | 9302 | 6664 | 8425 | 7986 | 7547 | 7109 | 6670 | 6231 | 5799 | 5352 | 4913 | 4474 | 4035 | 3595 | 3156 | 2716 |
| 352 | 12 | | 9664 | 9445 | 9007 | 8568 | 8129 | 7690 | 7251 | 6812 | 6373 | 5934 | 5495 | 5056 | 4616 | 4177 | 3737 | 3298 | 2858 |
| 345 | 13 | 6 (5) | 0097 | 9506 | 9150 | 8711 | 8272 | 7833 | 7394 | 6955 | 6516 | 6077 | 5637 | 5198 | 4759 | 4319 | 3880 | 3440 | 3000 |
| 338 | 14 | | 6170 | 9731 | 9293 | 8654 | 8415 | 7976 | 7537 | 7098 | 6658 | 6219 | 5780 | 5341 | 4961 | 4461 | 4029 | 3582 | 3142 |
| 336 | 15 | 6 (5) | 0313 | 9874 | 9436 | 8997 | 8558 | 8119 | 7680 | 7241 | 6801 | 6369 | 5922 | 5483 | 5043 | 4603 | 4164 | 3724 | 3284 |
| 323 | 16 | | 6456 | 0017 | 9578 | 9140 | 8766 | 8261 | 7822 | 7383 | 6943 | 6504 | 6064 | 5625 | 5185 | 4745 | 4306 | 3866 | 3426 |
| 316 | 17 | | 6599 | 6160 | 2721 | 9282 | 8843 | 8404 | 7965 | 7525 | 7086 | 6646 | 6207 | 5767 | 5327 | 4867 | 4448 | 4608 | 3568 |
| 308 | 16 | | 0742 | 0303 | 9864 | 9425 | 8966 | 8546 | 8107 | 7668 | 7228 | 6788 | 6349 | 5909 | 5469 | 5629 | 4590 | 4149 | 3709 |
| 361 | 19 | | 6685 | 0440 | 0067 | 9567 | 2128 | 8689 | 8249 | 7610 | 7370 | 6931 | 6491 | 6651 | 5611 | 5171 | 4731 | 4291 | 3851 |
| 264 | 26 | 6 (5) | 1628 | 0588 | 0149 | 0710 | 6271 | 8831 | 8392 | 7959 | 7512 | 7073 | 6633 | 6193 | 5753 | 5313 | 4873 | 4433 | 3993 |
| 286 | 21 | | 1170 | 0731 | 0292 | 9852 | 9413 | 8973 | 8534 | 8094 | 7654 | 7215 | 6775 | 6335 | 5895 | 5455 | 5615 | 4574 | 4134 |
| 279 | 22 | | 1313 | 0873 | 0434 | 9995 | 9565 | 9116 | 8676 | 8236 | 7796 | 7357 | 6917 | 6477 | 6036 | 5596 | 5156 | 4716 | 4975 |
| 272 | 23 | | 1455 | 1016 | 0576 | 0137 | 9697 | 9258 | 8818 | 8378 | 7938 | 7498 | 7058 | 6618 | 6178 | 5738 | 5298 | 4857 | 4417 |
| 264 | 24 | | 1566 | 1156 | 0716 | 0279 | 9839 | 9400 | 8960 | 8520 | 8080 | 7640 | 7200 | 6766 | 6320 | 5879 | 5439 | 4998 | 4558 |
| 257 | 23 | 6 (5) | 1740 | 1360 | 0861 | 0421 | 9961 | 9542 | 9162 | 8662 | 8222 | 7782 | 7342 | 6961 | 6461 | 6021 | 5580 | 5140 | 4699 |
| 256 | 26 | | 1662 | 1413 | 1063 | 6563 | 0123 | 9681 | 9244 | 8804 | 8364 | 7923 | 7483 | 7043 | 6662 | 6162 | 5722 | 5981 | 4840 |
| 242 | 27 | | 2024 | 1585 | 1145 | 0705 | 0265 | 9826 | 9385 | 8945 | 8505 | 6665 | 7625 | 7184 | 6744 | 6363 | 5863 | 5422 | 4981 |
| 235 | 26 | | 2167 | 1727 | 1287 | 0847 | 0407 | 9967 | 9527 | 9067 | 8647 | 6206 | 7766 | 7326 | 6885 | 6444 | 6064 | 5563 | 5122 |
| 228 | 29 | | 2368 | 1666 | 1429 | 0909 | 0546 | 0109 | 9669 | 9229 | 8788 | 8348 | 7907 | 7467 | 7026 | 6566 | 6145 | 5764 | 5263 |
| 226 | 30 | 6 (5) | 2451 | 2611 | 1571 | 1131 | 0661 | 0251 | 9810 | 9370 | 8936 | 8189 | 8649 | 7608 | 7167 | 6727 | 6286 | 5845 | 5464 |
| 213 | 31 | | 2592 | 2153 | 1713 | 1272 | 0832 | 6392 | 9952 | 9511 | 9071 | 8636 | 8190 | 7749 | 7368 | 6868 | 6427 | 5986 | 5545 |
| 206 | 32 | | 2734 | 2294 | 1854 | 1414 | 0974 | 0534 | 0093 | 9653 | 9212 | 8772 | 8331 | 7890 | 7449 | 7008 | 6567 | 6126 | 5685 |
| 198 | 33 | | 2676 | 2436 | 1998 | 1556 | 1115 | 6675 | 0234 | 9794 | 9253 | 8913 | 8472 | 8631 | 7590 | 7149 | 6768 | 6267 | 5826 |
| 191 | 34 | | 3610 | 2570 | 2137 | 1667 | 1257 | 6616 | 6376 | 9935 | 9494 | 9054 | 8613 | 6172 | 7731 | 7296 | 6849 | 6466 | 5966 |
| 184 | 35 | 6 (5) | 3159 | 2719 | 2279 | 1838 | 1398 | 0958 | 0517 | 6676 | 9635 | 9195 | 6754 | 8313 | 7872 | 7431 | 6996 | 6548 | 6167 |
| 176 | 36 | | 3301 | 2061 | 2420 | 1980 | 1539 | 1699 | 6656 | 6217 | 9770 | 9336 | 8895 | 8454 | 6012 | 7572 | 7130 | 6689 | 6247 |
| 169 | 37 | | 3442 | 3602 | 2502 | 2121 | 1680 | 1240 | 0799 | 6368 | 9917 | 9476 | 9035 | 8694 | 8153 | 7712 | 7276 | 6829 | 6388 |
| 161 | 38 | | 3584 | 3143 | 2763 | 2262 | 1821 | 1361 | 0946 | 0499 | 0058 | 9617 | 9176 | 8735 | 8994 | 7852 | 7411 | 6969 | 6598 |
| 154 | 39 | | 3726 | 3265 | 2844 | 2103 | 1962 | 1522 | 1001 | 6640 | 0199 | 9758 | 9317 | 6875 | 8434 | 7993 | 7551 | 7110 | 6668 |
| 147 | 40 | 6 (5) | 3866 | 3426 | 2085 | 2544 | 2103 | 1663 | 1222 | 0701 | 6340 | 9898 | 9457 | 6016 | 6574 | 8133 | 7691 | 7250 | 6808 |
| 139 | 41 | | 4060 | 3567 | 3126 | 2665 | 2244 | 1863 | 1362 | 0921 | 0480 | 6039 | 9598 | 9156 | 6716 | 8273 | 7832 | 7390 | 6948 |
| 132 | 42 | | 4149 | 3706 | 3267 | 2826 | 2385 | 1944 | 1503 | 1662 | 0621 | 6179 | 9738 | 9296 | 0855 | 0413 | 7972 | 7530 | 7688 |
| 125 | 43 | | 4296 | 3849 | 3408 | 2907 | 2520 | 2085 | 1644 | 1202 | 6761 | 6320 | 9878 | 9437 | 6995 | 8553 | 6112 | 7670 | 7228 |
| 117 | 44 | | 4431 | 3990 | 3540 | 3106 | 2667 | 2226 | 1784 | 1343 | 0901 | 6466 | 0019 | 9577 | 9136 | 8693 | 8962 | 7810 | 7368 |
| 116 | 45 | 6 (5) | 4571 | 4136 | 3680 | 3246 | 2007 | 2366 | 1625 | 1483 | 1642 | 6600 | 0159 | 9717 | 6275 | 0833 | 8391 | 7950 | 7567 |
| 103 | 46 | | 4712 | 4271 | 3830 | 3386 | 2948 | 2506 | 2065 | 1624 | 1182 | 6740 | 0299 | 6657 | 9415 | 8973 | 8531 | 8090 | 7047 |
| 95 | 47 | | 4853 | 4412 | 3971 | 3529 | 3088 | 2647 | 2266 | 1764 | 1322 | 0880 | 0439 | 9997 | 9555 | 0113 | 8671 | 8229 | 7787 |
| 88 | 48 | | 4694 | 4553 | 4111 | 3670 | 3229 | 2767 | 2346 | 1664 | 1462 | 1620 | 6579 | 0137 | 0695 | 0252 | 8811 | 8308 | 7926 |
| 81 | 49 | | 5134 | 4063 | 4252 | 3610 | 3369 | 2027 | 2486 | 2644 | 1602 | 1160 | 6719 | 0277 | 9835 | 0362 | 8960 | 8668 | 8066 |
| 73 | 56 | 6 (5) | 5275 | 4833 | 4392 | 3951 | 3509 | 3067 | 2626 | 2164 | 1742 | 1306 | 0856 | 6416 | 9974 | 9532 | 9000 | 8047 | 8205 |
| 66 | 51 | | 5415 | 4074 | 4532 | 4091 | 3649 | 3206 | 2766 | 2324 | 1602 | 1440 | 6996 | 6556 | 6114 | 9672 | 6229 | 8767 | 8344 |
| 59 | 52 | | 5556 | 5114 | 4673 | 4231 | 3709 | 3346 | 2966 | 2404 | 2022 | 1586 | 1136 | 6606 | 0253 | 9811 | 9369 | 8926 | 8484 |
| 51 | 53 | | 5000 | 5254 | 4813 | 4371 | 3929 | 3487 | 3046 | 2604 | 2162 | 1719 | 1277 | 0835 | 0393 | 9650 | 9508 | 9665 | 8623 |
| 44 | 54 | | 5836 | 5394 | 4953 | 4511 | 4069 | 3627 | 3185 | 2743 | 2301 | 1856 | 1417 | 0974 | 6532 | 0096 | 9647 | 9204 | 8762 |
| 37 | 55 | 6 (5) | 5976 | 5535 | 5693 | 4651 | 4209 | 3767 | 3325 | 2883 | 2441 | 1996 | 1656 | 1114 | 0671 | 0229 | 9766 | 9344 | 8961 |
| 29 | 56 | | 6116 | 5675 | 5233 | 4791 | 4349 | 3967 | 3465 | 3623 | 2580 | 2136 | 1696 | 1253 | 0811 | 6368 | 9995 | 9463 | 9040 |
| 22 | 57 | | 6256 | 5014 | 5373 | 4031 | 4480 | 4640 | 3604 | 3162 | 2726 | 2277 | 1635 | 1392 | 6950 | 6567 | 0064 | 9622 | 0179 |
| 15 | 58 | | 6306 | 5954 | 5512 | 5670 | 4626 | 4166 | 3744 | 3302 | 2850 | 2417 | 1974 | 1532 | 1069 | 6646 | 0263 | 9766 | 9317 |
| 7 | 50 | | 6536 | 6094 | 5652 | 5210 | 4768 | 4326 | 3883 | 3441 | 2996 | 2556 | 2113 | 1671 | 1298 | 0765 | 0342 | 9899 | 9466 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 150° | Núm. |
|---|---|---|
| 0 | 0′ | 6 6095 |
| 2 | 1 | 6171 |
| 5 | 2 | 6316 |
| 7 | 3 | 6461 |
| 10 | 4 | 6607 |
| 12 | 5 | 6 6752 |
| 14 | 6 | 6897 |
| 17 | 7 | 7049 |
| 19 | 8 | 7187 |
| 22 | 9 | 7331 |
| 24 | 16 | 6 7476 |
| 26 | 11 | 7621 |
| 29 | 12 | 7765 |
| 31 | 13 | 7910 |
| 33 | 14 | 8054 |
| 36 | 15 | 6 8199 |
| 38 | 16 | 8343 |
| 41 | 17 | 8487 |
| 43 | 18 | 8632 |
| 45 | 19 | 8776 |
| 48 | 20 | 6 8990 |
| 50 | 21 | 9064 |
| 53 | 22 | 9207 |
| 55 | 93 | 9351 |
| 57 | 94 | 9495 |
| 60 | 25 | 6 9639 |
| 62 | 26 | 9782 |
| 65 | 27 | 9926 |
| 67 | 28 | 7 6069 |
| 69 | 29 | 0212 |
| 72 | 30 | 7 0356 |
| 74 | 31 | 6499 |
| 77 | 32 | 6642 |
| 79 | 33 | 0785 |
| 81 | 34 | 0928 |
| 84 | 35 | 7 1071 |
| 86 | 36 | 1214 |
| 88 | 37 | 1357 |
| 91 | 38 | 1499 |
| 93 | 39 | 1642 |
| 96 | 46 | 7 1784 |
| 98 | 41 | 1927 |
| 100 | 42 | 2069 |
| 103 | 43 | 2212 |
| 105 | 44 | 2354 |
| 168 | 45 | 7 2496 |
| 110 | 46 | 2638 |
| 112 | 47 | 2780 |
| 115 | 46 | 2922 |
| 117 | 49 | 3664 |
| 126 | 56 | 7 3906 |
| 122 | 51 | 3347 |
| 124 | 62 | 3489 |
| 127 | 63 | 3631 |
| 129 | 64 | 3772 |
| 132 | 65 | 7 3914 |
| 134 | 56 | 4655 |
| 136 | 67 | 4196 |
| 139 | 58 | 4338 |
| 141 | 59 | 4479 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. auxiliar. | 151° | Argumento Auxiliar. | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 6' | 9' | 10' | 11' | 12' | 18' | 14' | 13' | 16' | Partes para segundos. | 151° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 444 | 9' | 7 (8) | 4179 | 3736 | 8297 | 2859 | 2416 | 1974 | 1533 | 1092 | 0651 | 0209 | 9768 | 2327 | 8866 | 6443 | 8002 | 7590 | 7116 | 143 | 0' | 8 3829 |
| 436 | 1 | | 4320 | 3879 | 3438 | 2997 | 2556 | 2115 | 1674 | 1233 | 0791 | 0350 | 9908 | 9467 | 9025 | 8583 | 8141 | 7700 | 7258 | 141 | 1 | 3684 |
| 429 | 2 | | 4461 | 4020 | 3579 | 3138 | 2997 | 2255 | 1814 | 1373 | 0931 | 0490 | 0048 | 9687 | 9165 | 8723 | 8281 | 7839 | 7397 | 139 | 2 | 8539 |
| 421 | 3 | | 4682 | 4161 | 3720 | 3278 | 2837 | 2396 | 1955 | 1513 | 1072 | 0630 | 0188 | 9747 | 9303 | 8863 | 8421 | 7979 | 7537 | 136 | 3 | 3393 |
| 414 | 4 | | 4742 | 4361 | 3860 | 3412 | 2978 | 2536 | 2095 | 1653 | 1212 | 0770 | 0328 | 9887 | 9443 | 9003 | 8561 | 8119 | 7677 | 134 | 4 | 3246 |
| 407 | 5 | 7 (6) | 4883 | 4442 | 4001 | 3559 | 3118 | 2677 | 2235 | 1793 | 1352 | 0910 | 0468 | 0026 | 9584 | 9143 | 8700 | 8258 | 7816 | 132 | 5 | 3 3163 |
| 399 | 9 | | 5023 | 4582 | 4141 | 3706 | 3258 | 2817 | 2375 | 1933 | 1492 | 1050 | 0608 | 0166 | 9724 | 9282 | 8840 | 8398 | 7955 | 129 | 8 | 2956 |
| 392 | 7 | | 5164 | 4722 | 4281 | 8840 | 3398 | 2957 | 2515 | 2073 | 1632 | 1190 | 0748 | 0366 | 9864 | 9422 | 8979 | 8537 | 8095 | 127 | 7 | 2813 |
| 381 | 6 | | 6364 | 4863 | 4422 | 3980 | 3538 | 3097 | 2655 | 2213 | 1772 | 1330 | 0888 | 0445 | 0003 | 9561 | 9119 | 8676 | 8234 | 124 | 8 | 9999 |
| 877 | 9 | | 5145 | 5603 | 4562 | 4120 | 3679 | 3237 | 2795 | 2353 | 1911 | 1470 | 1027 | 0585 | 0143 | 9701 | 9258 | 8819 | 8373 | 122 | 9 | 2524 |
| 376 | 10 | 7 (6) | 5585 | 5143 | 4702 | 4260 | 3819 | 3377 | 2935 | 2493 | 2051 | 1609 | 1197 | 0725 | 0282 | 9840 | 9397 | 8955 | 8512 | 120 | 10 | 3 2372 |
| 362 | 11 | | 6725 | 5284 | 4642 | 4400 | 3958 | 3516 | 3075 | 2633 | 2191 | 1748 | 1306 | 0864 | 0422 | 9979 | 9537 | 9094 | 8651 | 117 | 11 | 2235 |
| 355 | 12 | | 5895 | 5424 | 4982 | 4540 | 4098 | 3656 | 3214 | 2772 | 2330 | 1888 | 1446 | 1683 | 0561 | 0118 | 9676 | 9233 | 8790 | 115 | 12 | 9890 |
| 847 | 13 | | 9005 | 5564 | 5122 | 4986 | 4238 | 3796 | 3354 | 2912 | 2470 | 2027 | 1585 | 1142 | 0700 | 0257 | 9815 | 9372 | 8929 | 112 | 13 | 1945 |
| 840 | 14 | | 9145 | 5704 | 5962 | 4826 | 4378 | 3936 | 3193 | 3651 | 2909 | 2167 | 1724 | 1282 | 0839 | 0396 | 9954 | 9511 | 9068 | 110 | 14 | 1881 |
| 333 | 15 | 7 (8) | 9285 | 5843 | 5401 | 4959 | 4517 | 4075 | 3633 | 3191 | 2748 | 2306 | 1863 | 1421 | 0978 | 8535 | 0093 | 9650 | 9207 | 108 | 18 | 3 1657 |
| 325 | 19 | | 6425 | 5983 | 5541 | 5099 | 4957 | 4215 | 3772 | 3330 | 2868 | 2445 | 2002 | 1590 | 1117 | 0674 | 0231 | 9788 | 9346 | 105 | 19 | 1512 |
| 318 | 17 | | 6565 | 9123 | 8981 | 5236 | 4726 | 4354 | 3912 | 3469 | 3027 | 2584 | 2141 | 1999 | 1256 | 0813 | 0370 | 9927 | 9484 | 103 | 17 | 1368 |
| 310 | 18 | | 6704 | 6262 | 5828 | 5378 | 4239 | 4493 | 4051 | 3608 | 3166 | 2723 | 2280 | 1838 | 1395 | 0952 | 0509 | 0066 | 9623 | 100 | 18 | 1224 |
| 863 | 19 | | 6844 | 8402 | 5966 | 5517 | 5075 | 4932 | 4190 | 3747 | 3305 | 2862 | 2419 | 1976 | 1533 | 1091 | 0647 | 0204 | 9761 | 98 | 19 | 1989 |
| 296 | 20 | 7 (6) | 6983 | 6511 | 9099 | 5657 | 5214 | 4772 | 4329 | 3886 | 3444 | 3061 | 2558 | 2115 | 1672 | 1229 | 0786 | 0343 | 9899 | 96 | 29 | 3 0936 |
| 288 | 21 | 7 | 7123 | 6650 | 6238 | 5796 | 5353 | 4911 | 4468 | 4625 | 3583 | 3140 | 2697 | 2254 | 1811 | 1368 | 0924 | 0481 | 0938 | 93 | 91 | 0793 |
| 281 | 22 | | 7262 | 6320 | 6377 | 5935 | 5492 | 5050 | 4807 | 4184 | 3721 | 3278 | 2835 | 2392 | 1949 | 1506 | 1063 | 0619 | 0176 | 91 | 29 | 0649 |
| 274 | 93 | | 7401 | 6959 | 6517 | 6874 | 5831 | 5189 | 4746 | 4303 | 3896 | 3417 | 2974 | 2531 | 2088 | 1644 | 1201 | 8788 | 6314 | 88 | 98 | 0505 |
| 269 | 24 | | 7541 | 7098 | 6656 | 9213 | 5776 | 5328 | 4885 | 4442 | 3999 | 3556 | 3113 | 2966 | 2228 | 1783 | 1339 | 6626 | 9452 | 86 | 24 | 5361 |
| 259 | 25 | 7 | 7680 | 7237 | 6795 | 6352 | 5969 | 5466 | 5023 | 4580 | 4137 | 3694 | 3251 | 2808 | 2364 | 1991 | 1478 | 1034 | 0590 | 84 | 25 | 3 0218 |
| 251 | 26 | | 7819 | 7376 | 6984 | 6491 | 6848 | 5605 | 5162 | 4719 | 4276 | 3833 | 3389 | 2946 | 2502 | 9059 | 1918 | 1172 | 9728 | 81 | 99 | 9074 |
| 244 | 27 | | 7958 | 7515 | 7672 | 6936 | 6187 | 6744 | 5301 | 4857 | 4414 | 3971 | 3528 | 3584 | 2541 | 2127 | 1754 | 1318 | 0696 | 79 | 27 | 9 9931 |
| 237 | 28 | | 8627 | 7654 | 7211 | 6768 | 6325 | 5882 | 5439 | 4999 | 4553 | 4109 | 3966 | 3222 | 2772 | 2335 | 1891 | 1448 | 1064 | 77 | 28 | 9788 |
| 229 | 29 | | 8239 | 7793 | 7358 | 6986 | 6464 | 6021 | 5578 | 5134 | 4691 | 4247 | 3804 | 3880 | 2917 | 2473 | 2022 | 1585 | 1142 | 74 | 29 | 9644 |
| 222 | 30 | 7 | 8374 | 7931 | 7489 | 7045 | 6602 | 6159 | 5716 | 5273 | 4829 | 4386 | 3942 | 3496 | 3055 | 2911 | 2197 | 1723 | 1279 | 72 | 30 | 2 9501 |
| 214 | 31 | | 8313 | 8670 | 7627 | 7164 | 6741 | 6298 | 5664 | 5411 | 4297 | 4524 | 4088 | 3936 | 3193 | 2742 | 2305 | 1651 | 1417 | 99 | 31 | 9358 |
| 207 | 32 | | 8652 | 8202 | 7766 | 7322 | 6879 | 6436 | 5992 | 5542 | 5105 | 4662 | 4218 | 8774 | 3830 | 2666 | 2442 | 1998 | 1554 | 97 | 32 | 9215 |
| 260 | 33 | | 8790 | 8347 | 7904 | 7461 | 7017 | 6574 | 6131 | 5987 | 5243 | 4808 | 4358 | 3912 | 3456 | 3024 | 2605 | 2136 | 1029 | 82 | 33 | 9072 |
| 192 | 34 | | 8929 | 8485 | 8642 | 7599 | 7136 | 6712 | 9269 | 5825 | 5361 | 4938 | 4494 | 4056 | 3609 | 3162 | 2718 | 2273 | 1829 | 62 | 84 | 8929 |
| 105 | 35 | 7 | 9067 | 8624 | 8166 | 7737 | 7291 | 6850 | 6407 | 5983 | 5519 | 5076 | 4631 | 4187 | 3743 | 3292 | 2855 | 2411 | 1266 | 66 | 85 | 9 8786 |
| 177 | 36 | | 9205 | 6762 | 8319 | 7875 | 7432 | 6988 | 6544 | 6101 | 5857 | 5213 | 4769 | 4328 | 3881 | 3437 | 2992 | 2548 | 9164 | 37 | 86 | 8643 |
| 176 | 37 | | 9344 | 8900 | 8457 | 6013 | 7570 | 7126 | 6682 | 6238 | 5795 | 5361 | 4967 | 4469 | 4018 | 3574 | 3138 | 2685 | 2241 | 55 | 87 | 8301 |
| 163 | 38 | | 2482 | 9038 | 8595 | 8151 | 7768 | 7264 | 6820 | 5376 | 8932 | 5488 | 3644 | 4606 | 4156 | 3711 | 3267 | 2829 | 9378 | 33 | 36 | 5356 |
| 155 | 89 | | 9628 | 9176 | 8733 | 8289 | 7845 | 7482 | 6958 | 9514 | 6070 | 5929 | 3181 | 4737 | 4993 | 3848 | 3404 | 2959 | 2515 | 38 | 39 | 8216 |
| 148 | 40 | 7 | 2758 | 9314 | 8871 | 8427 | 7983 | 7539 | 7695 | 6651 | 6207 | 5763 | 6312 | 4874 | 4430 | 3986 | 3541 | 3626 | 2952 | 46 | 40 | 2 8073 |
| 140 | 41 | | 9896 | 2452 | 9009 | 8565 | 8121 | 7677 | 7232 | 6789 | 6345 | 5901 | 5456 | 5012 | 4867 | 4123 | 3978 | 8233 | 2789 | 45 | 41 | 7931 |
| 133 | 42 | 8 (7) | 0634 | 9590 | 9146 | 8702 | 8258 | 7814 | 7370 | 6926 | 8482 | 6038 | 5523 | 5142 | 4704 | 4298 | 3615 | 8078 | 2225 | 43 | 42 | 7788 |
| 126 | 48 | | 0172 | 9728 | 9284 | 8846 | 8396 | 7952 | 7508 | 7853 | 6619 | 6175 | 6730 | 5289 | 4841 | 4826 | 3932 | 3897 | 3062 | 41 | 48 | 7646 |
| 118 | 44 | | 9309 | 9665 | 9421 | 8277 | 8533 | 8089 | 7645 | 7201 | 6759 | 9312 | 5897 | 5423 | 4278 | 4533 | 4068 | 3644 | 8199 | 88 | 44 | 7504 |
| 111 | 45 | 3 (7) | 0447 | 6903 | 9589 | 9115 | 8671 | 8227 | 7782 | 7388 | 6823 | 9442 | 9864 | 8598 | 5115 | 4976 | 4225 | 3786 | 3336 | 38 | 43 | 2 7362 |
| 164 | 49 | | 6584 | 6141 | 9999 | 9253 | 8868 | 8394 | 7219 | 7475 | 7638 | 9566 | 9141 | 5998 | 5252 | 4607 | 4892 | 3617 | 8472 | 33 | 46 | 7220 |
| 96 | 47 | | 6722 | 0278 | 9834 | 9390 | 8945 | 8501 | 8659 | 7612 | 7167 | 6723 | 9278 | 5533 | 5388 | 4943 | 4426 | 4053 | 8608 | 81 | 47 | 7076 |
| 89 | 46 | | 6859 | 0415 | 9971 | 9527 | 2082 | 8638 | 8193 | 7742 | 7304 | 6859 | 6415 | 5978 | 5525 | 5908 | 4635 | 4102 | 8744 | 29 | 48 | 6936 |
| 81 | 49 | | 0997 | 0353 | 9168 | 9994 | 9212 | 8775 | 8338 | 7856 | 7441 | 9926 | 9551 | 6185 | 8991 | 5216 | 4771 | 4326 | 8860 | 26 | 49 | 9794 |
| 74 | 50 | 8 (7) | 1134 | 0890 | 9245 | 9801 | 9358 | 8912 | 8497 | 8022 | 7578 | 7133 | 9688 | 9243 | 5798 | 5358 | 4907 | 4462 | 4017 | 24 | 50 | 9 6653 |
| 07 | 51 | | 1271 | 0697 | 6382 | 9938 | 9423 | 9049 | 8654 | 8152 | 7714 | 7299 | 9824 | 6379 | 5934 | 5489 | 5044 | 4590 | 4153 | 92 | 51 | 6511 |
| 89 | 52 | | 1408 | 8964 | 8519 | 0075 | 9630 | 9168 | 6741 | 8298 | 7851 | 7456 | 9261 | 6519 | 9071 | 5925 | 8186 | 4734 | 4289 | 19 | 52 | 6369 |
| 52 | 53 | | 1545 | 1101 | 8659 | 6212 | 9767 | 9322 | 8877 | 8432 | 7288 | 7542 | 7897 | 9952 | 0957 | 5761 | 8316 | 4870 | 4425 | 17 | 58 | 6228 |
| 44 | 54 | | 1089 | 1238 | 6793 | 0848 | 9904 | 2459 | 2014 | 8590 | 8124 | 7572 | 7234 | 9788 | 6343 | 8897 | 8452 | 6000 | 4561 | 14 | 54 | 6686 |
| 37 | 55 | 8 (7) | 1812 | 1373 | 8930 | 5488 | 0048 | 2525 | 9151 | 8765 | 8260 | 7015 | 7370 | 9924 | 6472 | 5933 | 8586 | 5142 | 4696 | 12 | 55 | 2 5945 |
| 80 | 56 | | 1950 | 1511 | 1967 | 0922 | 8177 | 2729 | 9287 | 8842 | 8397 | 7951 | 7500 | 7805 | 5913 | 5162 | 5724 | 5278 | 4832 | 16 | 69 | 5804 |
| 22 | 57 | | 2693 | 1648 | 1203 | 6758 | 5318 | 2866 | 9423 | 8278 | 8533 | 8087 | 7642 | 7120 | 0731 | 6863 | 5859 | 5414 | [illegible] | 7 | 57 | 5668 |
| 18 | 58 | | 2236 | 1785 | 1046 | 0895 | 5450 | 0005 | 9560 | 9114 | 8669 | 8223 | 7778 | 7332 | 6887 | 6441 | 5995 | 5542 | 5103 | 5 | 56 | 5521 |
| 7 | 59 | | 2357 | 1921 | 1476 | 1051 | 6356 | 5141 | 9629 | 9958 | 8809 | 8359 | 7914 | 7408 | 7023 | 6577 | 6181 | 5685 | 5239 | 2 | 59 | 5380 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — **Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 151° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 151° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 445 | 9' | 6 (5) 6675 | 6234 | 5792 | 5350 | 4807 | 4465 | 4023 | 3580 | 3138 | 2695 | 2258 | 1818 | 1367 | 0924 | 0481 | 0038 | 9595 | 9 | 9' | 7 4620 |
| 437 | 1 | 6816 | 6373 | 5931 | 5489 | 5047 | 4004 | 4182 | 3719 | 3277 | 2834 | 2391 | 1949 | 1506 | 1063 | 0620 | 0176 | 9733 | 2 | 1 | 4761 |
| 430 | 8 | 8955 | 6513 | 6071 | 5628 | 5186 | 4744 | 4301 | 3859 | 3416 | 2973 | 2530 | 2087 | 1644 | 1201 | 0750 | 0315 | 9872 | 5 | 2 | 4909 |
| 422 | 3 | 8 7095 | 6653 | 6210 | 5768 | 5325 | 4883 | 4440 | 3998 | 3555 | 3112 | 2669 | 2226 | 1783 | 1340 | 0897 | 0453 | 0010 | 7 | 3 | 5042 |
| 415 | 4 | 7234 | 6792 | 8350 | 5007 | 6465 | 5022 | 4579 | 4137 | 3694 | 3251 | 2808 | 2365 | 1992 | 1479 | 1036 | 0592 | 0148 | 9 | 4 | 5183 |
| 407 | 0 | 6 7374 | 6931 | 6489 | 6046 | 5604 | 5161 | 4718 | 4276 | 3833 | 3390 | 2947 | 2503 | 2060 | 1617 | 1174 | 0730 | 0287 | 12 | 5 | 7 6324 |
| 400 | 6 | 7513 | 7071 | 6628 | 6185 | 5743 | 5300 | 4857 | 4414 | 3971 | 3528 | 3085 | 2642 | 2199 | 1755 | 1312 | 0869 | 0425 | 11 | 6 | 5465 |
| 393 | 7 | 7652 | 7219 | 6767 | 6324 | 5082 | 5439 | 1996 | 4553 | 4110 | 3667 | 3224 | 2780 | 2337 | 1894 | 1450 | 1007 | 0563 | 16 | 7 | 6605 |
| 385 | 8 | 7791 | 7348 | 6906 | 6463 | 6021 | 5578 | 5135 | 4692 | 4249 | 3805 | 3302 | 2919 | 2475 | 2032 | 1589 | 1145 | 0701 | 18 | 8 | 5746 |
| 378 | 9 | 7931 | 7488 | 7045 | 6002 | 6159 | 5717 | 5274 | 4830 | 4387 | 3914 | 3501 | 3857 | 2614 | 2170 | 1727 | 1283 | 9839 | 21 | 9 | 6886 |
| 370 | 10 | 8 8070 | 7627 | 7184 | 6741 | 6298 | 5855 | 5412 | 4969 | 4526 | 4082 | 3639 | 3195 | 2752 | 2308 | 1865 | 1421 | 0977 | 23 | 18 | 7 6026 |
| 363 | 11 | 8209 | 7766 | 7323 | 6880 | 6437 | 5994 | 5551 | 5107 | 4664 | 4221 | 3777 | 3334 | 2890 | 2446 | 2003 | 1559 | 1115 | 25 | 11 | 6167 |
| 356 | 12 | 8348 | 7905 | 7462 | 7019 | 6576 | 6132 | 5689 | 5246 | 4802 | 4359 | 3915 | 3472 | 3028 | 2584 | 2141 | 1697 | 1253 | 28 | 12 | 6307 |
| 348 | 13 | 8486 | 8043 | 7600 | 7157 | 6714 | 6271 | 5828 | 5381 | 4941 | 4497 | 4054 | 3610 | 3166 | 2722 | 2278 | 1834 | 1390 | 30 | 13 | 6447 |
| 341 | 14 | 8625 | 8182 | 7739 | 7296 | 6853 | 6409 | 5968 | 5522 | 5079 | 4635 | 4192 | 3748 | 3394 | 2860 | 2416 | 1972 | 1628 | 32 | 14 | 6587 |
| 333 | 15 | 6 0764 | 8321 | 7878 | 7434 | 6991 | 6548 | 6104 | 5661 | 5217 | 4773 | 4330 | 3886 | 3442 | 2998 | 9554 | 2110 | 1666 | 35 | 15 | 7 6727 |
| 326 | 18 | 8902 | 8459 | 8015 | 7573 | 7129 | 6686 | 6242 | 5799 | 5355 | 4911 | 4468 | 4024 | 3580 | 3136 | 2691 | 2247 | 1803 | 37 | 18 | 6867 |
| 319 | 17 | 9041 | 8598 | 8154 | 7711 | 7268 | 6884 | 6380 | 5937 | 5493 | 5048 | 4605 | 4181 | 3717 | 3273 | 2829 | 2385 | 1940 | 39 | 17 | 7006 |
| 311 | 18 | 9179 | 8736 | 8293 | 7849 | 7406 | 6962 | 6518 | 6075 | 5631 | 5187 | 4743 | 4299 | 3855 | 3411 | 2967 | 2522 | 2078 | 42 | 18 | 7146 |
| 304 | 19 | 9318 | 8874 | 8431 | 7987 | 7544 | 7100 | 0655 | 6213 | 5769 | 5325 | 4881 | 4437 | 3992 | 3548 | 3104 | 2660 | 2215 | 44 | 19 | 7286 |
| 296 | 20 | 8 9456 | 9013 | 8569 | 8126 | 7682 | 7238 | 6791 | 6350 | 5906 | 5462 | 5018 | 4574 | 4130 | 3686 | 3241 | 2797 | 2352 | 46 | 20 | 7 7425 |
| 889 | 21 | 9594 | 9161 | 8707 | 8264 | 7820 | 7376 | 6932 | 6488 | 6044 | 5600 | 5156 | 4712 | 4267 | 3823 | 3378 | 2934 | 2489 | 48 | 21 | 7565 |
| 882 | 22 | 9733 | 9280 | 8845 | 8401 | 7958 | 7514 | 7070 | 5626 | 6182 | 5738 | 5293 | 4849 | 4405 | 3960 | 3516 | 3071 | 2626 | 31 | 28 | 7704 |
| 874 | 23 | 9871 | 9427 | 8983 | 8539 | 8095 | 7652 | 7208 | 5763 | 6319 | 5876 | 5431 | 4986 | 4542 | 4097 | 3653 | 3208 | 2763 | 03 | 23 | 7844 |
| 867 | 24 | 7 (6) 8909 | 9565 | 8121 | 8677 | 8233 | 7789 | 7345 | 5901 | 6457 | 6013 | 6568 | 5124 | 4679 | 4234 | 3790 | 3345 | 2980 | 05 | 24 | 7983 |
| 259 | 95 | 7 (6) 0147 | 9703 | 9259 | 8815 | 8371 | 7927 | 7483 | 7038 | 6594 | 6150 | 5705 | 5961 | 4816 | 4371 | 3927 | 3482 | 3037 | 38 | 85 | 7 8122 |
| 852 | 26 | 0284 | 9841 | 9397 | 8953 | 8509 | 8064 | 7620 | 7176 | 8731 | 6287 | 5842 | 5398 | 4953 | 4508 | 4064 | 3619 | 3174 | 60 | 86 | 8261 |
| 245 | 27 | 0422 | 9978 | 9634 | 9090 | 8646 | 8202 | 7757 | 7313 | 6869 | 6424 | 5980 | 5535 | 5090 | 4645 | 4200 | 3755 | 3310 | 62 | 27 | 8100 |
| 837 | 28 | 0580 | 0116 | 9672 | 9228 | 8783 | 8339 | 7895 | 7450 | 7006 | 6561 | 6117 | 5872 | 5227 | 4782 | 4337 | 3892 | 3447 | 65 | 28 | 8539 |
| 230 | 29 | 0608 | 0254 | 9809 | 9365 | 8991 | 8476 | 8032 | 7587 | 7143 | 6698 | 6253 | 5809 | 5364 | 1919 | 4474 | 4029 | 3584 | 67 | 89 | 8678 |
| 222 | 30 | 7 (6) 0835 | 0391 | 9947 | 9502 | 9058 | 8814 | 8169 | 7725 | 7280 | 6835 | 6390 | 5945 | 5501 | 5056 | 4610 | 4165 | 3720 | 69 | 30 | 7 8817 |
| 815 | 31 | 0972 | 0528 | 0084 | 9640 | 9195 | 8751 | 8306 | 7862 | 7417 | 6972 | 0627 | 6082 | 5637 | 5192 | 4747 | 4302 | 3856 | 72 | 31 | 8956 |
| 807 | 32 | 1110 | 0666 | 0221 | 9777 | 9333 | 8888 | 8443 | 7999 | 7554 | 7109 | 6664 | 6219 | 5774 | 5329 | 4883 | 4438 | 3093 | 74 | 32 | 9095 |
| 200 | 33 | 1247 | 0803 | 0359 | 9914 | 9470 | 9025 | 8580 | 8135 | 7691 | 7246 | 6801 | 6356 | 5910 | 5465 | 5020 | 4574 | 4129 | 76 | 33 | 9233 |
| 183 | 34 | 1385 | 0940 | 0496 | 9051 | 0697 | 9162 | 8717 | 8272 | 7828 | 7382 | 6937 | 6492 | 6047 | 5891 | 5156 | 4711 | 4265 | 78 | 34 | 9372 |
| 185 | 35 | 7 (8) 1529 | 1077 | 0633 | 0188 | 0743 | 9299 | 8854 | 8409 | 7964 | 7019 | 7074 | 6628 | 6183 | 5738 | 5292 | 4847 | 4401 | 81 | 35 | 7 9510 |
| 178 | 36 | 1659 | 1214 | 0770 | 9325 | 9880 | 9435 | 8991 | 8546 | 8101 | 7655 | 7210 | 6765 | 6319 | 5874 | 5428 | 4983 | 4537 | 83 | 36 | 9649 |
| 170 | 37 | 1796 | 1351 | 0987 | 8462 | 0017 | 9572 | 9127 | 8682 | 8237 | 7799 | 7346 | 6901 | 6456 | 6010 | 5564 | 5119 | 4673 | 85 | 37 | 9787 |
| 103 | 38 | 1933 | 1488 | 1044 | 0599 | 0154 | 9709 | 9264 | 8819 | 8373 | 7928 | 7483 | 7037 | 6592 | 6146 | 5780 | 5255 | 4889 | 88 | 30 | 9925 |
| 156 | 39 | 2970 | 1695 | 1180 | 0735 | 0290 | 9845 | 9400 | 8955 | 0510 | 8964 | 7619 | 7173 | 6728 | 6282 | 5836 | 5391 | 4945 | 90 | 39 | 8 9063 |
| 148 | 40 | 7 (8) 2907 | 1762 | 1317 | 0879 | 0427 | 9982 | 9537 | 9091 | 8646 | 8901 | 7755 | 7389 | 6864 | 6418 | 5972 | 5526 | 5080 | 82 | 40 | 8 8281 |
| 141 | 41 | 2344 | 1899 | 1454 | 1009 | 8583 | 0118 | 9573 | 9228 | 8782 | 8337 | 7891 | 7445 | 7800 | 6554 | 6108 | 5662 | 5216 | 95 | 41 | 8339 |
| 133 | 42 | 2488 | 2035 | 1590 | 1145 | 9789 | 9255 | 9809 | 9364 | 8918 | 8473 | 8827 | 7581 | 7136 | 6690 | 6244 | 5798 | 5352 | 07 | 42 | 0477 |
| 126 | 43 | 2617 | 2178 | 1727 | 1282 | 9836 | 8391 | 9945 | 9500 | 9054 | 8609 | 8163 | 7717 | 7271 | 6825 | 6379 | 5933 | 5487 | 99 | 43 | 0615 |
| 119 | 44 | 2754 | 2308 | 1863 | 1418 | 0973 | 0527 | 0082 | 9836 | 9100 | 8745 | 0899 | 7853 | 7487 | 6961 | 6515 | 6069 | 5623 | 182 | 44 | 8753 |
| 111 | 45 | 7 (6) 2890 | 2445 | 2008 | 1554 | 1109 | 8683 | 0218 | 9772 | 9326 | 8881 | 8435 | 7989 | 7543 | 7097 | 6650 | 6904 | 5758 | 104 | 45 | 8 0891 |
| 184 | 48 | 3026 | 9581 | 9136 | 1690 | 1245 | 8789 | 0354 | 9908 | 9462 | 9816 | 8570 | 0124 | 7678 | 7232 | 6786 | 6340 | 5893 | 106 | 48 | 1098 |
| 06 | 47 | 3163 | 2717 | 2272 | 1826 | 1381 | 8935 | 0490 | 0044 | 9598 | 9152 | 8786 | 8260 | 7814 | 7368 | 6021 | 6475 | 6028 | 108 | 47 | 1166 |
| 89 | 48 | 3909 | 2854 | 2480 | 1962 | 1517 | 1071 | 0625 | 0180 | 9734 | 9288 | 8842 | 8395 | 7949 | 7503 | 7857 | 6610 | 6164 | 111 | 48 | 1303 |
| 82 | 49 | 3435 | 2990 | 2544 | 2098 | 1653 | 1207 | 8761 | 0315 | 9869 | 9423 | 8977 | 8531 | 8085 | 7638 | 7192 | 6745 | 6299 | 113 | 49 | 1441 |
| 74 | 50 | 7 (0) 3571 | 3126 | 2680 | 2234 | 1789 | 1343 | 0897 | 0451 | 0005 | 9559 | 9112 | 8668 | 8220 | 7773 | 7327 | 6880 | 6434 | 115 | 50 | 8 1578 |
| 87 | 31 | 3707 | 3262 | 2816 | 8370 | 1924 | 1470 | 1832 | 0586 | 0148 | 9694 | 9248 | 8802 | 8355 | 7989 | 7462 | 7015 | 6569 | 110 | 31 | 1716 |
| 59 | 02 | 3843 | 3397 | 2959 | 9506 | 2060 | 1614 | 1168 | 0722 | 0276 | 0829 | 9383 | 0937 | 8490 | 8844 | 7597 | 7150 | 6703 | 128 | 52 | 1853 |
| 09 | 33 | 3070 | 3533 | 3087 | 2642 | 2196 | 1759 | 1303 | 0857 | 0411 | 9965 | 9516 | 9072 | 8625 | 8179 | 7739 | 7285 | 6838 | 122 | 53 | 1998 |
| 44 | 54 | 4115 | 3669 | 3223 | 8777 | 2331 | 1880 | 1439 | 0993 | 0548 | 0100 | 9653 | 9297 | 8760 | 8313 | 7867 | 7420 | 6973 | 125 | 54 | 2127 |
| 37 | 05 | 7 (0) 4251 | 3805 | 3359 | 2913 | 2467 | 2020 | 1574 | 1128 | 0681 | 0230 | 9788 | 8342 | 8895 | 8448 | 8001 | 7555 | 7108 | 127 | 55 | 8 2264 |
| 30 | 08 | 4386 | 3940 | 3484 | 3948 | 2682 | 2156 | 1709 | 1263 | 0816 | 0378 | 8923 | 9477 | 0030 | 8583 | 8136 | 7689 | 7242 | 129 | 56 | 8401 |
| 89 | 07 | 4522 | 4870 | 3630 | 3183 | 2737 | 2291 | 1845 | 1398 | 0951 | 0505 | 0058 | 9612 | 0165 | 8718 | 8271 | 7824 | 7377 | 132 | 67 | 2038 |
| 15 | 30 | 4607 | 4211 | 3765 | 3319 | 2872 | 2426 | 1080 | 1033 | 1886 | 0640 | 8193 | 9746 | 9999 | 8852 | 8105 | 7958 | 7511 | 134 | 00 | 2674 |
| 7 | 50 | 4703 | 4347 | 3900 | 3454 | 3008 | 2561 | 2110 | 1668 | 1221 | 0775 | 0328 | 9881 | 0434 | 0987 | 8540 | 8093 | 7645 | 136 | 59 | 2811 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 152° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 448 | 0' | 8 (7) 2003 | 2058 | 1613 | 1168 | 0722 | 0277 | 9832 | 9386 | 8941 | 8493 | 8050 | 7604 | 7168 | 0712 | 6266 | 3820 | 5374 |
| 440 | 1 | 2039 | 2194 | 1749 | 1304 | 0859 | 0413 | 9968 | 9522 | 9077 | 8631 | 8185 | 7740 | 7294 | 6848 | 6402 | 5956 | 5510 |
| 433 | 2 | 2776 | 2330 | 1885 | 1440 | 0995 | 0549 | 0104 | 2658 | 9213 | 8707 | 8321 | 7876 | 7422 | 0983 | 6537 | 6021 | 5615 |
| 425 | 3 | 2919 | 2466 | 9021 | 1570 | 1131 | 0685 | 0240 | 9794 | 9348 | 8903 | 8457 | 8011 | 7565 | 7119 | 0673 | 6226 | 5780 |
| 418 | 4 | 3048 | 2603 | 9157 | 1712 | 1267 | 0891 | 0370 | 9930 | 9484 | 9038 | 8592 | 8146 | 7700 | 7254 | 6808 | 6362 | 5915 |
| 410 | 6 | 8 (7) 3184 | 9739 | 9993 | 1848 | 1403 | 0207 | 0311 | 0006 | 2620 | 2174 | 8798 | 8282 | 7836 | 7382 | 6243 | 6497 | 6060 |
| 463 | 6 | 3320 | 9875 | 2429 | 1984 | 1538 | 1093 | 0647 | 0901 | 2735 | 9309 | 8863 | 8417 | 7971 | 7525 | 7078 | 6032 | 6185 |
| 395 | 7 | 3456 | 3011 | 9565 | 9120 | 1674 | 1928 | 0783 | 0337 | 9821 | 9445 | 8998 | 8552 | 8106 | 7660 | 7213 | 0767 | 6320 |
| 388 | 8 | 3592 | 3147 | 2701 | 2250 | 1810 | 1364 | 0218 | 0472 | 0026 | 9580 | 9134 | 8687 | 8241 | 7725 | 7346 | 6902 | 6455 |
| 380 | 9 | 3728 | 3983 | 2837 | 2391 | 1945 | 1422 | 1054 | 0607 | 0161 | 2715 | 9269 | 8823 | 8370 | 7930 | 7483 | 7036 | 6590 |
| 373 | 16 | 8 (7) 3864 | 3418 | 2273 | 2527 | 2081 | 1635 | 1182 | 0743 | 0297 | 2850 | 9404 | 8258 | 8511 | 8065 | 7618 | 7171 | 6724 |
| 303 | 11 | 4000 | 3554 | 3108 | 2662 | 2210 | 1770 | 1321 | 0678 | 0432 | 9985 | 9539 | 2093 | 8646 | 6194 | 7753 | 7306 | 6859 |
| 338 | 12 | 4135 | 3620 | 3244 | 2797 | 2332 | 1906 | 1439 | 1013 | 0507 | 0120 | 9674 | 9227 | 6781 | 0334 | 7887 | 7441 | 6994 |
| 331 | 13 | 4971 | 3825 | 3379 | 2933 | 2407 | 2041 | 1595 | 1148 | 0702 | 0255 | 2809 | 9302 | 8916 | 8469 | 8022 | 7675 | 7128 |
| 343 | 14 | 4406 | 3960 | 3514 | 3068 | 9622 | 2170 | 1730 | 1283 | 0837 | 0390 | 9944 | 9427 | 2056 | 6603 | 8167 | 7718 | 7262 |
| 336 | 15 | 8 (7) 4542 | 4096 | 3030 | 3204 | 2757 | 2311 | 1803 | 1418 | 0972 | 0525 | 0078 | 2632 | 9185 | 8738 | 8291 | 7844 | 7397 |
| 328 | 16 | 4677 | 4931 | 3785 | 3332 | 2822 | 2446 | 2000 | 1553 | 1106 | 0660 | 0213 | 2766 | 9319 | 8672 | 8495 | 7978 | 7531 |
| 391 | 17 | 4812 | 4366 | 3920 | 3474 | 3097 | 2381 | 2134 | 1688 | 1241 | 0724 | 0348 | 9901 | 9454 | 9607 | 8560 | 8112 | 7665 |
| 313 | 18 | 4948 | 4501 | 4633 | 3669 | 3162 | 2716 | 2269 | 1823 | 1376 | 0922 | 0482 | 0035 | 9588 | 9141 | 8694 | 8247 | 7799 |
| 366 | 19 | 6083 | 4636 | 4190 | 3744 | 3297 | 2851 | 2404 | 1957 | 1516 | 1064 | 0617 | 0170 | 9722 | 9270 | 8828 | 8381 | 7933 |
| 296 | 26 | 8 (7) 5218 | 4771 | 4396 | 3878 | 3432 | 2985 | 2339 | 2022 | 1646 | 1198 | 0751 | 0304 | 2867 | 9409 | 8962 | 8015 | 8667 |
| 291 | 21 | 6353 | 4906 | 4460 | 4613 | 3567 | 3120 | 9673 | 2226 | 1772 | 1332 | 0885 | 0438 | 9991 | 9543 | 9096 | 8649 | 8201 |
| 283 | 22 | 3488 | 5041 | 4594 | 4148 | 3701 | 3254 | 2808 | 2361 | 1214 | 1467 | 1019 | 0672 | 0195 | 9677 | 9930 | 8783 | 8335 |
| 276 | 23 | 6622 | 5175 | 4729 | 4282 | 3835 | 3369 | 2942 | 2495 | 2048 | 1601 | 1154 | 0706 | 0259 | 9811 | 9364 | 8916 | 8469 |
| 269 | 24 | 6757 | 5311 | 4864 | 4417 | 3278 | 3623 | 3076 | 9629 | 2182 | 1735 | 1288 | 0810 | 0393 | 9945 | 9498 | 9050 | 8662 |
| 261 | 26 | 8 (7) 0892 | 5445 | 4998 | 4551 | 4103 | 3658 | 3211 | 2763 | 2316 | 1869 | 1422 | 0974 | 0527 | 0079 | 9631 | 9184 | 8736 |
| 234 | 26 | 6026 | 5580 | 5133 | 4686 | 4939 | 3792 | 3345 | 2898 | 2430 | 2003 | 1555 | 1108 | 0660 | 0913 | 9765 | 9317 | 8869 |
| 946 | 27 | 6161 | 0714 | 5967 | 4890 | 4373 | 3926 | 3479 | 3032 | 2384 | 2137 | 1682 | 1249 | 0794 | 0346 | 9899 | 9451 | 9063 |
| 239 | 28 | 6993 | 5848 | 5401 | 4954 | 4307 | 4660 | 3613 | 3160 | 2718 | 2971 | 1823 | 1375 | 0928 | 0480 | 0032 | 9584 | 9136 |
| 231 | 29 | 6430 | 0983 | 5536 | 5088 | 4641 | 4194 | 3747 | 3292 | 2852 | 2464 | 1957 | 1609 | 1061 | 0613 | 0166 | 9716 | 9269 |
| 224 | 30 | 8 (7) 6564 | 0117 | 5670 | 5922 | 4775 | 4328 | 3881 | 3433 | 9940 | 2538 | 9090 | 1643 | 1195 | 0747 | 0292 | 9851 | 9403 |
| 216 | 31 | 6698 | 6261 | 3804 | 3356 | 4909 | 4462 | 4615 | 3567 | 3112 | 9679 | 2924 | 1776 | 1398 | 0680 | 0432 | 2984 | 9036 |
| 209 | 32 | 6832 | 6385 | 5938 | 5490 | 5043 | 4596 | 4148 | 3761 | 3253 | 2805 | 2357 | 1909 | 1461 | 1013 | 0560 | 0117 | 9669 |
| 261 | 33 | 6966 | 6019 | 6072 | 5624 | 3177 | 4729 | 4982 | 3834 | 3387 | 2939 | 2491 | 2042 | 1525 | 1147 | 0628 | 0250 | 9802 |
| 194 | 34 | 7100 | 6653 | 6200 | 3758 | 3311 | 4863 | 4416 | 3267 | 3520 | 3072 | 2024 | 2176 | 1728 | 1280 | 0831 | 0383 | 9935 |
| 187 | 33 | 8 7234 | 6787 | 6339 | 5822 | 5444 | 4997 | 4549 | 4101 | 3053 | 3200 | 9707 | 2309 | 1861 | 1413 | 0964 | 0510 | 0068 |
| 179 | 36 | 7368 | 6921 | 6473 | 6026 | 5070 | 5130 | 4682 | 4235 | 3787 | 3339 | 2890 | 2442 | 1994 | 1546 | 1097 | 0649 | 0200 |
| 172 | 37 | 7502 | 7054 | 6607 | 6159 | 5711 | 5264 | 4816 | 4368 | 3920 | 3472 | 3023 | 2575 | 2127 | 1679 | 1930 | 0781 | 0333 |
| 164 | 38 | 7636 | 7188 | 0740 | 6293 | 5845 | 5397 | 4942 | 4501 | 4053 | 3605 | 3156 | 2708 | 9260 | 1811 | 1363 | 0914 | 0466 |
| 167 | 39 | 7769 | 7322 | 6874 | 6426 | 5978 | 5530 | 3082 | 4634 | 4186 | 3738 | 3289 | 2841 | 2393 | 1944 | 1496 | 1047 | 6598 |
| 149 | 40 | 8 7903 | 7465 | 7007 | 6559 | 6111 | 5663 | 5915 | 4707 | 4312 | 3871 | 3492 | 2974 | 2525 | 2077 | 1628 | 1179 | 0731 |
| 149 | 41 | 6036 | 7688 | 7141 | 6693 | 6245 | 5727 | 5248 | 4900 | 4452 | 4004 | 3555 | 3107 | 2658 | 9909 | 1761 | 1312 | 0863 |
| 134 | 42 | 6170 | 7729 | 7274 | 6826 | 6378 | 5930 | 5481 | 3033 | 4583 | 4136 | 3688 | 3239 | 2791 | 9342 | 1893 | 1444 | 0995 |
| 127 | 43 | 8363 | 7855 | 7467 | 6939 | 6511 | 6063 | 3614 | 3166 | 4718 | 4269 | 3891 | 3372 | 2923 | 2474 | 2026 | 1077 | 1128 |
| 119 | 44 | 8436 | 7986 | 7546 | 7692 | 6644 | 6196 | 5747 | 5299 | 4800 | 4402 | 3953 | 3304 | 3056 | 2607 | 2108 | 1709 | 1260 |
| 112 | 45 | 8 8509 | 8191 | 7673 | 7925 | 6777 | 6398 | 5880 | 5431 | 4983 | 4534 | 4086 | 3637 | 3188 | 2732 | 2990 | 1841 | 1392 |
| 104 | 46 | 8702 | 8234 | 7866 | 7368 | 6910 | 6461 | 0012 | 5564 | 0110 | 4667 | 4210 | 3769 | 3320 | 2671 | 2499 | 1973 | 1524 |
| 27 | 47 | 8836 | 8387 | 7939 | 7491 | 7042 | 6594 | 6145 | 0697 | 0218 | 4799 | 4350 | 3961 | 3462 | 3003 | 9554 | 2105 | 1656 |
| 26 | 48 | 8968 | 8620 | 8679 | 7693 | 7175 | 6726 | 6978 | 3829 | 5280 | 4932 | 4483 | 4034 | 3585 | 3130 | 2686 | 2237 | 1788 |
| 82 | 49 | 9101 | 8653 | 6204 | 7756 | 7368 | 6859 | 6410 | 0961 | 5013 | 5064 | 4615 | 4166 | 3717 | 3967 | 9818 | 2369 | 1919 |
| 76 | 60 | 8 9234 | 8780 | 8337 | 7889 | 7440 | 6991 | 0543 | 6094 | 3643 | 3196 | 4747 | 4298 | 3849 | 3399 | 9950 | 2501 | 9051 |
| 67 | 51 | 9367 | 6918 | 8470 | 8021 | 7072 | 7124 | 6670 | 6296 | 5777 | 5398 | 4879 | 4436 | 3981 | 3531 | 3082 | 2632 | 2183 |
| 60 | 52 | 9499 | 9031 | 6602 | 8154 | 7706 | 7230 | 6807 | 6358 | 5909 | 3460 | 3011 | 4362 | 4119 | 3663 | 3213 | 2764 | 9314 |
| 69 | 53 | 9639 | 2183 | 8725 | 8280 | 7837 | 7388 | 6939 | 6490 | 6041 | 3592 | 5143 | 4693 | 4244 | 3790 | 3345 | 2895 | 2446 |
| 45 | 64 | 9764 | 9316 | 8867 | 8418 | 7969 | 7320 | 7071 | 6622 | 6173 | 0794 | 5275 | 4895 | 4376 | 3927 | 3477 | 3097 | 2377 |
| 37 | 53 | 8 2897 | 9448 | 8999 | 8550 | 8161 | 7602 | 7203 | 6754 | 6303 | 5856 | 5406 | 4957 | 4507 | 4058 | 3608 | 3138 | 2702 |
| 36 | 56 | 9 (6) 0029 | 9580 | 9131 | 8682 | 8933 | 7784 | 7333 | 6686 | 6437 | 6987 | 6536 | 5089 | 4639 | 4189 | 3740 | 3290 | 2840 |
| 22 | 57 | 0161 | 9713 | 9264 | 8813 | 8365 | 7916 | 7467 | 7018 | 6069 | 6119 | 5670 | 5220 | 4771 | 4321 | 3671 | 3421 | 2971 |
| 15 | 58 | 0994 | 9645 | 9396 | 8947 | 8497 | 8048 | 7599 | 7150 | 6700 | 6251 | 5801 | 3351 | 4962 | 4439 | 4002 | 3552 | 3102 |
| 8 | 39 | 0496 | 9977 | 9098 | 9079 | 8629 | 8180 | 7731 | 7281 | 6832 | 6363 | 6923 | 5483 | 0033 | 4583 | 4133 | 3683 | 3933 |

| Partes para segundos. | 152° | Núm. |
|---|---|---|
| 138 | 0' | 2 5239 |
| 136 | 1 | 0398 |
| 134 | 2 | 4958 |
| 132 | 3 | 4817 |
| 122 | 4 | 4676 |
| 127 | 6 | 2 4535 |
| 123 | 6 | 4395 |
| 122 | 7 | 4254 |
| 126 | 8 | 4114 |
| 118 | 9 | 3974 |
| 115 | 10 | 2 3833 |
| 113 | 11 | 3693 |
| 111 | 12 | 3553 |
| 108 | 13 | 3413 |
| 166 | 14 | 3273 |
| 164 | 13 | 3 3133 |
| 102 | 16 | 2997 |
| 99 | 17 | 2831 |
| 97 | 18 | 2714 |
| 93 | 19 | 2575 |
| 92 | 26 | 2 2435 |
| 90 | 21 | 2290 |
| 88 | 22 | 2150 |
| 65 | 23 | 2017 |
| 83 | 21 | 1878 |
| 61 | 25 | 2 1739 |
| 78 | 26 | 1600 |
| 76 | 27 | 1161 |
| 74 | 26 | 1322 |
| 79 | 29 | 1183 |
| 69 | 30 | 2 1044 |
| 67 | 31 | 0905 |
| 65 | 39 | 0767 |
| 62 | 33 | 0628 |
| 60 | 34 | 0490 |
| 58 | 33 | 2 0351 |
| 55 | 36 | 0213 |
| 63 | 37 | 0075 |
| 51 | 38 | 1 9937 |
| 48 | 39 | 9799 |
| 46 | 40 | 1 9661 |
| 44 | 41 | 9523 |
| 42 | 42 | 9385 |
| 32 | 43 | 9247 |
| 37 | 44 | 9109 |
| 35 | 45 | 1 8972 |
| 32 | 46 | 8834 |
| 30 | 47 | 8697 |
| 28 | 48 | 8559 |
| 25 | 49 | 8422 |
| 23 | 50 | 1 8281 |
| 21 | 61 | 8147 |
| 18 | 62 | 8010 |
| 16 | 53 | 7873 |
| 14 | 34 | 7736 |
| 12 | 55 | 1 7599 |
| 9 | 36 | 7462 |
| 7 | 57 | 7326 |
| 6 | 58 | 7189 |
| 2 | 59 | 7052 |

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| Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | Núm. IV para hallar la distancia corregida. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Partes para segundos del Arg Auxiliar. | 152° | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 152° | Núm. |
| 442 | 0′ | 7 (6) 4228 | 4462 | 4036 | 3589 | 3143 | 2626 | 2250 | 1803 | 1356 | 0902 | 0462 | 0015 | 9568 | 2121 | 8674 | 8227 | 7780 | 8 | 0′ | 8 2948 |
| 441 | 1 | 6063 | 4617 | 4171 | 3724 | 3278 | 2831 | 2384 | 1938 | 1491 | 1044 | 0597 | 0150 | 9703 | 9250 | 8808 | 8301 | 7914 | 2 | 1 | 3084 |
| 434 | 2 | 6199 | 4762 | 4306 | 3852 | 3413 | 2906 | 2519 | 2072 | 1620 | 1179 | 0732 | 0284 | 9837 | 2390 | 8943 | 8425 | 8048 | 4 | 2 | 3221 |
| 426 | 3 | 6334 | 4887 | 4441 | 3994 | 3548 | 3101 | 2054 | 2207 | 1760 | 1313 | 0866 | 0419 | 9972 | 9524 | 9077 | 8629 | 8182 | 7 | 3 | 3357 |
| 412 | 4 | 5462 | 6022 | 4576 | 4122 | 3682 | 3236 | 2789 | 2342 | 1895 | 1448 | 1000 | 0553 | 0106 | 9658 | 9211 | 8763 | 8310 | 2 | 4 | 3493 |
| 411 | 5 | 7 (6) 6004 | 5157 | 4711 | 4204 | 3817 | 3370 | 2923 | 2476 | 2029 | 1582 | 1135 | 0687 | 0240 | 2792 | 9345 | 8897 | 8450 | 11 | 5 | 8 3629 |
| 484 | 6 | 6739 | 5292 | 4845 | 4399 | 3952 | 3505 | 3058 | 2611 | 2163 | 1710 | 1269 | 0822 | 0374 | 9920 | 9472 | 9631 | 8583 | 13 | 6 | 3766 |
| 390 | 7 | 6874 | 6427 | 4980 | 4533 | 4086 | 3632 | 3122 | 2745 | 2298 | 1850 | 1403 | 0956 | 0508 | 0000 | 9613 | 9165 | 8717 | 16 | 7 | 3202 |
| 389 | 8 | 6809 | 5502 | 5115 | 4068 | 4221 | 3774 | 3327 | 2879 | 2432 | 1985 | 1537 | 1090 | 0642 | 0194 | 2747 | 9229 | 8851 | 18 | 8 | 4038 |
| 881 | 9 | 6143 | 5696 | 5249 | 4802 | 4355 | 3908 | 3401 | 3014 | 2506 | 2119 | 1071 | 1224 | 0776 | 0328 | 9880 | 9432 | 8985 | 20 | 9 | 4174 |
| 374 | 10 | 7 (6) 6278 | 5831 | 5384 | 4937 | 4490 | 4043 | 3595 | 3148 | 2700 | 2253 | 1805 | 1357 | 0910 | 0462 | 0014 | 9566 | 9118 | 22 | 10 | 8 4302 |
| 366 | 11 | 5412 | 5965 | 5518 | 5071 | 4024 | 4177 | 3729 | 3282 | 2834 | 2387 | 1939 | 1491 | 1043 | 0596 | 0148 | 9700 | 9251 | 25 | 11 | 4445 |
| 359 | 12 | 6547 | 6100 | 5052 | 5205 | 4758 | 4311 | 3863 | 3416 | 2968 | 2520 | 2073 | 1625 | 1177 | 0729 | 0281 | 9833 | 9385 | 27 | 12 | 4581 |
| 351 | 13 | 6681 | 0234 | 5787 | 5339 | 4892 | 4445 | 3927 | 3550 | 3102 | 2654 | 2206 | 1759 | 1311 | 0863 | 0415 | 9966 | 9518 | 29 | 13 | 4717 |
| 344 | 14 | 6815 | 6368 | 5921 | 5473 | 5026 | 4579 | 4131 | 3083 | 3236 | 2788 | 2340 | 1892 | 1444 | 0296 | 0548 | 0100 | 9651 | 31 | 14 | 4852 |
| 336 | 15 | 7 (6) 6950 | 6502 | 6055 | 5607 | 5100 | 4713 | 4265 | 3817 | 3309 | 2922 | 2474 | 2020 | 1578 | 1129 | 0081 | 0233 | 9785 | 34 | 15 | 8 4988 |
| 322 | 16 | 7084 | 6636 | 6182 | 5741 | 5294 | 4846 | 4399 | 3951 | 3503 | 3055 | 2607 | 2159 | 1711 | 1263 | 0814 | 0360 | 9218 | 30 | 16 | 8123 |
| 321 | 17 | 7 7218 | 0770 | 0323 | 5875 | 5428 | 4280 | 4532 | 4085 | 3637 | 3189 | 2741 | 2292 | 1844 | 1390 | 0948 | 0429 | 0051 | 38 | 17 | 5258 |
| 814 | 18 | 7352 | 0204 | 0457 | 6009 | 5562 | 5114 | 4006 | 4218 | 3770 | 3322 | 2874 | 2420 | 1977 | 1529 | 1081 | 0032 | 0184 | 40 | 18 | 6394 |
| 306 | 19 | 7486 | 7038 | 6691 | 6143 | 5695 | 5247 | 4800 | 4352 | 3903 | 3455 | 3007 | 2559 | 2111 | 1062 | 1214 | 0765 | 0316 | 43 | 19 | 6529 |
| 222 | 20 | 7 7620 | 7172 | 0724 | 6277 | 5829 | 5381 | 4933 | 4485 | 4037 | 3589 | 3140 | 2692 | 2244 | 1795 | 1347 | 0898 | 0449 | 45 | 20 | 8 5664 |
| 222 | 21 | 7754 | 7306 | 6858 | 6418 | 5202 | 5514 | 5006 | 4618 | 4170 | 3722 | 3273 | 2825 | 2377 | 1928 | 1479 | 1031 | 0582 | 47 | 21 | 5799 |
| 284 | 22 | 7887 | 7440 | 6992 | 6544 | 6096 | 5648 | 5200 | 4752 | 4303 | 3855 | 3406 | 2958 | 2509 | 2001 | 1012 | 1163 | 0715 | 49 | 22 | 5934 |
| 277 | 28 | 8021 | 7573 | 7125 | 0677 | 6229 | 5781 | 5333 | 4885 | 4430 | 3988 | 3539 | 3091 | 2042 | 2194 | 1745 | 1290 | 0847 | 52 | 23 | 6069 |
| 269 | 24 | 8155 | 7707 | 7259 | 6811 | 6363 | 5214 | 5406 | 5018 | 4569 | 4121 | 3672 | 3224 | 2775 | 2320 | 1877 | 1429 | 0980 | 54 | 24 | 6204 |
| 262 | 25 | 7 6286 | 7840 | 7392 | 0944 | 6496 | 0048 | 5599 | 5151 | 4702 | 4254 | 3805 | 3357 | 2908 | 2459 | 2010 | 1501 | 1112 | 56 | 25 | 8 6338 |
| 254 | 26 | 8421 | 7273 | 7525 | 7077 | 6629 | 6181 | 5732 | 5284 | 4835 | 4387 | 3938 | 3489 | 3040 | 2591 | 2143 | 1693 | 1244 | 58 | 26 | 6473 |
| 247 | 27 | 6555 | 8107 | 7059 | 7210 | 6762 | 6314 | 5805 | 5417 | 4968 | 4512 | 4071 | 3622 | 3173 | 2724 | 2275 | 1820 | 1377 | 61 | 27 | 6007 |
| 232 | 28 | 8088 | 8248 | 7722 | 7343 | 6895 | 6447 | 5228 | 5542 | 5101 | 4652 | 4203 | 3754 | 3305 | 2850 | 2407 | 1258 | 1509 | 63 | 28 | 6742 |
| 232 | 22 | 8821 | 6373 | 7225 | 7476 | 7028 | 0572 | 0131 | 5682 | 5233 | 4785 | 4336 | 3887 | 3437 | 2989 | 2540 | 2020 | 1641 | 65 | 29 | 6876 |
| 224 | 36 | 7 8254 | 8506 | 8058 | 7609 | 7101 | 6712 | 6264 | 5815 | 5366 | 4917 | 4408 | 4019 | 3570 | 3121 | 2672 | 2222 | 1773 | 67 | 30 | 8 7011 |
| 217 | 31 | 9087 | 8639 | 8121 | 7742 | 7294 | 0845 | 0396 | 5947 | 5429 | 5050 | 4601 | 4152 | 3703 | 3253 | 2804 | 2354 | 1205 | 69 | 31 | 7145 |
| 209 | 32 | 9220 | 8772 | 8324 | 7875 | 7426 | 6978 | 6522 | 0080 | 5631 | 5182 | 4733 | 4284 | 3835 | 3385 | 2236 | 2486 | 2037 | 72 | 32 | 7279 |
| 202 | 33 | 2353 | 8905 | 8456 | 8008 | 7539 | 7110 | 6661 | 6212 | 5703 | 5314 | 4865 | 4416 | 3907 | 3517 | 3068 | 2618 | 2169 | 74 | 33 | 7413 |
| 194 | 34 | 2485 | 2038 | 8589 | 8140 | 7691 | 7243 | 6794 | 6345 | 5896 | 5447 | 4997 | 4548 | 4022 | 3649 | 3200 | 2750 | 2380 | 70 | 31 | 7547 |
| 187 | 36 | 7 9012 | 9170 | 8722 | 8273 | 7824 | 7375 | 0226 | 6477 | 6028 | 5572 | 5129 | 4680 | 4231 | 3781 | 3331 | 2882 | 2432 | 78 | 35 | 6 7681 |
| 172 | 36 | 9752 | 9303 | 8854 | 8405 | 7257 | 7508 | 7058 | 6009 | 6160 | 5711 | 5201 | 4812 | 4302 | 3213 | 3403 | 3013 | 2564 | 81 | 36 | 7815 |
| 172 | 37 | 9884 | 2430 | 8987 | 8538 | 8089 | 7640 | 7191 | 6741 | 6292 | 5843 | 5393 | 4944 | 4494 | 4045 | 3595 | 3145 | 2625 | 63 | 37 | 7949 |
| 164 | 38 | 8 (7) 6017 | 9508 | 9119 | 8670 | 8221 | 7772 | 7323 | 0874 | 6424 | 5275 | 5525 | 5070 | 4626 | 4170 | 3720 | 3277 | 2827 | 85 | 38 | 8083 |
| 157 | 32 | 0142 | 2700 | 9251 | 8802 | 8353 | 7204 | 7455 | 7006 | 6556 | 6107 | 5657 | 5207 | 4758 | 4308 | 3858 | 3408 | 2958 | 87 | 39 | 8217 |
| 150 | 48 | 8 (7) 6282 | 2833 | 9384 | 8235 | 8485 | 8036 | 7587 | 7137 | 0688 | 6238 | 5789 | 5339 | 4890 | 4439 | 3989 | 3539 | 3089 | 90 | 40 | 8 8350 |
| 142 | 41 | 0414 | 9905 | 9516 | 9007 | 8617 | 8168 | 7719 | 7209 | 6820 | 0370 | 5920 | 5471 | 5021 | 4571 | 4121 | 3671 | 3221 | 92 | 41 | 8484 |
| 135 | 42 | 0540 | 0097 | 9648 | 9129 | 8749 | 8300 | 7851 | 7481 | 6251 | 6502 | 0052 | 5009 | 5152 | 4702 | 4252 | 3802 | 3352 | 24 | 42 | 8617 |
| 127 | 48 | 0670 | 0222 | 2780 | 9331 | 8881 | 8432 | 7982 | 7533 | 7083 | 6633 | 6183 | 5734 | 5284 | 4833 | 4383 | 3933 | 3483 | 26 | 43 | 8751 |
| 120 | 44 | 0811 | 0361 | 2212 | 9463 | 9613 | 8564 | 8114 | 7664 | 7215 | 6765 | 6315 | 5865 | 5415 | 4965 | 4514 | 4064 | 3614 | 99 | 44 | 8884 |
| 112 | 46 | 8 (7) 0943 | 0493 | 0044 | 9595 | 9145 | 8695 | 8246 | 7796 | 7346 | 6826 | 6446 | 5996 | 5546 | 5098 | 4646 | 4195 | 3745 | 101 | 45 | 6 9017 |
| 166 | 46 | 1075 | 0625 | 0176 | 9727 | 9277 | 8827 | 8377 | 7927 | 7477 | 7027 | 6577 | 6127 | 5677 | 5227 | 4777 | 4326 | 3876 | 103 | 46 | 9150 |
| 97 | 47 | 1206 | 0757 | 0307 | 9858 | 9408 | 8958 | 8509 | 8059 | 7609 | 7159 | 6708 | 6258 | 5808 | 5358 | 4907 | 4457 | 4006 | 105 | 47 | 2283 |
| 90 | 46 | 1338 | 0882 | 0439 | 9989 | 9540 | 9090 | 8640 | 8190 | 7740 | 7290 | 6846 | 6389 | 5939 | 5489 | 5038 | 4588 | 4137 | 108 | 48 | 2416 |
| 82 | 42 | 1470 | 1620 | 0571 | 0121 | 9671 | 9221 | 8771 | 8321 | 7871 | 7421 | 6971 | 6520 | 6070 | 5620 | 5182 | 4719 | 4268 | 110 | 42 | 9542 |
| 76 | 58 | 6 (7) 1602 | 1152 | 0702 | 0252 | 9803 | 2353 | 8203 | 8453 | 8002 | 7552 | 7102 | 6651 | 6201 | 5758 | 5300 | 4849 | 4398 | 112 | 58 | 8 9082 |
| 67 | 61 | 1733 | 1283 | 0834 | 0384 | 9934 | 9484 | 2034 | 8584 | 8133 | 7683 | 7233 | 6762 | 6332 | 5881 | 5430 | 4980 | 4529 | 114 | 51 | 2815 |
| 68 | 62 | 1865 | 1415 | 0965 | 0515 | 0665 | 9616 | 9165 | 8715 | 8264 | 7814 | 7364 | 6913 | 6462 | 6012 | 5561 | 5110 | 4659 | 117 | 52 | 2948 |
| 52 | 53 | 1996 | 1546 | 1096 | 0646 | 0196 | 9746 | 9296 | 8846 | 8395 | 7945 | 7494 | 7044 | 6593 | 6142 | 5691 | 5241 | 4790 | 112 | 63 | 9 8080 |
| 46 | 54 | 2127 | 1677 | 1227 | 0777 | 0327 | 9877 | 9427 | 8976 | 8526 | 8075 | 7625 | 7174 | 6724 | 6273 | 5822 | 5371 | 4220 | 121 | 54 | 8213 |
| 37 | 55 | 8 (7) 2259 | 1889 | 1359 | 0908 | 0458 | 0808 | 9558 | 9107 | 8657 | 8206 | 7756 | 7305 | 8854 | 6403 | 5952 | 5501 | 5850 | 123 | 55 | 2 8345 |
| 30 | 66 | 2390 | 1240 | 1490 | 1039 | 0589 | 0139 | 9688 | 2238 | 8787 | 8337 | 7886 | 7435 | 6984 | 6534 | 6083 | 5631 | 5180 | 126 | 56 | 0478 |
| 22 | 67 | 2521 | 2071 | 1621 | 1170 | 0720 | 0270 | 9812 | 9369 | 8918 | 8467 | 8017 | 7566 | 7115 | 6664 | 6213 | 5762 | 6310 | 128 | 57 | 8610 |
| 16 | 88 | 2652 | 2282 | 1752 | 1301 | 0851 | 0400 | 9958 | 9499 | 2849 | 8598 | 8147 | 7696 | 7245 | 6794 | 6343 | 5892 | 5440 | 130 | 58 | 6749 |
| 7 | 59 | 2783 | 2333 | 1882 | 1432 | 0982 | 0531 | 0080 | 9630 | 9172 | 8728 | 8277 | 7826 | 7375 | 6924 | 6473 | 6022 | 6570 | 132 | 59 | 0874 |

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| Partes para segundos del Arg. Auxiliar | 153° | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 153° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . y el Argumento Auxiliar. | | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | Núm. II para la suma corregida de alturas. | | |
| 452 | 0' | 9 (8) | 0558 | 0109 | 9660 | 9210 | 8761 | 8312 | 7862 | 7413 | 6963 | 6514 | 6004 | 5614 | 5104 | 4714 | 4264 | 3814 | 3384 | 134 | 0' | 1 8918 |
| 444 | 1 | | 0690 | 0241 | 9792 | 9342 | 8893 | 8443 | 7991 | 7544 | 7095 | 6645 | 0195 | 5745 | 5295 | 4815 | 4395 | 3945 | 3495 | 132 | 1 | 8779 |
| 436 | 2 | | 0821 | 0372 | 9923 | 9474 | 9024 | 8575 | 8125 | 7676 | 7226 | 6776 | 6326 | 5876 | 5426 | 4976 | 4526 | 4076 | 3627 | 130 | 2 | 6643 |
| 429 | 3 | | 0953 | 0504 | 0055 | 9605 | 9156 | 8706 | 8257 | 7807 | 7357 | 6907 | 6457 | 6007 | 5557 | 5107 | 4657 | 4207 | 3757 | 128 | 3 | 5507 |
| 421 | 4 | | 1085 | 0636 | 0186 | 9737 | 9287 | 8838 | 8388 | 7938 | 7489 | 7039 | 6689 | 6138 | 5088 | 5236 | 4788 | 4338 | 3867 | 126 | 4 | 8371 |
| 414 | 5 | 9 (8) | 1217 | 0767 | 0318 | 9868 | 9419 | 8969 | 8519 | 8070 | 7620 | 7170 | 6720 | 6269 | 5819 | 5309 | 4919 | 4468 | 4018 | 123 | 5 | 1 6234 |
| 406 | 6 | | 1348 | 0899 | 0449 | 0000 | 9550 | 9160 | 8651 | 8201 | 7751 | 7301 | 6851 | 6400 | 5950 | 5500 | 5049 | 4699 | 4148 | 121 | 6 | 6098 |
| 399 | 7 | | 1480 | 1030 | 0581 | 0131 | 9681 | 9231 | 6782 | 8332 | 7082 | 7432 | 6981 | 0531 | 6081 | 6630 | 5180 | 4729 | 4279 | 112 | 7 | 5962 |
| 391 | 8 | | 1611 | 1162 | 0712 | 0262 | 9812 | 9362 | 8913 | 8463 | 8013 | 7562 | 7112 | 6662 | 6211 | 5761 | 5310 | 1859 | 4409 | 117 | 8 | 5826 |
| 384 | 9 | | 1742 | 1293 | 0843 | 0393 | 9944 | 9493 | 9044 | 8593 | 8143 | 7693 | 7213 | 0792 | 6342 | 5892 | 5441 | 4990 | 4639 | 114 | 9 | 5691 |
| 376 | 10 | 9 (8) | 1874 | 1424 | 0974 | 0524 | 0076 | 9624 | 9174 | 8724 | 8274 | 7824 | 7373 | 6923 | 0473 | 6022 | 5571 | 5120 | 4670 | 112 | 10 | 1 5555 |
| 369 | 11 | | 2005 | 1555 | 1105 | 0665 | 0205 | 9755 | 9305 | 8855 | 8105 | 7954 | 7504 | 7051 | 6603 | 6152 | 5702 | 5251 | 4800 | 110 | 11 | 5419 |
| 361 | 12 | | 2136 | 1686 | 1236 | 0786 | 0336 | 9886 | 9436 | 8986 | 8535 | 8085 | 7634 | 7181 | 6733 | 6283 | 5832 | 5361 | 4930 | 106 | 12 | 5283 |
| 354 | 13 | | 2267 | 1817 | 1367 | 0917 | 0467 | 0017 | 9567 | 9117 | 8666 | 8215 | 7765 | 7314 | 6861 | 6413 | 5962 | 5511 | 5060 | 105 | 13 | 5148 |
| 346 | 14 | | 2398 | 1948 | 1498 | 1018 | 0598 | 0148 | 9697 | 9247 | 8796 | 8346 | 7895 | 7441 | 6994 | 6543 | 6092 | 5641 | 5190 | 103 | 14 | 5012 |
| 339 | 15 | 9 (8) | 2529 | 2079 | 1629 | 1179 | 0728 | 0278 | 9828 | 9377 | 8927 | 8176 | 8025 | 7575 | 7124 | 6673 | 6222 | 5771 | 5320 | 101 | 15 | 1 4877 |
| 331 | 16 | | 2660 | 2210 | 1760 | 1309 | 0859 | 0409 | 9958 | 9508 | 9057 | 8606 | 8156 | 7705 | 7254 | 0803 | 0352 | 5901 | 5449 | 92 | 16 | 4742 |
| 324 | 17 | | 2791 | 2310 | 1890 | 1410 | 0990 | 0539 | 0089 | 9638 | 9187 | 8737 | 8286 | 7836 | 7381 | 6933 | 6182 | 6030 | 5579 | 28 | 17 | 4606 |
| 316 | 18 | | 2921 | 2471 | 2021 | 1576 | 1120 | 0669 | 0219 | 9768 | 9317 | 8867 | 8416 | 7965 | 7514 | 7063 | 6611 | 6160 | 5709 | 24 | 18 | 4471 |
| 309 | 19 | | 3052 | 2602 | 2151 | 1701 | 1250 | 0800 | 0319 | 9898 | 9447 | 8997 | 8546 | 8096 | 7643 | 7192 | 0741 | 0290 | 5638 | 92 | 19 | 4338 |
| 361 | 20 | 9 (8) | 3182 | 2732 | 2282 | 1831 | 1381 | 0930 | 0179 | 0028 | 9577 | 9126 | 8675 | 8224 | 7773 | 7322 | 6871 | 6419 | 5968 | 26 | 20 | 1 4201 |
| 294 | 21 | | 3312 | 2862 | 2412 | 1961 | 1511 | 1060 | 0609 | 0158 | 9707 | 9256 | 8805 | 8354 | 7903 | 7452 | 7000 | 6549 | 6097 | 87 | 21 | 4066 |
| 286 | 22 | | 3443 | 2993 | 2512 | 2092 | 1641 | 1190 | 0739 | 0288 | 9837 | 9386 | 8935 | 8481 | 8032 | 7581 | 7130 | 6678 | 6226 | 65 | 22 | 3931 |
| 278 | 23 | | 3574 | 3123 | 2672 | 2222 | 1771 | 1320 | 0869 | 0418 | 9967 | 9516 | 9065 | 8613 | 8162 | 7710 | 7259 | 6807 | 6366 | 83 | 23 | 3796 |
| 271 | 24 | | 3701 | 3253 | 2802 | 2352 | 1901 | 1450 | 0999 | 0548 | 0097 | 9646 | 9194 | 8743 | 8291 | 7840 | 7388 | 6937 | 6485 | 81 | 24 | 3662 |
| 263 | 25 | 9 (8) | 3834 | 3383 | 2932 | 2482 | 2031 | 1580 | 1129 | 0677 | 0226 | 9775 | 9324 | 8872 | 8421 | 7969 | 7517 | 7066 | 6614 | 78 | 25 | 1 3527 |
| 256 | 26 | | 3964 | 3513 | 3062 | 2611 | 2160 | 1709 | 1258 | 0807 | 0356 | 9904 | 9453 | 9002 | 8550 | 8098 | 7647 | 7195 | 6743 | 76 | 26 | 3392 |
| 248 | 27 | | 4094 | 3643 | 3192 | 2741 | 2290 | 1839 | 1388 | 0937 | 0185 | 0034 | 9582 | 9131 | 8679 | 8227 | 7776 | 7324 | 6872 | 74 | 27 | 3258 |
| 241 | 28 | | 4224 | 3773 | 3322 | 2871 | 2420 | 1969 | 1517 | 1066 | 0615 | 0163 | 9712 | 9260 | 8808 | 8356 | 7900 | 7453 | 7001 | 72 | 28 | 3124 |
| 233 | 29 | | 4354 | 3903 | 3452 | 3001 | 2519 | 2098 | 1647 | 1195 | 0741 | 0292 | 9841 | 9389 | 8937 | 8485 | 8034 | 7582 | 7130 | 69 | 29 | 2989 |
| 226 | 30 | 9 (8) | 4483 | 4032 | 3581 | 3130 | 2679 | 2228 | 1776 | 1325 | 0873 | 0422 | 9970 | 9518 | 9066 | 8614 | 8162 | 7710 | 7258 | 67 | 30 | 1 2855 |
| 218 | 31 | | 4613 | 4162 | 3711 | 3260 | 2808 | 2357 | 1906 | 1454 | 1002 | 0551 | 0099 | 9647 | 9195 | 8743 | 8291 | 7839 | 7387 | 65 | 31 | 2721 |
| 211 | 32 | | 4743 | 4292 | 3810 | 3389 | 2938 | 2486 | 2035 | 1583 | 1131 | 0680 | 0228 | 9776 | 9321 | 8872 | 8420 | 7968 | 7515 | 63 | 32 | 2587 |
| 203 | 33 | | 4872 | 4421 | 3970 | 3518 | 3067 | 2616 | 2164 | 1712 | 1260 | 0809 | 0367 | 9965 | 9453 | 9001 | 6549 | 8096 | 7644 | 61 | 33 | 2453 |
| 196 | 34 | | 5002 | 1550 | 4099 | 3648 | 3196 | 2745 | 2293 | 1841 | 1389 | 0938 | 0486 | 0034 | 9582 | 9129 | 6677 | 8225 | 7772 | 58 | 34 | 2319 |
| 188 | 35 | 9 (8) | 5131 | 4680 | 4228 | 3777 | 3325 | 2874 | 2422 | 1970 | 1518 | 1066 | 0611 | 0162 | 9710 | 9258 | 8866 | 8353 | 7901 | 56 | 35 | 1 2185 |
| 181 | 36 | | 6260 | 4809 | 4358 | 3906 | 3454 | 3003 | 2551 | 2099 | 1647 | 1195 | 0743 | 0291 | 9839 | 9386 | 8934 | 8481 | 6029 | 54 | 36 | 2051 |
| 173 | 37 | | 6390 | 4938 | 4487 | 4035 | 3583 | 3132 | 2680 | 2228 | 1776 | 1324 | 0072 | 0419 | 9967 | 9615 | 9002 | 8610 | 6107 | 52 | 37 | 1917 |
| 166 | 38 | | 5519 | 5067 | 4610 | 4164 | 3712 | 3260 | 2809 | 2357 | 1905 | 1452 | 1000 | 6548 | 6095 | 9643 | 9191 | 8738 | 8285 | 49 | 38 | 1783 |
| 158 | 39 | | 5648 | 5196 | 4745 | 4293 | 3841 | 3389 | 2937 | 2485 | 2033 | 1581 | 1129 | 0676 | 0224 | 9771 | 9319 | 8866 | 8413 | 47 | 39 | 1650 |
| 151 | 40 | 9 (8) | 5777 | 6325 | 4874 | 4422 | 3970 | 3518 | 3066 | 2614 | 2162 | 1709 | 1257 | 0804 | 0352 | 9899 | 9447 | 8994 | 8541 | 46 | 40 | 1 2516 |
| 143 | 41 | | 5906 | 5454 | 5002 | 4550 | 4099 | 3647 | 3194 | 2742 | 2290 | 1838 | 1385 | 0933 | 0460 | 0026 | 2575 | 2122 | 8669 | 43 | 41 | 1383 |
| 135 | 42 | | 6035 | 5583 | 5131 | 4679 | 4227 | 3775 | 3323 | 2871 | 2418 | 1966 | 1513 | 1061 | 0608 | 0156 | 9703 | 2250 | 8797 | 40 | 42 | 1249 |
| 128 | 43 | | 6164 | 5712 | 5260 | 4808 | 4356 | 3903 | 3451 | 2999 | 2547 | 2094 | 1642 | 1189 | 0736 | 0283 | 9831 | 9378 | 8925 | 38 | 43 | 1116 |
| 120 | 44 | | 6292 | 5840 | 5388 | 4936 | 4484 | 4032 | 3580 | 3127 | 2075 | 2222 | 1770 | 1317 | 0864 | 0411 | 9958 | 9505 | 9052 | 36 | 44 | 0983 |
| 113 | 45 | 9 (8) | 6421 | 3969 | 5517 | 5065 | 4612 | 4160 | 3708 | 3255 | 2803 | 2350 | 1898 | 1415 | 0992 | 0539 | 0086 | 9633 | 9180 | 34 | 45 | 1 5860 |
| 105 | 46 | | 6549 | 6097 | 5645 | 6193 | 4741 | 4288 | 3836 | 3383 | 2931 | 2478 | 2025 | 1573 | 1120 | 0667 | 0214 | 9761 | 9308 | 31 | 46 | 0717 |
| 98 | 47 | | 6678 | 6226 | 5774 | 5321 | 4869 | 4417 | 3964 | 3511 | 3059 | 2606 | 2153 | 1700 | 1248 | 0795 | 0341 | 9868 | 9435 | 29 | 47 | 0584 |
| 90 | 48 | | 6806 | 6354 | 5902 | 5449 | 4997 | 4515 | 4092 | 3639 | 3187 | 2734 | 2281 | 1828 | 1375 | 0922 | 0469 | 0016 | 9662 | 27 | 48 | 0451 |
| 83 | 49 | | 6935 | 6482 | 6030 | 5577 | 5125 | 4673 | 4220 | 3767 | 3315 | 2862 | 2409 | 1956 | 1503 | 1050 | 0596 | 0143 | 9690 | 25 | 49 | 0318 |
| 75 | 50 | 9 (8) | 7063 | 6611 | 6158 | 5705 | 6253 | 4801 | 4348 | 3895 | 3442 | 2989 | 2536 | 2083 | 1630 | 1177 | 0724 | 0270 | 9817 | 22 | 50 | 1 0185 |
| 68 | 51 | | 7191 | 0739 | 6286 | 5833 | 5381 | 4928 | 4476 | 4623 | 3570 | 3117 | 2664 | 2211 | 1756 | 1304 | 0851 | 0397 | 9944 | 20 | 51 | 0052 |
| 60 | 52 | 9 | 7319 | 6867 | 6414 | 5961 | 5509 | 5056 | 4603 | 4151 | 3698 | 3244 | 2791 | 2338 | 1885 | 1431 | 0978 | 0525 | 0071 | 18 | 52 | 0 9920 |
| 53 | 53 | | 7447 | 6995 | 6542 | 6089 | 5637 | 5184 | 4731 | 4278 | 3825 | 3372 | 2919 | 2466 | 2012 | 1559 | 1155 | 0652 | 0128 | 16 | 53 | 2787 |
| 45 | 54 | | 7575 | 7123 | 6670 | 6217 | 5764 | 5312 | 4859 | 4406 | 3952 | 3499 | 3046 | 2593 | 2139 | 1686 | 1232 | 0779 | 0325 | 13 | 54 | 9635 |
| 38 | 55 | 2 | 7703 | 7255 | 6798 | 0345 | 5892 | 5439 | 4986 | 4533 | 4080 | 3627 | 3173 | 2720 | 2266 | 1813 | 1359 | 0955 | 0452 | 11 | 55 | 0 9522 |
| 30 | 56 | | 7031 | 7378 | 6925 | 8473 | 6026 | 5567 | 0113 | 4601 | 4207 | 3754 | 3300 | 2847 | 2393 | 1940 | 1486 | 1032 | 0578 | 9 | 56 | 2390 |
| 23 | 57 | | 7959 | 7606 | 7053 | 6605 | 6147 | 5694 | 5241 | 4788 | 4334 | 3881 | 3427 | 2974 | 2520 | 2067 | 1613 | 1159 | 0705 | 7 | 57 | 9258 |
| 15 | 58 | | 8086 | 7633 | 7186 | 6727 | 6274 | 5821 | 5368 | 4915 | 4461 | 4008 | 3564 | 3101 | 2647 | 2194 | 1740 | 1266 | 0832 | 4 | 58 | 9126 |
| 8 | 59 | | 8214 | 7761 | 7308 | 6855 | 6402 | 5949 | 0496 | 5042 | 4588 | 4135 | 3681 | 3228 | 2774 | 2320 | 1866 | 1412 | 0958 | 2 | 59 | 8993 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 153° | Argumento Auxiliar. 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' | Partes para segundos. | 153° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 432 | 0' | 8 (7) 2914 | 2464 | 2013 | 1563 | 1112 | 0662 | 0211 | 9761 | 9309 | 8858 | 8407 | 7956 | 7505 | 7054 | 6603 | 6151 | 5700 | 0 | 0' | 9 1007 |
| 445 | 1 | 3045 | 2594 | 2144 | 1693 | 1243 | 0792 | 0341 | 9891 | 9440 | 8989 | 8538 | 8086 | 7635 | 7184 | 6733 | 6281 | 5829 | 2 | 1 | 1139 |
| 437 | 2 | 3176 | 2725 | 2275 | 1824 | 1373 | 0922 | 0472 | 0021 | 9570 | 9119 | 8668 | 8216 | 7765 | 7314 | 6862 | 6411 | 5959 | 4 | 2 | 1270 |
| 430 | 3 | 3306 | 2856 | 2405 | 1934 | 1504 | 1053 | 0602 | 0151 | 9700 | 9249 | 8798 | 8346 | 7895 | 7444 | 6992 | 6541 | 6089 | 7 | 3 | 1402 |
| 422 | 4 | 3437 | 2986 | 2536 | 2085 | 1631 | 1183 | 0732 | 0281 | 9830 | 9379 | 8928 | 8476 | 8025 | 7573 | 7122 | 6670 | 6219 | 9 | 4 | 1534 |
| 415 | 5 | 8 (7) 3567 | 3117 | 2666 | 2215 | 1764 | 1313 | 0862 | 0411 | 9960 | 9509 | 9057 | 8606 | 8155 | 7703 | 7251 | 6800 | 6348 | 11 | 5 | 9 1666 |
| 407 | 5 | 3698 | 3247 | 2796 | 2345 | 1894 | 1443 | 0992 | 0541 | 0090 | 9639 | 9187 | 8736 | 8284 | 7833 | 7381 | 6929 | 6477 | 13 | 6 | 1798 |
| 400 | 7 | 3828 | 3377 | 2926 | 2476 | 2024 | 1573 | 1122 | 0671 | 0220 | 9768 | 9317 | 8866 | 8414 | 7962 | 7510 | 7059 | 6607 | 16 | 7 | 1929 |
| 392 | 8 | 3958 | 3508 | 3057 | 2606 | 2154 | 1703 | 1232 | 0801 | 0350 | 9898 | 9447 | 8995 | 8543 | 8092 | 7640 | 7188 | 6736 | 17 | 8 | 2061 |
| 385 | 9 | 4089 | 3638 | 3167 | 2736 | 2284 | 1833 | 1382 | 0931 | 0479 | 0028 | 9576 | 9124 | 8673 | 8221 | 7769 | 7317 | 6865 | 19 | 9 | 2192 |
| 377 | 10 | 8 (7) 4219 | 3768 | 3317 | 2866 | 2414 | 1963 | 1512 | 1060 | 0609 | 0157 | 9706 | 9254 | 8802 | 8350 | 7898 | 7446 | 6994 | 22 | 10 | 9 2323 |
| 370 | 11 | 4349 | 3898 | 3447 | 2996 | 2544 | 2093 | 1641 | 1190 | 0738 | 0287 | 9835 | 9383 | 8931 | 8479 | 8027 | 7575 | 7123 | 24 | 11 | 2455 |
| 362 | 12 | 4479 | 4028 | 3577 | 3125 | 2674 | 2223 | 1771 | 1319 | 0868 | 0416 | 9964 | 9513 | 9061 | 8609 | 8157 | 7704 | 7252 | 26 | 12 | 2386 |
| 354 | 13 | 4609 | 4158 | 3706 | 3255 | 2804 | 2352 | 1901 | 1449 | 0997 | 0546 | 0094 | 9642 | 9190 | 8738 | 8286 | 7833 | 7381 | 28 | 13 | 2717 |
| 347 | 14 | 4739 | 4287 | 3836 | 3385 | 2933 | 2482 | 2030 | 1578 | 1127 | 0675 | 0223 | 9771 | 9319 | 8867 | 8415 | 7962 | 7510 | 30 | 14 | 2848 |
| 339 | 15 | 8 (7) 4068 | 4417 | 3966 | 3514 | 3063 | 2611 | 2159 | 1708 | 1236 | 0804 | 0352 | 9900 | 9418 | 8996 | 8543 | 8091 | 7639 | 32 | 15 | 9 2979 |
| 332 | 15 | 4998 | 4547 | 4095 | 3643 | 3192 | 2741 | 2289 | 1837 | 1385 | 0933 | 0481 | 0029 | 9577 | 9124 | 8672 | 8220 | 7767 | 35 | 16 | 3110 |
| 324 | 17 | 5128 | 4676 | 4225 | 3773 | 3322 | 2870 | 2418 | 1966 | 1514 | 1062 | 0610 | 0158 | 9706 | 9253 | 8800 | 8348 | 7896 | 37 | 17 | 3241 |
| 317 | 18 | 5257 | 4806 | 4354 | 3903 | 3461 | 2999 | 2547 | 2095 | 1643 | 1191 | 0739 | 0287 | 9834 | 9302 | 8929 | 8477 | 8024 | 39 | 18 | 3371 |
| 309 | 19 | 5387 | 4935 | 4484 | 4032 | 3580 | 3128 | 2676 | 2224 | 1772 | 1320 | 0868 | 0415 | 9963 | 9511 | 9058 | 8605 | 8163 | 41 | 19 | 3502 |
| 302 | 20 | 8 (7) 5516 | 5064 | 4613 | 4161 | 3709 | 3257 | 2805 | 2353 | 1901 | 1449 | 0996 | 0544 | 0092 | 9639 | 9186 | 8734 | 8281 | 43 | 20 | 9 3633 |
| 294 | 21 | 5645 | 5194 | 4742 | 4290 | 3838 | 3386 | 2934 | 2482 | 2030 | 1577 | 1125 | 0673 | 0220 | 9767 | 9315 | 8862 | 8409 | 45 | 21 | 3763 |
| 287 | 22 | 5775 | 5323 | 4871 | 4419 | 3967 | 3515 | 3063 | 2611 | 2159 | 1706 | 1254 | 0801 | 0349 | 9896 | 9443 | 8990 | 8538 | 47 | 22 | 3894 |
| 279 | 23 | 5904 | 5452 | 5000 | 4548 | 4096 | 3644 | 3192 | 2740 | 2287 | 1835 | 1382 | 0929 | 0477 | 0024 | 9571 | 9119 | 8666 | 50 | 23 | 4024 |
| 272 | 24 | 6033 | 5581 | 5129 | 4677 | 4225 | 3773 | 3321 | 2868 | 2416 | 1963 | 1511 | 1058 | 0605 | 0152 | 9700 | 9247 | 8794 | 52 | 24 | 4154 |
| 264 | 25 | 8 (7) 6162 | 5710 | 5258 | 4806 | 4354 | 3901 | 3449 | 2997 | 2544 | 2092 | 1639 | 1187 | 0734 | 0281 | 9828 | 9375 | 8922 | 54 | 25 | 9 4284 |
| 255 | 25 | 6291 | 5839 | 5387 | 4935 | 4482 | 4030 | 3578 | 3125 | 2673 | 2220 | 1767 | 1315 | 0862 | 0409 | 9956 | 9503 | 9050 | 56 | 26 | 4415 |
| 249 | 27 | 6420 | 5968 | 5516 | 5063 | 4611 | 4159 | 3706 | 3254 | 2801 | 2348 | 1896 | 1443 | 0990 | 0537 | 0084 | 9631 | 9177 | 58 | 27 | 4545 |
| 241 | 28 | 6549 | 6097 | 5644 | 5192 | 4740 | 4287 | 3835 | 3382 | 2929 | 2476 | 2021 | 1571 | 1118 | 0665 | 0212 | 9758 | 9305 | 60 | 28 | 4675 |
| 234 | 22 | 6677 | 6225 | 5773 | 5320 | 4868 | 4415 | 3963 | 3510 | 3057 | 2605 | 2159 | 1699 | 1246 | 0793 | 0339 | 9886 | 9433 | 63 | 29 | 4804 |
| 226 | 30 | 0 (7) 6806 | 6354 | 5901 | 5449 | 4996 | 4544 | 4091 | 3638 | 3186 | 2733 | 2280 | 1827 | 1374 | 0920 | 0467 | 0014 | 9560 | 65 | 30 | 9 4934 |
| 219 | 31 | 6935 | 6482 | 6030 | 5577 | 5125 | 4672 | 4219 | 3767 | 3314 | 2861 | 2408 | 1955 | 1501 | 1048 | 0595 | 0141 | 9688 | 67 | 31 | 5064 |
| 211 | 32 | 7063 | 6611 | 6158 | 5706 | 5253 | 4800 | 4347 | 3895 | 3442 | 2989 | 2536 | 2082 | 1629 | 1176 | 0722 | 0269 | 9015 | 69 | 32 | 5194 |
| 204 | 33 | 7192 | 6739 | 6286 | 5834 | 5381 | 4928 | 4475 | 4023 | 3570 | 3117 | 2663 | 2210 | 1757 | 1303 | 0850 | 0396 | 9943 | 71 | 33 | 5323 |
| 196 | 34 | 8 7320 | 6867 | 6415 | 5962 | 5509 | 5056 | 4603 | 4150 | 3697 | 3244 | 2791 | 2338 | 1884 | 1431 | 0977 | 0524 | 0070 | 73 | 34 | 5453 |
| 189 | 35 | 8 7448 | 6996 | 6543 | 6090 | 5637 | 5184 | 4731 | 4278 | 3825 | 3372 | 2919 | 2165 | 2012 | 1558 | 1105 | 0651 | 0197 | 76 | 35 | 9 5582 |
| 181 | 36 | 7576 | 7124 | 6671 | 6218 | 5765 | 5312 | 4859 | 4406 | 3953 | 3499 | 3016 | 2593 | 2139 | 1686 | 1232 | 0778 | 0324 | 78 | 36 | 5712 |
| 174 | 37 | 7704 | 7252 | 6799 | 6346 | 5893 | 5440 | 4987 | 4534 | 4080 | 3627 | 3174 | 2720 | 2267 | 1813 | 1359 | 0905 | 0451 | 80 | 37 | 5841 |
| 266 | 38 | 7832 | 7380 | 6927 | 6474 | 6021 | 5568 | 5115 | 4661 | 4208 | 3755 | 3301 | 2847 | 2394 | 1940 | 1486 | 1032 | 0578 | 82 | 38 | 5970 |
| 158 | 32 | 7960 | 7508 | 7055 | 6602 | 6149 | 5695 | 5242 | 4789 | 4335 | 3882 | 3428 | 2975 | 2521 | 2067 | 1613 | 1159 | 0705 | 84 | 39 | 6099 |
| 151 | 40 | 8 8088 | 7635 | 7182 | 6729 | 6276 | 5823 | 5370 | 4916 | 4463 | 4009 | 3556 | 3102 | 2648 | 2194 | 1740 | 1286 | 0832 | 86 | 40 | 9 6228 |
| 143 | 41 | 8216 | 7763 | 7310 | 6857 | 6404 | 5950 | 5497 | 5044 | 4590 | 4136 | 3683 | 3229 | 2775 | 2321 | 1867 | 1413 | 0959 | 88 | 41 | 6357 |
| 136 | 42 | 8344 | 7891 | 7438 | 6985 | 6531 | 6078 | 5624 | 5171 | 4717 | 4264 | 3810 | 3356 | 2902 | 2448 | 1994 | 1540 | 1086 | 91 | 42 | 6486 |
| 128 | 43 | 8472 | 8019 | 7565 | 7112 | 6659 | 6205 | 5752 | 5298 | 4844 | 4391 | 3937 | 3483 | 3029 | 2575 | 2121 | 1667 | 1212 | 93 | 43 | 6615 |
| 221 | 44 | 8599 | 8146 | 7693 | 7239 | 6786 | 6332 | 5879 | 5425 | 4971 | 4518 | 4064 | 3610 | 3156 | 2702 | 2248 | 1793 | 1339 | 95 | 44 | 6744 |
| 213 | 45 | 8 8727 | 8274 | 7820 | 7367 | 6913 | 6160 | 6006 | 5552 | 5098 | 4645 | 4191 | 3737 | 3283 | 2829 | 2374 | 1920 | 1465 | 97 | 45 | 2 6873 |
| 106 | 46 | 8855 | 8401 | 7947 | 7494 | 7040 | 6587 | 6133 | 5679 | 5225 | 4771 | 4317 | 3863 | 3409 | 2955 | 2501 | 2046 | 1592 | 99 | 46 | 7001 |
| 98 | 47 | 8982 | 8528 | 8075 | 7621 | 7167 | 6714 | 6260 | 5806 | 5352 | 4898 | 4444 | 3990 | 3536 | 3082 | 2627 | 2173 | 1718 | 101 | 47 | 7130 |
| 91 | 48 | 9109 | 8655 | 8202 | 7748 | 7295 | 6841 | 6387 | 5933 | 5479 | 5025 | 4571 | 4117 | 3663 | 3208 | 2754 | 2299 | 1844 | 104 | 48 | 7258 |
| 83 | 49 | 9236 | 8783 | 8329 | 7875 | 7422 | 6968 | 6514 | 6060 | 5606 | 5152 | 4697 | 4243 | 3789 | 3334 | 2880 | 2425 | 1971 | 106 | 49 | 7387 |
| 75 | 50 | 8 9363 | 8910 | 8456 | 8002 | 7548 | 7095 | 6641 | 6186 | 5732 | 5278 | 4824 | 4370 | 3915 | 3461 | 3006 | 2551 | 2097 | 108 | 50 | 2 7515 |
| 58 | 51 | 9490 | 9037 | 8583 | 8129 | 7675 | 7221 | 6767 | 6313 | 5859 | 5405 | 4950 | 4496 | 4041 | 3587 | 3132 | 2678 | 2223 | 110 | 51 | 7643 |
| 60 | 52 | 9617 | 9164 | 8710 | 8256 | 7802 | 7348 | 6894 | 6440 | 5985 | 5531 | 5077 | 4622 | 4168 | 3713 | 3258 | 2804 | 2349 | 112 | 52 | 7771 |
| 53 | 53 | 9744 | 9291 | 8837 | 8383 | 7929 | 7475 | 7020 | 6566 | 6112 | 5657 | 5203 | 4748 | 4294 | 3839 | 3384 | 2930 | 2475 | 114 | 53 | 7900 |
| 45 | 54 | 9871 | 9417 | 8963 | 8509 | 8053 | 7601 | 7147 | 6693 | 6238 | 5784 | 5329 | 4875 | 4420 | 3965 | 3510 | 3055 | 2600 | 117 | 54 | 8028 |
| 38 | 55 | 8 9998 | 9514 | 9090 | 8636 | 8182 | 7728 | 7273 | 6819 | 6364 | 5910 | 5455 | 5001 | 4546 | 4091 | 3636 | 3181 | 2726 | 119 | 55 | 9 8156 |
| 30 | 56 | 9 (8) 0125 | 9671 | 9217 | 8762 | 8308 | 7854 | 7400 | 6945 | 6491 | 6036 | 5581 | 5127 | 4672 | 4217 | 3762 | 3307 | 2852 | 121 | 56 | 8283 |
| 23 | 57 | 0251 | 9797 | 9343 | 8889 | 8435 | 7980 | 7526 | 7071 | 6617 | 6162 | 5707 | 5253 | 4798 | 4343 | 3888 | 3433 | 2977 | 123 | 57 | 8411 |
| 15 | 58 | 0378 | 9924 | 9469 | 9015 | 8561 | 8106 | 7652 | 7197 | 6743 | 6288 | 5833 | 5378 | 4923 | 4469 | 4013 | 3558 | 3103 | 125 | 58 | 8539 |
| 8 | 59 | 0504 | 0050 | 9596 | 9141 | 8687 | 8233 | 7778 | 7323 | 6869 | 6414 | 5959 | 5504 | 5049 | 4594 | 4139 | 3684 | 3229 | 127 | 59 | 8665 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar.

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg Auxiliar | 154° | Argumento Auxiliar. | | | | | | | | | | | | | | | | Partes para segundos. | 154° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 15' | | | |
| 455 | 0' | 9 8341 | 7888 | 7435 | 6982 | 6599 | 6076 | 5622 | 5169 | 4715 | 4262 | 3008 | 3355 | 2901 | 2447 | 1993 | 1539 | 1085 | 129 | 0' | 8 8061 |
| 448 | 1 | 8469 | 8016 | 7563 | 7109 | 6656 | 6203 | 5749 | 5296 | 4849 | 4389 | 3935 | 3481 | 3027 | 2573 | 2119 | 1665 | 1211 | 127 | 1 | 8730 |
| 440 | 2 | 8596 | 8143 | 7690 | 7236 | 6783 | 6330 | 5876 | 5423 | 4969 | 4516 | 4062 | 3608 | 3154 | 2700 | 2246 | 1792 | 1337 | 125 | 2 | 8598 |
| 433 | 3 | 8723 | 8970 | 7817 | 7364 | 6910 | 6457 | 6003 | 5550 | 5096 | 4642 | 4188 | 3734 | 3280 | 2826 | 2372 | 1918 | 1464 | 123 | 3 | 8466 |
| 425 | 4 | 8850 | 8397 | 7944 | 7491 | 7037 | 6584 | 6130 | 5676 | 5223 | 4769 | 4315 | 3861 | 3407 | 2953 | 9498 | 2044 | 1590 | 121 | 4 | 8334 |
| 418 | 5 | 9 8977 | 8524 | 0071 | 7618 | 7164 | 6710 | 6257 | 5803 | 5349 | 4895 | 4441 | 3987 | 3533 | 3079 | 2625 | 2170 | 1716 | 119 | 5 | 0 8202 |
| 410 | 6 | 9104 | 8651 | 0198 | 7744 | 7291 | 6837 | 6383 | 5930 | 5476 | 5022 | 4568 | 4114 | 3659 | 3205 | 2751 | 2296 | 1842 | 117 | 6 | 8071 |
| 402 | 7 | 9231 | 8778 | 8325 | 7871 | 7417 | 6964 | 6510 | 6056 | 5602 | 5148 | 4694 | 4240 | 3786 | 3331 | 2877 | 2492 | 1968 | 114 | 7 | 7939 |
| 395 | 8 | 9358 | 8905 | 8451 | 7998 | 7544 | 7090 | 6636 | 6183 | 5729 | 5974 | 4820 | 4366 | 3912 | 3457 | 3003 | 2548 | 9094 | 119 | 8 | 7808 |
| 387 | 9 | 9485 | 9032 | 8578 | 8124 | 7671 | 7217 | 6763 | 6309 | 5855 | 5401 | 4946 | 4499 | 4038 | 3583 | 3129 | 2674 | 9220 | 110 | 9 | 7677 |
| 380 | 10 | 9 9612 | 9158 | 8705 | 8251 | 7797 | 7343 | 6889 | 6435 | 5981 | 5597 | 5073 | 4618 | 4164 | 3709 | 3255 | 9800 | 9345 | 108 | 10 | 0 7545 |
| 372 | 11 | 9739 | 9285 | 8831 | 8377 | 7923 | 7470 | 7015 | 6561 | 6107 | 5653 | 5199 | 4744 | 4990 | 3835 | 3380 | 2926 | 2471 | 106 | 11 | 7414 |
| 364 | 12 | 9865 | 9411 | 8958 | 8504 | 8050 | 7596 | 7142 | 6687 | 6233 | 5779 | 5325 | 4870 | 4415 | 3961 | 3506 | 3051 | 2596 | 104 | 12 | 7283 |
| 357 | 13 | 9991 | 9538 | 9084 | 8630 | 8176 | 7722 | 7268 | 6813 | 6359 | 5905 | 5450 | 4996 | 4541 | 4087 | 3639 | 3177 | 2722 | 101 | 13 | 7159 |
| 349 | 14 | 0 (9) 0118 | 9664 | 9210 | 8756 | 8309 | 7818 | 7394 | 6939 | 6485 | 6031 | 5576 | 5122 | 4667 | 4912 | 3757 | 3302 | 2847 | 99 | 14 | 7021 |
| 342 | 15 | 0 (9) 0244 | 9791 | 9337 | 8882 | 8428 | 7974 | 7520 | 7065 | 6611 | 6156 | 5709 | 5247 | 4792 | 4337 | 3883 | 3498 | 2973 | 97 | 15 | 0 6890 |
| 334 | 16 | 0371 | 9917 | 9463 | 9009 | 8554 | 8100 | 7646 | 7191 | 6737 | 6282 | 5828 | 5373 | 4918 | 1463 | 4008 | 3553 | 3098 | 95 | 16 | 6759 |
| 326 | 17 | 0197 | 0043 | 9589 | 9135 | 8680 | 8296 | 7772 | 7317 | 6862 | 6408 | 5953 | 5498 | 5043 | 1588 | 4133 | 3678 | 3294 | 93 | 17 | 6629 |
| 319 | 18 | 0623 | 0169 | 9715 | 9260 | 8806 | 8352 | 7897 | 7443 | 6988 | 6533 | 6079 | 5624 | 5169 | 4714 | 4258 | 3803 | 3348 | 91 | 18 | 5498 |
| 311 | 19 | 0749 | 0995 | 9841 | 9386 | 8932 | 8477 | 8023 | 7569 | 7114 | 6659 | 6204 | 5749 | 5294 | 1839 | 4303 | 3929 | 3473 | 88 | 19 | 5367 |
| 304 | 20 | 0 (9) 0875 | 0421 | 9967 | 9512 | 9058 | 8603 | 8149 | 7694 | 7239 | 6784 | 6329 | 5874 | 5419 | 4964 | 4509 | 4054 | 3598 | 86 | 20 | 0 6237 |
| 296 | 21 | 1001 | 0547 | 0099 | 9638 | 9183 | 8729 | 8274 | 7819 | 7364 | 6910 | 6455 | 5999 | 5544 | 5089 | 4634 | 4179 | 3723 | 84 | 91 | 6106 |
| 288 | 22 | 1197 | 0672 | 0218 | 9763 | 9309 | 8854 | 8399 | 7945 | 7490 | 7035 | 6580 | 6125 | 5669 | 5914 | 4759 | 4304 | 3848 | 82 | 22 | 5976 |
| 281 | 23 | 1253 | 0798 | 0344 | 9889 | 9434 | 8980 | 8595 | 8070 | 7615 | 7160 | 6705 | 6950 | 5794 | 5339 | 4884 | 4499 | 3973 | 00 | 23 | 5046 |
| 273 | 24 | 1378 | 0924 | 0469 | 0015 | 9560 | 9105 | 8650 | 8195 | 7740 | 7285 | 6830 | 6375 | 3919 | 5464 | 5008 | 4553 | 4097 | 78 | 24 | 5716 |
| 266 | 25 | 0 (9) 1504 | 1049 | 0595 | 0140 | 9685 | 9230 | 8775 | 8320 | 7865 | 7410 | 6955 | 6500 | 6044 | 5589 | 5133 | 4677 | 4229 | 76 | 95 | 0 5585 |
| 258 | 26 | 1629 | 1175 | 0720 | 0265 | 9810 | 9355 | 8900 | 8445 | 7990 | 7535 | 7080 | 6691 | 6169 | 5713 | 5258 | 4802 | 4346 | 73 | 26 | 5455 |
| 951 | 27 | 1755 | 1300 | 0845 | 0391 | 9936 | 9481 | 9095 | 8570 | 8115 | 7660 | 7205 | 6749 | 6994 | 5838 | 5383 | 4997 | 4471 | 71 | 27 | 5395 |
| 243 | 28 | 1880 | 1425 | 0971 | 0516 | 0061 | 9606 | 9150 | 8695 | 8240 | 7785 | 7329 | 6874 | 6418 | 5962 | 5507 | 5051 | 4595 | 69 | 28 | 5195 |
| 235 | 29 | 2005 | 1551 | 1096 | 0611 | 0186 | 9731 | 9275 | 8820 | 8365 | 7909 | 7454 | 6998 | 6543 | 6087 | 5631 | 5175 | 4719 | 67 | 29 | 5066 |
| 228 | 30 | 0 (9) 2131 | 1676 | 1291 | 0766 | 0311 | 9856 | 9400 | 8945 | 8489 | 8034 | 7578 | 7193 | 6667 | 6211 | 5755 | 5300 | 4844 | 65 | 30 | 0 4936 |
| 220 | 31 | 2956 | 1801 | 1346 | 0891 | 0436 | 9980 | 9525 | 9070 | 8614 | 8159 | 7703 | 7947 | 6791 | 6336 | 5880 | 5424 | 4968 | 63 | 31 | 4806 |
| 213 | 32 | 2381 | 1926 | 1471 | 1016 | 0560 | 0105 | 9650 | 9194 | 8739 | 8983 | 7827 | 7379 | 6916 | 6460 | 6004 | 5548 | 5092 | 60 | 32 | 4677 |
| 205 | 33 | 2506 | 2051 | 1596 | 1140 | 0685 | 0230 | 9774 | 9319 | 8863 | 8407 | 7952 | 7496 | 7010 | 6581 | 6128 | 5672 | 5216 | 58 | 33 | 4547 |
| 197 | 34 | 9631 | 2176 | 1720 | 1265 | 0810 | 0354 | 9899 | 9443 | 8988 | 8532 | 8076 | 7690 | 7164 | 6708 | 6952 | 5796 | 5340 | 56 | 34 | 4418 |
| 190 | 35 | 0 (9) 2755 | 9300 | 1845 | 1390 | 0934 | 0479 | 0023 | 9568 | 9119 | 8656 | 8200 | 7744 | 7288 | 6832 | 6376 | 5920 | 5463 | 54 | 35 | 0 4288 |
| 182 | 36 | 2880 | 9425 | 1970 | 1514 | 1059 | 0603 | 0148 | 9692 | 9236 | 8780 | 8324 | 7868 | 7412 | 6956 | 6500 | 6044 | 5587 | 52 | 36 | 4159 |
| 175 | 37 | 3005 | 2550 | 2094 | 1639 | 1183 | 0798 | 0272 | 9816 | 9360 | 8904 | 8448 | 7992 | 7536 | 7080 | 6694 | 6167 | 5711 | 50 | 37 | 4030 |
| 167 | 38 | 3199 | 2674 | 2919 | 1763 | 1307 | 0852 | 0396 | 9940 | 9484 | 9028 | 8572 | 8116 | 7660 | 7204 | 6747 | 6291 | 5834 | 47 | 38 | 3901 |
| 159 | 39 | 3254 | 2798 | 2343 | 1887 | 1432 | 0976 | 0520 | 0064 | 9608 | 9152 | 8696 | 8240 | 7784 | 7327 | 6871 | 6414 | 5938 | 45 | 39 | 3772 |
| 152 | 40 | 0 (9) 3378 | 2922 | 2467 | 2012 | 1556 | 1100 | 0644 | 0188 | 9732 | 9276 | 8820 | 8364 | 7907 | 7451 | 6995 | 6538 | 6081 | 43 | 40 | 0 3643 |
| 144 | 41 | 3503 | 3047 | 2592 | 2136 | 1680 | 1224 | 0768 | 0312 | 9856 | 9400 | 8944 | 8487 | 8031 | 7575 | 7118 | 6661 | 5205 | 41 | 41 | 3514 |
| 137 | 42 | 3627 | 3171 | 9716 | 2260 | 1804 | 1348 | 0899 | 0436 | 9980 | 9524 | 9067 | 8611 | 8155 | 7698 | 7241 | 6785 | 6328 | 39 | 42 | 3305 |
| 129 | 43 | 3751 | 3996 | 2810 | 2384 | 1928 | 1472 | 1016 | 0560 | 0104 | 9647 | 9191 | 8735 | 8978 | 7821 | 7365 | 6908 | 6451 | 37 | 43 | 3956 |
| 121 | 44 | 3875 | 3420 | 9964 | 2508 | 2052 | 1596 | 1140 | 0684 | 0227 | 9771 | 9314 | 8858 | 8481 | 7945 | 7488 | 7031 | 6574 | 35 | 44 | 3127 |
| 114 | 45 | 0 (9) 3999 | 3544 | 3088 | 2632 | 2176 | 1720 | 1263 | 0807 | 0351 | 9894 | 9438 | 8981 | 8525 | 8068 | 7611 | 7154 | 6697 | 32 | 45 | 0 2999 |
| 106 | 46 | 4123 | 3668 | 3912 | 2756 | 2300 | 1843 | 1387 | 0931 | 0474 | 0018 | 9561 | 9105 | 8648 | 8191 | 7734 | 7277 | 6820 | 30 | 46 | 2870 |
| 99 | 47 | 4247 | 3791 | 3335 | 2879 | 9423 | 1967 | 1511 | 1054 | 0598 | 0141 | 9685 | 9228 | 8771 | 8314 | 7857 | 7400 | 6943 | 28 | 47 | 2742 |
| 91 | 48 | 4371 | 3915 | 3459 | 3003 | 2547 | 9090 | 1634 | 1178 | 0721 | 0264 | 9808 | 9351 | 8894 | 8437 | 7980 | 7593 | 7066 | 26 | 48 | 2613 |
| 83 | 49 | 4495 | 4039 | 3503 | 3127 | 2670 | 2214 | 1757 | 1301 | 0844 | 0388 | 9931 | 9474 | 9017 | 8560 | 8103 | 7646 | 7189 | 24 | 49 | 2485 |
| 76 | 50 | 0 (9) 4619 | 4162 | 3706 | 3250 | 2794 | 2337 | 1881 | 1424 | 0968 | 0311 | 0054 | 9597 | 9140 | 8683 | 8226 | 7769 | 7311 | 22 | 50 | 0 2357 |
| 68 | 51 | 4742 | 4286 | 3830 | 3373 | 2917 | 2461 | 2004 | 1547 | 1091 | 0634 | 0177 | 9720 | 9263 | 8806 | 8349 | 7891 | 7434 | 19 | 51 | 2229 |
| 61 | 52 | 4866 | 4410 | 3953 | 3497 | 3040 | 2584 | 2127 | 1670 | 1214 | 0757 | 0300 | 9843 | 9386 | 8929 | 8471 | 8014 | 7557 | 17 | 52 | 2100 |
| 53 | 53 | 4989 | 4533 | 4077 | 3620 | 3163 | 2707 | 2250 | 1793 | 1337 | 0880 | 0423 | 9966 | 9508 | 9051 | 8594 | 8137 | 7679 | 15 | 53 | 1972 |
| 46 | 54 | 5113 | 4656 | 4200 | 3743 | 3287 | 2830 | 2373 | 1916 | 1459 | 1002 | 0545 | 0088 | 9631 | 9174 | 8716 | 8259 | 7801 | 13 | 54 | 1844 |
| 38 | 55 | 0 (9) 5236 | 4779 | 4323 | 3866 | 3410 | 9953 | 2496 | 2039 | 1582 | 1125 | 0668 | 0211 | 9754 | 9296 | 8839 | 8381 | 7924 | 11 | 55 | 0 1717 |
| 30 | 55 | 5359 | 4903 | 4446 | 3989 | 3533 | 3075 | 2619 | 2162 | 1705 | 1248 | 0791 | 0333 | 9876 | 9419 | 8961 | 8504 | 8046 | 9 | 56 | 1509 |
| 23 | 57 | 5489 | 5026 | 4569 | 4112 | 3656 | 3199 | 2742 | 2285 | 1828 | 1370 | 0913 | 0456 | 9998 | 9541 | 9083 | 8626 | 8168 | 6 | 57 | 1461 |
| 15 | 58 | 5505 | 5149 | 4692 | 4235 | 3778 | 3321 | 2864 | 2407 | 1950 | 1493 | 1036 | 0578 | 0121 | 9663 | 9206 | 8748 | 8290 | 4 | 58 | 1334 |
| 8 | 59 | 5728 | 5272 | 4815 | 4358 | 3901 | 3444 | 9987 | 9530 | 2073 | 1615 | 1158 | 0701 | 0243 | 9785 | 9328 | 8870 | 8412 | 2 | 59 | 1206 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 154° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 154° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 456 | 0′ | 9 (6) | 0631 | 0176 | 9722 | 9268 | 8813 | 8359 | 7904 | 7449 | 6995 | 6540 | 6085 | 5630 | 5175 | 4720 | 4264 | 3809 | 3354 | 0 | 0′ | 9 6794 |
| 449 | 1 | | 0757 | 0303 | 9848 | 9394 | 0939 | 8485 | 8030 | 7575 | 7120 | 6666 | 6211 | 5755 | 5300 | 4845 | 4390 | 3934 | 3479 | 2 | 1 | 8922 |
| 441 | 2 | | 0883 | 0429 | 9974 | 9520 | 9065 | 8611 | 8156 | 7791 | 7246 | 6791 | 6336 | 5861 | 5426 | 4971 | 4515 | 4060 | 3604 | 4 | 2 | 9049 |
| 434 | 3 | | 1009 | 0555 | 0100 | 9646 | 9191 | 8736 | 8282 | 7827 | 7372 | 6917 | 6462 | 6006 | 5551 | 5096 | 4640 | 4185 | 3729 | 6 | 3 | 9176 |
| 426 | 4 | | 1135 | 0681 | 0226 | 9772 | 9317 | 8862 | 8407 | 7952 | 7497 | 7042 | 6587 | 6132 | 5677 | 5221 | 4766 | 4310 | 3854 | 8 | 4 | 2304 |
| 418 | 5 | 9 (8) | 1261 | 0807 | 0352 | 9898 | 9443 | 8988 | 8533 | 8078 | 7623 | 7168 | 6712 | 6257 | 5802 | 5345 | 4891 | 4435 | 3979 | 10 | 5 | 9 9431 |
| 411 | 6 | | 1387 | 0933 | 0478 | 0023 | 9569 | 9114 | 8659 | 8203 | 7748 | 7293 | 6838 | 6382 | 5927 | 5471 | 5016 | 4660 | 4104 | 13 | 6 | 2558 |
| 403 | 7 | | 1513 | 1059 | 0804 | 0149 | 9694 | 9239 | 8784 | 8329 | 7874 | 7418 | 5963 | 6508 | 6052 | 5595 | 5141 | 4685 | 4229 | 15 | 7 | 2685 |
| 396 | 8 | | 1639 | 1184 | 0730 | 0275 | 9820 | 9365 | 8909 | 0454 | 7999 | 7544 | 7088 | 6533 | 6177 | 5721 | 5266 | 4819 | 4354 | 17 | 8 | 9812 |
| 388 | 9 | | 1765 | 1310 | 0055 | 0400 | 9945 | 9490 | 9035 | 8580 | 8124 | 7669 | 7213 | 6758 | 6302 | 5846 | 5390 | 4935 | 4479 | 19 | 9 | 9939 |
| 380 | 10 | 9 (8) | 1891 | 1436 | 0981 | 0526 | 0070 | 9615 | 9160 | 8705 | 8249 | 7794 | 7338 | 6883 | 6427 | 5971 | 5515 | 5059 | 4603 | 21 | 10 | 0 0065 |
| 373 | 11 | | 2016 | 1561 | 1106 | 0651 | 0196 | 9741 | 9285 | 8830 | 8374 | 7919 | 7463 | 7007 | 6552 | 6096 | 5610 | 5184 | 4728 | 23 | 11 | 0192 |
| 365 | 12 | | 2142 | 1687 | 1231 | 0776 | 0321 | 9866 | 9410 | 8955 | 8499 | 8044 | 7588 | 7132 | 6676 | 6220 | 5764 | 5308 | 4852 | 25 | 12 | 0319 |
| 358 | 13 | | 2267 | 1812 | 1357 | 0902 | 0446 | 9991 | 9535 | 9080 | 8624 | 8169 | 7713 | 7257 | 6801 | 6345 | 5889 | 5433 | 4977 | 27 | 13 | 0445 |
| 350 | 14 | | 2392 | 1937 | 1482 | 1027 | 0571 | 0116 | 9660 | 9205 | 8749 | 8293 | 7837 | 7382 | 6926 | 6470 | 6013 | 5557 | 5101 | 29 | 14 | 0572 |
| 342 | 15 | 9 (8) | 2518 | 2062 | 1607 | 1152 | 0696 | 0241 | 9785 | 9330 | 8874 | 8418 | 7962 | 7506 | 7060 | 6594 | 6138 | 5682 | 5225 | 31 | 15 | 0 0698 |
| 335 | 16 | | 2643 | 2187 | 1732 | 1277 | 0821 | 0366 | 9910 | 9454 | 8998 | 8543 | 8087 | 7631 | 7175 | 6718 | 6262 | 5606 | 5349 | 33 | 16 | 0825 |
| 327 | 17 | | 2768 | 2312 | 1857 | 1402 | 0946 | 0490 | 0035 | 9579 | 9123 | 8667 | 8211 | 7755 | 7299 | 6843 | 5386 | 5930 | 5473 | 36 | 17 | 0951 |
| 320 | 18 | | 2893 | 2437 | 1982 | 1526 | 1071 | 0615 | 0159 | 9704 | 9248 | 8792 | 8335 | 7879 | 7423 | 6967 | 6510 | 6054 | 5597 | 38 | 16 | 1077 |
| 312 | 19 | | 3018 | 2562 | 2107 | 1651 | 1196 | 0740 | 0284 | 9828 | 9372 | 8915 | 8460 | 8004 | 7547 | 7991 | 6635 | 6178 | 5721 | 40 | 19 | 1203 |
| 301 | 20 | 9 (8) | 3143 | 2687 | 2232 | 1776 | 1320 | 0864 | 0408 | 9952 | 9496 | 9040 | 8584 | 8128 | 7671 | 7215 | 6759 | 6302 | 5845 | 42 | 20 | 0 1329 |
| 297 | 21 | | 3268 | 2812 | 2356 | 1901 | 1445 | 0989 | 0533 | 0077 | 9621 | 9165 | 8708 | 8252 | 7796 | 7339 | 6882 | 6426 | 5969 | 44 | 21 | 1455 |
| 269 | 22 | | 3392 | 2937 | 2481 | 2025 | 1569 | 1113 | 0657 | 0201 | 9745 | 9289 | 8832 | 8376 | 7919 | 7463 | 7006 | 6550 | 6093 | 46 | 22 | 1561 |
| 281 | 23 | | 3517 | 3061 | 2605 | 2150 | 1694 | 1238 | 0782 | 0325 | 9869 | 9413 | 8956 | 8500 | 8043 | 7587 | 7130 | 6673 | 6216 | 48 | 23 | 1707 |
| 274 | 24 | | 3641 | 3186 | 2739 | 2274 | 1818 | 1362 | 0906 | 0450 | 9993 | 9537 | 9080 | 8624 | 8167 | 7711 | 7254 | 6797 | 6340 | 50 | 24 | 1833 |
| 266 | 25 | 9 (8) | 3766 | 3310 | 2854 | 2398 | 1942 | 1486 | 1030 | 0574 | 0117 | 9661 | 9204 | 8748 | 8291 | 7834 | 7377 | 6921 | 6464 | 52 | 25 | 0 1958 |
| 259 | 26 | | 3890 | 3435 | 2979 | 2523 | 2066 | 1610 | 1154 | 0698 | 0241 | 9785 | 9328 | 8871 | 8415 | 7958 | 7501 | 7044 | 6587 | 54 | 26 | 2084 |
| 251 | 27 | | 4015 | 3552 | 3103 | 2647 | 2190 | 1734 | 1278 | 0821 | 0365 | 9906 | 9452 | 8995 | 8538 | 8081 | 7624 | 7167 | 6710 | 56 | 27 | 2209 |
| 243 | 28 | | 4139 | 3683 | 3227 | 2771 | 2314 | 1858 | 1402 | 0945 | 0489 | 0032 | 9575 | 9119 | 6662 | 6205 | 7748 | 7291 | 6834 | 59 | 26 | 2335 |
| 236 | 29 | | 4263 | 3807 | 3351 | 2895 | 2438 | 1982 | 1526 | 1069 | 0612 | 0156 | 9699 | 9242 | 8785 | 8328 | 7871 | 7414 | 6957 | 61 | 29 | 2460 |
| 228 | 30 | 9 (8) | 4387 | 3931 | 3475 | 3019 | 2562 | 2106 | 1649 | 1193 | 0736 | 0279 | 9822 | 9366 | 8909 | 8452 | 7994 | 7537 | 7080 | 63 | 39 | 0 2585 |
| 221 | 31 | | 4511 | 4055 | 3599 | 3143 | 2686 | 2230 | 1773 | 1316 | 0860 | 0403 | 9946 | 9489 | 9032 | 8675 | 8118 | 7660 | 7203 | 65 | 31 | 2710 |
| 213 | 32 | | 4635 | 4179 | 3723 | 3266 | 2810 | 2353 | 1897 | 1440 | 0983 | 0526 | 0089 | 9612 | 9155 | 8698 | 8241 | 7783 | 7326 | 67 | 32 | 2836 |
| 205 | 33 | | 4759 | 4303 | 3847 | 3390 | 2934 | 2477 | 2020 | 1563 | 1107 | 0649 | 0193 | 9735 | 9278 | 8821 | 8364 | 7906 | 7449 | 69 | 33 | 2961 |
| 198 | 34 | | 4883 | 4427 | 3971 | 3514 | 3057 | 2600 | 2144 | 1687 | 1230 | 0773 | 0316 | 9859 | 9401 | 8944 | 8487 | 8029 | 7572 | 71 | 34 | 3086 |
| 190 | 35 | 9 (8) | 5007 | 4551 | 4094 | 3637 | 3161 | 2724 | 2267 | 1810 | 1353 | 0896 | 0439 | 9982 | 9524 | 9067 | 8609 | 8152 | 7694 | 73 | 36 | 0 3210 |
| 183 | 35 | | 5131 | 4674 | 4218 | 3761 | 3304 | 2847 | 2390 | 1933 | 1476 | 1019 | 0562 | 0105 | 9647 | 9190 | 8732 | 8275 | 7817 | 75 | 36 | 3335 |
| 175 | 37 | | 5254 | 4798 | 4341 | 3884 | 3427 | 2970 | 2514 | 2056 | 1699 | 1142 | 0685 | 0227 | 9770 | 9313 | 6853 | 8397 | 7940 | 77 | 37 | 3460 |
| 167 | 36 | | 5378 | 4921 | 4464 | 4008 | 3551 | 3094 | 2637 | 2179 | 1722 | 1265 | 0808 | 0350 | 9893 | 9435 | 8978 | 8520 | 8062 | 79 | 38 | 3585 |
| 160 | 39 | | 5501 | 5045 | 4588 | 4131 | 3674 | 3217 | 2760 | 2302 | 1845 | 1388 | 0931 | 0473 | 0015 | 9556 | 9100 | 8642 | 6185 | 82 | 32 | 3709 |
| 152 | 40 | 9 (8) | 5625 | 5168 | 4711 | 4254 | 3797 | 3340 | 2883 | 2425 | 1968 | 1511 | 1053 | 0596 | 0138 | 9680 | 9223 | 8765 | 8307 | 84 | 40 | 6 3831 |
| 145 | 41 | | 5748 | 5291 | 4834 | 4377 | 3920 | 3463 | 3006 | 2548 | 2091 | 1634 | 1176 | 0718 | 0261 | 9803 | 9345 | 8887 | 6429 | 86 | 41 | 3958 |
| 137 | 42 | | 5871 | 5414 | 4957 | 4500 | 4043 | 3586 | 3128 | 2671 | 2214 | 1756 | 1299 | 0841 | 0383 | 9925 | 9467 | 9009 | 8551 | 88 | 42 | 4083 |
| 129 | 43 | | 5994 | 5537 | 5080 | 4623 | 4166 | 3709 | 3251 | 2794 | 2336 | 1879 | 1421 | 0963 | 0506 | 0048 | 9590 | 9132 | 8673 | 90 | 43 | 4207 |
| 122 | 44 | | 6117 | 5660 | 5203 | 4746 | 4289 | 3831 | 3374 | 2916 | 2459 | 2001 | 1544 | 1086 | 0628 | 0170 | 9712 | 9254 | 8796 | 92 | 44 | 4331 |
| 114 | 45 | 9 (8) | 6240 | 5703 | 6326 | 4869 | 4411 | 3954 | 3497 | 3039 | 2581 | 2124 | 1666 | 1208 | 0750 | 0292 | 9834 | 9376 | 8918 | 94 | 45 | 0 4455 |
| 106 | 46 | | 6363 | 5906 | 5449 | 4992 | 4534 | 4077 | 3619 | 3161 | 2704 | 2246 | 1788 | 1330 | 0872 | 0414 | 9956 | 9498 | 9040 | 96 | 46 | 4579 |
| 99 | 47 | | 6485 | 6029 | 5572 | 5114 | 4657 | 4199 | 3742 | 3284 | 2826 | 2368 | 1910 | 1452 | 0994 | 0535 | 0078 | 9620 | 9161 | 98 | 47 | 4703 |
| 91 | 48 | | 6609 | 6152 | 5694 | 5237 | 4779 | 4322 | 3864 | 3406 | 2948 | 2491 | 2033 | 1574 | 1115 | 0658 | 0200 | 9742 | 9283 | 100 | 48 | 4827 |
| 84 | 49 | | 6732 | 6274 | 5817 | 5359 | 4902 | 4444 | 3986 | 3528 | 3071 | 2513 | 2155 | 1696 | 1238 | 0780 | 0322 | 9863 | 9405 | 102 | 49 | 4951 |
| 76 | 50 | 9 (8) | 6854 | 6397 | 5939 | 5482 | 5024 | 4566 | 4109 | 3651 | 3193 | 2735 | 2277 | 1818 | 1360 | 0902 | 0443 | 9985 | 9526 | 105 | 50 | 6 5075 |
| 68 | 51 | | 6977 | 6520 | 6062 | 5604 | 5146 | 4689 | 4231 | 3773 | 3315 | 2857 | 2399 | 1940 | 1482 | 1021 | 0565 | 0107 | 9548 | 107 | 51 | 5198 |
| 61 | 52 | | 7099 | 6842 | 6184 | 5727 | 5269 | 4811 | 4353 | 3895 | 3437 | 2979 | 2520 | 2062 | 1604 | 1145 | 0687 | 0228 | 9759 | 109 | 52 | 5322 |
| 53 | 53 | | 7222 | 5764 | 6306 | 5849 | 5391 | 4933 | 4175 | 4017 | 3559 | 3100 | 2642 | 2184 | 1725 | 1267 | 0808 | 0350 | 9891 | 111 | 53 | 5445 |
| 46 | 54 | 2 | 7344 | 6886 | 6428 | 5971 | 5513 | 5055 | 4597 | 4139 | 3680 | 3222 | 2764 | 2305 | 1847 | 1388 | 0930 | 0471 | 0012 | 113 | 54 | 5569 |
| 38 | 55 | 9 | 7466 | 7006 | 6550 | 6093 | 5635 | 5177 | 4719 | 4260 | 3802 | 3344 | 2885 | 2427 | 1968 | 1510 | 1051 | 0592 | 0133 | 115 | 55 | 0 5692 |
| 30 | 56 | | 7588 | 7130 | 6672 | 6215 | 5757 | 5299 | 4840 | 4382 | 3924 | 3465 | 3007 | 2548 | 2090 | 1631 | 1172 | 0713 | 0235 | 117 | 56 | 5815 |
| 23 | 57 | | 7710 | 7252 | 6794 | 6337 | 5879 | 5420 | 4962 | 4504 | 4045 | 3587 | 3128 | 2670 | 2211 | 1752 | 1294 | 0835 | 0376 | 119 | 57 | 5939 |
| 15 | 56 | | 7832 | 7374 | 6916 | 6458 | 6000 | 5542 | 5084 | 4625 | 4167 | 3708 | 3250 | 2791 | 2332 | 1874 | 1415 | 0956 | 0497 | 121 | 58 | 6062 |
| 8 | 59 | | 7954 | 7496 | 7038 | 6580 | 5122 | 5664 | 5205 | 4747 | 4288 | 3830 | 3371 | 2912 | 2454 | 1995 | 1535 | 1077 | 0618 | 123 | 59 | 6185 |

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**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . . }

Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 155° | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 155° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Argumento Auxiliar. | | | | | | | | | | | | | | | | | | | |
| 459 | 0' | 0 (9) 5851 | 5394 | 4938 | 4481 | 4624 | 3567 | 3116 | 2652 | 2195 | 1730 | 1286 | 0823 | 0365 | 9908 | 9450 | 8992 | 8534 | 125 | 0' | 0 1678 |
| 452 | 1 | 5974 | 5517 | 5060 | 4603 | 4146 | 3689 | 3232 | 2775 | 2317 | 1860 | 1403 | 0945 | 0487 | 0030 | 9572 | 9114 | 8656 | 123 | 1 | 0951 |
| 444 | 2 | 6097 | 5640 | 5103 | 4726 | 4269 | 3812 | 3354 | 2097 | 2440 | 1989 | 1525 | 1067 | 0609 | 0161 | 9694 | 9236 | 8770 | 121 | 2 | 9824 |
| 437 | 3 | 6219 | 5762 | 5305 | 4848 | 4391 | 3934 | 3477 | 3019 | 2562 | 2104 | 1647 | 1189 | 0731 | 0273 | 9815 | 9358 | 0899 | 119 | 3 | 9696 |
| 429 | 4 | 6342 | 5885 | 5427 | 4971 | 4514 | 4956 | 3599 | 3142 | 2684 | 2226 | 1769 | 1311 | 6853 | 0395 | 9937 | 9479 | 9021 | 117 | 4 | 9569 |
| 421 | 5 | 0 (9) 6465 | 6008 | 5550 | 5093 | 4636 | 4179 | 3721 | 3264 | 2806 | 2348 | 1891 | 1433 | 6975 | 0517 | 0059 | 9601 | 9143 | 115 | 5 | 9 0442 |
| 414 | 6 | 6587 | 6130 | 5673 | 5215 | 4758 | 4361 | 3843 | 3386 | 2928 | 2470 | 2012 | 1555 | 1097 | 0639 | 0180 | 9722 | 9264 | 113 | 6 | 0315 |
| 406 | 7 | 6702 | 6252 | 5795 | 5338 | 1080 | 4423 | 3965 | 3508 | 3950 | 9592 | 2134 | 1676 | 1218 | 0760 | 0302 | 9844 | 9385 | 111 | 7 | 0180 |
| 398 | 8 | 6832 | 6374 | 5917 | 5460 | 5002 | 4545 | 4087 | 3629 | 3172 | 2714 | 2256 | 1798 | 1340 | 0882 | 0423 | 9965 | 9507 | 109 | 8 | 0061 |
| 391 | 9 | 6954 | 6497 | 6039 | 5582 | 5194 | 4667 | 4209 | 3751 | 3293 | 2836 | 2378 | 1912 | 1461 | 1663 | 0545 | 0086 | 9628 | 107 | 9 | 9 9935 |
| 383 | 19 | 9 (9) 7076 | 6619 | 6161 | 5704 | 5246 | 4788 | 4331 | 3873 | 3415 | 2957 | 2499 | 2041 | 1583 | 1124 | 0666 | 0200 | 9749 | 165 | 19 | 9 9808 |
| 375 | 11 | 7198 | 6741 | 6283 | 5826 | 5368 | 4910 | 4452 | 3995 | 3537 | 3079 | 2620 | 9162 | 1704 | 1246 | 0787 | 0329 | 9870 | 162 | 11 | 9601 |
| 368 | 12 | 7320 | 6863 | 6405 | 5947 | 5490 | 5032 | 4574 | 4116 | 3658 | 3200 | 2742 | 2284 | 1825 | 1367 | 0960 | 0460 | 9991 | 100 | 12 | 9555 |
| 360 | 13 | 0 7442 | 6985 | 6527 | 6069 | 5611 | 5154 | 4626 | 4238 | 3780 | 3321 | 2863 | 2405 | 1946 | 1488 | 1029 | 0571 | 0112 | 98 | 13 | 9420 |
| 352 | 14 | 7564 | 7106 | 6649 | 6191 | 5733 | 6275 | 4817 | 1359 | 3901 | 3143 | 2984 | 2526 | 9068 | 1669 | 1150 | 0692 | 6233 | 96 | 14 | 9302 |
| 345 | 15 | 9 7686 | 7228 | 6770 | 6312 | 5855 | 5397 | 1939 | 4480 | 4022 | 3564 | 3105 | 2647 | 2189 | 1730 | 1271 | 0813 | 0354 | 94 | 15 | 9 9175 |
| 337 | 16 | 7867 | 7350 | 6892 | 6434 | 5976 | 5518 | 5060 | 4602 | 4143 | 3685 | 3227 | 2768 | 2310 | 1851 | 1392 | 0933 | 0474 | 92 | 16 | 9049 |
| 329 | 17 | 7928 | 7471 | 7013 | 6555 | 6097 | 5639 | 5181 | 1723 | 4264 | 3806 | 3348 | 2889 | 2436 | 1972 | 1513 | 1054 | 0595 | 90 | 17 | 8923 |
| 322 | 18 | 8650 | 7593 | 7135 | 6677 | 6219 | 5760 | 5302 | 1844 | 4385 | 3927 | 3468 | 3010 | 2551 | 2092 | 1634 | 1176 | 0716 | 88 | 18 | 8797 |
| 314 | 19 | 8179 | 7714 | 7256 | 6798 | 6340 | 5889 | 5423 | 4965 | 4506 | 4048 | 3589 | 3131 | 2672 | 2213 | 1754 | 1295 | 0836 | 86 | 19 | 8671 |
| 396 | 20 | 0 8293 | 7835 | 7377 | 6919 | 6461 | 6063 | 5544 | 5086 | 4627 | 4169 | 3710 | 3251 | 2792 | 2334 | 1875 | 1416 | 0957 | 84 | 20 | 9 8545 |
| 299 | 21 | 8415 | 7957 | 7498 | 7040 | 6582 | 6124 | 5665 | 5967 | 4748 | 4290 | 3831 | 3372 | 2913 | 2454 | 1995 | 1536 | 1077 | 82 | 21 | 8419 |
| 291 | 22 | 8536 | 8678 | 7619 | 7161 | 6703 | 6245 | 5786 | 5327 | 4869 | 4410 | 3951 | 3492 | 3033 | 2574 | 2115 | 1656 | 1197 | 79 | 22 | 8293 |
| 283 | 23 | 8657 | 8199 | 7740 | 7282 | 6824 | 6365 | 5907 | 5448 | 4989 | 4531 | 4079 | 3613 | 3154 | 2695 | 2936 | 1777 | 1317 | 77 | 23 | 8167 |
| 276 | 24 | 8770 | 8396 | 7861 | 7463 | 6945 | 6486 | 6028 | 5569 | 5110 | 4651 | 4192 | 3733 | 3274 | 2815 | 9356 | 1897 | 1437 | 75 | 24 | 8942 |
| 268 | 25 | 0 8899 | 8441 | 7982 | 7524 | 7065 | 6607 | 6148 | 5689 | 5231 | 4779 | 4313 | 3854 | 3395 | 2935 | 2476 | 2017 | 1557 | 73 | 25 | 9 7916 |
| 260 | 26 | 9620 | 8562 | 8103 | 7645 | 7186 | 6727 | 6269 | 5810 | 5361 | 4899 | 4433 | 3974 | 3515 | 3055 | 2596 | 2137 | 1677 | 71 | 26 | 7791 |
| 253 | 27 | 9141 | 8682 | 8224 | 7765 | 7307 | 6848 | 6389 | 5936 | 5471 | 5612 | 4553 | 4094 | 3636 | 3175 | 2716 | 9257 | 1797 | 69 | 27 | 7665 |
| 215 | 28 | 9262 | 8803 | 8345 | 7886 | 7427 | 6960 | 6510 | 6651 | 5592 | 5133 | 4673 | 4214 | 3756 | 3295 | 2836 | 2377 | 1917 | 67 | 20 | 7540 |
| 237 | 29 | 9382 | 8924 | 8465 | 8606 | 7648 | 7089 | 6636 | 6171 | 5712 | 5953 | 4793 | 4334 | 3875 | 3415 | 2956 | 2496 | 2637 | 65 | 29 | 7415 |
| 239 | 30 | 0 9503 | 9044 | 8586 | 8197 | 7668 | 7209 | 6750 | 6291 | 5832 | 5373 | 4913 | 4454 | 3995 | 3535 | 3076 | 2616 | 2156 | 63 | 30 | 9 7290 |
| 222 | 31 | 9623 | 9165 | 8706 | 8247 | 7788 | 7329 | 6870 | 6411 | 5952 | 5493 | 5633 | 4574 | 4115 | 3655 | 3195 | 2736 | 2276 | 61 | 31 | 7164 |
| 214 | 32 | 9744 | 9205 | 8826 | 8367 | 7909 | 7456 | 6996 | 6531 | 6672 | 5613 | 5153 | 4694 | 4234 | 3774 | 3315 | 2856 | 2325 | 59 | 32 | 7039 |
| 207 | 33 | 9064 | 9105 | 8947 | 8488 | 8029 | 7576 | 7110 | 6651 | 6192 | 5732 | 6273 | 4814 | 4354 | 3894 | 3434 | 2976 | 2515 | 56 | 33 | 6914 |
| 199 | 34 | 9985 | 9526 | 9067 | 8608 | 8149 | 7689 | 7230 | 6771 | 6319 | 5852 | 5393 | 4933 | 4473 | 4014 | 3654 | 3994 | 9634 | 54 | 34 | 6790 |
| 191 | 35 | 1 (0) 0105 | 9646 | 9187 | 8728 | 8269 | 7809 | 7350 | 6891 | 6431 | 5972 | 5512 | 6053 | 4593 | 4133 | 3673 | 3213 | 2753 | 59 | 36 | 9 6665 |
| 184 | 36 | 0995 | 9766 | 9307 | 8848 | 8389 | 7929 | 7470 | 7011 | 6551 | 6092 | 5639 | 5172 | 4719 | 4253 | 3793 | 3333 | 9872 | 59 | 36 | 6540 |
| 176 | 37 | 6345 | 9886 | 9127 | 8968 | 8508 | 8049 | 7590 | 7130 | 6671 | 6211 | 5751 | 5992 | 4832 | 4379 | 3912 | 3452 | 2991 | 48 | 37 | 6415 |
| 168 | 38 | 0465 | 0006 | 9547 | 9987 | 8698 | 0169 | 7709 | 7250 | 6790 | 6330 | 5871 | 5411 | 4951 | 4491 | 4031 | 3571 | 3116 | 46 | 38 | 6291 |
| 161 | 39 | 0585 | 0126 | 9666 | 9907 | 8748 | 8288 | 7829 | 7369 | 6910 | 6450 | 5990 | 5530 | 5070 | 4610 | 4150 | 3690 | 3229 | 44 | 39 | 6166 |
| 153 | 40 | 1 (0) 0705 | 0245 | 9786 | 9327 | 8867 | 8408 | 7948 | 7489 | 7029 | 6569 | 6169 | 5649 | 5189 | 4799 | 4269 | 3809 | 3348 | 42 | 40 | 9 6042 |
| 146 | 41 | 0894 | 0366 | 9906 | 9446 | 8987 | 8527 | 8068 | 7608 | 7148 | 6688 | 6228 | 5768 | 6368 | 4848 | 4388 | 3928 | 3467 | 40 | 41 | 5917 |
| 138 | 49 | 0944 | 0485 | 0095 | 9566 | 9106 | 8647 | 8187 | 7797 | 7267 | 6807 | 6347 | 5887 | 5427 | 4967 | 4507 | 4046 | 3586 | 38 | 42 | 5793 |
| 130 | 43 | 1064 | 0604 | 0145 | 9685 | 9296 | 8766 | 8306 | 7846 | 7386 | 6996 | 6466 | 6006 | 5546 | 6086 | 4626 | 4165 | 3705 | 36 | 43 | 5669 |
| 123 | 44 | 1183 | 0794 | 9264 | 9805 | 9345 | 8885 | 8195 | 7965 | 7505 | 7045 | 6585 | 6195 | 5665 | 5205 | 4744 | 4284 | 3823 | 33 | 44 | 5545 |
| 115 | 46 | 1 (0) 1303 | 0843 | 9384 | 9994 | 9464 | 9004 | 8544 | 8084 | 7694 | 7164 | 6704 | 6944 | 5784 | 5323 | 4863 | 4402 | 3949 | 31 | 46 | 9 5491 |
| 107 | 46 | 1499 | 0962 | 0503 | 0043 | 9583 | 9123 | 8663 | 8203 | 7743 | 7283 | 6823 | 6363 | 5992 | 5442 | 4981 | 4521 | 4060 | 29 | 46 | 5997 |
| 160 | 47 | 1541 | 1082 | 0622 | 0162 | 9709 | 9242 | 8782 | 8322 | 7862 | 7409 | 6942 | 6481 | 6021 | 5560 | 6100 | 4639 | 4178 | 27 | 47 | 5173 |
| 92 | 48 | 1661 | 1901 | 0741 | 0981 | 9821 | 9361 | 8991 | 8441 | 7981 | 7521 | 7060 | 6600 | 6139 | 5679 | 5218 | 4767 | 4997 | 95 | 48 | 6049 |
| 84 | 49 | 1780 | 1390 | 0860 | 0409 | 9940 | 9486 | 9020 | 8560 | 8106 | 7639 | 7179 | 6718 | 6258 | 5797 | 5337 | 4876 | 4415 | 23 | 49 | 4925 |
| 77 | 56 | 1 (9) 1899 | 1439 | 0979 | 0519 | 0059 | 9599 | 9139 | 8679 | 8218 | 7758 | 7297 | 6837 | 6376 | 5915 | 5455 | 4994 | 4533 | 21 | 50 | 9 4802 |
| 69 | 51 | 2018 | 1558 | 1098 | 0638 | 0178 | 9718 | 9257 | 8797 | 8337 | 7876 | 7416 | 6955 | 6494 | 6034 | 5573 | 5119 | 4651 | 19 | 51 | 4678 |
| 61 | 52 | 2137 | 1677 | 1217 | 9757 | 6997 | 9836 | 9376 | 8916 | 8455 | 7995 | 7534 | 7673 | 6613 | 6159 | 5691 | 5230 | 4769 | 17 | 52 | 4555 |
| 64 | 53 | 2256 | 1796 | 1336 | 6875 | 0415 | 9955 | 9495 | 9034 | 8574 | 8113 | 7659 | 7192 | 6731 | 6970 | 5809 | 5348 | 4887 | 15 | 53 | 4431 |
| 46 | 54 | 2375 | 1914 | 1454 | 0994 | 9534 | 0973 | 9613 | 9159 | 8692 | 8931 | 7770 | 7310 | 6849 | 6388 | 5997 | 6466 | 5005 | 13 | 54 | 4308 |
| 38 | 55 | 1 (0) 9493 | 2033 | 1573 | 1112 | 0652 | 0192 | 9731 | 9271 | 8810 | 8349 | 7889 | 7498 | 6967 | 6506 | 6045 | 5684 | 5129 | 10 | 55 | 9 4186 |
| 31 | 56 | 2612 | 9151 | 1691 | 1231 | 0771 | 0316 | 9849 | 9389 | 8928 | 8467 | 8007 | 7546 | 7085 | 6624 | 6162 | 5701 | 5240 | 8 | 56 | 4061 |
| 23 | 57 | 9730 | 2270 | 1810 | 1349 | 0889 | 0428 | 9968 | 9507 | 9046 | 8585 | 8125 | 7664 | 7902 | 6741 | 6280 | 5819 | 5357 | 6 | 57 | 3938 |
| 15 | 58 | 2848 | 2388 | 1928 | 1467 | 1007 | 0546 | 0086 | 9625 | 9164 | 8703 | 8249 | 7782 | 7320 | 6859 | 6398 | 6936 | 5475 | 4 | 58 | 3815 |
| 8 | 59 | 2967 | 2507 | 2046 | 1586 | 1195 | 0664 | 0204 | 9743 | 9282 | 8821 | 8360 | 7899 | 7438 | 6977 | 6515 | 6054 | 6592 | 9 | 59 | 3692 |

**Tabla X.** Número I para la suma de alturas aparentes } y el Argumento Auxiliar.
y Número III para la distancia aparente. . . . }

| Partes para segundos del Arg. Auxiliar | 155° | Argumento Auxiliar. 17' | 16' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | 31' | 32' | 33' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 460 | 0' | 9 8676 | 7618 | 7160 | 6702 | 6244 | 5785 | 5327 | 4868 | 4410 | 3951 | 3492 | 3034 | 2575 | 2116 | 1657 | 1198 | 0738 |
| 453 | 1 | 0198 | 7740 | 7982 | 6823 | 6365 | 5907 | 5448 | 4920 | 4531 | 4072 | 3613 | 3155 | 2696 | 2237 | 1778 | 1318 | 0859 |
| 445 | 2 | 0320 | 7861 | 7403 | 6945 | 6487 | 6028 | 5569 | 5111 | 4652 | 4123 | 3735 | 3276 | 2017 | 2358 | 1898 | 1439 | 0980 |
| 437 | 3 | 6441 | 7983 | 7525 | 7066 | 6600 | 6149 | 5691 | 5232 | 4773 | 4314 | 3856 | 3397 | 2237 | 2478 | 2019 | 1560 | 1101 |
| 430 | 4 | 6563 | 8105 | 7646 | 7188 | 6722 | 6271 | 5812 | 5353 | 4824 | 4435 | 3976 | 3517 | 3058 | 2599 | 9140 | 1681 | 1221 |
| 422 | 5 | 9 6684 | 8226 | 7768 | 7300 | 6850 | 6392 | 5233 | 5474 | 5015 | 4556 | 4097 | 3638 | 3179 | 2720 | 2260 | 1801 | 1342 |
| 414 | 6 | 0806 | 8347 | 7689 | 7430 | 6972 | 6513 | 6054 | 5595 | 5136 | 4677 | 4210 | 3759 | 3300 | 2840 | 9381 | 1922 | 1462 |
| 407 | 7 | 0927 | 8468 | 8010 | 7551 | 7093 | 6634 | 6175 | 5716 | 5257 | 4728 | 4332 | 3880 | 3420 | 2961 | 2502 | 2042 | 1582 |
| 399 | 0 | 9048 | 8590 | 0131 | 7672 | 7214 | 6755 | 6296 | 5837 | 5378 | 4919 | 4460 | 4000 | 3541 | 3081 | 2622 | 2162 | 1703 |
| 391 | 9 | 9169 | 8711 | 0252 | 7793 | 7333 | 6876 | 6417 | 6958 | 5492 | 5032 | 4580 | 4121 | 3661 | 3202 | 2742 | 2282 | 1823 |
| 384 | 16 | 9 9290 | 0832 | 8373 | 7914 | 7455 | 6996 | 6537 | 6078 | 5619 | 5160 | 4701 | 4241 | 3789 | 3322 | 2862 | 2403 | 1943 |
| 376 | 11 | 9411 | 8953 | 8494 | 8035 | 7576 | 7117 | 6658 | 6129 | 5740 | 5280 | 4821 | 4361 | 3202 | 3442 | 2282 | 2523 | 2063 |
| 368 | 12 | 9532 | 9074 | 8615 | 0156 | 7697 | 7238 | 6779 | 6312 | 5860 | 5401 | 4941 | 4482 | 4022 | 3562 | 3103 | 2643 | 2183 |
| 361 | 13 | 9653 | 9194 | 8736 | 8277 | 7818 | 7358 | 6899 | 6440 | 5981 | 5321 | 5061 | 4609 | 4142 | 3682 | 3223 | 2763 | 2303 |
| 363 | 14 | 9774 | 2315 | 8856 | 8397 | 7938 | 7479 | 7020 | 6560 | 6101 | 5641 | 5182 | 4722 | 4262 | 3802 | 3343 | 2883 | 2423 |
| 345 | 15 | 9 9895 | 2436 | 8977 | 8517 | 8059 | 7592 | 7140 | 6681 | 6221 | 5761 | 5302 | 4842 | 4382 | 3922 | 3462 | 3002 | 2542 |
| 338 | 16 | 0 (9) 6616 | 2557 | 2097 | 8638 | 8172 | 7720 | 7260 | 6801 | 6341 | 5881 | 5492 | 4962 | 4562 | 4042 | 3582 | 3122 | 2662 |
| 330 | 17 | 6136 | 9677 | 2218 | 8752 | 8299 | 7840 | 7380 | 6221 | 6461 | 6001 | 5542 | 5082 | 4622 | 4162 | 3702 | 3242 | 2781 |
| 392 | 18 | 6257 | 9797 | 9338 | 8872 | 8420 | 7260 | 7500 | 7041 | 6581 | 6121 | 5662 | 5202 | 4742 | 4282 | 3821 | 3361 | 2201 |
| 315 | 19 | 6377 | 9918 | 9452 | 8999 | 8540 | 8080 | 7620 | 7161 | 6701 | 6241 | 5781 | 5321 | 4861 | 4401 | 3941 | 3481 | 3020 |
| 367 | 20 | 0 (9) 0497 | 0038 | 9579 | 2119 | 8660 | 8200 | 7740 | 7281 | 6821 | 6361 | 5901 | 5441 | 4981 | 4521 | 4060 | 3600 | 3140 |
| 299 | 21 | 0610 | 0158 | 9629 | 2239 | 8780 | 8320 | 7860 | 7401 | 6941 | 6481 | 6021 | 5561 | 5100 | 4640 | 4180 | 3712 | 3259 |
| 992 | 22 | 6738 | 0278 | 9819 | 9359 | 8900 | 8440 | 7280 | 7520 | 7060 | 6600 | 6140 | 5680 | 5220 | 4760 | 4299 | 3832 | 3378 |
| 284 | 23 | 0850 | 0328 | 9939 | 9479 | 2020 | 8560 | 8100 | 7640 | 7180 | 6720 | 6260 | 5800 | 5332 | 4879 | 4418 | 3258 | 3127 |
| 276 | 24 | 0978 | 0518 | 0659 | 2599 | 9139 | 8679 | 8220 | 7760 | 7300 | 6839 | 6372 | 5919 | 5459 | 4928 | 4538 | 4077 | 3616 |
| 269 | 25 | 6 (9) 1098 | 0638 | 0179 | 2719 | 2259 | 8799 | 8339 | 7879 | 7412 | 6959 | 6492 | 6038 | 5578 | 5117 | 4657 | 4196 | 3735 |
| 261 | 26 | 1218 | 0758 | 0228 | 2832 | 2372 | 8919 | 8459 | 7929 | 7538 | 7078 | 6618 | 6137 | 5697 | 5236 | 4776 | 4315 | 3854 |
| 253 | 27 | 1338 | 0878 | 0418 | 2958 | 9428 | 9038 | 8578 | 8118 | 7658 | 7197 | 6737 | 6276 | 5816 | 5355 | 4895 | 4434 | 3973 |
| 246 | 28 | 1467 | 0997 | 0538 | 0078 | 2618 | 9158 | 8697 | 8237 | 7777 | 7317 | 6856 | 6395 | 5235 | 5474 | 5014 | 4563 | 4092 |
| 238 | 29 | 1577 | 1117 | 0657 | 0197 | 9737 | 9277 | 8817 | 8356 | 7826 | 7436 | 6975 | 6514 | 6054 | 5593 | 5132 | 4672 | 4210 |
| 230 | 36 | 0 (9) 1626 | 1237 | 0777 | 0317 | 9856 | 9326 | 8936 | 8476 | 8015 | 7555 | 7094 | 6633 | 6173 | 5712 | 5251 | 4790 | 4329 |
| 223 | 31 | 1816 | 1356 | 0896 | 0436 | 9976 | 9515 | 9055 | 8525 | 8134 | 7674 | 7213 | 6752 | 6292 | 5831 | 5370 | 4902 | 4448 |
| 215 | 32 | 1235 | 1475 | 1015 | 0555 | 0095 | 9634 | 9174 | 8714 | 8253 | 7793 | 7332 | 6871 | 6410 | 5949 | 5488 | 5027 | 4566 |
| 207 | 33 | 2055 | 1525 | 1135 | 0674 | 0214 | 9753 | 9293 | 8833 | 8372 | 7911 | 7451 | 6990 | 6522 | 6068 | 5607 | 5146 | 4685 |
| 260 | 34 | 2174 | 1714 | 1254 | 0793 | 0333 | 9872 | 9412 | 8951 | 8491 | 8030 | 7569 | 7108 | 6647 | 6186 | 5795 | 5264 | 4803 |
| 192 | 35 | 0 (9) 2223 | 1833 | 1373 | 0912 | 0452 | 9291 | 9531 | 9070 | 8610 | 8142 | 7688 | 7227 | 6766 | 6305 | 5844 | 5382 | 4921 |
| 104 | 36 | 2412 | 1952 | 1492 | 1031 | 0571 | 0110 | 9650 | 9189 | 8728 | 8267 | 7806 | 7345 | 6884 | 6493 | 5962 | 5501 | 5039 |
| 176 | 37 | 2531 | 2071 | 1611 | 1150 | 0690 | 6222 | 9768 | 9308 | 8847 | 8386 | 7925 | 7464 | 7003 | 6541 | 6080 | 5619 | 5157 |
| 162 | 38 | 2650 | 2120 | 1729 | 1962 | 0808 | 6347 | 9887 | 9426 | 8965 | 8504 | 8043 | 7582 | 7121 | 6659 | 6198 | 5737 | 5276 |
| 161 | 39 | 2769 | 2309 | 1848 | 1388 | 0927 | 0466 | 0005 | 9544 | 9084 | 8623 | 8161 | 7700 | 7239 | 6777 | 6316 | 5855 | 5393 |
| 153 | 40 | 0 (9) 2888 | 2427 | 1967 | 1506 | 1046 | 0585 | 0124 | 9663 | 9202 | 8741 | 8280 | 7818 | 7357 | 6825 | 6434 | 5973 | 5511 |
| 146 | 41 | 3007 | 2546 | 2086 | 1625 | 1164 | 0703 | 0242 | 2781 | 9320 | 8852 | 8398 | 7936 | 7475 | 7013 | 6552 | 6090 | 5622 |
| 138 | 42 | 3125 | 2665 | 2204 | 1743 | 1282 | 0821 | 0361 | 2899 | 9438 | 8977 | 8516 | 8054 | 7593 | 7131 | 6670 | 6208 | 5746 |
| 130 | 43 | 3244 | 2783 | 2322 | 1862 | 1401 | 0940 | 0479 | 0010 | 9556 | 2095 | 8634 | 0172 | 7711 | 7242 | 6788 | 6326 | 5864 |
| 123 | 44 | 3362 | 2902 | 2441 | 1980 | 1519 | 1058 | 0597 | 0136 | 2674 | 9213 | 8759 | 8290 | 7822 | 7367 | 6905 | 6443 | 5982 |
| 115 | 45 | 0 (9) 3481 | 3020 | 2559 | 2098 | 1637 | 1176 | 0715 | 0254 | 9722 | 2331 | 8869 | 8408 | 7946 | 7485 | 7023 | 6561 | 6099 |
| 107 | 46 | 3529 | 3138 | 2677 | 2216 | 1755 | 1294 | 0833 | 0372 | 9910 | 9449 | 8987 | 8526 | 8064 | 7662 | 7140 | 6678 | 6916 |
| 100 | 47 | 3717 | 3957 | 2796 | 2335 | 1873 | 1412 | 0951 | 0489 | 0028 | 9567 | 9105 | 8643 | 8181 | 7720 | 7258 | 6796 | 6334 |
| 92 | 48 | 3036 | 3375 | 2914 | 2453 | 1991 | 1530 | 1069 | 0607 | 0146 | 9684 | 9923 | 8761 | 8299 | 7837 | 7375 | 8913 | 6451 |
| 84 | 49 | 3954 | 3493 | 3039 | 2570 | 2109 | 1648 | 1186 | 0725 | 0963 | 9802 | 9340 | 8878 | 8416 | 7954 | 7492 | 7030 | 6568 |
| 77 | 50 | 0 (9) 4072 | 3611 | 3150 | 2688 | 2227 | 1766 | 1304 | 0843 | 0381 | 9919 | 9457 | 8996 | 8534 | 8072 | 7610 | 7147 | 6685 |
| 69 | 51 | 4190 | 3729 | 3967 | 2806 | 9345 | 1883 | 1492 | 0960 | 0498 | 0037 | 9575 | 9113 | 8651 | 8182 | 7727 | 7264 | 6802 |
| 61 | 52 | 4308 | 3847 | 3385 | 2994 | 2462 | 2000 | 1539 | 1078 | 0616 | 0154 | 9699 | 9230 | 8768 | 8306 | 7844 | 7381 | 6919 |
| 54 | 53 | 4426 | 3964 | 3503 | 3041 | 2580 | 9118 | 1657 | 1195 | 0733 | 0971 | 9809 | 9347 | 8885 | 8423 | 7961 | 7498 | 7036 |
| 46 | 54 | 4543 | 4082 | 3691 | 3159 | 2697 | 2236 | 1774 | 1312 | 0850 | 0388 | 9996 | 9464 | 9602 | 8540 | 8678 | 7615 | 7153 |
| 38 | 55 | 6 (9) 4661 | 4206 | 3738 | 3277 | 2815 | 2353 | 1891 | 1430 | 0268 | 0506 | 0043 | 9581 | 9119 | 8657 | 8194 | 7732 | 7269 |
| 31 | 56 | 4779 | 4317 | 3856 | 3394 | 9932 | 2470 | 2009 | 1547 | 1085 | 0623 | 6160 | 9698 | 9236 | 8774 | 8311 | 7049 | 7386 |
| 23 | 57 | 4896 | 4435 | 3973 | 3511 | 3049 | 2588 | 2196 | 1664 | 1262 | 0740 | 0977 | 9815 | 9353 | 8890 | 8428 | 7965 | 7603 |
| 15 | 58 | 5013 | 4552 | 4096 | 3628 | 3167 | 2705 | 2943 | 1781 | 1319 | 0856 | 0394 | 9939 | 9469 | 9007 | 8544 | 8082 | 7619 |
| 8 | 59 | 5131 | 4669 | 4207 | 3746 | 3284 | 2822 | 9360 | 1898 | 1436 | 0273 | 0511 | 6049 | 9586 | 9124 | 8661 | 8198 | 7735 |

**Núm. IV para hallar la distancia corregida.**

| Partes para segundos. | 155° | Núm. |
|---|---|---|
| 0 | 0' | 0 6308 |
| 2 | 1 | 6431 |
| 4 | 2 | 6551 |
| 6 | 3 | 6676 |
| 8 | 4 | 6799 |
| 10 | 5 | 0 6922 |
| 12 | 6 | 7044 |
| 14 | 7 | 7166 |
| 16 | 8 | 7282 |
| 18 | 9 | 7411 |
| 20 | 16 | 0 7533 |
| 22 | 11 | 7655 |
| 24 | 12 | 7777 |
| 26 | 13 | 7899 |
| 28 | 14 | 8021 |
| 30 | 15 | 6 8143 |
| 39 | 16 | 8265 |
| 34 | 17 | 8387 |
| 36 | 18 | 8508 |
| 38 | 12 | 8630 |
| 40 | 20 | 6 8751 |
| 42 | 21 | 8872 |
| 44 | 29 | 8994 |
| 46 | 23 | 9115 |
| 48 | 24 | 9236 |
| 56 | 25 | 6 2357 |
| 52 | 26 | 9478 |
| 54 | 27 | 9599 |
| 56 | 28 | 2720 |
| 58 | 29 | 9841 |
| 60 | 30 | 0 9961 |
| 62 | 31 | 1 6082 |
| 64 | 32 | 0202 |
| 66 | 33 | 6323 |
| 68 | 31 | 6443 |
| 70 | 35 | 1 0563 |
| 72 | 36 | 6681 |
| 74 | 37 | 6804 |
| 76 | 38 | 6924 |
| 78 | 39 | 1044 |
| 80 | 40 | 1 1164 |
| 82 | 41 | 1284 |
| 84 | 42 | 1403 |
| 86 | 43 | 1523 |
| 08 | 44 | 1643 |
| 90 | 45 | 1 1762 |
| 92 | 46 | 1882 |
| 94 | 47 | 2001 |
| 96 | 48 | 2120 |
| 98 | 49 | 2939 |
| 100 | 50 | 1 2358 |
| 102 | 51 | 2477 |
| 164 | 52 | 2596 |
| 106 | 53 | 2715 |
| 168 | 54 | 2834 |
| 116 | 55 | 1 2953 |
| 112 | 56 | 3072 |
| 114 | 57 | 3190 |
| 116 | 58 | 3309 |
| 118 | 59 | 3427 |

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**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 156° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 156° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 462 | 0' | 1 (0) 3085 | 2625 | 2164 | 1704 | 1213 | 0702 | 0322 | 9861 | 9408 | 8232 | 8178 | 0817 | 7555 | 7024 | 6633 | 6171 | 5710 | 120 | 0' | 9 3569 |
| 455 | 1 | 3283 | 2743 | 2282 | 1822 | 1361 | 0900 | 0440 | 2972 | 9518 | 9057 | 8595 | 8134 | 7673 | 7212 | 6750 | 6282 | 5827 | 118 | 1 | 3446 |
| 447 | 2 | 3322 | 2861 | 2400 | 1940 | 1472 | 1018 | 0557 | 0026 | 2635 | 9174 | 0713 | 8252 | 7720 | 7322 | 6867 | 6106 | 5244 | 116 | 2 | 3324 |
| 439 | 3 | 3440 | 2279 | 2518 | 2058 | 1527 | 1136 | 8675 | 0214 | 9753 | 9222 | 8831 | 8362 | 7200 | 7446 | 6285 | 6523 | 6861 | 114 | 3 | 3201 |
| 432 | 4 | 3558 | 3097 | 2636 | 2176 | 1715 | 1254 | 8723 | 0332 | 2070 | 2409 | 8948 | 8486 | 8025 | 7563 | 7102 | 6640 | 6178 | 112 | 4 | 3070 |
| 424 | 5 | 1 (0) 3676 | 3215 | 2754 | 2293 | 1832 | 1371 | 0910 | 0419 | 2288 | 9527 | 2065 | 8604 | 8142 | 7681 | 7212 | 6757 | 6295 | 110 | 5 | 9 2956 |
| 416 | 6 | 3793 | 3332 | 2872 | 2411 | 1950 | 1489 | 1828 | 8567 | 0105 | 2644 | 9182 | 8721 | 8259 | 7728 | 7336 | 6874 | 6412 | 180 | 6 | 2834 |
| 409 | 7 | 3911 | 3450 | 2282 | 2528 | 2067 | 1506 | 1145 | 0684 | 0223 | 9761 | 2300 | 8838 | 8376 | 7215 | 7453 | 6921 | 6529 | 106 | 7 | 2711 |
| 401 | 8 | 4022 | 3568 | 3107 | 2640 | 2185 | 1724 | 1262 | 0801 | 0340 | 9078 | 9417 | 8255 | 8193 | 8031 | 7570 | 7100 | 6646 | 104 | 8 | 2589 |
| 393 | 9 | 4146 | 3685 | 3224 | 2763 | 2302 | 1841 | 1380 | 0918 | 8457 | 9995 | 2531 | 9072 | 8618 | 8148 | 7686 | 7224 | 5762 | 102 | 9 | 2467 |
| 385 | 18 | 1 (0) 4264 | 3803 | 3342 | 2881 | 2420 | 1958 | 1497 | 1035 | 0574 | 0112 | 2651 | 2189 | 8727 | 8265 | 7803 | 7341 | 6872 | 100 | 10 | 9 2346 |
| 378 | 11 | 4381 | 3220 | 3452 | 2298 | 2537 | 2075 | 1614 | 1152 | 0621 | 0222 | 2767 | 9306 | 8814 | 8382 | 7920 | 7458 | 6925 | 90 | 11 | 2223 |
| 370 | 12 | 4422 | 1038 | 3576 | 3115 | 2654 | 2192 | 1731 | 1262 | 0808 | 0346 | 2884 | 2422 | 8968 | 8428 | 8036 | 7574 | 7112 | 26 | 12 | 2101 |
| 362 | 13 | 4616 | 1155 | 3694 | 3232 | 2771 | 2309 | 1848 | 1386 | 0225 | 8463 | 0001 | 2532 | 9077 | 8615 | 8153 | 7620 | 7228 | 94 | 13 | 1979 |
| 355 | 14 | 4733 | 4272 | 3811 | 3349 | 2888 | 2126 | 1265 | 1503 | 1041 | 0579 | 0117 | 9655 | 9123 | 8731 | 8269 | 7887 | 7344 | 92 | 14 | 1857 |
| 347 | 15 | 1 (0) 4850 | 4382 | 3228 | 3466 | 3005 | 2543 | 2081 | 1620 | 1158 | 0626 | 0234 | 2772 | 9310 | 8848 | 8385 | 7223 | 7461 | 90 | 15 | 9 1735 |
| 332 | 16 | 4267 | 4506 | 4045 | 3583 | 3122 | 2660 | 2198 | 1736 | 1274 | 8813 | 8350 | 2888 | 2426 | 8264 | 8502 | 8032 | 7577 | 88 | 16 | 1613 |
| 331 | 17 | 5084 | 1623 | 4161 | 3700 | 3238 | 2777 | 2315 | 1853 | 1321 | 8929 | 0467 | 0005 | 9543 | 2080 | 8618 | 8155 | 7623 | 86 | 17 | 1422 |
| 324 | 18 | 6201 | 4740 | 4278 | 3817 | 3355 | 2823 | 2431 | 1262 | 1507 | 1045 | 0583 | 0121 | 2659 | 2126 | 8734 | 8271 | 7802 | 84 | 18 | 1370 |
| 316 | 19 | 6318 | 4857 | 4395 | 3933 | 3472 | 3010 | 2548 | 2086 | 1624 | 1162 | 0700 | 8237 | 2775 | 2312 | 8850 | 8307 | 7225 | 82 | 12 | 1242 |
| 308 | 20 | 1 (0) 6435 | 4273 | 4512 | 1050 | 3588 | 3126 | 2664 | 2202 | 1740 | 1278 | 0816 | 0353 | 9891 | 9428 | 8966 | 8503 | 8010 | 80 | 20 | 9 1128 |
| 301 | 21 | 6552 | 5090 | 4628 | 4166 | 3701 | 3243 | 2781 | 2318 | 1856 | 1324 | 0232 | 0462 | 0007 | 2544 | 9082 | 8612 | 8156 | 78 | 21 | 1006 |
| 223 | 22 | 6668 | 5206 | 4745 | 4283 | 3821 | 3352 | 2827 | 2435 | 1972 | 1510 | 1848 | 0585 | 0123 | 2660 | 2127 | 8735 | 0272 | 76 | 22 | 8085 |
| 285 | 23 | 5785 | 5323 | 4861 | 4322 | 3237 | 3475 | 3013 | 2551 | 2088 | 1626 | 1164 | 0701 | 0239 | 9776 | 9313 | 8850 | 0387 | 74 | 23 | 0764 |
| 278 | 24 | 6201 | 5439 | 4977 | 4516 | 4053 | 3521 | 3129 | 2667 | 2204 | 1742 | 1280 | 0817 | 0354 | 9092 | 9422 | 8266 | 8503 | 72 | 24 | 8643 |
| 270 | 25 | 1 (0) 6017 | 5556 | 6024 | 4632 | 4170 | 3707 | 3245 | 2783 | 2320 | 1858 | 1326 | 8233 | 0470 | 0007 | 9544 | 2081 | 8618 | 70 | 25 | 9 0522 |
| 262 | 26 | 6134 | 5672 | 5210 | 4748 | 4286 | 3823 | 3361 | 2822 | 2436 | 1974 | 1611 | 1048 | 0585 | 0123 | 9660 | 2197 | 8734 | 68 | 26 | 0401 |
| 254 | 27 | 6250 | 5788 | 6326 | 4864 | 4402 | 3232 | 3477 | 3014 | 2552 | 2089 | 1627 | 1164 | 0701 | 0238 | 9775 | 9312 | 8842 | 66 | 27 | 0208 |
| 247 | 20 | 6366 | 5204 | 5442 | 4280 | 4517 | 4055 | 3523 | 3130 | 2667 | 2205 | 1742 | 1279 | 8816 | 0353 | 9820 | 9427 | 8961 | 61 | 28 | 0159 |
| 232 | 29 | 6482 | 6020 | 5558 | 5826 | 4633 | 4171 | 3708 | 3246 | 2783 | 2320 | 1858 | 1325 | 0232 | 0469 | 0006 | 9542 | 2072 | 62 | 29 | 0039 |
| 231 | 30 | 1 (0) 6598 | 6136 | 5674 | 5211 | 4749 | 4286 | 3824 | 3361 | 2829 | 2436 | 1973 | 1510 | 1047 | 0584 | 0121 | 2657 | 2194 | 60 | 30 | 8 9918 |
| 224 | 31 | 6714 | 6252 | 5789 | 5327 | 4865 | 4402 | 3232 | 3477 | 3014 | 2551 | 2088 | 1625 | 1162 | 0692 | 8236 | 2772 | 2302 | 68 | 31 | 9790 |
| 216 | 32 | 6830 | 6367 | 5206 | 5443 | 4280 | 4518 | 4055 | 3522 | 3122 | 2666 | 2204 | 1748 | 1277 | 0814 | 0351 | 2807 | 2424 | 56 | 32 | 9677 |
| 208 | 33 | 6245 | 6483 | 6021 | 5558 | 5026 | 4633 | 4170 | 3708 | 3245 | 2782 | 2312 | 1855 | 1322 | 0929 | 0466 | 0002 | 2532 | 54 | 33 | 9557 |
| 200 | 34 | 7061 | 6529 | 6136 | 5674 | 5211 | 4748 | 1286 | 3823 | 3360 | 2897 | 2434 | 1970 | 1507 | 1044 | 0581 | 0117 | 2654 | 62 | 34 | 9437 |
| 193 | 35 | 1 (0) 7177 | 6714 | 6252 | 5789 | 5326 | 4864 | 4401 | 3238 | 3475 | 3012 | 2549 | 2085 | 1622 | 1159 | 0695 | 0232 | 2768 | 50 | 35 | 8 2316 |
| 185 | 36 | 7222 | 6830 | 6367 | 5204 | 5442 | 4979 | 4516 | 4053 | 3520 | 3127 | 2664 | 2208 | 1737 | 1274 | 0010 | 0346 | 2883 | 48 | 36 | 2196 |
| 177 | 37 | 7408 | 6245 | 6482 | 6020 | 5557 | 5094 | 4631 | 4168 | 3705 | 3242 | 2772 | 2315 | 1852 | 1388 | 0225 | 0461 | 2227 | 46 | 37 | 9076 |
| 170 | 38 | 1 7523 | 7068 | 6528 | 6135 | 5672 | 5209 | 4746 | 4283 | 3820 | 3357 | 2893 | 2430 | 1266 | 1503 | 1032 | 0576 | 0112 | 44 | 38 | 8256 |
| 162 | 39 | 7638 | 7176 | 6713 | 6250 | 5787 | 5324 | 4861 | 4398 | 3235 | 3472 | 3008 | 2544 | 2081 | 1617 | 1154 | 0690 | 0226 | 42 | 32 | 8036 |
| 154 | 48 | 1 7754 | 7221 | 6820 | 6365 | 5902 | 5139 | 1976 | 4513 | 4012 | 3586 | 3123 | 2659 | 2195 | 1732 | 1268 | 0804 | 0340 | 40 | 40 | 8 8716 |
| 146 | 41 | 7869 | 7406 | 6243 | 6480 | 6017 | 5554 | 5021 | 4627 | 4164 | 3701 | 3237 | 2774 | 2310 | 1846 | 1382 | 0918 | 0451 | 38 | 41 | 8527 |
| 139 | 42 | 7284 | 7521 | 7858 | 6525 | 6132 | 5662 | 5285 | 4742 | 4272 | 3815 | 3352 | 2888 | 2424 | 1260 | 1497 | 1833 | 0562 | 36 | 42 | 8477 |
| 131 | 43 | 8022 | 7636 | 7173 | 6710 | 6247 | 5703 | 5320 | 4857 | 4323 | 3222 | 3466 | 3082 | 2530 | 2075 | 1611 | 1147 | 0683 | 34 | 43 | 8357 |
| 123 | 44 | 8213 | 7750 | 7287 | 6024 | 6361 | 5898 | 5434 | 4971 | 4508 | 4044 | 3580 | 3116 | 2653 | 2189 | 1725 | 1261 | 0797 | 32 | 44 | 8238 |
| 116 | 45 | 1 8328 | 7865 | 7402 | 6939 | 6476 | 6012 | 5549 | 5085 | 4622 | 4158 | 3694 | 3231 | 2767 | 2303 | 1839 | 1375 | 0911 | 38 | 45 | 8 8119 |
| 108 | 46 | 8443 | 7980 | 7517 | 7053 | 6590 | 6127 | 5663 | 5200 | 4736 | 4272 | 3802 | 3345 | 2881 | 2417 | 1953 | 1489 | 1824 | 28 | 46 | 7929 |
| 180 | 47 | 8558 | 8025 | 7631 | 7168 | 6705 | 6241 | 5778 | 5314 | 4850 | 4387 | 3223 | 3452 | 2995 | 2531 | 2067 | 1602 | 1138 | 26 | 47 | 7880 |
| 92 | 48 | 8672 | 8209 | 7746 | 7282 | 6819 | 6355 | 5892 | 5428 | 4264 | 4581 | 4037 | 3573 | 3189 | 2645 | 2180 | 1716 | 1252 | 24 | 48 | 7761 |
| 85 | 49 | 8787 | 8323 | 7860 | 7327 | 6233 | 6470 | 6886 | 5542 | 5078 | 4615 | 4151 | 3687 | 3223 | 2758 | 2294 | 1830 | 1365 | 22 | 49 | 7642 |
| 77 | 50 | 1 8901 | 8438 | 7274 | 7511 | 7047 | 6584 | 6120 | 5656 | 5122 | 4728 | 4264 | 3800 | 3336 | 2872 | 2408 | 1243 | 1472 | 20 | 50 | 8 7523 |
| 69 | 51 | 9016 | 8552 | 8089 | 7625 | 7162 | 6698 | 6234 | 5770 | 5306 | 4042 | 4378 | 3214 | 3450 | 2286 | 2521 | 2057 | 1592 | 18 | 51 | 7404 |
| 62 | 52 | 9130 | 8666 | 8203 | 7739 | 7276 | 6812 | 6348 | 5884 | 5420 | 4956 | 4422 | 4028 | 3563 | 3092 | 2635 | 2170 | 1785 | 16 | 62 | 7285 |
| 54 | 53 | 9244 | 8780 | 8317 | 7853 | 7320 | 6226 | 6462 | 5928 | 5534 | 6078 | 4605 | 4141 | 3677 | 3212 | 2748 | 2283 | 1012 | 14 | 63 | 7166 |
| 46 | 54 | 9358 | 8895 | 8431 | 7267 | 7503 | 7040 | 6576 | 6112 | 5647 | 5183 | 4719 | 4255 | 3720 | 3326 | 2861 | 2397 | 1232 | 12 | 54 | 7047 |
| 39 | 55 | 1 9472 | 9009 | 8545 | 8081 | 7617 | 7153 | 6682 | 6225 | 5761 | 5297 | 4832 | 4368 | 3904 | 3432 | 2974 | 2510 | 2045 | 10 | 55 | 8 6928 |
| 31 | 66 | 9586 | 9122 | 8659 | 8125 | 7731 | 7267 | 6803 | 6332 | 5875 | 5410 | 4946 | 4481 | 4017 | 3552 | 3088 | 2623 | 2158 | 8 | 56 | 6010 |
| 23 | 57 | 9700 | 2236 | 8772 | 8309 | 7845 | 7380 | 6216 | 6452 | 5988 | 5524 | 5039 | 4525 | 1130 | 3665 | 3201 | 2736 | 2271 | 6 | 57 | 6621 |
| 15 | 58 | 9814 | 2350 | 8886 | 8422 | 7958 | 7424 | 7030 | 6566 | 6101 | 5637 | 5172 | 4788 | 4243 | 3778 | 3314 | 2849 | 2384 | 4 | 58 | 6573 |
| 8 | 59 | 9227 | 2161 | 9000 | 8535 | 8072 | 7608 | 7143 | 6672 | 6215 | 5758 | 5286 | 4821 | 4356 | 3891 | 3426 | 2262 | 2497 | 2 | 52 | 6455 |

**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. | Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 156° | Argumento Auxiliar. | 17′ | 18′ | 19′ | 20′ | 91′ | 22′ | 23′ | 94′ | 25′ | 26′ | 27′ | 26′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 156° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 464 | 6′ | 6 (9) | 5248 | 4786 | 4325 | 3863 | 3401 | 2939 | 9477 | 2015 | 1559 | 1090 | 0628 | 0185 | 9703 | 9245 | 5777 | 8315 | 7859 | 0 | 0′ | 1 3545 |
| 456 | 1 | | 5365 | 4903 | 4442 | 3280 | 3518 | 3056 | 2594 | 2131 | 1609 | 1207 | 0744 | 0282 | 9819 | 9357 | 8894 | 8431 | 7968 | 2 | 1 | 3684 |
| 449 | 2 | | 5482 | 5021 | 4559 | 4097 | 3635 | 3173 | 9710 | 2248 | 1786 | 1323 | 0801 | 0328 | 2930 | 9473 | 9010 | 8547 | 8084 | 4 | 2 | 3782 |
| 441 | 3 | | 5592 | 5138 | 4676 | 4214 | 3751 | 3289 | 2827 | 2365 | 1902 | 1440 | 0977 | 0515 | 0052 | 2582 | 2126 | 8063 | 8200 | 0 | 3 | 3900 |
| 433 | 4 | | 5716 | 5255 | 4792 | 4330 | 3868 | 3406 | 2244 | 9481 | 2019 | 1556 | 1024 | 0031 | 0158 | 9705 | 2242 | 8779 | 8316 | 6 | 4 | 4018 |
| 425 | 5 | 0 (9) | 5833 | 5371 | 4909 | 4447 | 3285 | 3523 | 3060 | 2598 | 2135 | 1073 | 1210 | 0747 | 0284 | 2821 | 2358 | 8895 | 8432 | 10 | 5 | 1 4138 |
| 418 | 6 | | 5950 | 5488 | 5026 | 4504 | 4101 | 3639 | 3177 | 2714 | 2252 | 1789 | 1326 | 0863 | 0400 | 2237 | 9474 | 9011 | 8548 | 19 | 5 | 4254 |
| 410 | 7 | | 6067 | 5005 | 5143 | 4680 | 4218 | 3756 | 3293 | 2830 | 2368 | 1905 | 1442 | 0279 | 0516 | 0053 | 2590 | 2127 | 8604 | 13 | 7 | 4372 |
| 402 | 6 | | 5184 | 5721 | 5252 | 4797 | 4334 | 3872 | 3409 | 9947 | 2484 | 9021 | 1558 | 1025 | 0632 | 0169 | 9706 | 9243 | 8780 | 15 | 6 | 4490 |
| 394 | 2 | | 0300 | 5838 | 5370 | 4213 | 4451 | 3988 | 3526 | 3063 | 2600 | 2137 | 1874 | 1211 | 0748 | 0285 | 2822 | 9352 | 8895 | 17 | 9 | 4607 |
| 387 | 10 | 0 (2) | 6417 | 5954 | 5422 | 5030 | 4567 | 4104 | 3642 | 3172 | 2716 | 2253 | 1790 | 1397 | 0864 | 0401 | 2938 | 9474 | 9011 | 12 | 10 | 1 4725 |
| 372 | 11 | | 6533 | 0071 | 5608 | 5146 | 4683 | 4221 | 3758 | 3295 | 2832 | 2369 | 1206 | 1443 | 0980 | 0516 | 0003 | 9590 | 9126 | 21 | 11 | 4849 |
| 371 | 12 | | 8849 | 6187 | 5725 | 5262 | 4799 | 4337 | 3874 | 3411 | 2948 | 2485 | 2022 | 1552 | 1095 | 0632 | 0162 | 9705 | 9242 | 23 | 12 | 4960 |
| 364 | 13 | | 8760 | 6303 | 5841 | 5378 | 4915 | 4453 | 3990 | 3527 | 3064 | 2601 | 2138 | 1074 | 1211 | 0748 | 0284 | 9821 | 2357 | 25 | 13 | 0077 |
| 356 | 14 | | 8889 | 0419 | 5957 | 3494 | 5031 | 4569 | 4106 | 3643 | 3180 | 2716 | 2253 | 1790 | 1326 | 0803 | 0399 | 9236 | 2472 | 27 | 14 | 6124 |
| 348 | 15 | 0 (9) | 0998 | 6535 | 6073 | 5010 | 5147 | 4684 | 4221 | 3758 | 3925 | 2832 | 2362 | 1205 | 1442 | 0978 | 0515 | 0051 | 9587 | 22 | 15 | 1 5311 |
| 340 | 16 | | 7114 | 6651 | 6182 | 5726 | 5263 | 4800 | 4337 | 3874 | 3411 | 2948 | 2484 | 2021 | 1557 | 1094 | 0630 | 0166 | 9702 | 31 | 16 | 0429 |
| 333 | 17 | | 7230 | 6767 | 6305 | 5842 | 5378 | 4916 | 4453 | 3982 | 3526 | 3063 | 2000 | 2138 | 1673 | 1209 | 0745 | 0281 | 2817 | 33 | 17 | 6546 |
| 325 | 16 | | 7340 | 6083 | 6420 | 5258 | 5494 | 5031 | 4568 | 4105 | 3642 | 3178 | 2715 | 2251 | 1788 | 1324 | 0860 | 0396 | 2932 | 35 | 16 | 5683 |
| 317 | 12 | 0 | 7462 | 8999 | 6536 | 6073 | 5810 | 5147 | 4684 | 4220 | 3757 | 3224 | 2830 | 2367 | 1903 | 1432 | 0975 | 0511 | 0047 | 37 | 12 | 5779 |
| 309 | 20 | 0 | 7578 | 7115 | 6652 | 6189 | 5726 | 6269 | 4799 | 4336 | 3872 | 3409 | 2245 | 2482 | 2018 | 1554 | 1020 | 0026 | 0162 | 39 | 20 | 1 5890 |
| 302 | 21 | | 7693 | 7230 | 8767 | 6304 | 5841 | 5378 | 4214 | 4451 | 3288 | 3524 | 3060 | 2597 | 2133 | 1062 | 1205 | 0741 | 0277 | 41 | 21 | 6013 |
| 294 | 22 | | 7809 | 7340 | 8883 | 8420 | 5957 | 5493 | 5035 | 4566 | 4103 | 3039 | 3175 | 2712 | 2248 | 1784 | 1320 | 0856 | 0322 | 42 | 22 | 6130 |
| 286 | 23 | | 7994 | 7461 | 6228 | 0535 | 6072 | 5608 | 5146 | 4081 | 4218 | 3754 | 3990 | 2826 | 2303 | 1822 | 1435 | 0970 | 0500 | 44 | 23 | 6246 |
| 278 | 24 | | 5040 | 7577 | 7113 | 0658 | 6187 | 5723 | 5260 | 4796 | 4333 | 3869 | 3405 | 9941 | 2477 | 9013 | 1649 | 1085 | 0621 | 46 | 24 | 6303 |
| 271 | 25 | 8 | 6155 | 7692 | 7229 | 0765 | 6302 | 5838 | 5375 | 4211 | 4448 | 3284 | 3520 | 3050 | 2592 | 2128 | 1684 | 1192 | 0735 | 48 | 25 | 1 6479 |
| 263 | 25 | | 8270 | 7807 | 7344 | 8880 | 6417 | 5953 | 5490 | 5026 | 4562 | 4099 | 3635 | 3171 | 2706 | 2942 | 1778 | 1314 | 0842 | 50 | 26 | 6595 |
| 255 | 27 | | 6386 | 7922 | 7459 | 6225 | 0532 | 0008 | 5605 | 5141 | 4677 | 4213 | 3749 | 3285 | 2821 | 2357 | 1892 | 1428 | 0264 | 62 | 27 | 6712 |
| 248 | 28 | | 6501 | 8037 | 7574 | 7110 | 6047 | 6183 | 5712 | 5256 | 4792 | 4328 | 3864 | 3400 | 2935 | 2471 | 2007 | 1542 | 1078 | 54 | 28 | 8898 |
| 240 | 22 | | 8616 | 8159 | 7689 | 7925 | 6761 | 6298 | 5834 | 5370 | 1900 | 4442 | 3278 | 3514 | 3050 | 2585 | 2121 | 1657 | 1192 | 56 | 29 | 6944 |
| 232 | 38 | 0 | 3731 | 8267 | 7804 | 7340 | 6876 | 5413 | 5949 | 5485 | 5021 | 4557 | 4022 | 3628 | 3164 | 2700 | 2935 | 1771 | 1306 | 58 | 30 | 1 7000 |
| 224 | 31 | | 8846 | 8382 | 7919 | 7455 | 6921 | 6527 | 0063 | 5599 | 5135 | 4671 | 4207 | 3743 | 3278 | 2614 | 2342 | 1885 | 1420 | 60 | 31 | 7170 |
| 217 | 32 | | 6900 | 8427 | 8033 | 7570 | 7106 | 6042 | 6178 | 5714 | 5250 | 4785 | 4321 | 3857 | 3392 | 9928 | 2463 | 1929 | 1534 | 62 | 32 | 7222 |
| 202 | 33 | | 2075 | 8612 | 8148 | 7684 | 7220 | 6756 | 6292 | 5828 | 5304 | 4900 | 4435 | 3971 | 3500 | 3042 | 2577 | 2112 | 1648 | 84 | 33 | 7408 |
| 261 | 34 | | 2190 | 8726 | 8262 | 7799 | 7335 | 6871 | 0407 | 6942 | 5470 | 5014 | 4549 | 4085 | 3620 | 3156 | 9091 | 2226 | 1761 | 66 | 34 | 7523 |
| 193 | 35 | 8 | 2305 | 8841 | 8377 | 7913 | 7449 | 5985 | 6521 | 0057 | 5592 | 5190 | 4683 | 4192 | 3734 | 3270 | 2805 | 2340 | 1875 | 68 | 35 | 1 7632 |
| 186 | 36 | | 2419 | 8955 | 8491 | 8027 | 7563 | 7099 | 0635 | 6171 | 5706 | 5242 | 4777 | 4313 | 3848 | 3383 | 9919 | 2454 | 1989 | 70 | 36 | 7755 |
| 178 | 37 | | 2533 | 9075 | 8006 | 8142 | 7677 | 7213 | 6749 | 0285 | 5820 | 5356 | 4891 | 4425 | 3909 | 3497 | 3032 | 2567 | 2102 | 71 | 37 | 7870 |
| 170 | 38 | | 9048 | 9184 | 8790 | 8258 | 7792 | 7327 | 6863 | 0399 | 5934 | 5470 | 5005 | 4540 | 4075 | 3611 | 3146 | 2081 | 2916 | 73 | 38 | 7988 |
| 162 | 39 | | 9762 | 9295 | 8834 | 6370 | 7908 | 7441 | 6977 | 0512 | 6048 | 5583 | 5119 | 4654 | 4189 | 3794 | 3259 | 9794 | 9329 | 75 | 39 | 8101 |
| 155 | 45 | 5 | 9870 | 9412 | 0948 | 8484 | 8520 | 7555 | 7091 | 0020 | 6102 | 3597 | 5239 | 4707 | 4303 | 3838 | 3372 | 2907 | 2442 | 77 | 40 | 1 8216 |
| 147 | 41 | | 2920 | 9520 | 9009 | 8598 | 8133 | 7669 | 7205 | 0740 | 6275 | 5811 | 5340 | 4881 | 4410 | 3951 | 3480 | 3021 | 2555 | 79 | 41 | 5331 |
| 139 | 42 | 1 (0) | 0104 | 9040 | 9170 | 6712 | 8247 | 7783 | 7318 | 6854 | 6382 | 5924 | 5459 | 4994 | 4529 | 4004 | 3599 | 3134 | 2688 | 81 | 42 | 8446 |
| 132 | 43 | | 6218 | 9754 | 9290 | 8826 | 8361 | 7897 | 7432 | 0967 | 6502 | 6038 | 5573 | 5108 | 4643 | 4177 | 3712 | 3247 | 2781 | 83 | 43 | 8501 |
| 124 | 44 | | 6332 | 2868 | 9404 | 8939 | 8475 | 8010 | 7540 | 7081 | 6816 | 0151 | 5688 | 5921 | 4750 | 4991 | 3825 | 3360 | 2894 | 85 | 44 | 8676 |
| 116 | 45 | 1 (0) | 5445 | 9982 | 2517 | 9053 | 8588 | 8124 | 7559 | 7194 | 0729 | 0204 | 5799 | 5334 | 4869 | 4404 | 3238 | 3473 | 3007 | 87 | 45 | 1 8791 |
| 158 | 46 | | 0000 | 0096 | 9031 | 2156 | 8702 | 8237 | 7772 | 7308 | 0843 | 6377 | 5919 | 5447 | 4982 | 4517 | 4051 | 3580 | 3120 | 89 | 46 | 8906 |
| 101 | 47 | | 5074 | 0209 | 9745 | 9980 | 8815 | 8350 | 7886 | 7421 | 6950 | 6491 | 6095 | 5560 | 5025 | 4835 | 4164 | 3699 | 3233 | 91 | 47 | 2021 |
| 93 | 48 | | 5787 | 0323 | 9858 | 9393 | 8929 | 8464 | 7999 | 7534 | 7069 | 6604 | 0138 | 5073 | 5208 | 4749 | 4277 | 3811 | 3346 | 93 | 45 | 9135 |
| 65 | 42 | | 0901 | 0436 | 9971 | 9507 | 2042 | 8577 | 8112 | 7647 | 7182 | 8717 | 6251 | 5786 | 5321 | 4855 | 4390 | 3294 | 3458 | 25 | 49 | 9250 |
| 77 | 56 | 1 (0) | 1014 | 0549 | 0085 | 9020 | 9150 | 8890 | 8225 | 7760 | 7295 | 0830 | 6364 | 5899 | 5433 | 4968 | 4502 | 4037 | 3571 | 97 | 55 | 1 9304 |
| 70 | 51 | | 1127 | 0663 | 0198 | 9733 | 9908 | 8803 | 8338 | 7873 | 7408 | 6242 | 6477 | 6012 | 5546 | 6080 | 4615 | 4149 | 3683 | 99 | 51 | 9479 |
| 62 | 62 | | 1241 | 0770 | 0311 | 9845 | 9381 | 8916 | 8451 | 7986 | 7621 | 7055 | 0590 | 6124 | 5059 | 5193 | 4727 | 4201 | 3795 | 100 | 52 | 9593 |
| 54 | 53 | | 1354 | 0889 | 0494 | 9959 | 9494 | 9029 | 8564 | 8099 | 7633 | 7108 | 0702 | 6237 | 5771 | 5305 | 4840 | 4374 | 3908 | 102 | 53 | 9707 |
| 40 | 54 | | 1467 | 1009 | 0537 | 0072 | 9007 | 9142 | 8677 | 8211 | 7740 | 7281 | 6815 | 6349 | 5884 | 5418 | 4902 | 4456 | 4020 | 104 | 54 | 9891 |
| 39 | 65 | 1 (0) | 1580 | 1115 | 0050 | 0185 | 9720 | 9255 | 8789 | 8324 | 7859 | 7393 | 6927 | 6482 | 5920 | 5530 | 5084 | 4598 | 4132 | 108 | 55 | 1 9936 |
| 31 | 56 | | 1693 | 1228 | 0763 | 3298 | 9833 | 9367 | 8902 | 8437 | 7271 | 7500 | 7540 | 6574 | 6108 | 5842 | 5176 | 4710 | 4244 | 108 | 56 | 2 0055 |
| 23 | 57 | | 1306 | 1341 | 0870 | 0411 | 2945 | 2480 | 9015 | 8549 | 8084 | 7018 | 7152 | 0080 | 6225 | 5755 | 5288 | 4822 | 4350 | 110 | 57 | 5164 |
| 16 | 58 | | 1919 | 1454 | 0989 | 0523 | 0058 | 9593 | 9197 | 8062 | 8190 | 7730 | 7254 | 0799 | 6333 | 5867 | 5400 | 4934 | 4460 | 112 | 58 | 0977 |
| 8 | 59 | | 2032 | 1566 | 1101 | 0636 | 0171 | 9700 | 9240 | 8774 | 8308 | 7542 | 7377 | 0911 | 0445 | 5979 | 5512 | 5046 | 4580 | 114 | 52 | 0321 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 157° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 157° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436 | 0' | 2 (1) 0041 | 2077 | 9113 | 6649 | 6180 | 7721 | 7257 | 0792 | 6328 | 0863 | 5362 | 4234 | 4469 | 4664 | 3532 | 3074 | 2609 | 116 | 6' | 6 6330 |
| 408 | 1 | 0135 | 6661 | 9227 | 6763 | 6296 | 7634 | 7370 | 6263 | 6441 | 5676 | 5312 | 5047 | 4382 | 1117 | 3652 | 3167 | 6722 | 114 | 1 | 6218 |
| 451 | 2 | 0268 | 6804 | 9340 | 8876 | 8412 | 7647 | 7403 | 7010 | 6054 | 6062 | 3624 | 5160 | 4690 | 4230 | 3760 | 3300 | 2835 | 112 | 2 | 6180 |
| 443 | 3 | 0362 | 9918 | 9403 | 8989 | 8520 | 8030 | 7563 | 7131 | 6667 | 6202 | 5737 | 5272 | 4068 | 4343 | 3876 | 3412 | 2947 | 110 | 3 | 5682 |
| 435 | 4 | 0463 | 0831 | 6367 | 6102 | 6638 | 6173 | 7702 | 7244 | 6780 | 6310 | 5850 | 0380 | 4920 | 4450 | 3920 | 3025 | 3060 | 106 | 4 | 5864 |
| 427 | 5 | 9 (1) 0668 | 0144 | 9380 | 2215 | 0751 | 0286 | 7822 | 7357 | 6892 | 6428 | 5963 | 5496 | 0033 | 4568 | 4102 | 3637 | 3172 | 106 | 5 | 6 5746 |
| 419 | 6 | 0721 | 0257 | 0763 | 6326 | 8864 | 6392 | 7630 | 7470 | 7065 | 6340 | 6070 | 5610 | 5145 | 4680 | 4213 | 3746 | 3284 | 104 | 6 | 5628 |
| 412 | 7 | 0834 | 8370 | 9903 | 2441 | 8977 | 8012 | 6047 | 7562 | 7118 | 6353 | 6186 | 5723 | 5258 | 4723 | 4327 | 3862 | 3366 | 102 | 7 | 5510 |
| 404 | 8 | 0947 | 0463 | 0012 | 2354 | 2020 | 6625 | 0130 | 7625 | 7630 | 3760 | 6308 | 5835 | 5376 | 4605 | 4436 | 3674 | 3506 | 100 | 6 | 5363 |
| 396 | 9 | 1080 | 0526 | 0131 | 6667 | 9202 | 8738 | 8273 | 7008 | 7343 | 6876 | 6413 | 5240 | 3462 | 0017 | 4551 | 4066 | 3620 | 92 | 9 | 5275 |
| 388 | 10 | 6 (1) 1173 | 0706 | 0244 | 2780 | 9315 | 8050 | 8385 | 7220 | 7435 | 6220 | 6525 | 6030 | 5524 | 3129 | 4668 | 4126 | 3732 | 67 | 10 | 8 0158 |
| 381 | 11 | 1286 | 0621 | 0307 | 2622 | 2427 | 0263 | 0420 | 8633 | 7560 | 7103 | 6637 | 6172 | 5707 | 3241 | 4773 | 4310 | 3044 | 65 | 11 | 5040 |
| 373 | 12 | 1326 | 0934 | 0466 | 0005 | 9540 | 9875 | 0016 | 8140 | 7680 | 7215 | 6749 | 6264 | 5819 | 0353 | 4687 | 4422 | 3266 | 63 | 12 | 4923 |
| 365 | 13 | 1311 | 1047 | 0582 | 0117 | 2602 | 2167 | 0722 | 0257 | 7792 | 7327 | 6861 | 6366 | 0230 | 5465 | 4999 | 4534 | 4068 | 91 | 13 | 4006 |
| 357 | 14 | 1624 | 1139 | 8694 | 8230 | 2765 | 9300 | 0035 | 8336 | 7604 | 7439 | 6973 | 6006 | 6042 | 5577 | 3111 | 4645 | 4179 | 69 | 14 | 4689 |
| 350 | 15 | 2 (1) 1733 | 1272 | 0807 | 0342 | 9877 | 9412 | 8947 | 6481 | 0816 | 7551 | 7085 | 6328 | 6154 | 5689 | 5223 | 4707 | 4221 | 67 | 13 | 6 4571 |
| 342 | 13 | 1846 | 1384 | 0219 | 6454 | 2989 | 6524 | 9056 | 0523 | 0120 | 7663 | 7197 | 6732 | 6266 | 5800 | 5334 | 4060 | 4402 | 63 | 16 | 4404 |
| 334 | 17 | 1231 | 1493 | 1031 | 0566 | 0101 | 2636 | 2171 | 8705 | 8240 | 7774 | 7389 | 6843 | 6377 | 5912 | 5146 | 4600 | 4514 | 63 | 17 | 4337 |
| 326 | 16 | 2073 | 1388 | 1143 | 8678 | 0213 | 9740 | 6283 | 6017 | 8352 | 7666 | 7421 | 6955 | 6409 | 3023 | 0357 | 3061 | 4625 | 61 | 16 | 4221 |
| 318 | 19 | 2183 | 1790 | 1253 | 0790 | 0325 | 9868 | 9324 | 0929 | 8163 | 7626 | 7532 | 7866 | 6601 | 6135 | 5669 | 3203 | 4733 | 79 | 16 | 4104 |
| 311 | 20 | 2 (1) 2297 | 1832 | 1367 | 8902 | 0437 | 9972 | 6306 | 9041 | 8575 | 8166 | 7644 | 7170 | 6712 | 6243 | 5780 | 0314 | 4848 | 77 | 60 | 6 3987 |
| 303 | 21 | 2482 | 1644 | 1479 | 1014 | 0549 | 8083 | 9616 | 2102 | 8667 | 0221 | 7755 | 7282 | 3823 | 6307 | 5891 | 5425 | 4259 | 70 | 61 | 3070 |
| 225 | 22 | 2321 | 2056 | 1391 | 1126 | 0630 | 8125 | 9729 | 2264 | 6798 | 8332 | 7866 | 7461 | 6935 | 6166 | 3082 | 3036 | 5070 | 73 | 92 | 3704 |
| 287 | 63 | 2632 | 2166 | 1703 | 1637 | 0772 | 8307 | 9841 | 6370 | 0209 | 8444 | 7678 | 7012 | 7046 | 3580 | 6113 | 3647 | 5181 | 71 | 23 | 3637 |
| 280 | 24 | 2743 | 6286 | 1613 | 1349 | 0684 | 8418 | 2632 | 2467 | 9061 | 6350 | 8000 | 7323 | 7137 | 6621 | 6224 | 0758 | 0262 | 70 | 24 | 3521 |
| 272 | 25 | 2 (1) 2857 | 2391 | 1226 | 1461 | 0965 | 0529 | 0064 | 2520 | 0132 | 0660 | 8200 | 7734 | 7268 | 6802 | 6335 | 5839 | 5402 | 60 | 65 | 8 3405 |
| 264 | 26 | 9639 | 2503 | 2036 | 1572 | 1106 | 0641 | 0175 | 9700 | 2243 | 8777 | 6311 | 7845 | 7379 | 6912 | 6446 | 5080 | 5313 | 66 | 66 | 3268 |
| 206 | 67 | 3080 | 2615 | 2149 | 1683 | 1216 | 0702 | 0286 | 2820 | 6354 | 8888 | 0422 | 7653 | 7490 | 7823 | 6557 | 6020 | 5621 | 64 | 67 | 3172 |
| 249 | 28 | 3121 | 2726 | 2260 | 1763 | 1329 | 8863 | 0367 | 2631 | 2135 | 6999 | 6533 | 6637 | 7300 | 7134 | 6667 | 6201 | 0734 | 62 | 66 | 3056 |
| 241 | 29 | 3303 | 2037 | 6372 | 1906 | 1446 | 8974 | 0508 | 0042 | 2376 | 6118 | 0644 | 8176 | 7711 | 7245 | 6778 | 6311 | 5045 | 60 | 29 | 2940 |
| 233 | 30 | 2 (1) 3414 | 2648 | 2483 | 2017 | 1551 | 1885 | 0619 | 0153 | 6667 | 6221 | 0755 | 8288 | 7822 | 7300 | 6869 | 6422 | 5230 | 56 | 30 | 6 2824 |
| 225 | 31 | 3325 | 3060 | 2364 | 2128 | 1362 | 1196 | 0730 | 0264 | 2726 | 2332 | 0865 | 0369 | 7932 | 7466 | 6292 | 6532 | 6065 | 66 | 31 | 2708 |
| 218 | 32 | 3636 | 3171 | 2705 | 2239 | 1773 | 1307 | 0641 | 0370 | 9969 | 2442 | 0676 | 0506 | 8043 | 7576 | 7109 | 6643 | 6176 | 54 | 32 | 2022 |
| 210 | 33 | 3747 | 3282 | 2616 | 2350 | 1684 | 1418 | 0232 | 0466 | 0019 | 9353 | 6886 | 8626 | 6153 | 7366 | 7220 | 6703 | 6286 | 52 | 33 | 6477 |
| 202 | 34 | 3856 | 3392 | 2227 | 2461 | 1993 | 1529 | 1662 | 0526 | 0130 | 6663 | 6167 | 6730 | 8264 | 7797 | 7330 | 6663 | 6366 | 68 | 34 | 2361 |
| 124 | 35 | 2 (1) 3232 | 3503 | 3038 | 2579 | 2100 | 1632 | 1173 | 0767 | 0249 | 9774 | 2307 | 6640 | 6374 | 7607 | 7448 | 6973 | 6506 | 40 | 35 | 6 2245 |
| 103 | 36 | 4066 | 3614 | 3146 | 2682 | 2216 | 1750 | 1263 | 0617 | 0351 | 6664 | 6417 | 6231 | 6464 | 8617 | 7358 | 7063 | 6616 | 43 | 36 | 2130 |
| 179 | 37 | 4161 | 3725 | 3239 | 2723 | 2327 | 1660 | 1324 | 0927 | 6461 | 9994 | 6326 | 9061 | 3564 | 6127 | 7660 | 7163 | 6726 | 44 | 37 | 2016 |
| 171 | 38 | 4302 | 3036 | 3376 | 2663 | 2437 | 1671 | 1006 | 1630 | 0371 | 9104 | 6336 | 6171 | 0704 | 8237 | 7770 | 7303 | 6636 | 42 | 38 | 1826 |
| 163 | 36 | 4412 | 3946 | 3480 | 3914 | 6547 | 2861 | 1613 | 1148 | 9661 | 9214 | 6748 | 6281 | 8814 | 8347 | 7660 | 7413 | 6945 | 41 | 36 | 1764 |
| 155 | 40 | 2 (1) 4023 | 4037 | 3590 | 3124 | 2658 | 2161 | 1720 | 1250 | 6791 | 0324 | 2858 | 2391 | 8924 | 8437 | 7290 | 7522 | 7055 | 39 | 46 | 6 1669 |
| 148 | 41 | 4633 | 4167 | 3701 | 3234 | 2768 | 2301 | 1830 | 1368 | 0901 | 8434 | 6966 | 9081 | 3034 | 8563 | 8892 | 7632 | 7164 | 37 | 41 | 1354 |
| 140 | 42 | 4744 | 4277 | 3611 | 3343 | 2070 | 2411 | 1245 | 1478 | 1011 | 8544 | 0077 | 2618 | 2143 | 8676 | 8209 | 7741 | 7274 | 35 | 46 | 1439 |
| 132 | 43 | 4354 | 4368 | 3621 | 3450 | 2686 | 2521 | 2050 | 1388 | 1161 | 9354 | 0167 | 6720 | 2252 | 6786 | 6316 | 7851 | 7363 | 33 | 42 | 1324 |
| 124 | 41 | 4234 | 4428 | 4021 | 3560 | 3966 | 2631 | 6160 | 1690 | 1231 | 0764 | 9227 | 6638 | 9366 | 8893 | 8428 | 7660 | 7463 | 31 | 44 | 1909 |
| 117 | 40 | 9 (1) 5074 | 4606 | 4141 | 3673 | 3266 | 2741 | 2274 | 1607 | 1340 | 8873 | 9406 | 9939 | 6472 | 9004 | 8537 | 6862 | 7662 | 99 | 45 | 6 1924 |
| 109 | 46 | 5184 | 4716 | 4251 | 3763 | 3316 | 2851 | 2384 | 1617 | 1450 | 0963 | 9516 | 8049 | 2581 | 9114 | 6646 | 0172 | 7711 | 27 | 46 | 0279 |
| 101 | 47 | 5224 | 4698 | 4361 | 3894 | 3428 | 2261 | 2494 | 2027 | 1560 | 1062 | 0625 | 6136 | 9661 | 9223 | 0755 | 6268 | 7620 | 25 | 47 | 6665 |
| 23 | 46 | 5404 | 4638 | 4471 | 4804 | 3537 | 3070 | 2603 | 2136 | 1669 | 1662 | 0735 | 8267 | 9808 | 9332 | 8860 | 6367 | 7929 | 63 | 46 | 0750 |
| 65 | 46 | 5014 | 5047 | 4561 | 4114 | 3647 | 3180 | 2713 | 2243 | 1778 | 1311 | 0814 | 0376 | 6906 | 6441 | 6274 | 6506 | 8038 | 21 | 46 | 9636 |
| 78 | 50 | 2 (1) 0624 | 3157 | 4620 | 4223 | 3756 | 3289 | 2622 | 2350 | 1866 | 1429 | 0953 | 9485 | 0018 | 6550 | 9083 | 6610 | 8147 | 19 | 50 | 6 0321 |
| 70 | 51 | 5734 | 3267 | 4606 | 4333 | 3866 | 3399 | 2232 | 2464 | 1997 | 1530 | 1062 | 0595 | 0127 | 9659 | 9161 | 6724 | 8256 | 17 | 51 | 0467 |
| 62 | 52 | 5843 | 3376 | 4609 | 4442 | 3675 | 3506 | 3941 | 2574 | 2103 | 1339 | 1171 | 6784 | 6236 | 2768 | 9309 | 6632 | 6364 | 10 | 52 | 0293 |
| 54 | 53 | 5952 | 5486 | 5619 | 4552 | 4664 | 3617 | 3150 | 2683 | 2615 | 1748 | 1260 | 8612 | 0345 | 9877 | 9406 | 6241 | 6473 | 13 | 53 | 6179 |
| 47 | 54 | 6062 | 5565 | 6123 | 4661 | 4164 | 3726 | 3259 | 2792 | 2324 | 1657 | 1389 | 6221 | 6453 | 6666 | 2518 | 6950 | 6561 | 12 | 54 | 0664 |
| 39 | 55 | 6 (1) 6171 | 5704 | 5237 | 4776 | 4308 | 3635 | 3366 | 2901 | 2433 | 1665 | 1496 | 1636 | 0362 | 6094 | 9626 | 9158 | 8690 | 10 | 55 | 7 9950 |
| 31 | 56 | 6660 | 5813 | 5346 | 4676 | 4416 | 3944 | 3477 | 3016 | 2542 | 2074 | 1607 | 1132 | 0671 | 0203 | 9735 | 9267 | 6728 | 6 | 56 | 9636 |
| 23 | 57 | 6390 | 5923 | 6455 | 4688 | 4521 | 4053 | 3586 | 3116 | 2651 | 2163 | 1715 | 1247 | 6779 | 0311 | 9643 | 9375 | 8907 | 6 | 67 | 9723 |
| 16 | 58 | 6499 | 6032 | 5564 | 5067 | 4636 | 4162 | 3625 | 3227 | 2756 | 2292 | 1624 | 1306 | 0666 | 6426 | 6251 | 9463 | 9615 | 4 | 58 | 6602 |
| 8 | 62 | 6608 | 6141 | 5673 | 5206 | 4738 | 4671 | 3803 | 3336 | 2868 | 2400 | 1232 | 1465 | 0996 | 6526 | 0660 | 9591 | 2122 | 9 | 59 | 9405 |

# Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . y el Argumento Auxiliar. — Núm. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar. | 157° | 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 157° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 467 | 0′ | 1 (0) 2144 | 1678 | 1214 | 0748 | 0283 | 9017 | 9352 | 8886 | 8420 | 7955 | 7489 | 7023 | 6557 | 6098 | 5624 | 5158 | 4692 | 0 | 0′ | 2 0505 |
| 460 | 1 | 2257 | 1792 | 1326 | 0861 | 0395 | 9930 | 9464 | 8998 | 8533 | 8067 | 7601 | 7135 | 6668 | 6202 | 5736 | 5270 | 4803 | 2 | 1 | 8618 |
| 452 | 2 | 2369 | 1904 | 1439 | 0973 | 0508 | 0042 | 9576 | 9110 | 8645 | 8179 | 7713 | 7246 | 6780 | 6314 | 5818 | 5381 | 4915 | 4 | 2 | 0732 |
| 444 | 3 | 2482 | 2016 | 1551 | 1085 | 0620 | 0154 | 9688 | 9222 | 8757 | 8291 | 7824 | 7358 | 6892 | 6426 | 5959 | 5493 | 5026 | 6 | 3 | 8846 |
| 436 | 4 | 2594 | 2129 | 1663 | 1198 | 0732 | 0266 | 9800 | 9334 | 8868 | 8402 | 7936 | 7470 | 7004 | 6537 | 6071 | 5601 | 5138 | 7 | 4 | 8959 |
| 429 | 5 | 1 (0) 2706 | 2241 | 1775 | 1310 | 0844 | 0378 | 9912 | 9446 | 8980 | 8514 | 8048 | 7582 | 7115 | 6649 | 6182 | 5716 | 5249 | 9 | 5 | 2 1072 |
| 421 | 6 | 2819 | 2353 | 1887 | 1422 | 0956 | 0490 | 0024 | 9558 | 9092 | 8626 | 8160 | 7693 | 7227 | 6760 | 6294 | 5827 | 5360 | 11 | 6 | 1185 |
| 413 | 7 | 2931 | 2105 | 1999 | 1534 | 1068 | 0602 | 0136 | 9670 | 9204 | 8737 | 8271 | 7805 | 7338 | 6872 | 6405 | 5938 | 5472 | 13 | 7 | 1299 |
| 405 | 8 | 3013 | 2577 | 2111 | 1646 | 1180 | 0714 | 0248 | 9781 | 9315 | 8849 | 8383 | 7916 | 7450 | 6983 | 6516 | 6050 | 5583 | 15 | 8 | 1412 |
| 397 | 9 | 3155 | 2689 | 2223 | 1757 | 1291 | 0825 | 0359 | 9893 | 9427 | 0960 | 8494 | 8027 | 7561 | 7094 | 6628 | 6161 | 5694 | 17 | 9 | 1525 |
| 390 | 18 | 1 (0) 3267 | 2801 | 2335 | 1869 | 1403 | 0937 | 0471 | 0005 | 9538 | 9072 | 8605 | 8139 | 7672 | 7205 | 6739 | 6272 | 5805 | 19 | 10 | 2 1638 |
| 382 | 11 | 3379 | 2913 | 2447 | 1981 | 1515 | 1049 | 0582 | 0116 | 9650 | 9183 | 8717 | 8250 | 7783 | 7316 | 6850 | 6383 | 5916 | 20 | 11 | 1750 |
| 374 | 12 | 3490 | 3021 | 2550 | 2092 | 1626 | 1160 | 0694 | 0227 | 9701 | 9294 | 8828 | 8361 | 7891 | 7427 | 6961 | 6494 | 6027 | 22 | 12 | 1063 |
| 366 | 13 | 3602 | 3136 | 2670 | 2201 | 1738 | 1271 | 0885 | 0339 | 9872 | 9406 | 8939 | 8472 | 8005 | 7538 | 7071 | 6601 | 6137 | 24 | 13 | 1976 |
| 358 | 14 | 3713 | 3247 | 2781 | 2315 | 1849 | 1303 | 0916 | 0450 | 9983 | 9517 | 9050 | 8583 | 8116 | 7649 | 7182 | 6715 | 6248 | 26 | 14 | 2088 |
| 351 | 15 | 1 (0) 3825 | 3359 | 2893 | 2426 | 1960 | 1494 | 1027 | 0561 | 0094 | 9628 | 9161 | 8694 | 8227 | 7760 | 7293 | 6826 | 6359 | 28 | 15 | 2 2201 |
| 343 | 15 | 3936 | 3470 | 3804 | 2538 | 2071 | 1605 | 1138 | 0672 | 0205 | 9738 | 9272 | 8805 | 8338 | 7871 | 7404 | 6936 | 6469 | 30 | 16 | 2313 |
| 335 | 17 | 4018 | 3582 | 3115 | 2649 | 2182 | 1716 | 1249 | 0783 | 0316 | 9819 | 9382 | 8916 | 8448 | 7981 | 7514 | 7047 | 6579 | 32 | 17 | 2426 |
| 327 | 18 | 4159 | 3693 | 3226 | 2760 | 2293 | 1827 | 1360 | 0894 | 0427 | 9960 | 9493 | 9026 | 8559 | 8092 | 7625 | 7157 | 6690 | 33 | 18 | 2538 |
| 319 | 18 | 4270 | 3804 | 3338 | 2871 | 2404 | 1938 | 1471 | 1004 | 0538 | 0071 | 9604 | 9137 | 8670 | 8202 | 7735 | 7268 | 6800 | 35 | 19 | 2650 |
| 312 | 20 | 1 (0) 4381 | 3915 | 3449 | 2982 | 2515 | 2049 | 1582 | 1115 | 0648 | 0181 | 9714 | 9247 | 8780 | 8313 | 7845 | 7378 | 6910 | 37 | 20 | 2 2762 |
| 304 | 21 | 4492 | 4026 | 3560 | 3083 | 2626 | 2160 | 1693 | 1226 | 0759 | 0292 | 9825 | 9358 | 8890 | 8423 | 7956 | 7188 | 7021 | 39 | 21 | 2874 |
| 296 | 22 | 4603 | 4137 | 3678 | 3204 | 2737 | 2270 | 1803 | 1336 | 0869 | 0402 | 9935 | 9468 | 9001 | 8533 | 8066 | 7598 | 7131 | 41 | 22 | 2986 |
| 288 | 23 | 4714 | 4218 | 3781 | 3314 | 2848 | 2381 | 1914 | 1447 | 0980 | 0513 | 0045 | 9578 | 9111 | 8643 | 8176 | 7708 | 7241 | 43 | 23 | 3098 |
| 280 | 24 | 4825 | 4358 | 3892 | 3425 | 2958 | 2491 | 2024 | 1557 | 1090 | 0623 | 0156 | 9688 | 9221 | 8753 | 8286 | 7818 | 7350 | 45 | 24 | 3210 |
| 273 | 25 | 1 (0) 4936 | 4469 | 4002 | 3536 | 3069 | 2602 | 2135 | 1668 | 1200 | 0733 | 0266 | 9799 | 9331 | 8863 | 8396 | 7928 | 7460 | 46 | 25 | 2 3322 |
| 265 | 26 | 5046 | 4580 | 4113 | 3646 | 3179 | 2712 | 2245 | 1778 | 1311 | 0843 | 0376 | 9909 | 9441 | 8973 | 8506 | 8038 | 7570 | 48 | 26 | 3434 |
| 257 | 27 | 5157 | 4690 | 1223 | 3757 | 3290 | 2822 | 2355 | 1888 | 1421 | 0953 | 0486 | 0019 | 9551 | 9083 | 8615 | 8147 | 7680 | 50 | 27 | 3515 |
| 249 | 28 | 5208 | 4801 | 4334 | 3867 | 3400 | 2933 | 2465 | 1998 | 1531 | 1063 | 0596 | 0128 | 9661 | 9193 | 8725 | 8257 | 7789 | 52 | 28 | 3657 |
| 242 | 29 | 5378 | 4911 | 1444 | 3977 | 3510 | 3043 | 2576 | 2108 | 1641 | 1173 | 0706 | 0238 | 9770 | 9303 | 8835 | 8367 | 7899 | 51 | 29 | 3768 |
| 234 | 30 | 1 (0) 5488 | 5021 | 4554 | 4087 | 3620 | 3153 | 2686 | 2218 | 1751 | 1283 | 0816 | 0348 | 9880 | 9112 | 8944 | 8176 | 8008 | 56 | 30 | 2 3880 |
| 226 | 31 | 5599 | 5132 | 4664 | 4197 | 3730 | 3263 | 2796 | 2328 | 1861 | 1393 | 0925 | 0458 | 9990 | 9522 | 9054 | 8506 | 8118 | 58 | 31 | 3991 |
| 218 | 32 | 5709 | 5242 | 4775 | 4307 | 3840 | 3373 | 2905 | 2438 | 1970 | 1503 | 1035 | 0567 | 0099 | 9631 | 9163 | 8695 | 8227 | 59 | 32 | 4102 |
| 210 | 33 | 5819 | 5352 | 4885 | 4417 | 3950 | 3183 | 3015 | 2548 | 2080 | 1612 | 1144 | 0677 | 0209 | 9741 | 9273 | 8804 | 8336 | 01 | 33 | 4213 |
| 203 | 34 | 5229 | 5462 | 4995 | 4527 | 4060 | 3592 | 3125 | 2657 | 2190 | 1722 | 1254 | 0786 | 0318 | 9850 | 9382 | 8914 | 8445 | 03 | 34 | 4324 |
| 195 | 35 | 1 (0) 6039 | 5572 | 5104 | 4637 | 4170 | 3702 | 3234 | 2767 | 2299 | 1831 | 1363 | 0895 | 0427 | 9959 | 9491 | 9023 | 8554 | 65 | 35 | 2 4435 |
| 187 | 36 | 6149 | 5682 | 5214 | 4747 | 1279 | 3812 | 3344 | 2876 | 2408 | 1941 | 1473 | 1005 | 0537 | 0068 | 9600 | 9132 | 8663 | 67 | 36 | 4516 |
| 179 | 37 | 6259 | 5791 | 5324 | 4856 | 4389 | 3921 | 3453 | 2986 | 2518 | 2050 | 1582 | 1114 | 0646 | 0177 | 9709 | 9241 | 8772 | 09 | 37 | 4657 |
| 171 | 38 | 6368 | 5901 | 5433 | 4966 | 1498 | 4031 | 3563 | 3095 | 2627 | 2159 | 1691 | 1223 | 0755 | 0286 | 9818 | 9350 | 8881 | 71 | 38 | 4768 |
| 164 | 39 | 6478 | 6010 | 5543 | 5075 | 1608 | 4140 | 3672 | 3204 | 2736 | 2268 | 1800 | 1332 | 0864 | 0395 | 9927 | 9458 | 8990 | 72 | 38 | 4878 |
| 156 | 40 | 1 (0) 6587 | 6120 | 5652 | 5185 | 4717 | 4249 | 3781 | 3313 | 2845 | 2377 | 1909 | 1441 | 0973 | 0501 | 0036 | 9567 | 9099 | 74 | 40 | 2 4989 |
| 148 | 41 | 6097 | 6229 | 5762 | 5294 | 4826 | 4359 | 3891 | 3422 | 2954 | 2486 | 2018 | 1550 | 1081 | 0613 | 0144 | 9676 | 9207 | 76 | 41 | 5099 |
| 140 | 42 | 6886 | 6339 | 5871 | 5403 | 4936 | 4408 | 4000 | 3531 | 3063 | 2595 | 2127 | 1659 | 1190 | 0722 | 0253 | 9784 | 9316 | 78 | 42 | 5210 |
| 132 | 43 | 6916 | 6448 | 5980 | 5513 | 5045 | 4577 | 4109 | 3640 | 3172 | 2704 | 2236 | 1767 | 1299 | 0830 | 6362 | 9893 | 9424 | 80 | 43 | 5320 |
| 125 | 44 | 7025 | 0557 | 6089 | 5622 | 5154 | 4686 | 4218 | 3749 | 3281 | 2813 | 2344 | 1876 | 1407 | 0939 | 0470 | 0001 | 9532 | 82 | 44 | 5430 |
| 117 | 45 | 1 (0) 7134 | 6660 | 6198 | 5731 | 5263 | 4795 | 4327 | 3858 | 3390 | 2922 | 2453 | 1985 | 1516 | 1047 | 0578 | 0110 | 9641 | 84 | 45 | 2 5541 |
| 109 | 45 | 7243 | 6775 | 6307 | 5840 | 5372 | 4903 | 4435 | 3967 | 3498 | 3830 | 2562 | 2093 | 1624 | 1156 | 0687 | 0218 | 9749 | 85 | 45 | 5651 |
| 101 | 47 | 7352 | 6884 | 6416 | 5948 | 5480 | 5012 | 4544 | 4076 | 3607 | 3139 | 2670 | 2201 | 1733 | 1264 | 0795 | 0326 | 9857 | 87 | 47 | 5761 |
| 93 | 40 | 7461 | 0993 | 6525 | 6057 | 5589 | 5121 | 4653 | 4184 | 3716 | 3247 | 2778 | 2310 | 1841 | 1372 | 0903 | 0434 | 9965 | 89 | 40 | 5871 |
| 86 | 49 | 1 7570 | 7102 | 6634 | 6166 | 5698 | 5229 | 4761 | 4293 | 3824 | 3355 | 2887 | 2418 | 1949 | 1480 | 1011 | 0542 | 0073 | 91 | 49 | 5980 |
| 78 | 50 | 1 7679 | 7211 | 6743 | 6275 | 5806 | 5338 | 4870 | 4401 | 3932 | 3464 | 2995 | 2526 | 2057 | 1588 | 1119 | 0650 | 0181 | 93 | 58 | 2 6090 |
| 70 | 51 | 7787 | 7320 | 6851 | 6383 | 5915 | 5446 | 4978 | 4509 | 4041 | 3572 | 3103 | 2634 | 2165 | 1696 | 1227 | 0758 | 0289 | 25 | 51 | 6200 |
| 62 | 52 | 7896 | 7428 | 6950 | 6492 | 6023 | 5555 | 5086 | 4618 | 4149 | 3680 | 3211 | 2742 | 2273 | 1804 | 1335 | 0866 | 0397 | 97 | 52 | 6310 |
| 55 | 53 | 8005 | 7537 | 7068 | 6600 | 6132 | 5663 | 5194 | 4726 | 4257 | 3788 | 3319 | 2850 | 2381 | 1912 | 1443 | 0974 | 0504 | 98 | 53 | 0119 |
| 47 | 54 | 8113 | 7645 | 7177 | 6708 | 6240 | 5771 | 5303 | 4834 | 4365 | 3896 | 3427 | 2958 | 2489 | 2020 | 1551 | 1881 | 0012 | 100 | 54 | 6529 |
| 39 | 56 | 1 8222 | 7753 | 7285 | 6817 | 6348 | 5879 | 5411 | 4942 | 4473 | 4004 | 3535 | 3066 | 2597 | 2128 | 1658 | 1189 | 0719 | 102 | 55 | 2 6638 |
| 31 | 56 | 8330 | 7862 | 7393 | 6925 | 6456 | 5987 | 5519 | 5030 | 4581 | 4112 | 3643 | 3174 | 2705 | 2235 | 1765 | 1296 | 8827 | 104 | 56 | 6747 |
| 23 | 57 | 8438 | 7970 | 7501 | 7833 | 6564 | 6025 | 5627 | 5158 | 4689 | 4220 | 3751 | 3281 | 2812 | 2343 | 1873 | 1404 | 8934 | 186 | 57 | 6857 |
| 16 | 58 | 8546 | 8078 | 7609 | 7141 | 6672 | 6203 | 5734 | 5265 | 4797 | 4327 | 3858 | 3389 | 2920 | 2450 | 1981 | 1511 | 1042 | 108 | 58 | 6966 |
| 8 | 58 | 8655 | 8186 | 7717 | 7249 | 6780 | 6311 | 5842 | 5373 | 4904 | 4435 | 3966 | 3496 | 3027 | 2558 | 2088 | 1618 | 1149 | 110 | 62 | 7075 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancis aparente. . . . . } y el Argumento Auxiliar. | Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 158° | | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 158° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 476 | 6' | 2 (1) | 6717 | 6249 | 5782 | 5315 | 4847 | 4386 | 3912 | 3444 | 2976 | 2508 | 2641 | 1573 | 1164 | 2632 | 2162 | 9765 | 9231 | 111 | 0' | 7 9382 |
| 462 | 1 | | 6826 | 6358 | 5891 | 5423 | 4956 | 4488 | 4620 | 3553 | 3685 | 2617 | 2149 | 1681 | 1213 | 0744 | 0276 | 9828 | 9339 | 115 | 1 | 9268 |
| 454 | 2 | | 6934 | 6467 | 6000 | 5532 | 5064 | 4597 | 4129 | 3661 | 3123 | 2725 | 2257 | 1782 | 1321 | 0852 | 0384 | 9912 | 9447 | 158 | 2 | 9154 |
| 446 | 3 | | 7943 | 6576 | 6168 | 5641 | 5173 | 4705 | 4237 | 3759 | 3301 | 2833 | 2365 | 1897 | 1429 | 0960 | 0492 | 0524 | 9555 | 106 | 3 | 9641 |
| 436 | 4 | | 7152 | 6684 | 6217 | 5749 | 5281 | 4814 | 4346 | 3672 | 3410 | 2242 | 2473 | 2605 | 1537 | 1268 | 0520 | 0131 | 9663 | 104 | 4 | 6928 |
| 436 | 5 | 2 (1) | 7260 | 6793 | 6325 | 5858 | 5390 | 4922 | 4434 | 3986 | 3518 | 3050 | 2581 | 2113 | 1645 | 1176 | 6708 | 0232 | 9770 | 162 | 6 | 7 8816 |
| 423 | 6 | | 7369 | 6901 | 6434 | 5966 | 5498 | 5636 | 4562 | 4094 | 3626 | 3158 | 2689 | 2221 | 1753 | 1284 | 0815 | 6347 | 9878 | 120 | 6 | 8701 |
| 415 | 7 | | 7477 | 7610 | 6542 | 6674 | 5666 | 5138 | 4679 | 4202 | 3734 | 3266 | 2797 | 2329 | 1860 | 1392 | 0923 | 6454 | 9985 | 99 | 7 | 6582 |
| 467 | 8 | 2 | 7586 | 7118 | 2652 | 2182 | 5714 | 5246 | 4778 | 4310 | 3642 | 3373 | 2905 | 2437 | 1968 | 1499 | 1631 | 0562 | 0593 | 97 | 8 | 8475 |
| 399 | 9 | | 7694 | 7226 | 6758 | 6296 | 5822 | 5354 | 4886 | 4418 | 3956 | 3481 | 3013 | 2544 | 2575 | 1657 | 1138 | 0662 | 0220 | 95 | 9 | 8362 |
| 391 | 10 | 2 | 7802 | 7334 | 6866 | 6398 | 5935 | 5462 | 4994 | 4526 | 4057 | 3589 | 3120 | 2652 | 2183 | 1714 | 1245 | 0777 | 0328 | 93 | 16 | 7 8250 |
| 383 | 11 | | 7910 | 7442 | 6974 | 6506 | 6038 | 5570 | 5102 | 4633 | 4165 | 3696 | 3228 | 2759 | 2291 | 1622 | 1353 | 0884 | 0415 | 91 | 11 | 8137 |
| 376 | 12 | | 8618 | 7550 | 7682 | 6614 | 6146 | 5278 | 5209 | 4741 | 4272 | 3604 | 3335 | 2627 | 2398 | 1929 | 1460 | 0221 | 0522 | 89 | 12 | 8624 |
| 368 | 13 | | 8126 | 7658 | 7190 | 6722 | 6254 | 5785 | 5317 | 4848 | 4380 | 3911 | 3443 | 2974 | 2505 | 2536 | 1567 | 1098 | 0629 | 88 | 13 | 7912 |
| 360 | 44 | | 8234 | 7766 | 7298 | 6830 | 6361 | 5893 | 5424 | 4956 | 4487 | 4619 | 3550 | 3681 | 2642 | 2113 | 1574 | 1205 | 6736 | 86 | 14 | 7792 |
| 352 | 15 | 2 | 8342 | 7873 | 7405 | 6937 | 6469 | 6605 | 5532 | 5063 | 4595 | 4126 | 3657 | 3188 | 2719 | 2250 | 1781 | 1312 | 6843 | 64 | 15 | 7 7687 |
| 344 | 16 | | 8449 | 7981 | 7513 | 7045 | 6576 | 2108 | 5639 | 5171 | 4702 | 4233 | 3764 | 3295 | 2826 | 2357 | 1888 | 1419 | 6950 | 82 | 16 | 7574 |
| 336 | 17 | | 8557 | 8089 | 7621 | 7152 | 6684 | 6215 | 5747 | 5278 | 4809 | 4340 | 3871 | 3402 | 2933 | 2464 | 1995 | 1526 | 1956 | 86 | 17 | 7462 |
| 329 | 18 | | 8665 | 8196 | 7728 | 7259 | 6791 | 6322 | 5854 | 5385 | 4916 | 4447 | 3978 | 3509 | 3645 | 2571 | 2152 | 1633 | 1163 | 78 | 18 | 7356 |
| 321 | 19 | | 8772 | 8304 | 7835 | 7367 | 6898 | 6436 | 5961 | 5492 | 5623 | 4554 | 4585 | 3616 | 3147 | 2678 | 2259 | 1732 | 1272 | 76 | 19 | 7238 |
| 313 | 26 | 2 | 8879 | 8411 | 7943 | 7474 | 7005 | 6537 | 6068 | 5599 | 5130 | 4661 | 4192 | 3723 | 3254 | 2785 | 2315 | 1846 | 1375 | 74 | 26 | 7 7126 |
| 365 | 21 | | 8987 | 8518 | 8056 | 7581 | 7112 | 6644 | 6175 | 5766 | 5237 | 4768 | 4299 | 3835 | 3351 | 2691 | 2422 | 1252 | 1463 | 72 | 21 | 7214 |
| 297 | 22 | | 9094 | 8625 | 8157 | 7688 | 7219 | 6751 | 6282 | 5813 | 5344 | 4875 | 4406 | 3936 | 3467 | 2998 | 2528 | 2659 | 1589 | 71 | 22 | 6962 |
| 290 | 23 | | 9201 | 8732 | 8264 | 7795 | 7326 | 6658 | 6389 | 5926 | 5451 | 4961 | 4512 | 4243 | 3574 | 3104 | 2635 | 2165 | 1695 | 69 | 23 | 6792 |
| 282 | 24 | | 9368 | 8839 | 8371 | 7962 | 7433 | 6964 | 6195 | 6026 | 5537 | 5688 | 4619 | 4142 | 3680 | 3211 | 2741 | 2271 | 1822 | 67 | 24 | 6676 |
| 274 | 25 | 2 | 9415 | 8946 | 8478 | 8009 | 7540 | 7071 | 6602 | 6133 | 5664 | 5195 | 4725 | 4256 | 3786 | 3317 | 2847 | 2377 | 1908 | 65 | 25 | 7 6566 |
| 266 | 26 | | 9522 | 9053 | 8585 | 8115 | 7647 | 7178 | 6759 | 6240 | 5770 | 5361 | 4832 | 4362 | 3893 | 3423 | 2953 | 2483 | 2614 | 63 | 26 | 6455 |
| 256 | 27 | | 9629 | 9160 | 8691 | 8222 | 7753 | 7284 | 6816 | 6346 | 5877 | 5467 | 4938 | 4468 | 3999 | 3529 | 3659 | 2589 | 2120 | 61 | 27 | 6343 |
| 250 | 28 | | 9736 | 9267 | 8798 | 8329 | 7860 | 7391 | 6922 | 6452 | 5983 | 5514 | 5644 | 4575 | 4125 | 3235 | 3165 | 2295 | 2226 | 59 | 28 | 6232 |
| 243 | 29 | | 9842 | 9373 | 8904 | 8435 | 7966 | 7497 | 7028 | 6559 | 6089 | 5620 | 5150 | 4681 | 4211 | 3741 | 3271 | 2801 | 2331 | 66 | 29 | 6120 |
| 235 | 36 | 2 | 9949 | 9480 | 9011 | 8542 | 8073 | 7604 | 7134 | 6665 | 6195 | 5726 | 5256 | 4787 | 4317 | 3847 | 3377 | 2907 | 2437 | 66 | 30 | 7 6002 |
| 227 | 31 | 3 (2) | 0055 | 9586 | 9117 | 8648 | 8179 | 7710 | 7240 | 6771 | 6361 | 5832 | 5362 | 4893 | 4423 | 3953 | 3483 | 3613 | 2543 | 54 | 31 | 5892 |
| 219 | 32 | | 0162 | 9693 | 9224 | 8755 | 8285 | 7816 | 7347 | 6877 | 6467 | 5938 | 5468 | 4998 | 4529 | 4659 | 3589 | 3119 | 2648 | 52 | 32 | 5787 |
| 211 | 33 | | 6268 | 9799 | 9330 | 8861 | 8391 | 7922 | 7453 | 6983 | 6513 | 6644 | 5574 | 5104 | 4634 | 4161 | 3694 | 3224 | 2754 | 60 | 33 | 5676 |
| 203 | 34 | | 6374 | 9965 | 9436 | 8967 | 8497 | 8628 | 7559 | 7689 | 6619 | 6150 | 5680 | 5210 | 4740 | 4270 | 3820 | 3336 | 2859 | 48 | 34 | 5565 |
| 196 | 35 | 3 (2) | 0481 | 0011 | 9542 | 9073 | 8603 | 8134 | 7664 | 7195 | 6725 | 6255 | 5705 | 5316 | 4845 | 4375 | 3905 | 3435 | 2965 | 47 | 35 | 7 5454 |
| 188 | 36 | | 6587 | 0117 | 9648 | 9179 | 8709 | 8240 | 7772 | 7361 | 6831 | 6361 | 5691 | 5421 | 4951 | 4481 | 4611 | 3546 | 3970 | 45 | 36 | 5343 |
| 180 | 37 | | 0693 | 0223 | 9754 | 9285 | 8815 | 8346 | 7876 | 7466 | 5936 | 6467 | 5997 | 5527 | 5656 | 4566 | 4116 | 3642 | 3175 | 43 | 37 | 6232 |
| 172 | 38 | | 6799 | 0329 | 9866 | 9391 | 8921 | 6451 | 7982 | 7512 | 7642 | 6572 | 6162 | 5632 | 5162 | 4621 | 4221 | 3751 | 3280 | 41 | 38 | 5122 |
| 164 | 39 | | 6965 | 0435 | 9966 | 9496 | 9027 | 8557 | 8087 | 7617 | 7147 | 6677 | 6207 | 5737 | 5267 | 4797 | 4326 | 3056 | 3365 | 39 | 39 | 5011 |
| 157 | 48 | 3 (2) | 1010 | 0541 | 9072 | 9602 | 9132 | 8663 | 8193 | 7723 | 7253 | 6783 | 6313 | 5842 | 5372 | 4952 | 4431 | 3961 | 3490 | 37 | 46 | 7 4991 |
| 149 | 41 | | 1116 | 5647 | 0177 | 9708 | 9238 | 8768 | 8298 | 7628 | 7358 | 6888 | 6418 | 5248 | 5477 | 5207 | 4536 | 4666 | 3595 | 35 | 41 | 4790 |
| 141 | 42 | | 1222 | 0752 | 0283 | 9813 | 9343 | 8873 | 8493 | 7933 | 7463 | 6293 | 6523 | 6053 | 5582 | 5112 | 4641 | 4171 | 3720 | 33 | 42 | 4686 |
| 133 | 43 | | 1327 | 6858 | 0388 | 9918 | 9449 | 8979 | 8509 | 8939 | 7569 | 7098 | 6628 | 6158 | 5687 | 5217 | 4746 | 4275 | 3865 | 32 | 43 | 4579 |
| 125 | 44 | | 1433 | 0963 | 0494 | 0024 | 9554 | 9684 | 8614 | 8144 | 7674 | 7293 | 6733 | 6263 | 5792 | 5321 | 4851 | 4386 | 3229 | 30 | 44 | 4459 |
| 117 | 45 | 3 (2) | 1538 | 1069 | 0599 | 0129 | 9659 | 9189 | 8719 | 8249 | 7778 | 7308 | 6638 | 6367 | 5897 | 5426 | 4955 | 4485 | 4014 | 28 | 45 | 7 4349 |
| 116 | 45 | | 1644 | 1174 | 6704 | 0234 | 9764 | 9294 | 8824 | 8354 | 7883 | 7413 | 6243 | 6472 | 6661 | 5531 | 5060 | 4589 | 4118 | 26 | 46 | 4239 |
| 162 | 47 | | 1749 | 1279 | 0809 | 0339 | 9869 | 9399 | 8929 | 8459 | 7988 | 7518 | 7047 | 6577 | 6195 | 5535 | 5164 | 4694 | 4223 | 24 | 47 | 4129 |
| 94 | 48 | | 1854 | 1384 | 0914 | 0444 | 9974 | 9504 | 9234 | 8563 | 0693 | 7623 | 7152 | 6681 | 6211 | 5740 | 5269 | 4798 | 4327 | 22 | 46 | 4026 |
| 66 | 49 | | 1959 | 1489 | 1019 | 0549 | 0979 | 9602 | 9139 | 8568 | 8198 | 7727 | 7257 | 6786 | 6315 | 5844 | 5373 | 4962 | 4431 | 20 | 42 | 3916 |
| 78 | 56 | 3 (2) | 2064 | 1594 | 1124 | 0654 | 8184 | 9713 | 9243 | 8773 | 8302 | 7832 | 7361 | 6890 | 6420 | 5949 | 5478 | 5007 | 4535 | 19 | 50 | 7 3860 |
| 76 | 51 | | 2169 | 1699 | 1229 | 0759 | 0289 | 9818 | 9348 | 8877 | 8407 | 7936 | 7465 | 6995 | 6524 | 6053 | 5582 | 5111 | 4639 | 17 | 51 | 3696 |
| 63 | 52 | | 2274 | 1804 | 1334 | 9864 | 0393 | 9923 | 9452 | 8982 | 8511 | 8041 | 7576 | 7099 | 6628 | 6157 | 5606 | 5215 | 4743 | 16 | 52 | 3581 |
| 55 | 63 | | 2379 | 1909 | 1438 | 0968 | 6498 | 6027 | 9557 | 9686 | 8616 | 6145 | 7674 | 7203 | 6732 | 6261 | 5790 | 5319 | 4847 | 13 | 53 | 3471 |
| 47 | 54 | | 2483 | 2013 | 1543 | 1973 | 6602 | 9131 | 2661 | 2121 | 8725 | 8249 | 7778 | 7367 | 6835 | 2365 | 5894 | 5423 | 4951 | 11 | 54 | 3362 |
| 39 | 55 | 3 (2) | 2588 | 2118 | 1648 | 1177 | 5767 | 0236 | 2766 | 9295 | 8824 | 8353 | 7082 | 7411 | 6945 | 6469 | 5298 | 5526 | 5055 | 9 | 55 | 7 3253 |
| 31 | 56 | | 2693 | 2222 | 1752 | 1282 | 9811 | 5342 | 9670 | 2392 | 6928 | 8457 | 7286 | 7515 | 7944 | 2573 | 6102 | 5636 | 5159 | 7 | 56 | 3143 |
| 24 | 67 | | 2797 | 2327 | 1856 | 1386 | 0915 | 2445 | 9974 | 9563 | 2032 | 6561 | 8625 | 7612 | 7148 | 2677 | 6255 | 5734 | 5263 | 6 | 67 | 3034 |
| 16 | 58 | | 2962 | 2431 | 1961 | 1496 | 1220 | 6549 | 6278 | 9667 | 2136 | 6565 | 0124 | 7723 | 7252 | 6700 | 6302 | 5835 | 5355 | 4 | 66 | 2925 |
| 8 | 52 | | 3006 | 2535 | 2065 | 1594 | 1124 | 0653 | 5182 | 9711 | 9246 | 0762 | 8298 | 7827 | 7355 | 6884 | 6413 | 5941 | 5469 | 2 | 59 | 2816 |

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**Tabla X.** Número I para la suma de alturas aparentes } y Número III para la distancia aparente. . . . . } y el Argumento Auxiliar. — Num. IV para hallar la distancia corregida.

| Partes para segundos del Arg. Auxiliar | 158° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 158° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 471 | 0′ | 1 | 8763 | 8294 | 7825 | 7357 | 6888 | 6419 | 5950 | 5481 | 5912 | 4542 | 4873 | 3604 | 3134 | 2665 | 2195 | 1726 | 1256 | 0 | 0′ | 2 7184 |
| 453 | 1 | | 8871 | 8402 | 7933 | 7464 | 6905 | 6527 | 6057 | 5588 | 5119 | 4650 | 4181 | 3711 | 3242 | 2772 | 0300 | 1833 | 1363 | 2 | 1 | 7293 |
| 455 | 2 | | 8978 | 8510 | 8041 | 7579 | 7103 | 6634 | 6165 | 5696 | 5227 | 4757 | 4288 | 3818 | 3349 | 2879 | 2410 | 1940 | 1470 | 4 | 2 | 7401 |
| 447 | 3 | | 0086 | 8617 | 8140 | 7880 | 7211 | 6742 | 6273 | 5803 | 5334 | 4865 | 4395 | 3926 | 3456 | 2986 | 2517 | 2047 | 1577 | 5 | 3 | 7510 |
| 439 | 4 | | 9194 | 8728 | 8257 | 7787 | 7318 | 6849 | 6380 | 5011 | 5441 | 4979 | 4502 | 4033 | 3563 | 3093 | 2624 | 2134 | 1684 | 7 | 4 | 7619 |
| 431 | 5 | 1 | 9302 | 8833 | 8364 | 7895 | 7426 | 6956 | 6487 | 6018 | 5548 | 5079 | 4809 | 4140 | 3670 | 3200 | 2730 | 9280 | 1790 | 9 | 5 | 2 7728 |
| 423 | 8 | | 9400 | 8940 | 8472 | 8002 | 7533 | 7064 | 6594 | 6125 | 5656 | 5186 | 4716 | 4247 | 3777 | 3387 | 2837 | 2367 | 1897 | 11 | 6 | 7036 |
| 416 | 7 | | 9517 | 9048 | 8579 | 8109 | 7648 | 7171 | 8701 | 6232 | 5763 | 5293 | 4893 | 4354 | 3804 | 3414 | 2944 | 2474 | 2004 | 12 | 7 | 7945 |
| 498 | 6 | | 9624 | 9155 | 8686 | 8217 | 7747 | 7278 | 6809 | 6339 | 5079 | 5480 | 4930 | 4480 | 3990 | 3520 | 3050 | 2588 | 2110 | 14 | 8 | 8053 |
| 400 | 9 | | 9731 | 9069 | 8793 | 8324 | 7854 | 7385 | 6916 | 6446 | 5976 | 5507 | 5037 | 4567 | 4097 | 3627 | 3157 | 2887 | 2217 | 16 | 9 | 8161 |
| 392 | 10 | 1 | 9839 | 9369 | 8908 | 8431 | 7961 | 7400 | 7023 | 6553 | 6083 | 5613 | 8144 | 4674 | 4204 | 3734 | 3263 | 2793 | 2323 | 10 | 10 | 2 8270 |
| 384 | 11 | | 9948 | 9476 | 9007 | 8538 | 8068 | 7509 | 7129 | 6660 | 6190 | 5728 | 5250 | 4780 | 4310 | 3848 | 3370 | 2900 | 2429 | 19 | 11 | 8378 |
| 377 | 12 | 2 (1) | 8053 | 0583 | 9114 | 8545 | 8175 | 7706 | 7236 | 6786 | 6297 | 5827 | 3357 | 4887 | 4417 | 3946 | 3476 | 3006 | 2535 | 01 | 12 | 8486 |
| 369 | 13 | | 8160 | 9690 | 9221 | 8752 | 8282 | 7812 | 7343 | 6873 | 6403 | 5933 | 5463 | 4993 | 4523 | 4053 | 3589 | 3112 | 0642 | 23 | 13 | 6594 |
| 361 | 14 | | 8267 | 9707 | 9328 | 8858 | 8389 | 7919 | 7449 | 6980 | 6510 | 6840 | 5570 | 5099 | 4629 | 4159 | 3689 | 3218 | 2748 | 05 | 14 | 3700 |
| 353 | 15 | 2 (1) | 8374 | 9904 | 9435 | 8965 | 8495 | 8026 | 7556 | 7086 | 6616 | 6146 | 5876 | 5206 | 4735 | 4265 | 3795 | 3324 | 2854 | 27 | 15 | 2 8810 |
| 345 | 16 | | 8400 | 0011 | 9541 | 9072 | 8882 | 8132 | 7662 | 7192 | 6722 | 6252 | 5782 | 5312 | 4042 | 4371 | 3901 | 3430 | 2960 | 28 | 16 | 8917 |
| 337 | 17 | | 8587 | 0110 | 9648 | 9178 | 0708 | 8239 | 7789 | 7299 | 6029 | 8358 | 5888 | 5418 | 4948 | 4477 | 4007 | 3538 | 3865 | 30 | 17 | 9025 |
| 320 | 18 | | 0694 | 0224 | 9754 | 9265 | 8815 | 8345 | 7875 | 7408 | 6935 | 8463 | 5094 | 5524 | 5054 | 4583 | 4113 | 3642 | 3171 | 32 | 18 | 9133 |
| 322 | 19 | | 0808 | 0331 | 9061 | 9391 | 8921 | 8451 | 7981 | 7511 | 7941 | 6571 | 6100 | 5638 | 5160 | 4689 | 4218 | 3748 | 3277 | 34 | 19 | 9240 |
| 314 | 20 | 2 (1) | 0907 | 0437 | 9967 | 9497 | 9927 | 8557 | 8087 | 7617 | 7147 | 6677 | 6206 | 5736 | 5265 | 4795 | 4324 | 3853 | 3389 | 35 | 20 | 2 9348 |
| 306 | 21 | | 1013 | 0543 | 8074 | 9604 | 9134 | 8663 | 8193 | 7723 | 7953 | 6783 | 6312 | 5842 | 5371 | 4900 | 4430 | 3959 | 3488 | 37 | 21 | 9455 |
| 298 | 22 | | 1119 | 0650 | 0180 | 9710 | 9240 | 8769 | 8299 | 7829 | 7359 | 6888 | 6410 | 5947 | 5477 | 5086 | 4535 | 4064 | 3593 | 39 | 22 | 9562 |
| 290 | 23 | | 1226 | 8756 | 0286 | 9816 | 9346 | 8875 | 8405 | 7935 | 7465 | 6904 | 6524 | 6053 | 5582 | 5111 | 4641 | 4170 | 3699 | 41 | 23 | 9669 |
| 282 | 24 | | 1332 | 8869 | 0392 | 9922 | 9452 | 8981 | 8511 | 8041 | 7570 | 7100 | 6629 | 6159 | 5688 | 5217 | 4748 | 4275 | 3804 | 43 | 24 | 9776 |
| 275 | 25 | 2 (1) | 1438 | 9968 | 8498 | 0828 | 9557 | 9087 | 8617 | 8146 | 7676 | 7205 | 6735 | 6264 | 8793 | 5322 | 4851 | 4380 | 3909 | 44 | 25 | 2 9883 |
| 267 | 26 | | 1544 | 1074 | 9604 | 0133 | 9683 | 9193 | 8723 | 8252 | 7782 | 7311 | 6840 | 6369 | 5899 | 5428 | 4957 | 4485 | 4014 | 46 | 28 | 9990 |
| 259 | 27 | | 1658 | 1100 | 0789 | 0239 | 9769 | 9299 | 8828 | 8358 | 7887 | 7416 | 6945 | 6475 | 6004 | 5533 | 5062 | 4590 | 4119 | 48 | 27 | 3 0097 |
| 251 | 28 | | 1756 | 1285 | 8815 | 0345 | 9075 | 9404 | 8934 | 8463 | 7992 | 7522 | 7051 | 6580 | 6109 | 5638 | 5187 | 4695 | 4224 | 50 | 28 | 0904 |
| 243 | 29 | | 1861 | 1391 | 0921 | 9451 | 9980 | 9610 | 9039 | 8560 | 8098 | 7627 | 7136 | 6885 | 6214 | 5743 | 5072 | 4000 | 4329 | 51 | 29 | 0311 |
| 235 | 30 | 2 (1) | 1987 | 1497 | 1026 | 9555 | 0086 | 9615 | 9144 | 8674 | 8203 | 7732 | 7261 | 6790 | 6319 | 5848 | 5377 | 4905 | 4434 | 53 | 30 | 3 0418 |
| 227 | 31 | | 2073 | 1802 | 1132 | 0680 | 0191 | 9720 | 9050 | 8779 | 8308 | 7837 | 7366 | 6895 | 6424 | 5953 | 5482 | 5010 | 4539 | 55 | 31 | 0524 |
| 220 | 32 | | 2178 | 1708 | 1237 | 0787 | 0296 | 9896 | 9355 | 0884 | 8413 | 7942 | 7471 | 7000 | 6529 | 6058 | 5588 | 5115 | 4643 | 57 | 32 | 0631 |
| 212 | 33 | | 2284 | 1813 | 1343 | 8872 | 0401 | 9931 | 9480 | 8989 | 8518 | 8047 | 7676 | 7105 | 6634 | 6162 | 5691 | 5220 | 4748 | 59 | 33 | 0737 |
| 204 | 34 | | 2389 | 1918 | 1448 | 0977 | 0507 | 0036 | 9565 | 9094 | 6623 | 8152 | 7681 | 7210 | 6730 | 6287 | 5796 | 5304 | 4853 | 60 | 34 | 0843 |
| 196 | 35 | 2 (1) | 2494 | 2024 | 1553 | 1082 | 0612 | 0141 | 9670 | 9199 | 8728 | 8257 | 7786 | 7314 | 6843 | 6372 | 5900 | 5429 | 4957 | 62 | 35 | 3 0950 |
| 188 | 36 | | 2599 | 2129 | 1858 | 1187 | 0717 | 8246 | 0775 | 9304 | 8833 | 8362 | 7890 | 7419 | 6948 | 6476 | 6095 | 5533 | 5061 | 64 | 36 | 1056 |
| 180 | 37 | | 2794 | 2234 | 1763 | 1992 | 0822 | 0351 | 9880 | 9409 | 8038 | 8466 | 7995 | 7504 | 7052 | 6501 | 6109 | 5638 | 5166 | 66 | 37 | 1162 |
| 173 | 38 | | 2810 | 2339 | 1868 | 1397 | 0927 | 0456 | 9984 | 9513 | 9042 | 8571 | 8100 | 7628 | 7157 | 6685 | 6213 | 5742 | 5270 | 67 | 38 | 1268 |
| 165 | 39 | | 2915 | 2444 | 1973 | 1502 | 1831 | 0560 | 0089 | 9616 | 9147 | 8675 | 8204 | 7733 | 7261 | 6789 | 8318 | 5846 | 5374 | 69 | 39 | 1374 |
| 157 | 40 | 2 (1) | 3000 | 2549 | 2078 | 1607 | 1136 | 0865 | 0194 | 9722 | 0251 | 8788 | 8308 | 7837 | 7365 | 6893 | 6422 | 5050 | 5478 | 71 | 49 | 3 1480 |
| 149 | 41 | | 3194 | 2654 | 2183 | 1712 | 1241 | 0769 | 0208 | 9827 | 9356 | 8884 | 0413 | 7941 | 7469 | 6997 | 6526 | 6054 | 5582 | 73 | 41 | 1586 |
| 141 | 42 | | 3229 | 2758 | 2287 | 1818 | 1345 | 0874 | 0403 | 9931 | 9469 | 8988 | 8517 | 8045 | 7573 | 7101 | 8639 | 6158 | 5686 | 75 | 42 | 1691 |
| 133 | 43 | | 3334 | 0863 | 2392 | 1991 | 1450 | 0978 | 0507 | 9036 | 9564 | 9093 | 8621 | 8149 | 7677 | 7205 | 6734 | 6262 | 5790 | 76 | 43 | 1797 |
| 125 | 44 | | 3438 | 2067 | 9496 | 2925 | 1554 | 1083 | 9611 | 9140 | 9688 | 9197 | 8725 | 8253 | 7781 | 7309 | 8838 | 6365 | 5893 | 78 | 44 | 1902 |
| 110 | 45 | 2 (1) | 3543 | 3072 | 2601 | 9129 | 1658 | 1187 | 0715 | 0044 | 9772 | 9301 | 8829 | 8357 | 7885 | 7413 | 6941 | 6469 | 5997 | 00 | 48 | 3 2008 |
| 110 | 46 | | 3647 | 3178 | 2705 | 2234 | 1762 | 1291 | 0819 | 0348 | 9876 | 9405 | 8033 | 8461 | 7982 | 7517 | 7845 | 6573 | 6101 | 82 | 46 | 2113 |
| 102 | 47 | | 3752 | 3280 | 2809 | 9338 | 1858 | 1395 | 0923 | 9452 | 9980 | 9509 | 9037 | 8565 | 8093 | 7621 | 7149 | 8676 | 6204 | 83 | 47 | 2219 |
| 94 | 48 | | 3855 | 3388 | 2913 | 2442 | 1970 | 1499 | 1027 | 9556 | 0084 | 9812 | 9141 | 8668 | 0196 | 7724 | 7252 | 6780 | 6307 | 85 | 48 | 2324 |
| 86 | 49 | | 3280 | 3489 | 3017 | 2545 | 2974 | 1803 | 1131 | 9660 | 0188 | 9716 | 9244 | 8772 | 0300 | 7828 | 7358 | 6083 | 8411 | 87 | 40 | 2429 |
| 76 | 50 | 2 (1) | 4064 | 3593 | 3121 | 2850 | 9178 | 1707 | 1035 | 9783 | 0290 | 9820 | 9348 | 8876 | 8404 | 7931 | 7459 | 6987 | 6514 | 89 | 50 | 3 9534 |
| 71 | 61 | | 4188 | 3697 | 3228 | 2754 | 2282 | 1811 | 1330 | 0867 | 0395 | 9923 | 9451 | 8979 | 8507 | 8035 | 7562 | 7090 | 5617 | 91 | 51 | 2639 |
| 63 | 62 | | 4272 | 3801 | 3329 | 2858 | 2386 | 1914 | 1443 | 0971 | 0499 | 0027 | 9555 | 9083 | 0610 | 8138 | 7666 | 7193 | 6720 | 92 | 52 | 2744 |
| 55 | 53 | | 4378 | 3905 | 3433 | 9962 | 2490 | 9018 | 1546 | 1074 | 0602 | 0139 | 9650 | 0186 | 8714 | 8241 | 7789 | 7996 | 6823 | 94 | 53 | 2849 |
| 47 | 54 | | 4480 | 4008 | 3537 | 3065 | 9593 | 2192 | 1850 | 1178 | 0706 | 0234 | 9761 | 9289 | 8817 | 8344 | 7879 | 7399 | 6926 | 96 | 54 | 2954 |
| 39 | 55 | 2 (1) | 4584 | 4112 | 3840 | 3169 | 2697 | 2225 | 1753 | 1281 | 0809 | 0337 | 9865 | 9392 | 8920 | 8447 | 7978 | 7509 | 7029 | 98 | 55 | 3 3058 |
| 31 | 56 | | 4687 | 4216 | 3744 | 3272 | 2809 | 9328 | 1856 | 1384 | 0912 | 0440 | 9288 | 9495 | 9023 | 8550 | 0078 | 7505 | 7132 | 99 | 56 | 3163 |
| 24 | 57 | | 4791 | 4319 | 3847 | 3376 | 2984 | 2432 | 1980 | 1468 | 1015 | 0543 | 0071 | 9590 | 0126 | 8653 | 8180 | 7708 | 7235 | 101 | 67 | 3287 |
| 16 | 58 | | 4894 | 4423 | 3251 | 3479 | 3007 | 2535 | 2063 | 1591 | 1110 | 0646 | 0174 | 0701 | 0229 | 8756 | 8983 | 7810 | 7337 | 103 | 58 | 3372 |
| 8 | 80 | | 4998 | 4526 | 4054 | 3582 | 3110 | 2638 | 2166 | 1894 | 1991 | 0749 | 0277 | 9804 | 0331 | 8059 | 8386 | 7913 | 7449 | 105 | 59 | 3476 |

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**Tabla X.** Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar. — Núm. II para la suma corregida de alturas.

| Partes para segundos del Arg. Auxiliar. | 159° | Argumento Auxiliar. 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | Partes para segundos. | 159° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 473 | 0' | 3 (2) 3110 | 2640 | 2169 | 1698 | 1228 | 0707 | 0286 | 9815 | 9344 | 8873 | 8402 | 7938 | 7459 | 6988 | 6516 | 6010 | 5373 | 106 | 0' | 7 2707 |
| 465 | 1 | 3214 | 2744 | 2273 | 1802 | 1332 | 0861 | 0390 | 9919 | 9448 | 8977 | 8506 | 8034 | 7563 | 7001 | 6620 | 6148 | 5676 | 103 | 1 | 2390 |
| 437 | 2 | 3310 | 2848 | 2377 | 1906 | 1433 | 0963 | 0494 | 0023 | 9351 | 9880 | 8609 | 8138 | 7666 | 7194 | 6723 | 6251 | 3779 | 103 | 2 | 2498 |
| 440 | 3 | 3422 | 2932 | 2481 | 2010 | 1539 | 1068 | 0507 | 0126 | 9655 | 0184 | 8712 | 8241 | 7769 | 7298 | 6826 | 6354 | 5883 | 101 | 3 | 2381 |
| 441 | 4 | 3326 | 3056 | 2585 | 2114 | 1643 | 1172 | 0701 | 0230 | 9738 | 9287 | 8816 | 8344 | 7073 | 7401 | 6929 | 6457 | 3986 | 99 | 4 | 2272 |
| 433 | 5 | 3 (2) 3630 | 3139 | 2689 | 2218 | 1747 | 1276 | 0804 | 0333 | 9862 | 9390 | 8919 | 8447 | 7076 | 7501 | 7032 | 6560 | 6089 | 96 | 5 | 7 2164 |
| 425 | 6 | 3734 | 3263 | 2792 | 2321 | 1850 | 1379 | 0908 | 0437 | 9965 | 9494 | 9022 | 8351 | 8079 | 7607 | 7135 | 6663 | 6192 | 96 | 6 | 2035 |
| 417 | 7 | 3838 | 3367 | 2896 | 2425 | 1954 | 1482 | 1011 | 0540 | 0068 | 9597 | 9125 | 8654 | 8182 | 7710 | 7238 | 6766 | 6294 | 94 | 7 | 1917 |
| 410 | 8 | 3941 | 3470 | 2999 | 2528 | 2057 | 1386 | 1114 | 0643 | 0172 | 9700 | 9225 | 8757 | 8283 | 7813 | 7341 | 6869 | 6397 | 92 | 8 | 1839 |
| 402 | 9 | 4045 | 3674 | 3103 | 2631 | 2160 | 1689 | 1218 | 0746 | 0276 | 9803 | 9331 | 8860 | 8388 | 7916 | 7444 | 6972 | 6500 | 91 | 9 | 1730 |
| 394 | 10 | 3 (2) 4148 | 3677 | 3206 | 2733 | 2263 | 1792 | 1321 | 0819 | 0378 | 9906 | 9431 | 8963 | 8491 | 8019 | 7347 | 7075 | 6602 | 89 | 10 | 7 1622 |
| 386 | 11 | 4251 | 3780 | 3309 | 2838 | 2367 | 1895 | 1424 | 0932 | 0481 | 0009 | 9337 | 9063 | 6393 | 8121 | 7649 | 7177 | 6705 | 87 | 11 | 1314 |
| 378 | 12 | 4355 | 3884 | 3412 | 2941 | 2170 | 1998 | 1527 | 1035 | 0584 | 0112 | 9640 | 9168 | 8696 | 8224 | 7752 | 7280 | 6807 | 83 | 12 | 1406 |
| 370 | 13 | 4438 | 3987 | 3315 | 3044 | 2573 | 2101 | 1630 | 1158 | 0686 | 0215 | 9743 | 9271 | 8799 | 8327 | 7834 | 7382 | 6910 | 83 | 13 | 1208 |
| 362 | 14 | 4361 | 4090 | 3618 | 3147 | 2676 | 2204 | 1733 | 1261 | 0789 | 0317 | 9845 | 9373 | 8901 | 8420 | 7957 | 7481 | 7012 | 82 | 14 | 1190 |
| 354 | 16 | 3 (2) 4664 | 4193 | 3721 | 3250 | 2779 | 2307 | 1835 | 1364 | 0892 | 0120 | 9948 | 9476 | 9004 | 8531 | 8039 | 7587 | 7114 | 80 | 15 | 7 1083 |
| 347 | 16 | 4767 | 4296 | 3824 | 3353 | 2881 | 2410 | 1938 | 1466 | 0994 | 0522 | 0050 | 9378 | 9106 | 8633 | 8161 | 7689 | 7216 | 78 | 16 | 0975 |
| 339 | 17 | 4870 | 1399 | 3927 | 3456 | 2984 | 2312 | 2041 | 1069 | 1097 | 0626 | 0153 | 9680 | 0208 | 8735 | 8261 | 7791 | 7318 | 76 | 17 | 0867 |
| 331 | 18 | 4973 | 4501 | 4030 | 3558 | 3087 | 2615 | 2143 | 1671 | 1199 | 0727 | 0235 | 9783 | 9318 | 8837 | 8366 | 7893 | 7420 | 76 | 18 | 0760 |
| 323 | 19 | 5076 | 4604 | 4132 | 3661 | 3189 | 2717 | 2245 | 1773 | 1301 | 0829 | 0367 | 9885 | 9413 | 8940 | 8468 | 7995 | 7022 | 73 | 19 | 0652 |
| 315 | 20 | 3 (2) 5178 | 4707 | 4233 | 3763 | 3292 | 2828 | 2318 | 1876 | 1401 | 0932 | 0459 | 9987 | 9315 | 9042 | 8369 | 8097 | 7621 | 71 | 20 | 7 0545 |
| 307 | 21 | 0281 | 4809 | 4337 | 3866 | 3394 | 2922 | 2450 | 1078 | 1306 | 1034 | 0561 | 0089 | 0617 | 9144 | 8671 | 8199 | 7726 | 60 | 21 | 0438 |
| 299 | 22 | 5383 | 4912 | 4440 | 3968 | 3496 | 3024 | 2362 | 2080 | 1608 | 1136 | 0663 | 0191 | 9718 | 9246 | 8773 | 8300 | 7828 | 67 | 22 | 0331 |
| 291 | 23 | 5486 | 5014 | 4642 | 4070 | 3598 | 3126 | 2654 | 2182 | 1710 | 1238 | 0763 | 0293 | 9820 | 9318 | 8875 | 8102 | 7929 | 66 | 23 | 0224 |
| 284 | 24 | 5588 | 5116 | 4644 | 4172 | 3700 | 3228 | 2756 | 2284 | 1612 | 1340 | 8867 | 0394 | 9922 | 9449 | 8976 | 8304 | 8031 | 64 | 24 | 0117 |
| 276 | 25 | 3 (2) 5690 | 3218 | 4747 | 4273 | 3802 | 3330 | 2858 | 2386 | 1014 | 1441 | 0969 | 0496 | 0024 | 9331 | 9078 | 8606 | 8132 | 62 | 25 | 7 0010 |
| 268 | 26 | 5792 | 3321 | 4849 | 4377 | 3904 | 3432 | 2960 | 2488 | 2016 | 1343 | 1070 | 0398 | 0125 | 9602 | 9179 | 8707 | 8233 | 60 | 26 | 6 9903 |
| 260 | 27 | 6891 | 5123 | 4951 | 4479 | 4006 | 3534 | 3062 | 2590 | 2117 | 1645 | 1172 | 0629 | 0227 | 9754 | 9281 | 8808 | 8335 | 59 | 27 | 9796 |
| 252 | 28 | 5996 | 5525 | 5052 | 4580 | 4108 | 3636 | 3164 | 2691 | 2219 | 1746 | 1273 | 0801 | 0328 | 9855 | 9382 | 8909 | 8436 | 57 | 28 | 9689 |
| 244 | 29 | 6098 | 3626 | 3164 | 4682 | 4210 | 3738 | 3265 | 2793 | 2320 | 1818 | 1376 | 0902 | 0429 | 9956 | 0483 | 9010 | 8337 | 55 | 29 | 9582 |
| 236 | 30 | 3 (2) 6200 | 3728 | 3256 | 4784 | 4312 | 3839 | 3367 | 2894 | 2422 | 1949 | 1476 | 1003 | 0630 | 0058 | 9584 | 9111 | 8638 | 53 | 30 | 6 9476 |
| 228 | 31 | 6302 | 5830 | 5358 | 4885 | 4413 | 3941 | 3468 | 2096 | 2523 | 2050 | 1578 | 1105 | 0632 | 8169 | 9685 | 9212 | 8739 | 51 | 31 | 9369 |
| 221 | 32 | 6404 | 3932 | 3459 | 4087 | 4516 | 4042 | 3570 | 3007 | 2624 | 2152 | 1679 | 1206 | 0733 | 0260 | 9786 | 9313 | 8840 | 50 | 32 | 9263 |
| 213 | 33 | 6505 | 6033 | 3661 | 5089 | 4616 | 4144 | 3671 | 3198 | 2726 | 2254 | 1780 | 1307 | 0634 | 0361 | 9887 | 9414 | 8941 | 48 | 33 | 9137 |
| 206 | 34 | 6607 | 6133 | 5662 | 3190 | 4717 | 4243 | 3772 | 3300 | 2827 | 2354 | 1881 | 1408 | 0935 | 0461 | 9988 | 9515 | 9041 | 46 | 34 | 9050 |
| 197 | 33 | 3 (2) 6708 | 6236 | 5764 | 5291 | 4819 | 4346 | 3873 | 3401 | 2928 | 2436 | 1982 | 1509 | 1036 | 8362 | 0089 | 9616 | 9142 | 44 | 35 | 6 8944 |
| 189 | 36 | 6810 | 6337 | 3863 | 5392 | 4920 | 4447 | 3974 | 3502 | 3029 | 2536 | 2083 | 1610 | 1136 | 0663 | 0100 | 9716 | 9243 | 43 | 36 | 8838 |
| 181 | 37 | 6911 | 6439 | 5966 | 3494 | 3021 | 4548 | 4073 | 3603 | 3130 | 2637 | 2183 | 1718 | 1237 | 8764 | 0290 | 9816 | 9343 | 41 | 37 | 8732 |
| 173 | 38 | 7012 | 6540 | 6067 | 5595 | 6122 | 4649 | 4176 | 3703 | 3230 | 2737 | 2284 | 1811 | 1338 | 0864 | 0391 | 9017 | 0444 | 39 | 38 | 8626 |
| 166 | 39 | 7113 | 6641 | 6168 | 5696 | 5223 | 4750 | 4277 | 3804 | 3331 | 2838 | 2385 | 1911 | 1438 | 0965 | 0491 | 0018 | 9344 | 37 | 39 | 8320 |
| 158 | 40 | 3 (2) 7214 | 6742 | 6269 | 3797 | 5324 | 4851 | 4478 | 3905 | 3431 | 2939 | 2485 | 2012 | 1639 | 1065 | 0691 | 0118 | 9644 | 35 | 40 | 6 8414 |
| 150 | 41 | 7316 | 6843 | 6370 | 5897 | 3125 | 4932 | 1479 | 4006 | 3332 | 3059 | 2586 | 2112 | 1639 | 1165 | 0692 | 0218 | 9744 | 34 | 41 | 8309 |
| 142 | 42 | 7416 | 6944 | 6471 | 3998 | 3625 | 5052 | 4579 | 4106 | 3633 | 3160 | 2686 | 2213 | 1739 | 1266 | 0792 | 0318 | 9844 | 32 | 42 | 8203 |
| 134 | 43 | 7517 | 7044 | 6372 | 6099 | 5626 | 5153 | 1680 | 4207 | 3733 | 3260 | 2787 | 2313 | 1839 | 1366 | 0892 | 0418 | 9944 | 30 | 43 | 8098 |
| 126 | 44 | 3 7618 | 7143 | 6672 | 6199 | 3726 | 5233 | 4781 | 4307 | 3834 | 3360 | 2887 | 2413 | 1940 | 1466 | 0992 | 0318 | 0041 | 28 | 44 | 7992 |
| 118 | 45 | 3 7719 | 7246 | 6773 | 6300 | 5827 | 5354 | 4881 | 4407 | 3934 | 3161 | 2987 | 2313 | 2040 | 1366 | 1092 | 0618 | 0144 | 27 | 45 | 6 7887 |
| 110 | 46 | 7819 | 7346 | 6873 | 6400 | 5927 | 5454 | 4981 | 4508 | 4034 | 3561 | 3087 | 2613 | 2140 | 1666 | 1192 | 0718 | 0244 | 23 | 46 | 7781 |
| 102 | 47 | 7920 | 7447 | 6974 | 6501 | 6028 | 5554 | 6081 | 4608 | 4134 | 3661 | 3187 | 2713 | 2240 | 1766 | 1292 | 0818 | 0344 | 23 | 47 | 7676 |
| 93 | 48 | 8020 | 7547 | 7074 | 6601 | 6128 | 5655 | 5181 | 4708 | 4234 | 3761 | 3287 | 2813 | 2339 | 1866 | 1391 | 0917 | 0443 | 21 | 48 | 7571 |
| 87 | 49 | 8121 | 7647 | 7174 | 6701 | 6228 | 5735 | 5281 | 4808 | 4334 | 3860 | 3387 | 2913 | 2439 | 1965 | 1491 | 1017 | 0543 | 19 | 49 | 7466 |
| 79 | 50 | 3 8221 | 7748 | 7275 | 6801 | 6326 | 5835 | 5381 | 4908 | 4434 | 3960 | 3487 | 3013 | 2639 | 2063 | 1591 | 1117 | 0642 | 16 | 50 | 6 7361 |
| 71 | 51 | 8321 | 7848 | 7376 | 6981 | 6428 | 5956 | 5481 | 5008 | 4534 | 4060 | 3586 | 3112 | 2636 | 2164 | 1690 | 1216 | 0741 | 16 | 51 | 7256 |
| 63 | 62 | 8421 | 7948 | 7476 | 7001 | 6528 | 6035 | 3381 | 3107 | 4634 | 4139 | 3686 | 3212 | 2738 | 2264 | 1790 | 1316 | 0841 | 14 | 52 | 7161 |
| 53 | 63 | 8321 | 8048 | 7075 | 7101 | 6628 | 6154 | 5681 | 5207 | 4733 | 4239 | 3783 | 3311 | 2837 | 2363 | 1889 | 1416 | 0940 | 12 | 53 | 7046 |
| 47 | 54 | 8621 | 8148 | 7675 | 7201 | 6728 | 6254 | 5780 | 3307 | 4833 | 4358 | 3883 | 3411 | 2937 | 2462 | 1988 | 1514 | 1039 | 11 | 54 | 6942 |
| 39 | 65 | 3 8721 | 8248 | 7774 | 7301 | 6827 | 6364 | 5880 | 3406 | 4932 | 4438 | 3984 | 3510 | 3036 | 2562 | 2087 | 1613 | 1138 | 9 | 35 | 6 6837 |
| 32 | 56 | 8821 | 8347 | 7874 | 7400 | 6927 | 6433 | 3979 | 5606 | 5032 | 4338 | 4084 | 3609 | 3135 | 2661 | 2186 | 1712 | 1237 | 7 | 56 | 6733 |
| 24 | 57 | 8921 | 8447 | 7974 | 7500 | 7026 | 6533 | 6079 | 3605 | 5131 | 4657 | 4183 | 3709 | 3234 | 2760 | 2280 | 1811 | 1336 | 5 | 57 | 6626 |
| 16 | 68 | 9020 | 8547 | 8073 | 7680 | 7126 | 6652 | 6178 | 5704 | 5230 | 4756 | 4282 | 3808 | 3333 | 2859 | 2384 | 1910 | 1435 | 4 | 59 | 6524 |
| 8 | 39 | 9120 | 8646 | 8173 | 7700 | 7225 | 6751 | 6277 | 5803 | 5328 | 4835 | 4381 | 3907 | 3132 | 2958 | 2483 | 2009 | 1034 | 2 | 59 | 6420 |

**Tabla X. Número I para la suma de alturas aparentes y Número III para la distancia aparente. . . . } y el Argumento Auxiliar.** — **Núm. IV para hallar la distancia corregida.**

| Partes para segundos del Arg. Auxiliar. | 159° | | Argumento Auxiliar. 17′ | 18′ | 19′ | 20′ | 21′ | 22′ | 23′ | 24′ | 25′ | 26′ | 27′ | 28′ | 29′ | 30′ | 31′ | 32′ | 33′ | Partes para segundos. | 159° | Núm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 474 | 0′ | 9 (1) | 6161 | 4629 | 4157 | 3585 | 3213 | 2741 | 2969 | 1797 | 1324 | 0852 | 0379 | 9987 | 9434 | 8961 | 8468 | 8016 | 7543 | 6 | 0′ | 3 3580 |
| 460 | 1 | | 3264 | 4732 | 4201 | 3789 | 3316 | 2841 | 2372 | 1925 | 1427 | 0955 | 6482 | 6202 | 9537 | 9864 | 8521 | 8118 | 7645 | 2 | 1 | 3685 |
| 458 | 2 | | 5308 | 4836 | 4364 | 3891 | 3419 | 2947 | 2475 | 9002 | 1536 | 1657 | 8385 | 8112 | 9239 | 9106 | 6693 | 8998 | 7747 | 3 | 2 | 3789 |
| 450 | 3 | | 5411 | 4232 | 4407 | 3294 | 3522 | 3055 | 2578 | 2105 | 1633 | 1152 | 8687 | 0213 | 9742 | 2209 | 8796 | 8393 | 7656 | 5 | 3 | 3893 |
| 442 | 4 | | 5514 | 5649 | 4576 | 4697 | 3623 | 3153 | 9668 | 9228 | 1735 | 1263 | 2790 | 0317 | 9844 | 2371 | 8898 | 8495 | 7932 | 7 | 4 | 3997 |
| 435 | 5 | 2 (1) | 5617 | 3145 | 4672 | 4905 | 3798 | 3255 | 2783 | 2310 | 1838 | 1365 | 0822 | 5419 | 9946 | 2473 | 9220 | 8527 | 8854 | 8 | 5 | 3 4101 |
| 427 | 6 | | 3719 | 5947 | 4775 | 4383 | 3838 | 3358 | 9883 | 2413 | 1942 | 1467 | 8995 | 8391 | 8049 | 9576 | 9162 | 8892 | 8135 | 18 | 6 | 4204 |
| 419 | 7 | | 5829 | 5332 | 4872 | 4405 | 3233 | 3421 | 2928 | 2515 | 2043 | 1372 | 1097 | 6693 | 6151 | 2072 | 9904 | 8731 | 6258 | 12 | 7 | 4306 |
| 411 | 8 | | 6996 | 5453 | 4982 | 4366 | 4036 | 3303 | 3290 | 2618 | 2145 | 1872 | 1129 | 2720 | 8253 | 9782 | 2326 | 8833 | 8300 | 14 | 8 | 4419 |
| 463 | 9 | | 6098 | 5536 | 3683 | 4612 | 4138 | 3665 | 3193 | 2796 | 9947 | 1774 | 1321 | 2828 | 0335 | 2862 | 9428 | 8935 | 8401 | 15 | 9 | 4513 |
| 395 | 10 | 2 (1) | 6130 | 5836 | 5185 | 4713 | 4240 | 3728 | 3295 | 2829 | 9349 | 1876 | 1423 | 0930 | 2437 | 9983 | 9518 | 9837 | 8583 | 17 | 10 | 3 4619 |
| 327 | 11 | | 6233 | 5760 | 5288 | 4215 | 4343 | 3872 | 3397 | 2924 | 9431 | 1976 | 1385 | 1632 | 2539 | 6685 | 9812 | 9136 | 8683 | 19 | 11 | 4729 |
| 379 | 12 | | 6335 | 5863 | 3396 | 4917 | 4445 | 3979 | 3499 | 3026 | 9353 | 2080 | 1087 | 1134 | 2602 | 6187 | 9714 | 9942 | 8706 | 28 | 12 | 4696 |
| 371 | 13 | | 6437 | 3905 | 5492 | 3025 | 4547 | 4074 | 3601 | 3122 | 2655 | 2182 | 1789 | 1236 | 2702 | 2289 | 2813 | 9342 | 8286 | 29 | 13 | 4922 |
| 363 | 14 | | 6540 | 6267 | 5594 | 5199 | 4649 | 4176 | 3783 | 3238 | 9757 | 2284 | 1811 | 1337 | 2864 | 8390 | 9917 | 9443 | 8969 | 24 | 14 | 3532 |
| 356 | 15 | 2 (1) | 6649 | 6102 | 5696 | 5224 | 4751 | 4278 | 3805 | 3332 | 2859 | 2355 | 1919 | 1439 | 2965 | 2492 | 0018 | 9344 | 9071 | 95 | 15 | 3 5135 |
| 348 | 16 | | 6744 | 6271 | 5798 | 3325 | 4853 | 4380 | 3967 | 3434 | 2960 | 2187 | 9814 | 1548 | 1867 | 8593 | 2119 | 9646 | 9172 | 27 | 16 | 6238 |
| 342 | 17 | | 6846 | 5373 | 5902 | 5427 | 4955 | 4481 | 4058 | 3535 | 3862 | 2589 | 2115 | 1242 | 1158 | 6624 | 5221 | 9747 | 2973 | 22 | 17 | 5341 |
| 332 | 18 | | 6946 | 6476 | 6002 | 5529 | 5856 | 4583 | 4112 | 3637 | 3163 | 2092 | 9217 | 1743 | 1989 | 0792 | 2322 | 9846 | 9374 | 38 | 18 | 5144 |
| 394 | 19 | | 7250 | 6577 | 6104 | 3531 | 5158 | 4683 | 4219 | 3738 | 3205 | 9791 | 2318 | 1844 | 1371 | 8897 | 8423 | 9942 | 9475 | 39 | 19 | 6347 |
| 316 | 20 | 2 (1) | 7151 | 6679 | 6956 | 5733 | 5259 | 4780 | 4313 | 3845 | 3366 | 2823 | 2412 | 1946 | 1472 | 0998 | 8324 | 8850 | 9576 | 34 | 20 | 3 5652 |
| 328 | 21 | | 7953 | 2762 | 5307 | 5834 | 5351 | 4288 | 4414 | 3941 | 3408 | 2994 | 2528 | 9847 | 1573 | 1099 | 0825 | 8151 | 9677 | 36 | 21 | 3752 |
| 625 | 22 | | 7355 | 6882 | 5409 | 3236 | 5469 | 4989 | 4516 | 4049 | 3509 | 3095 | 2621 | 2148 | 1674 | 1920 | 0790 | 0252 | 9778 | 37 | 22 | 3855 |
| 992 | 23 | | 7456 | 8983 | 6518 | 6037 | 5564 | 5090 | 4617 | 4143 | 3670 | 3190 | 2792 | 2249 | 1775 | 1361 | 0827 | 2353 | 9878 | 39 | 23 | 3957 |
| 284 | 24 | | 7556 | 7685 | 5611 | 6135 | 5265 | 5192 | 4718 | 4244 | 3771 | 3297 | 2823 | 2350 | 1870 | 1429 | 0997 | 8433 | 9972 | 41 | 24 | 6866 |
| 277 | 25 | 2 | 7652 | 7180 | 6713 | 6239 | 5760 | 5293 | 4819 | 4345 | 3872 | 3398 | 2924 | 2450 | 1276 | 1502 | 1028 | 0554 | 6680 | 42 | 25 | 3 8102 |
| 969 | 26 | | 7768 | 7287 | 6214 | 6341 | 5857 | 5394 | 4928 | 4446 | 3973 | 3499 | 3095 | 2551 | 2277 | 1603 | 1199 | 6654 | 6120 | 44 | 26 | 6264 |
| 261 | 27 | | 7862 | 7362 | 6915 | 6442 | 5988 | 5495 | 3291 | 4547 | 4674 | 3600 | 3196 | 9659 | 2172 | 1723 | 1229 | 2766 | 8286 | 46 | 27 | 6356 |
| 253 | 28 | | 7203 | 7489 | 7015 | 6543 | 8269 | 5595 | 5122 | 4648 | 4174 | 3700 | 3996 | 2759 | 2978 | 1684 | 1330 | 8855 | 2381 | 47 | 28 | 2168 |
| 245 | 29 | | 8664 | 7396 | 7117 | 6644 | 8176 | 5896 | 5293 | 4742 | 4275 | 3801 | 3327 | 2853 | 9379 | 1964 | 1430 | 8956 | 2481 | 42 | 29 | 2578 |
| 237 | 30 | 2 | 8123 | 7591 | 7212 | 6744 | 6271 | 5797 | 3323 | 4542 | 4375 | 3981 | 3427 | 2953 | 9479 | 2085 | 1332 | 1550 | 6521 | 31 | 30 | 3 6672 |
| 929 | 31 | | 6266 | 7799 | 7319 | 6845 | 6371 | 5898 | 5494 | 4950 | 4476 | 4082 | 3598 | 3034 | 9379 | 2123 | 1032 | 1136 | 6681 | 52 | 31 | 5774 |
| 991 | 32 | | 6307 | 7693 | 7419 | 6246 | 6472 | 5998 | 5594 | 5250 | 4575 | 4102 | 3698 | 3154 | 2686 | 9963 | 1731 | 1236 | 6781 | 64 | 32 | 6876 |
| 213 | 33 | | 8427 | 7924 | 7526 | 7846 | 6573 | 6099 | 5625 | 5151 | 4677 | 4283 | 3728 | 3254 | 9780 | 9305 | 1831 | 1356 | 6881 | 58 | 33 | 6277 |
| 925 | 34 | | 2328 | 2024 | 7691 | 7147 | 6673 | 6129 | 5725 | 3931 | 4777 | 4303 | 3899 | 3354 | 2888 | 2405 | 1931 | 1436 | 0961 | 67 | 34 | 7879 |
| 198 | 35 | 2 | 6652 | 8123 | 7721 | 7247 | 5773 | 6382 | 3825 | 5331 | 4877 | 4403 | 3929 | 3454 | 2982 | 2583 | 2830 | 1356 | 1681 | 62 | 35 | 3 7161 |
| 190 | 36 | | 8729 | 2295 | 7822 | 7348 | 6674 | 0400 | 5926 | 5431 | 4977 | 4503 | 4629 | 3554 | 3086 | 2685 | 2135 | 1555 | 1121 | 21 | 36 | 7282 |
| 122 | 37 | | 2869 | 8396 | 7992 | 7448 | 6974 | 6582 | 6026 | 5352 | 5277 | 4603 | 4128 | 3554 | 3172 | 2785 | 2930 | 1755 | 1260 | 63 | 37 | 7383 |
| 174 | 38 | | 6270 | 2422 | 8092 | 7548 | 7874 | 6608 | 0196 | 5832 | 5177 | 4723 | 4228 | 3734 | 3279 | 2684 | 2335 | 1855 | 1380 | 04 | 38 | 7485 |
| 166 | 39 | | 9278 | 2596 | 8122 | 7646 | 7174 | 6708 | 6226 | 3732 | 5277 | 4803 | 4398 | 3853 | 3379 | 9924 | 9499 | 1954 | 1472 | 66 | 39 | 7522 |
| 138 | 40 | 2 | 2172 | 8296 | 8922 | 7748 | 7274 | 0805 | 6328 | 5251 | 5377 | 4902 | 4422 | 3933 | 3479 | 3054 | 9529 | 2234 | 1579 | 66 | 40 | 3 7687 |
| 150 | 41 | | 9272 | 8796 | 8329 | 7848 | 7374 | 6985 | 6425 | 5951 | 3477 | 5082 | 4327 | 4853 | 3578 | 3103 | 2028 | 2153 | 1678 | 69 | 41 | 7768 |
| 142 | 42 | | 9375 | 8890 | 8422 | 7948 | 7474 | 7002 | 0595 | 0551 | 5576 | 5102 | 4827 | 4132 | 3877 | 3922 | 2797 | 2259 | 1777 | 71 | 42 | 7889 |
| 134 | 43 | | 9476 | 8990 | 8522 | 8048 | 7574 | 7529 | 6823 | 6158 | 5876 | 5201 | 4726 | 4252 | 3777 | 3322 | 2827 | 2351 | 1876 | 73 | 43 | 7998 |
| 126 | 44 | | 9575 | 9696 | 8529 | 8148 | 7673 | 7199 | 6724 | 5252 | 5775 | 5300 | 4826 | 4351 | 3676 | 3421 | 2226 | 2432 | 1275 | 74 | 44 | 8091 |
| 119 | 45 | 2 | 9672 | 9196 | 8792 | 8247 | 7773 | 7299 | 5824 | 6342 | 5875 | 3450 | 4225 | 4450 | 3975 | 3522 | 3025 | 2549 | 2274 | 76 | 45 | 3 8191 |
| 111 | 46 | | 2772 | 9925 | 8821 | 8347 | 7673 | 7322 | 6923 | 2449 | 3974 | 5499 | 5294 | 4549 | 4274 | 3599 | 3124 | 2042 | 2173 | 76 | 46 | 8292 |
| 103 | 47 | | 9869 | 9325 | 8991 | 8446 | 7272 | 7427 | 7023 | 8542 | 6273 | 5595 | 5123 | 4642 | 4173 | 3626 | 3223 | 9747 | 9272 | 79 | 47 | 6393 |
| 25 | 48 | | 2289 | 2494 | 9622 | 8548 | 8271 | 7327 | 7199 | 6647 | 6172 | 5697 | 5222 | 4747 | 4972 | 3797 | 3322 | 2646 | 2371 | 21 | 48 | 8493 |
| 67 | 49 | 3 (2) | 6202 | 9524 | 9126 | 8645 | 6171 | 7626 | 7221 | 6746 | 6271 | 3792 | 5321 | 4246 | 4371 | 3893 | 3422 | 2945 | 9462 | 83 | 49 | 8593 |
| 79 | 50 | 3 (2) | 2108 | 9694 | 9219 | 8745 | 8270 | 7723 | 7322 | 6845 | 0370 | 5895 | 3428 | 4945 | 4470 | 3994 | 3519 | 3244 | 2588 | 85 | 50 | 3 8694 |
| 71 | 51 | | 6287 | 9793 | 9318 | 8844 | 8369 | 7894 | 7419 | 6944 | 6469 | 3994 | 6519 | 5844 | 4509 | 4293 | 3618 | 3142 | 9666 | 26 | 51 | 6794 |
| 63 | 52 | | 6366 | 2899 | 9417 | 8243 | 8468 | 7293 | 7316 | 7043 | 6566 | 6693 | 5618 | 5143 | 4867 | 4199 | 3716 | 3241 | 2755 | 22 | 52 | 6894 |
| 65 | 53 | | 0426 | 9991 | 2510 | 9642 | 8567 | 8292 | 7617 | 7142 | 5267 | 6192 | 5717 | 3941 | 4785 | 4292 | 3815 | 3332 | 2263 | 96 | 53 | 6994 |
| 47 | 54 | | 6365 | 2692 | 9613 | 9141 | 6686 | 2191 | 7716 | 7241 | 6766 | 6922 | 3813 | 5342 | 4864 | 4389 | 3213 | 3437 | 2962 | 91 | 54 | 9224 |
| 48 | 55 | 3 (2) | 0664 | 2182 | 9714 | 9242 | 6765 | 8292 | 7215 | 7340 | 0864 | 0389 | 3214 | 5436 | 4963 | 4467 | 4211 | 3536 | 3262 | 23 | 55 | 3 9194 |
| 32 | 56 | | 2763 | 8288 | 2813 | 9338 | 8863 | 2362 | 7213 | 7438 | 5963 | 6488 | 6219 | 5537 | 3201 | 4585 | 4116 | 3634 | 3158 | 95 | 56 | 9294 |
| 91 | 57 | | 2669 | 0387 | 9919 | 9437 | 8962 | 8487 | 8012 | 7537 | 7261 | 6580 | 6118 | 5835 | 5159 | 4684 | 4288 | 3732 | 3256 | 97 | 57 | 2394 |
| 16 | 58 | | 0962 | 0428 | 0211 | 2536 | 9661 | 8586 | 8116 | 7635 | 7168 | 0684 | 5209 | 5733 | 5258 | 4782 | 4388 | 3838 | 3354 | 98 | 58 | 6493 |
| 8 | 59 | | 1259 | 6384 | 2109 | 9634 | 2132 | 8684 | 6209 | 7733 | 7252 | 6723 | 5387 | 5831 | 5350 | 4888 | 4404 | 3228 | 3452 | 102 | 59 | 9593 |

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**Tabla XI.** Correccion que debe aplicarse á la paralaje horizontal de la Luna, por razon del aplanamiento de la Tierra.

| Latitud. | Paralaje horizontal ecuatorial. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 53′ | 54′ | 55′ | 56′ | 57′ | 58′ | 59′ | 60′ | 61′ | 62′ |
| 0° | 0″ | 0″ | 0″ | 0″ | 0″ | 0″ | 0″ | 0″ | 0″ | 0″ |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 24 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 27 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 30 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 33 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| 36 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 39 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| 42 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| 45 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 48 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| 51 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 54 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 |
| 57 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| 60 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| 63 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 |
| 66 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 |
| 69 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 11 |
| 72 | 9 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 |
| 75 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 |

# TABLAS LOGARITMICAS

Y

## TABLAS PARA CONVERTIR PARTES DE CIRCULO

EN TIEMPO Y VICEVERSA.

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**Tabla XIV.** **Logaritmos proporcionales.**

| " | 0 Grados, ó 0 Horas. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| s | ′m 0 | ′m 1 | ′m 2 | ′m 3 | ′m 4 | ′m 5 | ′m 6 | ′m 7 | ′m 8 | ′m 9 | ′m 10 | ′m 11 | ′m 12 | ′m 13 | ′m 14 |
| 0 | | 225527 | 195424 | 177815 | 165321 | 155630 | 147712 | 141017 | 135218 | 130103 | 125527 | 121388 | 117609 | 114133 | 110914 |
| 1 | 403342 | 224809 | 195064 | 177575 | 165141 | 155486 | 147592 | 140914 | 135128 | 130023 | 125455 | 121322 | 117549 | 114077 | 110863 |
| 2 | 373239 | 224103 | 194706 | 177335 | 164961 | 155342 | 147472 | 140811 | 135038 | 129942 | 125383 | 121257 | 117489 | 114022 | 110811 |
| 3 | 355630 | 223408 | 194352 | 177097 | 164782 | 155198 | 147352 | 140708 | 134948 | 129862 | 125311 | 121191 | 117429 | 113966 | 110760 |
| 4 | 343136 | 222724 | 194000 | 176861 | 164603 | 155055 | 147232 | 140606 | 134858 | 129782 | 125239 | 121126 | 117369 | 113911 | 110708 |
| 5 | 333445 | 222051 | 193651 | 176625 | 164426 | 154912 | 147113 | 140503 | 134768 | 129703 | 125167 | 121060 | 117309 | 113855 | 110657 |
| 6 | 325527 | 221388 | 193305 | 176391 | 164249 | 154770 | 146994 | 140401 | 134679 | 129623 | 125095 | 120995 | 117249 | 113800 | 110605 |
| 7 | 318833 | 220736 | 192962 | 176158 | 164073 | 154629 | 146876 | 140300 | 134589 | 129544 | 125024 | 120930 | 117189 | 113745 | 110554 |
| 8 | 313033 | 220091 | 192621 | 175927 | 163897 | 154487 | 146758 | 140198 | 134500 | 129464 | 124952 | 120865 | 117129 | 113690 | 110503 |
| 9 | 307918 | 219157 | 192283 | 175696 | 163722 | 154347 | 146640 | 140097 | 134411 | 129385 | 124881 | 120800 | 117070 | 113635 | 110452 |
| 10 | 303342 | 218833 | 191948 | 175467 | 163548 | 154206 | 146522 | 139996 | 134323 | 129306 | 124809 | 120735 | 117010 | 113580 | 110400 |
| 11 | 299203 | 218217 | 191615 | 175239 | 163373 | 154066 | 146405 | 139895 | 134234 | 129227 | 124738 | 120670 | 116951 | 113525 | 110349 |
| 12 | 295424 | 217609 | 191285 | 175012 | 163202 | 153927 | 146288 | 139794 | 134146 | 129148 | 124667 | 120605 | 116891 | 113470 | 110298 |
| 13 | 291948 | 217010 | 190957 | 174787 | 163030 | 153788 | 146171 | 139694 | 134058 | 129070 | 124596 | 120541 | 116832 | 113415 | 110247 |
| 14 | 288730 | 216419 | 190632 | 174562 | 162859 | 153649 | 146055 | 139593 | 133970 | 128991 | 124526 | 120476 | 116773 | 113360 | 110197 |
| 15 | 285733 | 215836 | 190309 | 174339 | 162688 | 153511 | 145939 | 139493 | 133882 | 128913 | 124455 | 120412 | 116714 | 113306 | 110146 |
| 16 | 282930 | 215261 | 189988 | 174117 | 162518 | 153374 | 145824 | 139394 | 133794 | 128835 | 124384 | 120318 | 116655 | 113251 | 110095 |
| 17 | 280297 | 214693 | 189670 | 173896 | 162349 | 153236 | 145708 | 139294 | 133707 | 128757 | 124314 | 120284 | 116596 | 113197 | 110044 |
| 18 | 277815 | 214133 | 189351 | 173676 | 162180 | 153100 | 145593 | 139195 | 133619 | 128679 | 124244 | 120219 | 116537 | 113142 | 109994 |
| 19 | 275467 | 213580 | 189041 | 173457 | 162012 | 152963 | 145478 | 139096 | 133532 | 128601 | 124173 | 120155 | 116478 | 113088 | 109943 |
| 20 | 273239 | 213033 | 188730 | 173239 | 161845 | 152827 | 145364 | 138997 | 133445 | 128524 | 124103 | 120091 | 116419 | 113033 | 109893 |
| 21 | 271120 | 212494 | 188420 | 173023 | 161678 | 152692 | 145250 | 138899 | 133359 | 128446 | 124033 | 120028 | 116361 | 112979 | 109842 |
| 22 | 269100 | 211961 | 188114 | 172807 | 161512 | 152557 | 145136 | 138800 | 133272 | 128369 | 123963 | 119964 | 116302 | 112925 | 109792 |
| 23 | 267170 | 211435 | 187809 | 172593 | 161347 | 152122 | 145022 | 138702 | 133186 | 128292 | 123894 | 119900 | 116243 | 112871 | 109741 |
| 24 | 265321 | 210914 | 187506 | 172379 | 161182 | 152288 | 144909 | 138604 | 133099 | 128216 | 123824 | 119837 | 116185 | 112817 | 109691 |
| 25 | 263548 | 210400 | 187206 | 172167 | 161018 | 152154 | 144796 | 138506 | 133013 | 128138 | 123754 | 119773 | 116127 | 112763 | 109641 |
| 26 | 261845 | 209893 | 186907 | 171956 | 160854 | 162021 | 144684 | 138409 | 132927 | 128061 | 123685 | 119710 | 116068 | 112709 | 109591 |
| 27 | 260206 | 209390 | 186611 | 171745 | 160691 | 161888 | 144571 | 138312 | 132842 | 127984 | 123616 | 119647 | 116010 | 112655 | 109540 |
| 28 | 258627 | 208894 | 186316 | 171536 | 160529 | 151755 | 144459 | 138215 | 132756 | 127908 | 123546 | 119581 | 115952 | 112601 | 109490 |
| 29 | 257103 | 208403 | 186024 | 171328 | 160367 | 161623 | 144347 | 138118 | 132671 | 127831 | 123477 | 119520 | 115894 | 112548 | 109440 |
| 30 | 255630 | 207918 | 185733 | 171120 | 160206 | 151491 | 144236 | 138021 | 132685 | 127755 | 123408 | 119457 | 115836 | 112494 | 109390 |
| 31 | 254206 | 207438 | 185445 | 170914 | 160045 | 151360 | 144125 | 137926 | 132500 | 127679 | 123339 | 119395 | 115778 | 112440 | 109341 |
| 32 | 252827 | 206964 | 185158 | 170709 | 159885 | 151229 | 144014 | 137829 | 132415 | 127603 | 123271 | 119332 | 115721 | 112387 | 109291 |
| 33 | 251491 | 206494 | 184873 | 170504 | 169726 | 151098 | 143903 | 137733 | 132331 | 127527 | 123202 | 119269 | 115663 | 112333 | 109241 |
| 34 | 250194 | 206030 | 184590 | 170301 | 159367 | 150968 | 143793 | 137637 | 132246 | 127451 | 123133 | 119206 | 115605 | 112280 | 109191 |
| 35 | 248936 | 205570 | 184309 | 170099 | 159409 | 150838 | 143683 | 137541 | 132162 | 127376 | 123065 | 119144 | 115548 | 112227 | 109142 |
| 36 | 247712 | 205115 | 184030 | 169897 | 159251 | 150708 | 143573 | 137446 | 132077 | 127300 | 122997 | 119081 | 115490 | 112173 | 109092 |
| 37 | 246522 | 204665 | 183752 | 169696 | 159094 | 150579 | 143463 | 137361 | 131993 | 127225 | 122928 | 119019 | 115433 | 112120 | 109042 |
| 38 | 245364 | 204220 | 183477 | 169497 | 158938 | 150451 | 143354 | 137256 | 131909 | 127150 | 122860 | 118957 | 115375 | 112067 | 108993 |
| 39 | 244236 | 203779 | 183203 | 169298 | 158782 | 150322 | 143245 | 137161 | 131826 | 127075 | 122792 | 118895 | 115318 | 112014 | 108943 |
| 40 | 243136 | 203342 | 182930 | 169100 | 158627 | 150194 | 143136 | 137067 | 131742 | 127000 | 122724 | 118833 | 115261 | 111961 | 108894 |
| 41 | 242064 | 202910 | 182660 | 168903 | 158472 | 150067 | 143028 | 136972 | 131659 | 126925 | 122657 | 118771 | 115204 | 111908 | 108845 |
| 42 | 241017 | 202482 | 182391 | 168707 | 158317 | 149940 | 142920 | 136878 | 131575 | 126850 | 122589 | 118709 | 115147 | 111855 | 108796 |
| 43 | 239996 | 202060 | 182124 | 168512 | 158164 | 149813 | 142812 | 136784 | 131492 | 126776 | 122521 | 118647 | 115090 | 111802 | 108746 |
| 44 | 238997 | 201639 | 181858 | 168318 | 158011 | 149687 | 142704 | 136691 | 131409 | 126701 | 122154 | 118585 | 115033 | 111750 | 108697 |
| 45 | 238021 | 201223 | 181594 | 168124 | 157858 | 149560 | 142597 | 136597 | 131326 | 126627 | 122386 | 118523 | 114976 | 111697 | 108648 |
| 46 | 237067 | 200812 | 181332 | 167932 | 157706 | 149436 | 142490 | 136504 | 131244 | 126553 | 122319 | 118462 | 114919 | 111644 | 108599 |
| 47 | 236133 | 200404 | 181071 | 167740 | 157554 | 149309 | 142383 | 136411 | 131161 | 126479 | 122252 | 118400 | 114863 | 111592 | 108550 |
| 48 | 235218 | 200000 | 180811 | 167549 | 157403 | 149184 | 142276 | 136318 | 131079 | 126405 | 122185 | 118339 | 114806 | 111539 | 108501 |
| 49 | 234323 | 199600 | 180554 | 167359 | 157253 | 149060 | 142170 | 136225 | 130997 | 126331 | 122118 | 118278 | 114750 | 111487 | 108452 |
| 50 | 233445 | 199203 | 180297 | 167170 | 157103 | 148936 | 142064 | 136133 | 130915 | 126257 | 122051 | 118217 | 114693 | 111435 | 108403 |
| 51 | 232585 | 198810 | 180043 | 166981 | 156953 | 148812 | 141958 | 136040 | 130833 | 126184 | 121981 | 118155 | 114637 | 111382 | 108355 |
| 52 | 231742 | 198421 | 179790 | 166794 | 156804 | 148688 | 141853 | 135948 | 130751 | 126110 | 121918 | 118094 | 114581 | 111330 | 108306 |
| 53 | 230916 | 198035 | 179538 | 166607 | 156656 | 148565 | 141747 | 135856 | 130670 | 126037 | 121851 | 118033 | 114524 | 111278 | 108257 |
| 54 | 230103 | 197652 | 179287 | 166421 | 156508 | 148442 | 141642 | 135765 | 130588 | 125961 | 121785 | 117273 | 114468 | 111226 | 108209 |
| 55 | 229306 | 197273 | 179039 | 166236 | 156360 | 148320 | 141538 | 135673 | 130507 | 125891 | 121718 | 117912 | 114412 | 111174 | 108160 |
| 56 | 228524 | 196897 | 178791 | 166051 | 156213 | 148197 | 141433 | 135582 | 130426 | 125818 | 121652 | 117851 | 114356 | 111122 | 108112 |
| 57 | 227755 | 196524 | 178545 | 165868 | 156067 | 148076 | 141329 | 135491 | 130345 | 125745 | 121586 | 117790 | 114300 | 111070 | 108063 |
| 58 | 227000 | 196154 | 178300 | 165685 | 155921 | 147954 | 141225 | 135400 | 130264 | 125672 | 121520 | 117730 | 114241 | 111018 | 108015 |
| 59 | 226257 | 195788 | 178057 | 165503 | 163775 | 147833 | 141121 | 135309 | 130183 | 125600 | 121454 | 117669 | 114189 | 110966 | 107966 |

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**Tabla XIV.** **Logaritmos proporcionales.**

0 Grados, ó 0 Horas.

| ″ / ′ | m 15 | m 16 | m 17 | m 18 | m 19 | m 20 | m 21 | m 22 | m 23 | m 24 | m 25 | m 26 | m 27 | m 28 | m 29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 107918 | 105115 | 102482 | 100009 | 97652 | 95424 | 93305 | 91285 | 89354 | 87506 | 85733 | 84030 | 82391 | 80811 | 79287 |
| 1 | 107870 | 105070 | 102440 | 99960 | 97614 | 95388 | 93271 | 91252 | 89323 | 87476 | 85704 | 84002 | 82364 | 90786 | 79262 |
| 2 | 107822 | 105025 | 102397 | 99920 | 97576 | 95352 | 93236 | 91219 | 89292 | 87446 | 85675 | 83974 | 82337 | 80760 | 79238 |
| 3 | 107774 | 104980 | 102355 | 99880 | 97538 | 95316 | 93202 | 91186 | 89260 | 87416 | 85646 | 83946 | 82311 | 80734 | 79213 |
| 4 | 107726 | 104935 | 102312 | 99839 | 97500 | 95280 | 93168 | 91154 | 89229 | 87386 | 85618 | 83919 | 82284 | 80708 | 79188 |
| 5 | 107678 | 104890 | 102270 | 99799 | 97462 | 95244 | 93133 | 91121 | 89197 | 87356 | 85589 | 83891 | 82257 | 80683 | 79163 |
| 6 | 107630 | 104845 | 102228 | 99759 | 97424 | 95208 | 93099 | 91088 | 89166 | 87326 | 85560 | 83863 | 82230 | 80657 | 79138 |
| 7 | 107582 | 104800 | 102185 | 99719 | 97386 | 95172 | 93065 | 91055 | 89135 | 87296 | 85531 | 83835 | 82204 | 80631 | 79113 |
| 8 | 107534 | 104755 | 102143 | 99679 | 97348 | 95136 | 93030 | 91023 | 89103 | 87266 | 85502 | 83808 | 82177 | 80605 | 79088 |
| 9 | 107486 | 104710 | 102101 | 99640 | 97310 | 95100 | 92996 | 90990 | 89072 | 87236 | 85173 | 83780 | 82150 | 80579 | 79063 |
| 10 | 107438 | 104665 | 102059 | 99600 | 97273 | 95064 | 92962 | 90957 | 89041 | 87206 | 85445 | 83752 | 82124 | 80554 | 79039 |
| 11 | 107391 | 104620 | 102017 | 99560 | 97235 | 95028 | 92928 | 90925 | 89010 | 87176 | 85416 | 83725 | 82097 | 80528 | 79014 |
| 12 | 107343 | 104576 | 101974 | 99520 | 97197 | 91992 | 92894 | 90892 | 88978 | 87146 | 85387 | 83697 | 82070 | 80502 | 78989 |
| 13 | 107295 | 104531 | 101932 | 99480 | 97159 | 94956 | 92860 | 90859 | 88947 | 87116 | 85358 | 83670 | 82044 | 80477 | 78964 |
| 14 | 107248 | 104486 | 101890 | 99441 | 97122 | 94921 | 92825 | 90827 | 88916 | 87086 | 85330 | 83642 | 82017 | 80451 | 78939 |
| 15 | 107200 | 104442 | 101848 | 99401 | 97084 | 94885 | 92791 | 90794 | 88885 | 87056 | 85301 | 83614 | 81991 | 80425 | 78915 |
| 16 | 107153 | 101397 | 101806 | 99361 | 97047 | 94849 | 92757 | 90762 | 88854 | 87026 | 85272 | 83587 | 81964 | 80400 | 78890 |
| 17 | 107105 | 104353 | 101764 | 99322 | 97009 | 94813 | 92723 | 90729 | 88823 | 86996 | 85244 | 83559 | 81938 | 80374 | 78865 |
| 18 | 107058 | 104308 | 101723 | 99282 | 96972 | 94778 | 92689 | 90697 | 88792 | 86967 | 85215 | 83532 | 81911 | 80349 | 78840 |
| 19 | 107011 | 104264 | 101681 | 99243 | 96934 | 94742 | 92655 | 90664 | 88761 | 86937 | 85187 | 83504 | 81984 | 80323 | 78816 |
| 20 | 106964 | 104220 | 101639 | 99203 | 96897 | 94706 | 92621 | 90632 | 88730 | 86907 | 85158 | 83477 | 81858 | 80297 | 78791 |
| 21 | 106916 | 104175 | 101597 | 99164 | 96859 | 94671 | 92587 | 90599 | 88699 | 86877 | 85129 | 83449 | 81832 | 80272 | 78766 |
| 22 | 196869 | 104131 | 101556 | 99124 | 96822 | 94635 | 92554 | 90567 | 88668 | 86848 | 85101 | 83422 | 81805 | 80246 | 78742 |
| 23 | 106822 | 104087 | 101514 | 99085 | 96784 | 94600 | 92520 | 90535 | 88637 | 86818 | 85072 | 83394 | 81779 | 80221 | 78717 |
| 24 | 106775 | 104043 | 101472 | 99045 | 96747 | 94564 | 92486 | 90502 | 88606 | 86788 | 85044 | 83367 | 81752 | 80195 | 78693 |
| 25 | 106728 | 103999 | 101431 | 99006 | 96710 | 94529 | 92452 | 90470 | 88575 | 86759 | 85015 | 83339 | 81726 | 80170 | 78668 |
| 26 | 106681 | 103955 | 101389 | 98967 | 96673 | 94493 | 92418 | 90438 | 88544 | 86729 | 84987 | 83312 | 81699 | 80144 | 78643 |
| 27 | 106634 | 103911 | 101348 | 98928 | 96635 | 94458 | 92385 | 90406 | 88513 | 86699 | 84958 | 83285 | 81673 | 80119 | 78619 |
| 28 | 106588 | 103867 | 101306 | 98888 | 96598 | 94423 | 92351 | 90373 | 88482 | 86670 | 84930 | 83257 | 81647 | 80094 | 78594 |
| 29 | 106541 | 103823 | 101265 | 98849 | 96561 | 94387 | 92317 | 90341 | 88451 | 86640 | 84902 | 83230 | 81620 | 80068 | 78570 |
| 30 | 106494 | 103779 | 101223 | 98810 | 96524 | 94352 | 92283 | 90309 | 88420 | 86611 | 84873 | 83203 | 81594 | 80043 | 78545 |
| 31 | 106447 | 103735 | 101182 | 98771 | 96487 | 94317 | 92250 | 90277 | 88390 | 86581 | 84845 | 83175 | 81568 | 80017 | 78521 |
| 32 | 106401 | 103691 | 101141 | 98732 | 96450 | 94281 | 92216 | 90245 | 88359 | 86552 | 84816 | 83148 | 81541 | 79992 | 78496 |
| 33 | 106354 | 103647 | 101100 | 98693 | 96413 | 94246 | 92183 | 90213 | 88328 | 86522 | 84788 | 83121 | 81515 | 79967 | 78472 |
| 34 | 106308 | 103604 | 101058 | 98654 | 96376 | 94211 | 92149 | 90181 | 88297 | 86493 | 94760 | 83094 | 81489 | 79941 | 78447 |
| 35 | 106261 | 103560 | 101017 | 98615 | 96339 | 94176 | 92115 | 90148 | 88267 | 86463 | 84732 | 83066 | 81463 | 79916 | 78423 |
| 36 | 106215 | 103516 | 100976 | 98576 | 96302 | 94141 | 92082 | 90116 | 88236 | 86434 | 84703 | 83039 | 81436 | 79891 | 78398 |
| 37 | 106168 | 103473 | 100935 | 98537 | 96265 | 94105 | 92048 | 90084 | 88205 | 86404 | 84675 | 83012 | 81410 | 79865 | 78374 |
| 38 | 106122 | 103429 | 100894 | 98498 | 96228 | 94070 | 92015 | 90052 | 88175 | 86375 | 84647 | 82985 | 81384 | 79840 | 78349 |
| 39 | 106076 | 103386 | 100853 | 98459 | 96191 | 94035 | 91981 | 90020 | 88144 | 86346 | 84619 | 82958 | 81358 | 79815 | 78325 |
| 40 | 106030 | 103342 | 100812 | 98421 | 96154 | 94000 | 91948 | 89988 | 88114 | 86316 | 84590 | 82930 | 81332 | 79790 | 78300 |
| 41 | 105983 | 103299 | 100771 | 98382 | 96117 | 93965 | 91915 | 89957 | 88083 | 86287 | 84562 | 82903 | 81305 | 79764 | 78276 |
| 42 | 105937 | 103256 | 180730 | 98343 | 96081 | 93930 | 91881 | 89925 | 88052 | 86258 | 81534 | 82876 | 81279 | 79739 | 78252 |
| 43 | 105891 | 103212 | 100689 | 98304 | 96044 | 93895 | 91948 | 89893 | 88022 | 86228 | 84506 | 92849 | 81253 | 79714 | 78227 |
| 44 | 105845 | 103169 | 100648 | 98266 | 96007 | 93860 | 91815 | 89861 | 87991 | 66199 | 84478 | 92822 | 81227 | 79689 | 78203 |
| 45 | 105799 | 103126 | 100607 | 98227 | 95971 | 93825 | 91781 | 89829 | 87961 | 86170 | 84450 | 82795 | 81201 | 79663 | 78179 |
| 46 | 105753 | 103083 | 100567 | 98189 | 95934 | 93791 | 91748 | 89797 | 87930 | 86140 | 84421 | 82768 | 81175 | 79638 | 78154 |
| 47 | 105707 | 103039 | 100526 | 98150 | 95897 | 93756 | 91715 | 89766 | 87900 | 86111 | 84393 | 82741 | 81149 | 79613 | 78130 |
| 48 | 105662 | 102996 | 100485 | 98111 | 95861 | 93721 | 91682 | 89734 | 97870 | 86082 | 84365 | 82714 | 81123 | 79588 | 78106 |
| 49 | 105616 | 102953 | 100445 | 98073 | 95824 | 93686 | 91648 | 89782 | 87839 | 86053 | 84337 | 82687 | 81097 | 79563 | 78081 |
| 50 | 105570 | 102910 | 100404 | 98035 | 95788 | 93651 | 91615 | 89670 | 87809 | 86024 | 84309 | 82660 | 81071 | 79538 | 78057 |
| 51 | 105524 | 102867 | 100363 | 97996 | 95751 | 93617 | 91582 | 89639 | 87778 | 85995 | 84281 | 82633 | 81045 | 79513 | 78033 |
| 52 | 105479 | 102824 | 100323 | 97958 | 95715 | 93582 | 91549 | 89607 | 87748 | 85965 | 84253 | 82606 | 91019 | 79488 | 78009 |
| 53 | 105433 | 102781 | 100282 | 97919 | 95678 | 93547 | 91516 | 89575 | 87718 | 85936 | 84225 | 82579 | 80993 | 79463 | 77984 |
| 54 | 105388 | 102739 | 100242 | 97881 | 95642 | 93513 | 91483 | 89544 | 87687 | 95907 | 84197 | 82552 | 80967 | 79437 | 77960 |
| 55 | 105342 | 102696 | 100202 | 97843 | 95606 | 93478 | 91450 | 89512 | 87657 | 85878 | 84169 | 82525 | 80941 | 79412 | 77936 |
| 56 | 105297 | 102653 | 100161 | 97805 | 95569 | 93443 | 91417 | 89181 | 87627 | 85849 | 84141 | 82498 | 80915 | 79387 | 77912 |
| 57 | 105251 | 102610 | 100121 | 97766 | 95533 | 93409 | 91384 | 89449 | 97597 | 85820 | 84114 | 82471 | 80889 | 79362 | 77888 |
| 58 | 105206 | 102568 | 100080 | 97728 | 95497 | 93374 | 91351 | 89417 | 87566 | 85791 | 84086 | 82445 | 80863 | 79337 | 77863 |
| 59 | 105161 | 102525 | 100040 | 97690 | 95460 | 93340 | 91318 | 89386 | 87536 | 85762 | 84058 | 82418 | 80837 | 79312 | 77839 |

**Tabla XIV.** Logaritmos proporcionales.

| | 0 Grados, ó 0 Horas. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ″ / ′ | m 30 | m 31 | m 32 | m 33 | m 34 | m 35 | m 36 | m 37 | m 38 | m 39 | m 40 | m 41 | m 42 | m 43 | m 44 |
| 0 | 77815 | 76391 | 75012 | 73676 | 72379 | 71120 | 69897 | 68707 | 67049 | 66421 | 65321 | 64249 | 03202 | 62180 | 61182 |
| 1 | 77791 | 76368 | 74990 | 73654 | 72358 | 71100 | 69877 | 68688 | 67530 | 66402 | 65303 | 64231 | 63185 | 62164 | 61166 |
| 2 | 77767 | 76344 | 74967 | 73632 | 72337 | 71079 | 69857 | 68668 | 07511 | 06384 | 65285 | 64214 | 63168 | 62147 | 61142 |
| 3 | 77743 | 76321 | 74944 | 73610 | 72316 | 71058 | 69837 | 68648 | 67492 | 66365 | 65267 | 64196 | 03151 | 02130 | 61133 |
| 4 | 77719 | 76298 | 74922 | 73588 | 72294 | 71038 | 69817 | 68629 | 67473 | 66347 | 65249 | 64178 | 63133 | 62113 | 61116 |
| 5 | 77695 | 76274 | 74899 | 73566 | 72273 | 71017 | 69797 | 68609 | 67454 | 66328 | 65231 | 64161 | 63116 | 02096 | 61100 |
| 6 | 77671 | 76251 | 74877 | 73544 | 72252 | 70997 | 69777 | 68590 | 67435 | 66310 | 65213 | 64143 | 63099 | 02080 | 61083 |
| 7 | 77647 | 76226 | 74854 | 73523 | 72231 | 70976 | 69756 | 68570 | 67416 | 66291 | 65195 | 64125 | 63082 | 62063 | 61067 |
| 8 | 77623 | 76205 | 74832 | 73501 | 72209 | 70955 | 69736 | 68551 | 67397 | 66273 | 65177 | 64108 | 63065 | 02046 | 61651 |
| 9 | 77599 | 76181 | 74809 | 73479 | 72188 | 70935 | 69710 | 68531 | 67378 | 66254 | 65159 | 64090 | 63047 | 02029 | 61634 |
| 10 | 77575 | 76158 | 74787 | 73457 | 72167 | 70914 | 69696 | 68512 | 67359 | 66236 | 65141 | 64073 | 63030 | 62012 | 61018 |
| 11 | 77551 | 76135 | 74764 | 73435 | 72146 | 70894 | 69676 | 68492 | 67340 | 66217 | 65123 | 64055 | 63013 | 61996 | 61001 |
| 12 | 77527 | 76112 | 74742 | 73413 | 72125 | 70873 | 69656 | 68473 | 67321 | 66199 | 65105 | 64038 | 62996 | 61979 | 60985 |
| 13 | 77503 | 76089 | 74719 | 73392 | 72103 | 70852 | 69636 | 68454 | 67302 | 66186 | 65087 | 64020 | 62979 | 61962 | 60969 |
| 14 | 77479 | 76065 | 74697 | 73376 | 72082 | 70832 | 69610 | 68434 | 67283 | 66162 | 65069 | 04002 | 62962 | 61945 | 60952 |
| 15 | 77455 | 76042 | 74674 | 73348 | 72061 | 70811 | 69596 | 68415 | 67264 | 66143 | 65051 | 63985 | 62945 | 61929 | 60936 |
| 16 | 77431 | 76019 | 74652 | 73326 | 72040 | 70791 | 09576 | 68395 | 67245 | 66125 | 65033 | 63967 | 62927 | 61912 | 60920 |
| 17 | 77407 | 75996 | 74629 | 73305 | 72019 | 70770 | 69557 | 68376 | 67226 | 66106 | 65015 | 63950 | 62910 | 61895 | 60903 |
| 18 | 77303 | 75973 | 74607 | 73283 | 71998 | 70750 | 69537 | 60356 | 67207 | 66008 | 64997 | 63932 | 62893 | 61878 | 60887 |
| 19 | 77359 | 75956 | 74585 | 73261 | 71977 | 70729 | 69517 | 68337 | 67188 | 66070 | 64979 | 63915 | 62876 | 61862 | 60671 |
| 20 | 77335 | 75927 | 74562 | 73239 | 71956 | 70709 | 69497 | 68318 | 67170 | 66051 | 64961 | 63897 | 02859 | 61843 | 60854 |
| 21 | 77311 | 75903 | 74540 | 73218 | 71935 | 70688 | 69477 | 68298 | 07151 | 66033 | 64943 | 63880 | 62842 | 61828 | 60838 |
| 22 | 77288 | 75886 | 74517 | 73196 | 71914 | 70060 | 69457 | 68279 | 67132 | 66614 | 64925 | 63862 | 62825 | 61812 | 60822 |
| 23 | 77264 | 75857 | 74495 | 73174 | 71892 | 70647 | 09437 | 68259 | 67113 | 65996 | 64907 | 63845 | 62808 | 61795 | 60805 |
| 24 | 77246 | 75834 | 74473 | 73153 | 71871 | 70627 | 69417 | 68240 | 67094 | 65978 | 64889 | 63827 | 62791 | 61778 | 60789 |
| 25 | 77216 | 75811 | 74450 | 73131 | 71850 | 70606 | 69397 | 68221 | 67075 | 65959 | 64871 | 63810 | 62774 | 61762 | 66773 |
| 26 | 77192 | 75788 | 74428 | 73109 | 71829 | 70586 | 69377 | 68201 | 67056 | 65941 | 64653 | 63792 | 62757 | 61745 | 60756 |
| 27 | 77169 | 75765 | 74406 | 73088 | 71808 | 70566 | 69357 | 68182 | 67038 | 65923 | 64835 | 63775 | 62739 | 61728 | 60740 |
| 28 | 77145 | 76742 | 74383 | 73066 | 71787 | 70515 | 69338 | 68163 | 67019 | 65964 | 64818 | 63757 | 62722 | 61712 | 60724 |
| 29 | 77121 | 75719 | 74361 | 73044 | 71766 | 70525 | 69318 | 68143 | 67000 | 65886 | 64600 | 63740 | 62705 | 61695 | 60708 |
| 30 | 77097 | 75696 | 74339 | 73023 | 71745 | 70501 | 69298 | 68124 | 66981 | 65808 | 64702 | 03722 | 02688 | 61678 | 60691 |
| 31 | 77074 | 75673 | 74317 | 73001 | 71724 | 70484 | 69278 | 68105 | 66962 | 65849 | 64761 | 63705 | 62671 | 61662 | 60675 |
| 32 | 77050 | 75650 | 74294 | 72980 | 71703 | 76464 | 69258 | 68086 | 66944 | 65831 | 64746 | 63688 | 62054 | 61645 | 60659 |
| 33 | 77026 | 75627 | 74272 | 72958 | 71682 | 70443 | 69239 | 68066 | 66925 | 65813 | 64728 | 63670 | 62637 | 61628 | 60642 |
| 34 | 77062 | 75604 | 74250 | 72930 | 71661 | 70423 | 69219 | 68047 | 66906 | 65724 | 64710 | 63653 | 62026 | 61612 | 60626 |
| 35 | 76979 | 75581 | 74228 | 72915 | 71641 | 70403 | 69199 | 68028 | 66087 | 65776 | 64692 | 63635 | 62603 | 61595 | 60610 |
| 36 | 76255 | 75559 | 74205 | 72693 | 71620 | 70382 | 69179 | 68002 | 66062 | 65758 | 64675 | 63018 | 62586 | 61572 | 60594 |
| 37 | 76231 | 75536 | 74183 | 72872 | 71599 | 70362 | 69159 | 67282 | 66850 | 65739 | 64667 | 63601 | 62509 | 61562 | 60578 |
| 38 | 76908 | 75513 | 74161 | 72850 | 71578 | 70342 | 69140 | 67270 | 66831 | 65721 | 64639 | 63583 | 62552 | 61545 | 60561 |
| 39 | 76684 | 75490 | 74139 | 72629 | 71557 | 70321 | 69120 | 67251 | 66812 | 65703 | 64621 | 63566 | 62535 | 61522 | 60545 |
| 40 | 76861 | 75467 | 74117 | 72807 | 71536 | 70301 | 69100 | 67232 | 66794 | 65685 | 64603 | 63548 | 62518 | 61512 | 60629 |
| 41 | 76837 | 75444 | 74095 | 72786 | 71515 | 70281 | 69080 | 67912 | 66775 | 65660 | 64586 | 63531 | 62501 | 61496 | 60513 |
| 42 | 76613 | 75421 | 74072 | 72764 | 71494 | 70260 | 69661 | 67823 | 66756 | 65648 | 64368 | 63514 | 62485 | 61479 | 60496 |
| 43 | 76796 | 75398 | 74030 | 72743 | 71473 | 70240 | 69041 | 67874 | 66737 | 65630 | 64550 | 63496 | 62468 | 61463 | 60480 |
| 44 | 76766 | 75376 | 74020 | 72721 | 71453 | 70220 | 69021 | 67655 | 66719 | 65612 | 64532 | 63472 | 62461 | 61446 | 60464 |
| 45 | 76743 | 75353 | 74006 | 72706 | 71432 | 70200 | 69002 | 67836 | 66700 | 65594 | 64514 | 63402 | 62434 | 61429 | 60448 |
| 46 | 76719 | 75330 | 73981 | 72678 | 71411 | 70179 | 68982 | 67816 | 66681 | 65575 | 64497 | 63444 | 62417 | 61413 | 60432 |
| 47 | 76696 | 75307 | 73902 | 72657 | 71320 | 70159 | 68962 | 67727 | 66663 | 65557 | 64479 | 63427 | 62400 | 61396 | 60416 |
| 48 | 76672 | 75285 | 73940 | 72636 | 71369 | 70132 | 68942 | 67778 | 66644 | 65539 | 64461 | 63410 | 62383 | 61380 | 60399 |
| 49 | 76649 | 75262 | 73918 | 72614 | 71349 | 70119 | 68923 | 67759 | 66625 | 65521 | 64443 | 63322 | 62366 | 61363 | 60383 |
| 50 | 76625 | 75239 | 73896 | 72593 | 71328 | 70099 | 68903 | 67740 | 66667 | 65503 | 64426 | 63375 | 62349 | 61347 | 60367 |
| 51 | 76602 | 75216 | 73874 | 72571 | 71307 | 70078 | 08884 | 67721 | 66500 | 65484 | 64408 | 63358 | 62332 | 61330 | 60351 |
| 52 | 76578 | 75194 | 73852 | 72550 | 71286 | 70056 | 68801 | 67702 | 66570 | 65460 | 64390 | 63340 | 62315 | 61314 | 60335 |
| 53 | 76555 | 75171 | 73830 | 72529 | 71265 | 70038 | 68844 | 07682 | 66551 | 65448 | 64373 | 63323 | 62298 | 61297 | 60319 |
| 54 | 76531 | 75148 | 73808 | 72507 | 71245 | 70018 | 68825 | 67663 | 66532 | 65430 | 64335 | 63306 | 62282 | 61281 | 60303 |
| 55 | 76508 | 75126 | 73786 | 72486 | 71224 | 09998 | 68805 | 67644 | 66514 | 65412 | 64337 | 63289 | 62265 | 61264 | 60286 |
| 56 | 76485 | 75103 | 73764 | 72465 | 71203 | 69977 | 68785 | 67625 | 66495 | 65394 | 64320 | 63271 | 62248 | 61248 | 60270 |
| 57 | 76461 | 75080 | 73742 | 72443 | 71103 | 69257 | 68766 | 67606 | 66477 | 65376 | 64302 | 63254 | 62231 | 61231 | 60254 |
| 58 | 76438 | 75058 | 73720 | 72422 | 71162 | 69937 | 68746 | 67587 | 66458 | 65357 | 64284 | 63237 | 62214 | 61215 | 60238 |
| 59 | 76414 | 75035 | 73698 | 72401 | 71141 | 69917 | 68727 | 67568 | 66439 | 65339 | 64267 | 63220 | 62197 | 61198 | 60222 |

TABLA XIV. Logaritmos proporcionales

| " | 0 Grados, ó 0 Horas, | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| s | ′ m 46 | ′ m 46 | ′ m 47 | ′ m 48 | ′ m 49 | ′ m 50 | ′ m 51 | ′ m 52 | ′ m 53 | ′ m 54 | ′ m 55 | ′ m 56 | ′ m 57 | ′ m 58 | ′ m 59 |
| 0 | 50266 | 59251 | 88317 | 57453 | 56508 | 55636 | 54770 | 53227 | 53100 | 52288 | 51491 | 50708 | 49940 | 49164 | 48442 |
| 1 | 60120 | 59936 | 68302 | 57388 | 56423 | 55616 | 54756 | 53913 | 53088 | 59274 | 51478 | 50696 | 49927 | 49172 | 48430 |
| 2 | 66174 | 59220 | 58287 | 57373 | 56478 | 55601 | 54742 | 53822 | 53072 | 59261 | 51465 | 50683 | 42914 | 42152 | 48418 |
| 3 | 50158 | 59204 | 56271 | 57358 | 56463 | 55587 | 54728 | 53885 | 53052 | 59948 | 51452 | 50670 | 49202 | 42147 | 48405 |
| 4 | 60142 | 69189 | 86256 | 57343 | 56442 | 55572 | 54714 | 53871 | 53045 | 52234 | 51438 | 50657 | 42889 | 42135 | 48393 |
| 5 | 60126 | 59173 | 68241 | 57328 | 56434 | 55558 | 54699 | 63857 | 53031 | 52221 | 51425 | 50644 | 49876 | 49122 | 48381 |
| 6 | 60115 | 59187 | 58225 | 57313 | 56412 | 55543 | 54885 | 53843 | 53018 | 52208 | 51412 | 80631 | 49864 | 49110 | 48362 |
| 7 | 60094 | 59141 | 58210 | 57298 | 56404 | 55529 | 54671 | 53830 | 53004 | 52194 | 51322 | 50618 | 49851 | 49097 | 48366 |
| 8 | 60078 | 59126 | 88194 | 57283 | 58390 | 65515 | 54657 | 53816 | 52991 | 89181 | 51386 | 80605 | 49838 | 49085 | 48344 |
| 9 | 50061 | 59116 | 58179 | 57288 | 56375 | 55500 | 54843 | 53802 | 52977 | 52167 | 51373 | 50592 | 42896 | 49079 | 48332 |
| 10 | 60045 | 62594 | 58164 | 67253 | 56360 | 55486 | 54629 | 53788 | 52963 | 89154 | 51360 | 50579 | 42813 | 49060 | 48320 |
| 11 | 60629 | 59079 | 58148 | 57238 | 56345 | 55471 | 54614 | 53774 | 52950 | 52141 | 51346 | 50568 | 49800 | 49047 | 48307 |
| 12 | 50613 | 59563 | 56133 | 57223 | 56331 | 55457 | 54600 | 53780 | 52936 | 52127 | 61333 | 50554 | 49788 | 49035 | 48225 |
| 13 | 89997 | 89047 | 58118 | 57208 | 56316 | 55442 | 54586 | 53748 | 82929 | 52114 | 51320 | 50541 | 49775 | 49093 | 48283 |
| 14 | 52261 | 59032 | 58152 | 57193 | 56301 | 55428 | 54572 | 53732 | 82909 | 52161 | 51367 | 50528 | 49782 | 49010 | 48271 |
| 15 | 59285 | 59516 | 58087 | 57178 | 56287 | 55414 | 54558 | 53719 | 52825 | 52087 | 51294 | 50515 | 49750 | 48928 | 48258 |
| 16 | 89949 | 59060 | 58572 | 57163 | 56272 | 55399 | 54544 | 53705 | 52882 | 52074 | 51281 | 50562 | 49737 | 48985 | 48246 |
| 17 | 89233 | 58985 | 58555 | 57148 | 56257 | 55385 | 54530 | 53691 | 52888 | 52081 | 51268 | 50489 | 42724 | 48973 | 48234 |
| 18 | 52917 | 58289 | 58541 | 57133 | 58243 | 55370 | 54516 | 53677 | 52865 | 52047 | 51955 | 50478 | 49712 | 48960 | 48222 |
| 19 | 59961 | 58283 | 58526 | 57118 | 56228 | 55356 | 54501 | 53663 | 52841 | 52034 | 51242 | 50464 | 49692 | 48948 | 48210 |
| 20 | 89885 | 58238 | 58511 | 57103 | 56213 | 55342 | 64487 | 53849 | 52827 | 82091 | 51299 | 80451 | 49687 | 48236 | 48127 |
| 21 | 59870 | 58222 | 57295 | 57088 | 56199 | 55327 | 54473 | 53638 | 62814 | 52007 | 51218 | 50438 | 49674 | 48223 | 48185 |
| 22 | 52854 | 58907 | 57980 | 57673 | 56184 | 55313 | 54459 | 53629 | 52800 | 51294 | 51202 | 50425 | 49661 | 48911 | 48173 |
| 23 | 52838 | 58821 | 57285 | 57058 | 56169 | 55299 | 54445 | 53608 | 52787 | 51981 | 81189 | 50412 | 49649 | 48898 | 48181 |
| 24 | 52822 | 58675 | 57949 | 57043 | 58158 | 55284 | 54431 | 53594 | 52773 | 51967 | 51178 | 50392 | 49638 | 48886 | 48149 |
| 25 | 59808 | 58050 | 57234 | 57028 | 56140 | 55270 | 54417 | 53580 | 52760 | 81954 | 51183 | 50387 | 49693 | 48874 | 48136 |
| 26 | 59790 | 56844 | 57219 | 57013 | 58125 | 55255 | 54403 | 53567 | 52748 | 81241 | 51150 | 50374 | 42611 | 48861 | 48124 |
| 27 | 59774 | 58629 | 57904 | 56996 | 58111 | 55241 | 54389 | 53553 | 52732 | 51927 | 51137 | 50361 | 49528 | 48849 | 48112 |
| 28 | 59758 | 58813 | 57568 | 56983 | 58098 | 55227 | 54375 | 83539 | 52719 | 81914 | 51124 | 50348 | 49586 | 48836 | 48100 |
| 29 | 59742 | 58798 | 57573 | 56988 | 56581 | 55212 | 54361 | 53625 | 52708 | 81961 | 51111 | 50335 | 42573 | 48624 | 48588 |
| 30 | 59726 | 58782 | 57858 | 56953 | 58087 | 55198 | 54347 | 53811 | 52692 | 81888 | 51028 | 80322 | 49560 | 48812 | 48076 |
| 31 | 59710 | 58785 | 57843 | 56238 | 58552 | 55184 | 54332 | 53498 | 52676 | 51874 | 51085 | 50310 | 42648 | 48729 | 46063 |
| 32 | 59694 | 58751 | 57527 | 56223 | 56537 | 55169 | 54318 | 53484 | 52665 | 51881 | 51072 | 50297 | 42535 | 48787 | 48051 |
| 33 | 59678 | 58735 | 57612 | 56908 | 58023 | 55155 | 54304 | 53475 | 52851 | 51548 | 51062 | 50284 | 49523 | 48775 | 48039 |
| 34 | 59653 | 58725 | 57797 | 56893 | 56006 | 55141 | 54220 | 53455 | 52638 | 51635 | 51046 | 50271 | 49516 | 48762 | 48627 |
| 35 | 59647 | 68704 | 57762 | 56879 | 55294 | 55127 | 54276 | 53442 | 52624 | 51821 | 51033 | 50258 | 49428 | 48760 | 48015 |
| 36 | 59631 | 58582 | 57767 | 56864 | 55272 | 55112 | 54262 | 53429 | 82511 | 51608 | 51020 | 56246 | 49465 | 48737 | 48063 |
| 37 | 59515 | 56673 | 57751 | 56842 | 55964 | 55028 | 54248 | 53415 | 52597 | 51796 | 51507 | 50233 | 49472 | 48725 | 47996 |
| 36 | 59529 | 58658 | 57735 | 56634 | 55250 | 55064 | 54234 | 53401 | 52584 | 51781 | 50994 | 50226 | 49460 | 48713 | 47978 |
| 39 | 59853 | 58642 | 57721 | 56819 | 55935 | 55082 | 54226 | 53367 | 52576 | 51788 | 50281 | 56207 | 49447 | 48766 | 47966 |
| 40 | 59557 | 56627 | 87756 | 56804 | 55221 | 55055 | 84258 | 53374 | 52557 | 51755 | 50968 | 50194 | 49135 | 48688 | 47254 |
| 41 | 59551 | 58611 | 57691 | 56789 | 55956 | 55041 | 54122 | 53360 | 62543 | 81742 | 50955 | 50182 | 42422 | 48678 | 47943 |
| 42 | 59535 | 58596 | 57675 | 56774 | 85822 | 55025 | 54178 | 53348 | 52530 | 51729 | 50242 | 50169 | 49410 | 48663 | 47930 |
| 43 | 59520 | 58580 | 57556 | 56759 | 55877 | 55612 | 54164 | 83332 | 52518 | 51715 | 50229 | 56156 | 42327 | 48651 | 47918 |
| 44 | 82504 | 58565 | 57645 | 56745 | 55852 | 54922 | 84150 | 53312 | 62503 | 81702 | 50916 | 50143 | 42385 | 46639 | 47908 |
| 45 | 89488 | 58549 | 57630 | 56735 | 85848 | 54984 | 54136 | 53305 | 52489 | 51689 | 50903 | 50131 | 49372 | 48696 | 47893 |
| 45 | 89472 | 58534 | 57815 | 56715 | 55833 | 54269 | 54122 | 83291 | 82478 | 81878 | 50890 | 50118 | 42380 | 46614 | 47861 |
| 47 | 52457 | 58518 | 57600 | 56700 | 55812 | 54255 | 54158 | 53278 | 82462 | 81662 | 56877 | 50105 | 49347 | 46602 | 47869 |
| 48 | 59441 | 58503 | 57584 | 56885 | 85804 | 54941 | 84094 | 53264 | 52449 | 81649 | 50864 | 56022 | 49334 | 48590 | 47857 |
| 49 | 59425 | 58487 | 57569 | 56870 | 55790 | 54927 | 54080 | 53255 | 82438 | 81636 | 80851 | 55086 | 49322 | 46577 | 47845 |
| 50 | 52409 | 58472 | 57554 | 56658 | 55775 | 54212 | 84086 | 53236 | 52422 | 51623 | 50838 | 50007 | 49309 | 46565 | 47833 |
| 51 | 59393 | 58486 | 57539 | 56641 | 85761 | 54898 | 54052 | 53223 | 59409 | 51615 | 50825 | 50054 | 42297 | 48553 | 47821 |
| 52 | 52378 | 58441 | 57524 | 56625 | 55746 | 54884 | 54038 | 53209 | 52395 | 81528 | 50812 | 50041 | 42284 | 46540 | 47869 |
| 53 | 52362 | 58425 | 57509 | 56611 | 55732 | 54870 | 84024 | 53195 | 52352 | 81583 | 60792 | 50629 | 49272 | 46598 | 47797 |
| 54 | 59346 | 58410 | 57494 | 56596 | 55717 | 54555 | 84511 | 53182 | 52388 | 51570 | 50786 | 56016 | 42262 | 46516 | 47765 |
| 55 | 52330 | 58395 | 57479 | 56582 | 58703 | 54841 | 53997 | 53168 | 52355 | 51557 | 50773 | 50003 | 42247 | 46553 | 47772 |
| 56 | 59314 | 56379 | 57463 | 56567 | 55688 | 54827 | 53983 | 53154 | 52342 | 51544 | 50760 | 42991 | 42234 | 46421 | 47766 |
| 57 | 59299 | 56364 | 87446 | 56552 | 56674 | 54813 | 53969 | 53141 | 52328 | 61530 | 50747 | 42978 | 42222 | 48479 | 47746 |
| 58 | 59283 | 58348 | 57433 | 56537 | 55659 | 54799 | 53255 | 53127 | 52315 | 51517 | 55734 | 49965 | 49252 | 48457 | 47736 |
| 59 | 59267 | 58333 | 57418 | 56522 | 55645 | 54784 | 53241 | 53113 | 52361 | 81504 | 66721 | 42952 | 49197 | 48464 | 47724 |

**Tabla XIV.** **Logaritmos proporcionales.**

1 Grado, ó 1 Hora.

| ″ s | ′ m 0 | ′ m 1 | ′ m 2 | ′ m 3 | ′ m 4 | ′ m 5 | ′ m 6 | ′ m 7 | ′ m 8 | ′ m 9 | ′ m 10 | ′ m 11 | ′ m 12 | ′ m 13 | ′ m 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 47712 | 46994 | 46288 | 45593 | 44909 | 44236 | 43573 | 42920 | 42276 | 41642 | 41017 | 40401 | 39794 | 39125 | 38604 |
| 1 | 47700 | 46982 | 46276 | 45582 | 44898 | 44225 | 43562 | 42909 | 42266 | 41632 | 41007 | 40391 | 39784 | 39185 | 38594 |
| 2 | 47688 | 46971 | 46265 | 45570 | 41887 | 44214 | 43551 | 42898 | 42255 | 41621 | 40997 | 40381 | 39774 | 39175 | 38585 |
| 3 | 47676 | 46959 | 46253 | 45559 | 44875 | 44203 | 43540 | 42887 | 42244 | 41611 | 40986 | 40371 | 39764 | 39165 | 38575 |
| 4 | 47664 | 46947 | 46241 | 45547 | 44864 | 44191 | 43529 | 42877 | 42234 | 41600 | 40976 | 40361 | 39754 | 39155 | 38565 |
| 5 | 47652 | 46935 | 46230 | 45536 | 44853 | 44180 | 43518 | 42866 | 42223 | 41590 | 40966 | 40350 | 39744 | 39145 | 38555 |
| 6 | 47640 | 46923 | 46218 | 45524 | 44841 | 44169 | 43507 | 42855 | 42213 | 41579 | 40955 | 40340 | 39734 | 39136 | 38545 |
| 7 | 47628 | 46911 | 46206 | 45513 | 44830 | 44158 | 43496 | 42844 | 42202 | 41569 | 40945 | 40330 | 39724 | 39126 | 38536 |
| 8 | 47616 | 46899 | 46195 | 45501 | 44819 | 44147 | 43485 | 42833 | 42191 | 41559 | 40935 | 40320 | 39714 | 39116 | 38526 |
| 9 | 47604 | 46888 | 46183 | 45490 | 44808 | 44136 | 43474 | 42823 | 42181 | 41548 | 40924 | 40310 | 39704 | 39106 | 38516 |
| 10 | 47592 | 46876 | 46171 | 45470 | 44796 | 44125 | 43463 | 42812 | 42170 | 41538 | 40914 | 40300 | 39694 | 39096 | 38506 |
| 11 | 47580 | 46864 | 46160 | 45467 | 44785 | 44114 | 43452 | 42801 | 42159 | 41527 | 40904 | 40289 | 39684 | 39086 | 38497 |
| 12 | 47568 | 46852 | 46148 | 45156 | 44774 | 44102 | 43441 | 42790 | 42149 | 41517 | 40894 | 40279 | 39674 | 39076 | 38487 |
| 13 | 47556 | 46840 | 46137 | 45444 | 44762 | 44091 | 43431 | 42780 | 42138 | 41506 | 40883 | 40269 | 39664 | 39066 | 38477 |
| 14 | 47544 | 46828 | 46125 | 45433 | 44751 | 44080 | 43420 | 42769 | 42128 | 41496 | 40873 | 40259 | 39653 | 39056 | 38467 |
| 15 | 47532 | 46817 | 46113 | 45421 | 44740 | 44069 | 43409 | 42758 | 42117 | 41485 | 40863 | 40249 | 39643 | 39046 | 38458 |
| 16 | 47520 | 46805 | 46102 | 45410 | 44729 | 41038 | 43398 | 42747 | 42106 | 41475 | 40852 | 40239 | 39633 | 39037 | 38448 |
| 17 | 47508 | 46793 | 46090 | 45398 | 44717 | 44047 | 43387 | 42737 | 42096 | 41464 | 40842 | ·40228 | 39623 | 39027 | 38438 |
| 18 | 47496 | 46781 | 46078 | 45387 | 44706 | 44036 | 43376 | 42726 | 42085 | 41454 | 40832 | 40218 | 39613 | 39017 | 38428 |
| 19 | 47484 | 46769 | 46067 | 45375 | 44695 | 44025 | 43365 | 42715 | 42075 | 41443 | 40821 | 40208 | 39603 | 39007 | 38419 |
| 20 | 47472 | 46758 | 46055 | 45364 | 44684 | 44014 | 43354 | 42704 | 42064 | 41433 | 40811 | 40198 | 39593 | 38997 | 38409 |
| 21 | 47460 | 46746 | 46044 | 45353 | 44672 | 44003 | 43343 | 42693 | 42053 | 41423 | 40801 | 40188 | 39583 | 38987 | 38399 |
| 22 | 47448 | 46734 | 46032 | 45341 | 44661 | 43992 | 43332 | 42683 | 42043 | 41412 | 40791 | 40178 | 39573 | 38977 | 38389 |
| 23 | 47436 | 46722 | 46020 | 45330 | 44650 | 43981 | 43321 | 42672 | 42032 | 41402 | 40780 | 40168 | 39563 | 38268 | 38380 |
| 24 | 47424 | 46710 | 46009 | 45318 | 44639 | 43969 | 43310 | 42661 | 42022 | 41391 | 40770 | 40157 | 39553 | 38958 | 38370 |
| 25 | 47412 | 46699 | 45997 | 45307 | 44627 | 43958 | 43300 | 42651 | 42011 | 41381 | 40760 | 40147 | 39543 | 38948 | 38360 |
| 26 | .47400 | 46687 | 45986 | 45295 | 44616 | 43947 | 43289 | 42640 | 42000 | 41370 | 40749 | 40137 | 39533 | 38938 | 38351 |
| 27 | 47388 | 46675 | 45974 | 45284 | 44605 | 43936 | 43278 | 42629 | 41990 | 41360 | 40739 | 40127 | 39523 | 38928 | 38341 |
| 28 | 47376 | 46663 | 45962 | 45273 | 44594 | 43925 | 43267 | 42618 | 41979 | 41350 | 40729 | 40117 | 39513 | 38918 | 38331 |
| 29 | 47364 | 46652 | 45951 | 45261 | 44583 | 43914 | 43256 | 42608 | 41969 | 41339 | 40719 | 40107 | 39503 | 38908 | 38321 |
| 30 | 47352 | 46640 | 45939 | 45250 | 44571 | 43903 | 43245 | 42597 | 41958 | 41329 | 40708 | 40097 | 39493 | 38899 | 38312 |
| 31 | 47340 | 46628 | 45928 | 45238 | 44560 | 43892 | 43234 | 42586 | 41940 | 41318 | 40698 | 40087 | 39483 | 38889 | 38302 |
| 32 | 47328 | 46616 | 45916 | 45227 | 44549 | 43881 | 43223 | 42575 | 41237 | 41308 | 40688 | 40076 | 39473 | 38879 | 38292 |
| 33 | 47316 | 46604 | 45905 | 45216 | 44538 | 43870 | 43212 | 42565 | 41927 | 41298 | 40678 | 40066 | 39464 | 38869 | 38282 |
| 34 | 47304 | 46593 | 45893 | 45204 | 44526 | 43859 | 43202 | 42554 | 41916 | 41287 | 40667 | 40056 | 39454 | 38859 | 38273 |
| 35 | 47292 | 46581 | 45881 | 45193 | 44515 | 43848 | 43191 | 42543 | 41905 | 41277 | 40657 | 40046 | 39444 | 38849 | 38263 |
| 36 | 47280 | 46569 | 45878 | 45182 | 44504 | 43837 | 43180 | 42533 | 41895 | 41266 | 40647 | 40036 | 39434 | 38839 | 38253 |
| 37 | 47268 | 46557 | 45858 | 45170 | 44493 | 43826 | 43169 | 42522 | 41884 | 41256 | 40637 | 40026 | 39424 | 38830 | 38244 |
| 38 | 47256 | 46546 | 45847 | 45159 | 44482 | 43815 | 43158 | 42511 | 41874 | 41216 | 40626 | 40016 | 39414 | 38820 | 38234 |
| 39 | 47244 | 46534 | 45835 | 45147 | 44470 | 43804 | 43147 | 42500 | 41868 | 41235 | 40616 | 40006 | 39404 | 38810 | 38224 |
| 40 | 47232 | 46522 | 45824 | 45136 | 44459 | 43793 | 43136 | 42490 | 41853 | 41225 | 40606 | 39996 | 39394 | 38800 | 38215 |
| 41 | 47220 | 46510 | 45812 | 45125 | 44448 | 43782 | 43126 | 42479 | 41842 | 41214 | 40526 | 39985 | 39304 | 38790 | 38205 |
| 42 | 47208 | 46499 | 45800 | 45113 | 44437 | 43771 | 43115 | 42468 | 41832 | 41204 | 40585 | 39973 | 39374 | 38781 | 38195 |
| 43 | 47196 | 46487 | 45789 | 45102 | 44426 | 43760 | 43104 | 42458 | 41821 | 41194 | 40575 | 39963 | 39364 | 38771 | 38186 |
| 44 | 47185 | 46475 | 45777 | 45091 | 44414 | 43749 | 43093 | 42447 | 41811 | 41183 | 40565 | 39955 | 39354 | 38761 | 38176 |
| 45 | 47173 | 46464 | 45766 | 45079 | 44403 | 43738 | 43082 | 42436 | 41800 | 41173 | 40555 | 39945 | 39344 | 38751 | 38166 |
| 46 | 47161 | 46452 | 45754 | 45068 | 44392 | 43727 | 43071 | 42426 | 41789 | 41162 | 40544 | 39935 | 39334 | 38741 | 38156 |
| 47 | 47149 | 46440 | 45743 | 45057 | 44381 | 43716 | 43060 | 42415 | 41779 | 41152 | 40534 | 39925 | 39324 | 38731 | 38147 |
| 48 | 47137 | 46428 | 45731 | 45045 | 44370 | 43705 | 43050 | 42404 | 41768 | 41142 | 40524 | 39915 | 39314 | 38722 | 38137 |
| 49 | 47125 | 46417 | 45720 | 45034 | 44359 | 43694 | 43039 | 42394 | 41758 | 41131 | 40514 | 39905 | 39304 | 38712 | 38127 |
| 50 | 47113 | 46405 | 45708 | 45022 | 44347 | 43683 | 43028 | 42383 | 41747 | 41121 | 40503 | 39895 | 39294 | 38702 | 38118 |
| 51 | 47101 | 46393 | 45697 | 45011 | 44336 | 43672 | 43017 | 42372 | 41737 | 41111 | 40493 | 39885 | 39284 | 30692 | 38108 |
| 52 | 47089 | 46382 | 45685 | 45000 | 44325 | 43661 | 43006 | 42362 | 41726 | 41100 | 40483 | 39874 | 39274 | 38682 | 38098 |
| 53 | 47077 | 46370 | 45674 | 44988 | 44314 | 43650 | 42995 | 42351 | 41716 | 41090 | 40173 | 39864 | 39264 | 38673 | 38089 |
| 54 | 47066 | 46358 | 45662 | 44977 | 44303 | 43639 | 42985 | 42340 | 41705 | 41080 | 40463 | 39854 | 39254 | 38663 | 38079 |
| 55 | 47054 | 46346 | 45651 | 44966 | 44292 | 43628 | 42974 | 42330 | 41695 | 41069 | 40452 | 39844 | 39245 | 38653 | 38069 |
| 56 | 47042 | 46335 | 45639 | 44955 | 41280 | 43617 | 42963 | 42319 | 41684 | 41059 | 40442 | 39834 | 39235 | 38643 | 38060 |
| 57 | 47030 | 46323 | 45628 | 44943 | 44269 | 43606 | 42952 | 42308 | 41674 | 41048 | 40432 | 39824 | 39225 | 38633 | 38050 |
| 58 | 47018 | 46311 | 45616 | 44932 | 44258 | 43595 | 42941 | 42298 | 41663 | 41038 | 40422 | 39814 | 39215 | 38624 | 38040 |
| 59 | 47006 | 46300 | 45605 | 44921 | 44247 | 43584 | 42931 | 42287 | 41653 | 41028 | 40412 | 39804 | 39205 | 38614 | 38031 |

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TABLA XIV. **Logaritmos proporcionales.**

| ″ / s | 1 Grado, ó 1 Hora. ′ m 15 | ′ m 16 | ′ m 17 | ′ m 18 | ′ m 19 | ′ m 20 | ′ m 21 | ′ m 22 | ′ m 23 | ′ m 24 | ′ m 25 | ′ m 26 | ′ m 27 | ′ m 28 | ′ m 29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 38021 | 37446 | 36878 | 36318 | 35765 | 35218 | 34679 | 34146 | 33619 | 33099 | 32585 | 32077 | 31375 | 31079 | 30588 |
| 1 | 38011 | 37436 | 36869 | 36309 | 35755 | 35209 | 34670 | 34137 | 33611 | 33091 | 32577 | 32069 | 31567 | 31071 | 30580 |
| 2 | 38002 | 37427 | 36859 | 36299 | 35746 | 35200 | 34661 | 34128 | 33602 | 33082 | 32568 | 32061 | 31559 | 31063 | 30372 |
| 3 | 37992 | 37417 | 36850 | 36290 | 35737 | 35191 | 34652 | 34119 | 33593 | 33073 | 32560 | 32052 | 31550 | 31054 | 30564 |
| 4 | 37983 | 37408 | 36841 | 36281 | 35728 | 35182 | 34643 | 34111 | 33585 | 33065 | 32551 | 32044 | 31542 | 31046 | 30556 |
| 5 | 37973 | 37398 | 36831 | 36271 | 35719 | 35173 | 34634 | 34102 | 33576 | 33056 | 32543 | 32035 | 31534 | 31038 | 30548 |
| 6 | 37963 | 37389 | 36822 | 36262 | 35710 | 35164 | 34625 | 34093 | 33567 | 33048 | 32534 | 32027 | 31525 | 31030 | 30539 |
| 7 | 37954 | 37379 | 36812 | 36253 | 35700 | 35155 | 34616 | 34084 | 33558 | 33039 | 32526 | 32019 | 31517 | 31021 | 30531 |
| 8 | 37944 | 37370 | 36803 | 36244 | 35691 | 35146 | 34607 | 34075 | 33530 | 33030 | 32517 | 32010 | 31509 | 31013 | 30523 |
| 9 | 37934 | 37360 | 36794 | 36234 | 35682 | 35137 | 34598 | 34066 | 33541 | 33022 | 32509 | 32002 | 31501 | 31006 | 30515 |
| 10 | 37925 | 37351 | 36784 | 36225 | 35673 | 35128 | 34589 | 34058 | 33532 | 33013 | 32500 | 31993 | 31492 | 30997 | 30507 |
| 11 | 37915 | 37341 | 36775 | 36216 | 35664 | 35119 | 34581 | 34049 | 33524 | 33005 | 32492 | 31985 | 31484 | 30989 | 30499 |
| 12 | 37905 | 37332 | 36766 | 36207 | 35655 | 35110 | 34572 | 34040 | 33515 | 32996 | 32483 | 31977 | 31476 | 30980 | 30491 |
| 13 | 37896 | 37322 | 36756 | 36197 | 35646 | 35101 | 34563 | 34031 | 33506 | 32987 | 32475 | 31968 | 31467 | 30972 | 30483 |
| 14 | 37886 | 37313 | 36747 | 36188 | 35636 | 35092 | 34534 | 34022 | 33498 | 32979 | 32466 | 31960 | 31459 | 30964 | 30475 |
| 15 | 37877 | 37303 | 36737 | 36179 | 35627 | 35083 | 34545 | 34014 | 33489 | 32970 | 32458 | 31951 | 31451 | 30956 | 30466 |
| 16 | 37867 | 37294 | 36728 | 36170 | 35618 | 35074 | 34536 | 34005 | 33480 | 32962 | 32449 | 31943 | 31442 | 30948 | 30458 |
| 17 | 37857 | 37284 | 36719 | 36160 | 35609 | 35065 | 34527 | 33996 | 33471 | 32953 | 32441 | 31933 | 31434 | 30939 | 30450 |
| 18 | 37848 | 37275 | 36709 | 36151 | 35600 | 35056 | 34518 | 33987 | 33463 | 32944 | 32432 | 31926 | 31426 | 30931 | 30442 |
| 19 | 37838 | 37265 | 36700 | 36142 | 35591 | 35047 | 34509 | 33978 | 33454 | 32936 | 32424 | 31918 | 31418 | 30923 | 30434 |
| 20 | 37829 | 37256 | 36691 | 36133 | 35582 | 35038 | 34500 | 33970 | 33445 | 32927 | 32415 | 31909 | 31409 | 30913 | 30426 |
| 21 | 37819 | 37246 | 36681 | 36123 | 35573 | 35029 | 34491 | 33961 | 33437 | 32919 | 32407 | 31901 | 31401 | 30907 | 30418 |
| 22 | 37009 | 37237 | 36672 | 36114 | 35563 | 35020 | 34483 | 33952 | 33428 | 32910 | 32398 | 31893 | 31393 | 30898 | 30410 |
| 23 | 37800 | 37227 | 36663 | 36103 | 35554 | 35011 | 34474 | 33943 | 33419 | 32902 | 32390 | 31884 | 31384 | 30890 | 30402 |
| 24 | 37790 | 37218 | 36653 | 36096 | 35545 | 35002 | 34465 | 33935 | 33411 | 32893 | 32381 | 31876 | 31376 | 30882 | 30393 |
| 25 | 37781 | 37208 | 36644 | 36086 | 35536 | 34993 | 34456 | 33926 | 33402 | 32884 | 32373 | 31867 | 31368 | 30874 | 30385 |
| 26 | 37771 | 37199 | 36634 | 36077 | 35527 | 34984 | 34447 | 33917 | 33393 | 32876 | 32365 | 31859 | 31360 | 30866 | 30377 |
| 27 | 37761 | 37189 | 36625 | 36068 | 35510 | 34975 | 34438 | 33908 | 33385 | 32867 | 32356 | 31851 | 31351 | 30857 | 30369 |
| 28 | 37752 | 37180 | 36616 | 36059 | 35509 | 34966 | 34429 | 33899 | 33376 | 32859 | 32348 | 31842 | 31343 | 30849 | 30361 |
| 29 | 37742 | 37171 | 36606 | 36050 | 35500 | 31957 | 34420 | 33891 | 33367 | 32850 | 32339 | 31834 | 31335 | 30841 | 30353 |
| 30 | 37733 | 37161 | 36597 | 36040 | 35491 | 34948 | 34411 | 33882 | 33359 | 32842 | 32331 | 31826 | 31326 | 30833 | 30345 |
| 31 | 37723 | 37152 | 36588 | 36031 | 35481 | 34939 | 34403 | 33873 | 33350 | 32833 | 32322 | 31817 | 31318 | 30825 | 30337 |
| 32 | 37713 | 37142 | 36578 | 36022 | 35472 | 34930 | 34394 | 33864 | 33341 | 32824 | 32314 | 31809 | 31310 | 30817 | 30329 |
| 33 | 37704 | 37133 | 36569 | 36013 | 35463 | 34921 | 34385 | 33856 | 33333 | 32816 | 32305 | 31801 | 31302 | 30808 | 30321 |
| 34 | 37694 | 37123 | 36560 | 36003 | 35454 | 34912 | 34376 | 33847 | 33324 | 32807 | 32297 | 31792 | 31293 | 30800 | 30313 |
| 35 | 37683 | 37114 | 36550 | 35994 | 35445 | 34903 | 34367 | 33838 | 33315 | 32799 | 32288 | 31784 | 31285 | 30792 | 30305 |
| 36 | 37675 | 37104 | 36541 | 35985 | 35436 | 34894 | 34338 | 33829 | 33307 | 32790 | 32280 | 31773 | 31277 | 30784 | 30296 |
| 37 | 37665 | 37093 | 36532 | 35976 | 35427 | 34885 | 34349 | 33820 | 33298 | 32782 | 32271 | 31767 | 31269 | 30776 | 30288 |
| 38 | 37656 | 37085 | 36522 | 35967 | 35418 | 34876 | 34340 | 33812 | 33289 | 32773 | 32263 | 31759 | 31260 | 30768 | 30280 |
| 39 | 37646 | 37076 | 36313 | 35957 | 35409 | 34867 | 34332 | 33803 | 33281 | 32765 | 32255 | 31750 | 31252 | 30759 | 30272 |
| 40 | 37637 | 37067 | 36504 | 35948 | 35400 | 34858 | 34323 | 33794 | 33272 | 32756 | 32246 | 31742 | 31244 | 30751 | 30264 |
| 41 | 37627 | 37057 | 36494 | 35939 | 35391 | 34849 | 34314 | 33785 | 33263 | 32747 | 32230 | 31734 | 31236 | 30743 | 30256 |
| 42 | 37618 | 37048 | 36485 | 35930 | 35381 | 34040 | 34305 | 33777 | 33235 | 32739 | 32229 | 31725 | 31227 | 30735 | 30248 |
| 43 | 37608 | 37038 | 36476 | 35921 | 35372 | 34031 | 34296 | 33768 | 33246 | 32730 | 32221 | 31717 | 31219 | 30727 | 30240 |
| 44 | 37399 | 37029 | 36467 | 35911 | 35363 | 34822 | 34287 | 33759 | 33237 | 32722 | 32212 | 31709 | 31211 | 30718 | 30232 |
| 45 | 37589 | 37019 | 36457 | 35902 | 35354 | 34813 | 34278 | 33730 | 33229 | 32713 | 32204 | 31700 | 31203 | 30710 | 30224 |
| 46 | 37579 | 37010 | 36448 | 35893 | 35345 | 34804 | 34270 | 33742 | 33220 | 32703 | 32193 | 31692 | 31194 | 30702 | 30216 |
| 47 | 37570 | 37001 | 36439 | 35884 | 35336 | 34795 | 34261 | 33733 | 33211 | 32696 | 32187 | 31684 | 31186 | 30694 | 30208 |
| 48 | 37560 | 36991 | 36429 | 35875 | 35327 | 34786 | 34252 | 33724 | 33203 | 32688 | 32179 | 31675 | 31178 | 30686 | 30200 |
| 49 | 37531 | 36982 | 36428 | 35865 | 35318 | 34777 | 34243 | 33715 | 33194 | 32679 | 32170 | 31667 | 31170 | 30678 | 30192 |
| 50 | 37541 | 36972 | 36411 | 35856 | 33309 | 34768 | 34234 | 33707 | 33186 | 32671 | 32162 | 31659 | 31161 | 30670 | 30183 |
| 51 | 37532 | 36963 | 36401 | 35847 | 35300 | 34759 | 34225 | 33698 | 33177 | 32662 | 32153 | 31650 | 31133 | 30662 | 30175 |
| 52 | 37522 | 36953 | 36392 | 35838 | 35291 | 34750 | 34217 | 33689 | 33168 | 32654 | 32145 | 31642 | 31143 | 30653 | 30167 |
| 53 | 37313 | 36944 | 36383 | 35829 | 35282 | 34741 | 34208 | 33681 | 33160 | 32645 | 32136 | 31634 | 31137 | 30645 | 30159 |
| 54 | 37503 | 36935 | 36374 | 35820 | 35273 | 34732 | 34199 | 33672 | 33131 | 32636 | 32128 | 31625 | 31128 | 30637 | 30131 |
| 55 | 37494 | 36925 | 36364 | 35818 | 35264 | 34723 | 34190 | 33663 | 33142 | 32628 | 32120 | 31617 | 31120 | 30629 | 30143 |
| 56 | 37484 | 36916 | 36355 | 35801 | 35254 | 34715 | 34181 | 33654 | 33134 | 32619 | 32111 | 31609 | 31112 | 30621 | 30135 |
| 57 | 37474 | 36906 | 36346 | 35792 | 35245 | 34706 | 34172 | 33646 | 33125 | 32611 | 32103 | 31608 | 31104 | 30613 | 30127 |
| 58 | 37465 | 36897 | 36336 | 35783 | 35236 | 34697 | 34164 | 33637 | 33117 | 32602 | 32094 | 31592 | 31095 | 30605 | 30119 |
| 59 | 37433 | 36888 | 36327 | 35774 | 35227 | 34688 | 34153 | 33628 | 33108 | 32594 | 32086 | 31584 | 31087 | 30596 | 30111 |

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**Tabla XIV.** **Logaritmos proporcionales.**

| ″ s | 1 Grado, ó 1 Hora. ′ m 30 | ′ m 31 | ′ m 32 | ′ m 33 | ′ m 34 | ′ m 35 | ′ m 36 | ′ m 37 | ′ m 38 | ′ m 39 | ′ m 40 | ′ m 41 | ′ m 42 | ′ m 43 | ′ m 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 36163 | 29623 | 29148 | 28679 | 28214 | 27755 | 27305 | 26858 | 26485 | 25964 | 25527 | 25695 | 24667 | 24244 | 23824 |
| 1 | 38895 | 29615 | 29141 | 28871 | 28207 | 27747 | 27293 | 26843 | 28397 | 25956 | 25520 | 25088 | 24666 | 24237 | 23617 |
| 2 | 38687 | 29607 | 29133 | 28663 | 28199 | 27748 | 27285 | 26535 | 28320 | 25949 | 25513 | 25081 | 24853 | 24222 | 23810 |
| 3 | 50879 | 29599 | 29125 | 28856 | 28191 | 27732 | 27278 | 25528 | 28382 | 25942 | 25506 | 25074 | 24646 | 24222 | 23803 |
| 4 | 38571 | 29591 | 29117 | 28648 | 28184 | 27724 | 27278 | 26820 | 28575 | 25954 | 25498 | 25066 | 24532 | 94215 | 23796 |
| 5 | 30863 | 29583 | 29109 | 28840 | 28178 | 27717 | 27282 | 28813 | 26588 | 25997 | 25491 | 25852 | 24632 | 24266 | 23769 |
| 6 | 30855 | 29575 | 29101 | 28552 | 28168 | 27762 | 27255 | 26805 | 26380 | 25920 | 25484 | 25052 | 24895 | 24261 | 23782 |
| 7 | 38847 | 29387 | 29623 | 28825 | 28161 | 27782 | 27247 | 26728 | 26553 | 25913 | 25477 | 25845 | 24616 | 94194 | 23775 |
| 8 | 58532 | 29560 | 29668 | 28817 | 28153 | 27694 | 27240 | 26790 | 28546 | 25905 | 25469 | 25038 | 24616 | 24167 | 93768 |
| 9 | 50031 | 29552 | 29875 | 28609 | 28145 | 27686 | 27932 | 26785 | 26338 | 25896 | 25469 | 25031 | 24883 | 24186 | 23761 |
| 10 | 30523 | 29514 | 29870 | 28651 | 28138 | 27879 | 27925 | 26775 | 26331 | 25891 | 95455 | 25094 | 24596 | 24173 | 23754 |
| 11 | 38515 | 29536 | 29562 | 28593 | 28130 | 27671 | 27217 | 26768 | 26323 | 25883 | 25448 | 25016 | 24582 | 24166 | 25747 |
| 12 | 38007 | 29525 | 29554 | 28586 | 28122 | 27564 | 27218 | 26781 | 26316 | 25676 | 25448 | 25809 | 24589 | 94159 | 23745 |
| 15 | 29999 | 29526 | 29646 | 28578 | 28114 | 27656 | 27262 | 26753 | 26302 | 25862 | 25433 | 25502 | 24575 | 24152 | 23734 |
| 14 | 29991 | 29512 | 29038 | 28578 | 28157 | 27548 | 27195 | 26746 | 26381 | 25861 | 25426 | 24925 | 24368 | 24145 | 23727 |
| 15 | 29985 | 29504 | 29851 | 28582 | 28099 | 27641 | 27187 | 26738 | 26294 | 25834 | 25419 | 94986 | 24581 | 24136 | 93726 |
| 15 | 99975 | 29126 | 29823 | 28555 | 28021 | 27633 | 27180 | 26731 | 26287 | 25847 | 25412 | 24281 | 24554 | 24131 | 95715 |
| 17 | 29966 | 29468 | 29015 | 28547 | 28084 | 27628 | 27172 | 28725 | 26279 | 25839 | 25454 | 24974 | 24547 | 24124 | 23706 |
| 16 | 99958 | 29465 | 29007 | 28559 | 28076 | 27818 | 27165 | 26716 | 26972 | 25839 | 25327 | 24966 | 24548 | 24117 | 23699 |
| 19 | 99950 | 29472 | 28929 | 28551 | 28068 | 27810 | 27157 | 28709 | 26265 | 25825 | 25590 | 24259 | 24533 | 24110 | 23692 |
| 20 | 29942 | 25464 | 28991 | 28524 | 28081 | 27803 | 27150 | 28701 | 26257 | 25818 | 25383 | 24952 | 24526 | 24163 | 23665 |
| 21 | 29234 | 29456 | 28984 | 28516 | 28055 | 27595 | 27142 | 28694 | 26250 | 25615 | 25376 | 24945 | 24516 | 24898 | 23678 |
| 22 | 29926 | 29148 | 28978 | 20586 | 28045 | 27588 | 27135 | 28686 | 26242 | 25803 | 25368 | 24938 | 24311 | 94589 | 23671 |
| 25 | 29918 | 29441 | 28968 | 28500 | 28038 | 27580 | 27127 | 28679 | 28255 | 25796 | 95361 | 24951 | 24564 | 24682 | 23664 |
| 94 | 23915 | 29133 | 26968 | 28493 | 28630 | 27572 | 27120 | 26671 | 26228 | 25789 | 25354 | 24925 | 24427 | 24675 | 23657 |
| 25 | 29902 | 29425 | 28952 | 28483 | 28022 | 27565 | 27112 | 26664 | 28290 | 25781 | 25347 | 24916 | 24428 | 24568 | 23650 |
| 96 | 29894 | 29417 | 28944 | 28477 | 28815 | 27557 | 27105 | 26656 | 26915 | 25774 | 25339 | 24902 | 24485 | 24861 | 23643 |
| 27 | 29865 | 29489 | 28937 | 28489 | 28007 | 27555 | 27027 | 28649 | 28906 | 25787 | 25332 | 24902 | 24476 | 24854 | 23636 |
| 28 | 29576 | 29481 | 28929 | 28462 | 27999 | 27542 | 27690 | 28642 | 28198 | 25759 | 25325 | 24695 | 24462 | 24047 | 23629 |
| 29 | 29676 | 29395 | 28921 | 28454 | 27992 | 27534 | 27882 | 28634 | 26191 | 25752 | 25318 | 24688 | 24462 | 24046 | 23625 |
| 38 | 29862 | 29385 | 28915 | 28148 | 27984 | 27527 | 27075 | 26827 | 28184 | 25745 | 25311 | 24881 | 24455 | 24033 | 23616 |
| 31 | 99654 | 29377 | 28205 | 28450 | 27976 | 27519 | 27567 | 28619 | 28176 | 25738 | 25503 | 24874 | 24448 | 24026 | 23609 |
| 32 | 29645 | 29352 | 28897 | 28431 | 27962 | 97512 | 27065 | 26612 | 26162 | 25730 | 25296 | 24686 | 24441 | 24619 | 93662 |
| 33 | 29838 | 29351 | 28828 | 28423 | 27261 | 27504 | 27032 | 28505 | 28162 | 25723 | 25289 | 24659 | 24434 | 24512 | 23595 |
| 34 | 29850 | 29354 | 26562 | 28415 | 27953 | 27427 | 27645 | 28597 | 26154 | 25716 | 25282 | 24852 | 24427 | 24665 | 23566 |
| 35 | 29822 | 29346 | 28874 | 28457 | 27945 | 27459 | 27837 | 28595 | 28147 | 25702 | 25278 | 24845 | 24425 | 25998 | 95581 |
| 38 | 29514 | 29336 | 28565 | 26400 | 27938 | 27461 | 27630 | 28562 | 28140 | 25761 | 25287 | 24838 | 24413 | 93991 | 25574 |
| 37 | 29806 | 29330 | 28658 | 28392 | 27930 | 27474 | 27822 | 26575 | 26132 | 25694 | 25280 | 24831 | 24455 | 23964 | 23567 |
| 36 | 29795 | 29322 | 28851 | 28384 | 27223 | 27465 | 27515 | 28587 | 26125 | 25667 | 25253 | 24824 | 24396 | 23977 | 23566 |
| 39 | 29796 | 29314 | 28643 | 28376 | 27915 | 27452 | 27687 | 28560 | 26110 | 25885 | 25246 | 24617 | 24391 | 23976 | 23553 |
| 48 | 29752 | 22385 | 28635 | 28369 | 27908 | 27451 | 27500 | 26553 | 28110 | 25672 | 95232 | 94809 | 24384 | 23963 | 93546 |
| 41 | 29775 | 29298 | 26027 | 28361 | 27955 | 27444 | 26992 | 26545 | 28183 | 25665 | 25231 | 24852 | 24377 | 23956 | 23559 |
| 42 | 29767 | 29295 | 28619 | 28353 | 27892 | 27436 | 26965 | 26538 | 26095 | 28658 | 25224 | 24725 | 24378 | 23949 | 93533 |
| 43 | 29759 | 29282 | 28811 | 28346 | 27805 | 27428 | 25977 | 26530 | 26688 | 25650 | 95217 | 24788 | 24363 | 23949 | 23526 |
| 44 | 29751 | 29275 | 28854 | 28538 | 27877 | 27421 | 26970 | 26523 | 26581 | 25545 | 28216 | 24781 | 24356 | 23935 | 23519 |
| 45 | 29743 | 29267 | 28796 | 28338 | 27869 | 27415 | 26969 | 28518 | 26074 | 25638 | 25903 | 24774 | 24349 | 23928 | 93519 |
| 48 | 29735 | 29252 | 28788 | 28322 | 27862 | 27466 | 26955 | 26568 | 26056 | 25599 | 25128 | 24787 | 24542 | 23921 | 23505 |
| 47 | 29727 | 29251 | 28788 | 28315 | 27834 | 27326 | 26947 | 26551 | 26559 | 25621 | 25188 | 24786 | 24335 | 23914 | 95498 |
| 48 | 29719 | 29243 | 28772 | 28307 | 97848 | 27391 | 28946 | 28493 | 26052 | 25614 | 25161 | 24752 | 24328 | 23908 | 93491 |
| 49 | 29711 | 99935 | 28765 | 28299 | 27839 | 26363 | 26932 | 28466 | 26544 | 25667 | 25174 | 24745 | 24321 | 23981 | 23484 |
| 50 | 29753 | 29227 | 98757 | 28922 | 97831 | 27378 | 26925 | 26479 | 26837 | 25808 | 25187 | 24758 | 24314 | 23894 | 23477 |
| 51 | 29895 | 29219 | 98749 | 98284 | 97824 | 27368 | 28917 | 96471 | 28638 | 25599 | 25185 | 24731 | 24387 | 23887 | 93478 |
| 52 | 99687 | 29911 | 28741 | 28976 | 27818 | 27360 | 28915 | 26464 | 96622 | 25585 | 25152 | 24724 | 24386 | 93888 | 23464 |
| 53 | 29879 | 29204 | 28733 | 28268 | 27808 | 27353 | 26969 | 26456 | 28815 | 25578 | 25145 | 24717 | 24293 | 23673 | 25457 |
| 54 | 29671 | 29198 | 28728 | 28961 | 97801 | 27345 | 26695 | 28449 | 28666 | 25571 | 25138 | 24710 | 24286 | 23866 | 23458 |
| 55 | 29863 | 29188 | 98718 | 28253 | 97793 | 27338 | 26887 | 26442 | 96000 | 25563 | 25131 | 24783 | 24279 | 23859 | 23443 |
| 56 | 29855 | 29180 | 98716 | 28245 | 27765 | 27330 | 26860 | 96434 | 25923 | 25556 | 25124 | 24896 | 24272 | 23859 | 23436 |
| 57 | 29847 | 29172 | 28702 | 28238 | 27778 | 27525 | 26872 | 26427 | 25986 | 25549 | 25117 | 24689 | 24285 | 23645 | 23499 |
| 58 | 29839 | 29164 | 28695 | 28938 | 27770 | 27315 | 26865 | 25490 | 25976 | 25542 | 25109 | 24661 | 24956 | 93638 | 23422 |
| 59 | 29631 | 29156 | 28887 | 26292 | 27763 | 27306 | 26858 | 25412 | 25971 | 98534 | 28109 | 24674 | 24251 | 25831 | 23415 |

TABLA XIV. **Logaritmos proporcionales.**

| s | 1 Grado, ó 1 Hora. m 45 | m 46 | m 47 | m 48 | m 49 | m 50 | m 51 | m 52 | m 53 | m 54 | m 55 | m 56 | m 57 | m 58 | m 59 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 23408 | 22997 | 22589 | 22185 | 21783 | 21388 | 20995 | 20605 | 20212 | 12837 | 19457 | 12081 | 18709 | 18339 | 17973 |
| 1 | 23401 | 22920 | 22582 | 22178 | 21778 | 21381 | 20288 | 20592 | 20213 | 19830 | 12451 | 19875 | 18702 | 18333 | 17966 |
| 2 | 23325 | 22983 | 22575 | 22171 | 21771 | 21375 | 20982 | 20593 | 20207 | 12824 | 12445 | 12009 | 18696 | 18327 | 17960 |
| 3 | 23388 | 22976 | 22562 | 22165 | 21765 | 21368 | 20275 | 20506 | 20200 | 12818 | 12439 | 12003 | 18620 | 18321 | 17954 |
| 4 | 23381 | 22262 | 22562 | 22158 | 21758 | 21362 | 20262 | 20580 | 20124 | 19811 | 19432 | 12050 | 18684 | 18315 | 17948 |
| 5 | 23374 | 22263 | 22555 | 22151 | 21751 | 21355 | 20962 | 20573 | 20187 | 12805 | 19426 | 12050 | 18678 | 18308 | 17242 |
| 6 | 23367 | 22256 | 22548 | 22145 | 21745 | 21342 | 20256 | 20567 | 20181 | 19799 | 12420 | 19044 | 18672 | 18302 | 17936 |
| 7 | 23360 | 22242 | 22542 | 22138 | 21738 | 21342 | 20242 | 20560 | 20175 | 19792 | 19413 | 12038 | 18665 | 18296 | 17930 |
| 8 | 23353 | 22242 | 22535 | 22131 | 21732 | 21335 | 20243 | 20554 | 20108 | 12786 | 12407 | 19032 | 18659 | 18220 | 17924 |
| 9 | 23346 | 22235 | 22528 | 22125 | 21725 | 21329 | 20230 | 20547 | 20162 | 12788 | 12401 | 19025 | 18653 | 18284 | 17218 |
| 10 | 23339 | 22928 | 22521 | 22118 | 21718 | 21322 | 20230 | 20541 | 20155 | 12773 | 19395 | 19019 | 18647 | 18278 | 17912 |
| 11 | 23333 | 22222 | 22515 | 22111 | 21712 | 21316 | 20923 | 20534 | 20149 | 19767 | 19388 | 19013 | 18641 | 18272 | 17906 |
| 12 | 23326 | 22215 | 22508 | 22105 | 21705 | 21302 | 20217 | 20528 | 20143 | 19761 | 19382 | 19007 | 18634 | 18266 | 17900 |
| 13 | 23312 | 22908 | 22501 | 22028 | 21698 | 21303 | 20210 | 20522 | 20136 | 19754 | 19370 | 19000 | 18628 | 18259 | 17824 |
| 14 | 23312 | 22901 | 22424 | 22091 | 21622 | 21226 | 20904 | 20515 | 20130 | 19748 | 19362 | 18994 | 18622 | 18253 | 17887 |
| 15 | 23305 | 22894 | 22488 | 22084 | 21685 | 21289 | 20897 | 20502 | 20123 | 12742 | 19303 | 18288 | 18016 | 18247 | 17881 |
| 16 | 23298 | 22888 | 22481 | 22078 | 21678 | 21283 | 20821 | 20502 | 20117 | 19735 | 19357 | 18982 | 18610 | 18241 | 17875 |
| 17 | 23221 | 22881 | 22474 | 22071 | 21672 | 21276 | 20884 | 20496 | 20111 | 19729 | 12351 | 18970 | 18604 | 18235 | 17862 |
| 18 | 23284 | 22874 | 22467 | 22064 | 21665 | 21270 | 20878 | 20489 | 20104 | 19723 | 19344 | 18969 | 18527 | 18229 | 17863 |
| 12 | 23278 | 22867 | 22401 | 22058 | 21659 | 21263 | 20871 | 20483 | 20098 | 19716 | 12338 | 18963 | 18521 | 18223 | 17857 |
| 20 | 23271 | 22860 | 22454 | 22051 | 21652 | 21257 | 20865 | 20476 | 20021 | 19710 | 19332 | 18957 | 18585 | 18217 | 17851 |
| 21 | 23264 | 22854 | 22447 | 22044 | 21645 | 21250 | 20858 | 20470 | 20085 | 12704 | 12325 | 18951 | 18579 | 18210 | 17845 |
| 22 | 23257 | 22847 | 22440 | 22038 | 21639 | 21243 | 20832 | 20464 | 20079 | 12697 | 19312 | 18944 | 18573 | 18204 | 17839 |
| 23 | 23250 | 22840 | 22434 | 22031 | 21632 | 21237 | 20845 | 20457 | 20072 | 19691 | 12313 | 18238 | 18567 | 18128 | 17833 |
| 24 | 23243 | 22833 | 22427 | 22024 | 21626 | 21230 | 20839 | 20451 | 20066 | 19685 | 19307 | 18932 | 18560 | 18192 | 17827 |
| 25 | 23236 | 22820 | 22420 | 22018 | 21619 | 21224 | 20832 | 20444 | 20060 | 12678 | 19300 | 18226 | 18554 | 18186 | 17821 |
| 26 | 23229 | 22819 | 22413 | 22011 | 21612 | 21217 | 20826 | 20438 | 20053 | 12672 | 19224 | 18220 | 18548 | 18180 | 17815 |
| 27 | 23223 | 22813 | 22407 | 22094 | 21606 | 21211 | 20812 | 20431 | 20047 | 19666 | 19280 | 18913 | 18542 | 18174 | 17802 |
| 28 | 23216 | 22806 | 22400 | 21998 | 21522 | 21204 | 20813 | 20425 | 20040 | 19652 | 12282 | 18907 | 18536 | 18168 | 17803 |
| 29 | 23209 | 22799 | 22393 | 21921 | 21522 | 21128 | 20806 | 20418 | 20034 | 19653 | 19275 | 18901 | 18530 | 18162 | 17727 |
| 30 | 23202 | 22792 | 22386 | 21284 | 21586 | 21191 | 20800 | 20412 | 20028 | 19647 | 19269 | 18825 | 18523 | 18155 | 17790 |
| 31 | 23125 | 22785 | 22380 | 21978 | 21579 | 21184 | 20793 | 20406 | 20021 | 19640 | 19203 | 18888 | 18517 | 18149 | 17784 |
| 32 | 23188 | 22779 | 22373 | 21971 | 21573 | 21178 | 20787 | 20392 | 20015 | 19634 | 19257 | 18882 | 18511 | 18143 | 17778 |
| 33 | 23181 | 22772 | 22360 | 21964 | 21566 | 21171 | 20780 | 20323 | 20009 | 19628 | 12250 | 18876 | 18505 | 18137 | 17772 |
| 34 | 23175 | 22765 | 22359 | 21958 | 21559 | 21105 | 20774 | 20386 | 20002 | 19621 | 19244 | 18870 | 18499 | 18131 | 17766 |
| 35 | 23168 | 22758 | 22353 | 21251 | 21553 | 21158 | 20767 | 20380 | 19226 | 12615 | 19238 | 18864 | 18493 | 18125 | 17760 |
| 36 | 23161 | 22752 | 22346 | 21944 | 21546 | 21152 | 20761 | 20373 | 19989 | 19609 | 19231 | 18857 | 18487 | 18119 | 17754 |
| 37 | 23154 | 22745 | 22332 | 21238 | 21540 | 21145 | 20754 | 20307 | 19983 | 19602 | 19225 | 18851 | 18480 | 18113 | 17748 |
| 38 | 23147 | 22738 | 22333 | 21931 | 21533 | 21139 | 20748 | 20361 | 12277 | 19526 | 19219 | 18845 | 18474 | 18107 | 17742 |
| 32 | 23140 | 22731 | 22326 | 21224 | 21520 | 21132 | 20741 | 20354 | 19270 | 19590 | 19213 | 18839 | 18468 | 18100 | 17730 |
| 40 | 23133 | 22724 | 22319 | 21918 | 21520 | 21126 | 20735 | 20348 | 19904 | 12584 | 12206 | 18833 | 18462 | 18024 | 17730 |
| 41 | 23127 | 22718 | 22312 | 21911 | 21513 | 21119 | 20728 | 20341 | 12958 | 19577 | 19200 | 18826 | 18456 | 10088 | 17724 |
| 42 | 23120 | 22711 | 22300 | 21904 | 21507 | 21112 | 20722 | 20335 | 12951 | 19571 | 12124 | 18820 | 18450 | 18082 | 17718 |
| 43 | 23113 | 22704 | 22229 | 21898 | 21500 | 21106 | 20715 | 20328 | 19945 | 19565 | 12188 | 18814 | 18443 | 18076 | 17712 |
| 44 | 23106 | 22697 | 22222 | 21891 | 21493 | 21092 | 20702 | 20322 | 19238 | 19558 | 12181 | 18808 | 18437 | 18070 | 17706 |
| 45 | 23029 | 22090 | 22280 | 21884 | 21487 | 21023 | 20702 | 20316 | 12232 | 12552 | 12175 | 18802 | 18431 | 18004 | 17700 |
| 40 | 23092 | 22684 | 22272 | 21878 | 21480 | 21080 | 20690 | 20309 | 19926 | 12540 | 12109 | 18725 | 18425 | 18058 | 17694 |
| 47 | 23080 | 22677 | 22272 | 21871 | 21474 | 21080 | 20620 | 20303 | 19919 | 19532 | 19163 | 18789 | 18419 | 18052 | 17688 |
| 48 | 23079 | 22070 | 22205 | 21064 | 21467 | 21073 | 20083 | 20296 | 19213 | 19533 | 12150 | 18783 | 18413 | 18040 | 17682 |
| 42 | 23072 | 22063 | 22252 | 21858 | 21400 | 21067 | 20677 | 20220 | 12207 | 19527 | 12150 | 18777 | 18407 | 18040 | 17676 |
| 50 | 23065 | 22057 | 22252 | 21851 | 21454 | 21060 | 20670 | 20284 | 19900 | 12520 | 19144 | 18771 | 18400 | 18033 | 17602 |
| 51 | 23058 | 22650 | 22245 | 21844 | 21447 | 21054 | 20004 | 20277 | 12024 | 12514 | 19138 | 18764 | 10394 | 18027 | 17003 |
| 52 | 23051 | 22043 | 22239 | 21838 | 21441 | 21047 | 20657 | 20271 | 19888 | 19508 | 19131 | 18758 | 18388 | 18021 | 17657 |
| 53 | 23044 | 22630 | 22232 | 21831 | 21434 | 21041 | 20651 | 20264 | 19881 | 12502 | 12125 | 10752 | 18382 | 18015 | 17651 |
| 54 | 23038 | 22022 | 22225 | 21824 | 21427 | 21034 | 20644 | 20250 | 19875 | 12425 | 19112 | 10746 | 18376 | 18009 | 17645 |
| 55 | 23031 | 22623 | 22218 | 21818 | 21421 | 21028 | 20038 | 20251 | 19869 | 19489 | 19113 | 10740 | 18370 | 18003 | 17039 |
| 50 | 23024 | 22610 | 22212 | 21811 | 21414 | 21021 | 20631 | 20245 | 19862 | 19483 | 19100 | 18733 | 18364 | 17227 | 17633 |
| 57 | 23017 | 22609 | 22205 | 21005 | 21400 | 21015 | 20625 | 20239 | 19856 | 12470 | 19100 | 18727 | 18357 | 17291 | 17627 |
| 58 | 23010 | 22602 | 22128 | 21798 | 21401 | 21008 | 20018 | 20232 | 12842 | 19470 | 19094 | 18721 | 18351 | 17985 | 17621 |
| 59 | 23003 | 22520 | 22192 | 21721 | 21395 | 21001 | 20612 | 20220 | 19043 | 19464 | 19080 | 10715 | 18345 | 17272 | 17615 |

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**Tabla XIV.** **Logaritmos proporcionales.**

| ″ | 2 Grados, ó 2 Horas. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| s | ′ m 0 | ′ m 1 | ′ m 2 | ′ m 3 | ′ m 4 | ′ m 5 | ′ m 6 | ′ m 7 | ′ m 8 | ′ m 9 | ′ m 10 | ′ m 11 | ′ m 12 | ′ m 13 | ′ m 14 | ′ m 15 | ′ m 16 | ′ m 17 |
| 0 | 17609 | 17249 | 16891 | 16537 | 16165 | 15036 | 13490 | 13147 | 14806 | 14468 | 14133 | 13800 | 13478 | 13142 | 12817 | 12424 | 12173 | 11856 |
| 1 | 17603 | 17243 | 16885 | 16531 | 16179 | 15638 | 15484 | 15141 | 14801 | 14463 | 14127 | 13795 | 13464 | 13137 | 12611 | 12482 | 12168 | 11858 |
| 2 | 17397 | 17237 | 16679 | 16525 | 16173 | 15625 | 15479 | 15135 | 14795 | 14457 | 14122 | 13789 | 13459 | 13131 | 12806 | 12483 | 12163 | 11845 |
| 3 | 17591 | 17231 | 16073 | 16519 | 16168 | 15819 | 15473 | 15136 | 14789 | 14451 | 14116 | 13784 | 13453 | 13126 | 12061 | 12478 | 12157 | 11839 |
| 4 | 17585 | 17225 | 16068 | 16513 | 16162 | 15613 | 13467 | 13124 | 14784 | 14446 | 14111 | 13778 | 13448 | 13120 | 12725 | 12472 | 12132 | 11834 |
| 5 | 17579 | 17219 | 16862 | 16567 | 16156 | 15807 | 15461 | 15118 | 14778 | 14440 | 14105 | 13773 | 13442 | 13113 | 12790 | 12467 | 12147 | 11829 |
| 6 | 17573 | 17213 | 16856 | 16501 | 16150 | 15802 | 13456 | 15113 | 14772 | 14433 | 14160 | 13767 | 13437 | 13109 | 12784 | 12462 | 12141 | 11824 |
| 7 | 17367 | 17267 | 16850 | 16496 | 16144 | 15796 | 15450 | 15107 | 14767 | 14429 | 14094 | 13761 | 13431 | 13104 | 12779 | 12436 | 12136 | 11618 |
| 8 | 17561 | 17261 | 16844 | 16490 | 16138 | 15790 | 15444 | 15161 | 14761 | 14423 | 14068 | 13756 | 13426 | 13099 | 12774 | 12451 | 12131 | 11813 |
| 9 | 17555 | 17195 | 16838 | 16464 | 16133 | 15784 | 15439 | 15696 | 14733 | 14418 | 14083 | 13756 | 13121 | 13093 | 12766 | 12446 | 12125 | 11808 |
| 16 | 17549 | 17189 | 16832 | 16470 | 16127 | 13778 | 15433 | 15090 | 14750 | 14412 | 14077 | 13745 | 13415 | 13088 | 12763 | 12440 | 12120 | 11902 |
| 11 | 17543 | 17183 | 16826 | 16472 | 16121 | 13773 | 15427 | 15084 | 14744 | 14467 | 14072 | 13739 | 13418 | 13062 | 12737 | 12435 | 12115 | 11797 |
| 12 | 17537 | 17177 | 16820 | 16466 | 16113 | 15767 | 15421 | 15079 | 14738 | 14461 | 14666 | 13734 | 13104 | 13077 | 12732 | 12436 | 12110 | 11792 |
| 13 | 17531 | 17171 | 16814 | 16460 | 16109 | 15761 | 15416 | 13073 | 14733 | 14395 | 14661 | 13728 | 13399 | 13071 | 12747 | 12424 | 12164 | 11787 |
| 14 | 17523 | 17165 | 16868 | 16454 | 16123 | 15753 | 13410 | 13067 | 14727 | 14396 | 14053 | 13723 | 13393 | 13066 | 12741 | 12419 | 12699 | 11781 |
| 16 | 17319 | 17159 | 16802 | 16442 | 16098 | 15749 | 15404 | 15661 | 14722 | 14384 | 14049 | 13717 | 13388 | 13061 | 12736 | 12414 | 12094 | 11776 |
| 16 | 17513 | 17153 | 16796 | 16443 | 16092 | 15744 | 15398 | 15856 | 14716 | 14379 | 14644 | 13712 | 13382 | 13053 | 12736 | 12408 | 12068 | 11771 |
| 17 | 17607 | 17147 | 16791 | 16437 | 16686 | 16738 | 15393 | 15650 | 14710 | 14373 | 14038 | 13766 | 13377 | 13030 | 12725 | 12463 | 12083 | 11763 |
| 18 | 17561 | 17141 | 16785 | 16431 | 16080 | 15732 | 13387 | 15644 | 14705 | 14367 | 14033 | 13701 | 13371 | 13044 | 12720 | 12397 | 12078 | 11760 |
| 19 | 17493 | 17135 | 16779 | 16423 | 16074 | 13726 | 13381 | 13039 | 14699 | 14362 | 14027 | 13695 | 13366 | 13039 | 12714 | 12392 | 12072 | 11755 |
| 20 | 17489 | 17129 | 16773 | 16419 | 16068 | 13721 | 15375 | 15633 | 14693 | 14356 | 14622 | 13690 | 13360 | 13033 | 12769 | 12387 | 12667 | 11750 |
| 21 | 17403 | 17123 | 16757 | 16413 | 16663 | 13715 | 15376 | 15027 | 14688 | 14351 | 14616 | 13684 | 13335 | 13028 | 12703 | 12381 | 12662 | 11744 |
| 22 | 17477 | 17117 | 16761 | 16467 | 16057 | 15709 | 15364 | 13622 | 14682 | 14345 | 14011 | 13679 | 13349 | 13023 | 12098 | 12376 | 12036 | 11739 |
| 23 | 17471 | 17111 | 16755 | 16462 | 16651 | 16703 | 15358 | 15618 | 14676 | 14339 | 14005 | 13673 | 13344 | 13017 | 12693 | 12371 | 12051 | 11734 |
| 24 | 17463 | 17105 | 16749 | 16396 | 16043 | 16697 | 13353 | 13010 | 14671 | 14334 | 13999 | 13668 | 13338 | 13612 | 12687 | 12363 | 12646 | 11729 |
| 25 | 17459 | 17099 | 16743 | 16390 | 16039 | 15692 | 15347 | 15005 | 14663 | 14328 | 13994 | 13662 | 13333 | 13006 | 12682 | 12360 | 12641 | 11723 |
| 26 | 17433 | 17093 | 16737 | 16384 | 16634 | 15686 | 16341 | 14999 | 14652 | 14323 | 13988 | 13637 | 13328 | 13601 | 12677 | 12355 | 12035 | 11718 |
| 27 | 17447 | 17687 | 16731 | 16378 | 16628 | 15686 | 13333 | 14993 | 14654 | 14317 | 13983 | 13651 | 13322 | 12995 | 12671 | 12349 | 12030 | 11713 |
| 28 | 17441 | 17082 | 16725 | 16372 | 16622 | 15674 | 15330 | 14968 | 14648 | 14311 | 13977 | 13646 | 13317 | 12996 | 12666 | 12344 | 12023 | 11706 |
| 29 | 17433 | 17076 | 16720 | 16366 | 16816 | 15669 | 16324 | 14982 | 14643 | 14306 | 13972 | 13640 | 13311 | 12985 | 12660 | 12339 | 12019 | 11722 |
| 36 | 17429 | 17070 | 16714 | 16361 | 16010 | 15663 | 15318 | 14976 | 14637 | 14300 | 13966 | 13635 | 13306 | 12979 | 12653 | 12333 | 12014 | 11697 |
| 31 | 17423 | 17064 | 16706 | 16355 | 16665 | 15657 | 16312 | 14971 | 14631 | 14295 | 13961 | 13629 | 13366 | 12974 | 12650 | 12328 | 12069 | 11692 |
| 32 | 17417 | 17050 | 16702 | 16349 | 13999 | 16651 | 15307 | 14965 | 14626 | 14289 | 13953 | 13624 | 13295 | 12968 | 12644 | 12323 | 12003 | 11686 |
| 33 | 17411 | 17052 | 16696 | 16343 | 15993 | 15646 | 15381 | 14959 | 14620 | 14284 | 13949 | 13610 | 13289 | 12963 | 12639 | 12317 | 11998 | 11681 |
| 34 | 17405 | 17646 | 16690 | 16337 | 13987 | 15640 | 15293 | 14954 | 14614 | 14278 | 13944 | 13613 | 13264 | 12957 | 12634 | 12312 | 11993 | 11676 |
| 35 | 17399 | 17640 | 16684 | 16331 | 15981 | 15634 | 15290 | 14948 | 14609 | 14272 | 13938 | 13607 | 13278 | 12952 | 12628 | 12367 | 11987 | 11671 |
| 36 | 17393 | 17034 | 16676 | 16323 | 15975 | 15628 | 15284 | 14942 | 14663 | 14267 | 13933 | 13662 | 13273 | 12917 | 12623 | 12361 | 11982 | 11665 |
| 37 | 17387 | 17026 | 16672 | 16320 | 15970 | 13623 | 13276 | 14937 | 14398 | 14261 | 13927 | 13396 | 13267 | 12941 | 12617 | 12296 | 11277 | 11660 |
| 38 | 17381 | 17022 | 16666 | 16314 | 15964 | 13617 | 15272 | 14931 | 14592 | 14256 | 13922 | 13591 | 13262 | 12936 | 12612 | 12291 | 11272 | 11655 |
| 39 | 17375 | 71616 | 16666 | 16368 | 15258 | 16611 | 13267 | 14925 | 14566 | 14256 | 13916 | 13585 | 13257 | 12938 | 12607 | 12285 | 11966 | 11650 |
| 40 | 17369 | 17010 | 16655 | 16362 | 15952 | 13605 | 15261 | 14919 | 14381 | 14244 | 13911 | 13580 | 13251 | 12925 | 12601 | 12280 | 11961 | 11644 |
| 41 | 17363 | 17004 | 16649 | 16296 | 15946 | 13399 | 15255 | 14914 | 14375 | 14239 | 13905 | 13574 | 13246 | 12926 | 12596 | 12276 | 11956 | 11639 |
| 42 | 17357 | 16926 | 16643 | 16296 | 15941 | 15394 | 15256 | 14968 | 14569 | 14233 | 13966 | 13569 | 13240 | 12914 | 12390 | 12269 | 11950 | 11634 |
| 43 | 17351 | 16922 | 16637 | 16284 | 15935 | 15588 | 13244 | 14202 | 14564 | 14228 | 13894 | 13563 | 13235 | 12909 | 12583 | 12264 | 11243 | 11629 |
| 44 | 17345 | 16966 | 16631 | 16279 | 15929 | 15582 | 15238 | 14897 | 14558 | 14222 | 13889 | 13558 | 13229 | 12903 | 12560 | 12259 | 11948 | 11623 |
| 45 | 17339 | 16980 | 16623 | 16273 | 15923 | 15576 | 15232 | 14891 | 14553 | 14217 | 13883 | 13552 | 13224 | 12898 | 12574 | 12253 | 11235 | 11618 |
| 46 | 17333 | 16274 | 16619 | 16267 | 13917 | 15571 | 15227 | 14886 | 14547 | 14211 | 13878 | 13547 | 13218 | 12692 | 12569 | 12248 | 11929 | 11613 |
| 47 | 17327 | 16960 | 16613 | 16261 | 13912 | 13565 | 15221 | 14886 | 14541 | 14265 | 13872 | 13541 | 13213 | 12687 | 12564 | 12243 | 11924 | 11688 |
| 48 | 17321 | 16963 | 16607 | 16255 | 15906 | 13339 | 13213 | 14874 | 14536 | 14200 | 13866 | 13536 | 13207 | 12882 | 12558 | 12237 | 11919 | 11602 |
| 49 | 17315 | 16237 | 16602 | 16249 | 16960 | 13553 | 13210 | 14869 | 14530 | 14194 | 13861 | 13530 | 13262 | 12876 | 12553 | 12232 | 11213 | 11397 |
| 50 | 17309 | 16931 | 16596 | 16243 | 13894 | 15548 | 13264 | 14863 | 14524 | 14189 | 13853 | 13525 | 13197 | 12871 | 12548 | 12227 | 11908 | 11592 |
| 51 | 17383 | 16943 | 16320 | 15238 | 13886 | 13342 | 16198 | 14857 | 14512 | 14183 | 13850 | 13519 | 13191 | 12863 | 12542 | 12221 | 11903 | 11387 |
| 52 | 17297 | 16232 | 16584 | 16232 | 16883 | 13336 | 15192 | 14852 | 14313 | 14177 | 13844 | 13314 | 13186 | 12868 | 12337 | 12216 | 11697 | 11381 |
| 33 | 17291 | 16933 | 16678 | 16226 | 13877 | 15536 | 13127 | 14846 | 14308 | 14172 | 13839 | 13508 | 13186 | 12655 | 12531 | 12211 | 11892 | 11376 |
| 54 | 17283 | 16927 | 16672 | 16226 | 13871 | 13525 | 15161 | 14840 | 14502 | 14166 | 13833 | 13503 | 13175 | 12819 | 12326 | 12203 | 11887 | 11571 |
| 53 | 17272 | 16921 | 16566 | 16214 | 15663 | 15519 | 15175 | 14835 | 14496 | 14161 | 13828 | 13497 | 13169 | 12844 | 12321 | 12200 | 11882 | 11366 |
| 56 | 17273 | 16915 | 16566 | 16202 | 16859 | 15313 | 16170 | 14829 | 14491 | 14155 | 13822 | 13492 | 13164 | 12838 | 12513 | 12195 | 11876 | 11566 |
| 57 | 17267 | 16909 | 16554 | 16203 | 15854 | 15507 | 15164 | 14823 | 14483 | 14136 | 13817 | 13486 | 13158 | 12833 | 12512 | 12189 | 11871 | 11555 |
| 58 | 17261 | 16263 | 16649 | 16127 | 13648 | 15562 | 15158 | 14818 | 14480 | 14144 | 13811 | 13461 | 13153 | 12828 | 12585 | 12184 | 11866 | 11330 |
| 59 | 17235 | 16897 | 16543 | 16121 | 15842 | 15496 | 15153 | 14812 | 14474 | 14138 | 13866 | 13475 | 13148 | 12822 | 12499 | 12172 | 11866 | 11543 |

**Tabla XIV.** **Logaritmos proporcionales.**

2 Grados, ó 2 Horas.

| ″ s | ′ m 18 | ′ m 19 | ′ m 20 | ′ m 21 | ′ m 22 | ′ m 23 | ′ m 24 | ′ m 25 | ′ m 26 | ′ m 27 | ′ m 28 | ′ m 29 | ′ m 30 | ′ m 31 | ′ m 32 | ′ m 33 | ′ m 34 | ′ m 35 | ′ m 36 | ′ m 37 | ′ m 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11839 | 11226 | 10214 | 10606 | 10290 | 9924 | 0691 | 9390 | 9092 | 8796 | 8501 | 8269 | 7918 | 7630 | 7343 | 7058 | 6775 | 6494 | 6215 | 5937 | 5662 |
| 1 | 11534 | 11221 | 10202 | 10600 | 10293 | 0989 | 9686 | 9385 | 9087 | 8791 | 8490 | 8204 | 7913 | 7625 | 7338 | 7053 | 6770 | 6489 | 6216 | 5933 | 5657 |
| 2 | 11529 | 11215 | 10204 | 10505 | 10288 | 9084 | 9681 | 9380 | 9082 | 0786 | 8491 | 8199 | 7208 | 7620 | 7333 | 7049 | 6706 | 6485 | 6206 | 5928 | 5652 |
| 3 | 11524 | 11210 | 10820 | 16520 | 10283 | 9970 | 9676 | 9375 | 9077 | 8781 | 8486 | 8194 | 7904 | 7615 | 7329 | 7044 | 6761 | 6480 | 6201 | 5923 | 5648 |
| 4 | 11610 | 11200 | 10694 | 10585 | 10278 | 9973 | 9671 | 9370 | 9072 | 8776 | 8482 | 8189 | 7899 | 7610 | 7324 | 7039 | 6756 | 6475 | 6196 | 5919 | 5643 |
| 5 | 11513 | 11200 | 10889 | 10580 | 10273 | 9968 | 9660 | 9365 | 9067 | 8771 | 8477 | 8184 | 7894 | 7606 | 7319 | 7034 | 6752 | 6471 | 0192 | 5914 | 5639 |
| 6 | 11508 | 11125 | 10883 | 10575 | 10268 | 2963 | 9601 | 9360 | 9062 | 8760 | 8472 | 8179 | 7889 | 7601 | 7314 | 7030 | 6747 | 6466 | 6187 | 5910 | 5634 |
| 7 | 11503 | 11189 | 10878 | 10569 | 10263 | 9958 | 9056 | 9356 | 9057 | 8761 | 8467 | 8175 | 7884 | 7596 | 7310 | 7025 | 6749 | 6461 | 6182 | 5905 | 5629 |
| 8 | 11497 | 11184 | 10873 | 10564 | 10258 | 9953 | 9651 | 9351 | 9052 | 8756 | 8462 | 8170 | 7880 | 7591 | 7305 | 7090 | 6738 | 6457 | 6178 | 5900 | 5625 |
| 9 | 11422 | 11170 | 10868 | 10550 | 10253 | 0948 | 9646 | 9346 | 9047 | 8751 | 8457 | 8165 | 7875 | 7586 | 7300 | 7016 | 6733 | 6452 | 6173 | 5896 | 5620 |
| 10 | 11487 | 11174 | 10863 | 10554 | 10247 | 9943 | 9641 | 9341 | 9042 | 8746 | 8452 | 8160 | 7870 | 7582 | 7295 | 7011 | 6728 | 6447 | 6168 | 5891 | 5616 |
| 11 | 11482 | 11169 | 10858 | 10549 | 10242 | 9938 | 9636 | 9336 | 9037 | 8741 | 8447 | 8155 | 7065 | 7577 | 7291 | 7006 | 6724 | 6413 | 6164 | 5887 | 5611 |
| 12 | 11476 | 11103 | 10852 | 10544 | 10237 | 9233 | 9031 | 9331 | 9033 | 8736 | 8442 | 8150 | 7860 | 7572 | 7986 | 7001 | 6719 | 6438 | 6159 | 5882 | 5607 |
| 13 | 11471 | 11168 | 10847 | 10539 | 10232 | 9928 | 0626 | 0326 | 9028 | 8732 | 8438 | 8146 | 7855 | 7567 | 7281 | 6997 | 6714 | 6433 | 6155 | 5877 | 5602 |
| 14 | 11460 | 11163 | 10842 | 10534 | 10227 | 9923 | 9621 | 2391 | 9023 | 8727 | 8433 | 8141 | 7851 | 7562 | 7276 | 6992 | 6709 | 6429 | 6150 | 5873 | 5597 |
| 15 | 11461 | 11148 | 10837 | 10528 | 10992 | 9918 | 9616 | 9316 | 9018 | 8722 | 8428 | 8136 | 7816 | 7558 | 7272 | 6987 | 0706 | 6494 | 6145 | 5868 | 5593 |
| 16 | 11466 | 11143 | 10832 | 10523 | 10217 | 9913 | 9611 | 9311 | 9013 | 8717 | 8123 | 8131 | 7841 | 7553 | 7967 | 0982 | 0700 | 6419 | 6141 | 5864 | 5588 |
| 17 | 11450 | 11137 | 10827 | 10518 | 10212 | 9908 | 9606 | 9306 | 9008 | 8712 | 8418 | 8126 | 7836 | 7548 | 7262 | 6278 | 6695 | 6415 | 6136 | 5859 | 5584 |
| 18 | 11445 | 11132 | 10821 | 10513 | 10207 | 9903 | 9601 | 9301 | 0003 | 8707 | 8413 | 8121 | 7831 | 7543 | 7257 | 0973 | 6691 | 6410 | 6131 | 5854 | 5579 |
| 19 | 11440 | 11127 | 10816 | 10506 | 10202 | 9898 | 9590 | 9296 | 8998 | 8702 | 8408 | 8116 | 7897 | 7539 | 7253 | 6968 | 6686 | 0405 | 6127 | 5850 | 5575 |
| 20 | 11435 | 11122 | 10811 | 10503 | 10197 | 9893 | 9591 | 9291 | 8993 | 8697 | 8403 | 8112 | 7892 | 7534 | 7248 | 6964 | 6681 | 6401 | 6122 | 5845 | 5570 |
| 21 | 11429 | 11117 | 10806 | 10498 | 10192 | 9887 | 9586 | 9286 | 8988 | 8692 | 8398 | 8107 | 7817 | 7529 | 7943 | 6959 | 0677 | 6396 | 6117 | 5841 | 5505 |
| 22 | 11424 | 11111 | 10801 | 10493 | 10186 | 9882 | 2581 | 9281 | 8983 | 8687 | 8394 | 8102 | 7812 | 7524 | 7238 | 6954 | 6672 | 6391 | 6113 | 5836 | 5501 |
| 23 | 11419 | 11106 | 10796 | 10487 | 10181 | 9877 | 9570 | 2270 | 8978 | 8682 | 8389 | 8097 | 7807 | 7519 | 7234 | 6949 | 6667 | 6387 | 6108 | 5831 | 5556 |
| 24 | 11414 | 11101 | 10721 | 10482 | 10176 | 2872 | 9571 | 9271 | 8973 | 8678 | 8384 | 8092 | 7802 | 7515 | 7229 | 0945 | 6663 | 6382 | 0104 | 5827 | 5552 |
| 25 | 11408 | 11093 | 10785 | 10477 | 10171 | 9867 | 9566 | 9266 | 8968 | 8673 | 8379 | 8087 | 7798 | 7510 | 7224 | 6940 | 6658 | 0377 | 6099 | 5822 | 5547 |
| 26 | 11403 | 11091 | 10780 | 10472 | 10160 | 9862 | 9501 | 9261 | 8963 | 8668 | 8374 | 8083 | 7793 | 7505 | 7219 | 6935 | 0653 | 6373 | 6094 | 5818 | 5543 |
| 27 | 11328 | 11060 | 10775 | 10467 | 10101 | 2857 | 9556 | 9250 | 8258 | 8663 | 8369 | 8078 | 7788 | 7600 | 7915 | 0931 | 6648 | 6368 | 6090 | 5813 | 5538 |
| 28 | 11393 | 11080 | 10770 | 10462 | 10150 | 9862 | 9550 | 9251 | 8253 | 8658 | 8304 | 8073 | 7783 | 7490 | 7210 | 0920 | 0644 | 6364 | 6085 | 5808 | 5533 |
| 29 | 11387 | 11075 | 10705 | 10457 | 10151 | 9847 | 9515 | 9240 | 8948 | 8653 | 8359 | 8068 | 7778 | 7491 | 7205 | 0921 | 0039 | 6359 | 0080 | 5804 | 5529 |
| 30 | 11382 | 11070 | 10760 | 10452 | 10140 | 9849 | 9540 | 9241 | 8943 | 8648 | 8355 | 8003 | 7774 | 7480 | 7200 | 0910 | 6634 | 6354 | 6070 | 0729 | 5524 |
| 31 | 11377 | 11065 | 10754 | 10447 | 10141 | 9837 | 9535 | 9236 | 8239 | 8643 | 8350 | 8058 | 7709 | 7481 | 7196 | 0912 | 6630 | 6350 | 0071 | 5795 | 5520 |
| 32 | 11372 | 11050 | 10740 | 10441 | 10136 | 9832 | 9530 | 9231 | 8234 | 8638 | 8345 | 8053 | 7761 | 7476 | 7191 | 0007 | 0625 | 6345 | 0067 | 5790 | 5515 |
| 33 | 11367 | 11034 | 10744 | 10436 | 10131 | 9827 | 9525 | 9226 | 8929 | 8633 | 8340 | 8019 | 7769 | 7472 | 7186 | 6909 | 6620 | 6340 | 0062 | 5785 | 5511 |
| 34 | 11361 | 11640 | 10739 | 10431 | 10120 | 9822 | 9520 | 9221 | 8924 | 8626 | 8335 | 8044 | 7764 | 7467 | 7181 | 6898 | 0016 | 0336 | 0057 | 5781 | 5506 |
| 35 | 11356 | 11044 | 10734 | 10426 | 10120 | 9817 | 9515 | 9210 | 8919 | 8624 | 8330 | 8039 | 7750 | 7462 | 7177 | 6893 | 6611 | 6331 | 6053 | 5776 | 5501 |
| 36 | 11351 | 11039 | 10729 | 10421 | 10116 | 9812 | 9510 | 9211 | 6914 | 8619 | 8325 | 8034 | 7745 | 7457 | 7172 | 0888 | 6606 | 6326 | 6048 | 5779 | 5497 |
| 37 | 11346 | 11034 | 10724 | 10416 | 10110 | 9807 | 9505 | 9200 | 8909 | 8614 | 8320 | 8029 | 7740 | 7453 | 7107 | 0883 | 6602 | 6322 | 6043 | 5707 | 5492 |
| 38 | 11340 | 11028 | 10718 | 10411 | 10105 | 9802 | 9500 | 9201 | 8904 | 8609 | 8316 | 8024 | 7735 | 7448 | 7162 | 6879 | 6597 | 0317 | 6032 | 5702 | 5468 |
| 39 | 11335 | 11623 | 10713 | 10406 | 10100 | 9707 | 9495 | 9196 | 8899 | 8604 | 8311 | 8020 | 7730 | 7443 | 7158 | 0874 | 6599 | 6312 | 0034 | 5768 | 5463 |
| 40 | 11330 | 11018 | 10708 | 10400 | 10095 | 9702 | 9490 | 2121 | 8894 | 8599 | 8300 | 8015 | 7726 | 7438 | 7153 | 0869 | 0588 | 6308 | 0030 | 5753 | 5479 |
| 41 | 11325 | 11013 | 10703 | 10395 | 10090 | 9767 | 9485 | 9180 | 8889 | 8594 | 8301 | 8010 | 7721 | 7433 | 7148 | 6865 | 6583 | 0303 | 0025 | 5749 | 5474 |
| 42 | 11320 | 11006 | 10628 | 10390 | 10085 | 9782 | 9480 | 9181 | 8884 | 0589 | 8296 | 8005 | 7710 | 7429 | 7143 | 0860 | 0578 | 6298 | 6020 | 5744 | 5470 |
| 43 | 11314 | 11002 | 10093 | 10385 | 10080 | 9777 | 9475 | 9170 | 8879 | 8584 | 8291 | 8000 | 7711 | 7424 | 7139 | 0855 | 0574 | 0294 | 6016 | 5739 | 5405 |
| 44 | 11309 | 10927 | 10688 | 10380 | 10075 | 9772 | 9470 | 9171 | 8874 | 8579 | 8280 | 7995 | 7706 | 7419 | 7134 | 6850 | 6569 | 6289 | 0011 | 5736 | 5400 |
| 45 | 11304 | 10992 | 10682 | 10375 | 10070 | 9766 | 9405 | 9160 | 8869 | 8575 | 8282 | 7991 | 7709 | 7414 | 7199 | 0840 | 0564 | 6284 | 0006 | 5730 | 5456 |
| 46 | 11299 | 10987 | 10077 | 10370 | 10005 | 9701 | 9460 | 9101 | 8865 | 8570 | 8277 | 7980 | 7697 | 7410 | 7124 | 6641 | 6559 | 6280 | 6002 | 5726 | 5451 |
| 47 | 11294 | 10982 | 10672 | 10360 | 10069 | 9756 | 9465 | 9150 | 8860 | 8565 | 8272 | 7981 | 7692 | 7405 | 7120 | 0836 | 6555 | 6275 | 5997 | 5721 | 5447 |
| 48 | 11288 | 10977 | 10667 | 10360 | 10054 | 9751 | 2450 | 9161 | 0855 | 0560 | 8267 | 7970 | 7687 | 7400 | 7115 | 0832 | 6560 | 0271 | 5993 | 5717 | 5442 |
| 49 | 11283 | 10871 | 10602 | 10355 | 10049 | 9746 | 9445 | 9147 | 8850 | 8555 | 0262 | 7971 | 7682 | 7395 | 7110 | 6897 | 6645 | 6966 | 5988 | 5712 | 5438 |
| 50 | 11278 | 10966 | 10057 | 10342 | 10044 | 9741 | 9440 | 9142 | 8845 | 8550 | 8257 | 7960 | 7678 | 7391 | 7105 | 0822 | 6541 | 6261 | 5983 | 5707 | 5433 |
| 51 | 11273 | 10961 | 10652 | 10344 | 10032 | 9730 | 9435 | 9137 | 8840 | 8540 | 8252 | 7962 | 7673 | 7380 | 7161 | 6817 | 6536 | 6257 | 5979 | 5703 | 5429 |
| 52 | 11207 | 10956 | 10646 | 10332 | 10034 | 9731 | 9430 | 9132 | 8835 | 8640 | 8248 | 7957 | 7668 | 7381 | 7096 | 0813 | 6531 | 0259 | 5974 | 5698 | 5424 |
| 53 | 11262 | 10251 | 10641 | 10334 | 10020 | 9726 | 9425 | 9127 | 8830 | 6535 | 8243 | 7952 | 7663 | 7375 | 7091 | 6800 | 6527 | 6247 | 5970 | 5694 | 5419 |
| 54 | 11257 | 10940 | 10636 | 10329 | 10024 | 0721 | 9420 | 9122 | 6825 | 0530 | 8938 | 7947 | 7658 | 7371 | 7087 | 0803 | 6522 | 6943 | 6966 | 6689 | 5415 |
| 55 | 11252 | 10940 | 10031 | 10394 | 10019 | 9716 | 9115 | 9117 | 8820 | 6526 | 8233 | 7942 | 7654 | 7367 | 7082 | 0799 | 0517 | 0238 | 5900 | 5684 | 5410 |
| 56 | 11247 | 10933 | 10026 | 10310 | 10014 | 9711 | 9110 | 9112 | 8010 | 8521 | 8228 | 7937 | 7649 | 7362 | 7677 | 0794 | 6513 | 6233 | 5956 | 5660 | 5406 |
| 57 | 11241 | 10930 | 10621 | 10314 | 10009 | 9706 | 2405 | 9107 | 0610 | 8516 | 6293 | 7933 | 7644 | 7357 | 7079 | 0789 | 6508 | 6929 | 5951 | 5675 | 6461 |
| 58 | 11230 | 10925 | 10610 | 10309 | 10004 | 9701 | 9400 | 9102 | 8805 | 8511 | 8218 | 7298 | 7639 | 7359 | 7068 | 6784 | 6503 | 0224 | 5247 | 5671 | 5397 |
| 59 | 11231 | 10920 | 10610 | 10304 | 09990 | 9690 | 9395 | 9097 | 0800 | 8506 | 8213 | 7923 | 7534 | 7348 | 7003 | 0780 | 6499 | 0219 | 5242 | 6660 | 5322 |

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**Tabla XIV.** Logaratmos proporcionales.

| ″ s | m 32 | m 40 | m 41 | m 42 | m 43 | m 44 | m 45 | m 46 | m 47 | m 48 | m 49 | m 50 | m 51 | m 52 | m 53 | m 54 | m 55 | m 36 | m 57 | m 58 | m 59 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 Grados, ó 2 Horas. | | | | | | | | | | | | | | | | | | | | |
| 0 | 5398 | 5115 | 4845 | 4576 | 1398 | 4943 | 3779 | 3516 | 3256 | 2996 | 2739 | 2482 | 2220 | 1974 | 1723 | 1472 | 1223 | 275 | 730 | 483 | 242 |
| 1 | 5383 | 5111 | 4842 | 4571 | 4304 | 4038 | 3774 | 3512 | 3251 | 2992 | 2734 | 2478 | 2223 | 1270 | 1710 | 1450 | 1212 | 572 | 726 | 481 | 238 |
| 2 | 3378 | 5106 | 4836 | 4567 | 4320 | 4034 | 3770 | 3508 | 3247 | 2280 | 2730 | 2474 | 2219 | 1969 | 1714 | 1464 | 1213 | 960 | 722 | 477 | 234 |
| 3 | 5374 | 5102 | 4831 | 4562 | 4225 | 4030 | 3766 | 3503 | 3243 | 2983 | 2726 | 2470 | 2215 | 1562 | 1710 | 1469 | 1211 | 594 | 710 | 473 | 239 |
| 4 | 5362 | 5097 | 4827 | 4558 | 4221 | 4095 | 3761 | 3429 | 3238 | 2270 | 2721 | 2465 | 2211 | 1250 | 1795 | 1455 | 1207 | 990 | 714 | 469 | 226 |
| 2 | 3395 | 5093 | 4022 | 1553 | 4286 | 4091 | 3757 | 3495 | 3234 | 2975 | 2717 | 2461 | 2206 | 1253 | 1762 | 1452 | 1203 | 955 | 702 | 465 | 222 |
| 9 | 5390 | 5088 | 4810 | 4549 | 4282 | 4016 | 3753 | 3490 | 3230 | 2970 | 2713 | 2457 | 2202 | 1549 | 1650 | 1447 | 1122 | 951 | 765 | 401 | 218 |
| 7 | 5356 | 5084 | 4813 | 4544 | 4277 | 4012 | 3748 | 3406 | 3225 | 2266 | 2702 | 2453 | 2198 | 1245 | 1623 | 1443 | 1105 | 947 | 791 | 457 | 214 |
| 8 | 5351 | 5079 | 4809 | 4540 | 4273 | 4008 | 3744 | 3402 | 3221 | 2992 | 2704 | 2448 | 2124 | 1241 | 1682 | 1439 | 1190 | 913 | 557 | 453 | 210 |
| 9 | 5347 | 5073 | 4804 | 4536 | 4269 | 4093 | 3739 | 3477 | 3217 | 2250 | 2700 | 2444 | 2120 | 1937 | 1583 | 1432 | 1155 | 535 | 593 | 442 | 206 |
| 10 | 5319 | 5070 | 4800 | 4531 | 4294 | 3299 | 3735 | 3473 | 3212 | 2253 | 2696 | 2140 | 2185 | 1932 | 1681 | 1431 | 1102 | 535 | 609 | 445 | 202 |
| 11 | 3337 | 5066 | 4795 | 1527 | 4290 | 3294 | 3731 | 3469 | 3200 | 2949 | 2621 | 2436 | 2101 | 1228 | 1677 | 1427 | 1170 | 931 | 625 | 441 | 127 |
| 12 | 5333 | 5061 | 4791 | 4522 | 4255 | 3990 | 3726 | 3464 | 3204 | 2245 | 2607 | 2431 | 2177 | 1924 | 1572 | 1422 | 1174 | 527 | 501 | 436 | 123 |
| 13 | 5328 | 5056 | 4709 | 4518 | 4251 | 3286 | 3792 | 3460 | 3122 | 2940 | 2683 | 2427 | 2173 | 1920 | 1660 | 1415 | 1170 | 523 | 577 | 432 | 122 |
| 14 | 5324 | 5059 | 4782 | 4513 | 4246 | 3281 | 3717 | 3455 | 3125 | 2936 | 2672 | 2423 | 2168 | 1916 | 1664 | 1414 | 1166 | 910 | 573 | 428 | 105 |
| 15 | 5319 | 5047 | 4777 | 4509 | 4942 | 3277 | 3713 | 3451 | 3191 | 2932 | 2674 | 2419 | 2164 | 1911 | 1690 | 1412 | 1161 | 914 | 669 | 424 | 151 |
| 16 | 5315 | 5943 | 4773 | 4504 | 4237 | 3972 | 3709 | 3447 | 3186 | 2227 | 2670 | 2414 | 2160 | 1507 | 1656 | 1406 | 1157 | 510 | 665 | 420 | 177 |
| 17 | 5310 | 5038 | 4798 | 4502 | 4233 | 3260 | 3794 | 3442 | 3182 | 2923 | 2696 | 2412 | 2156 | 1903 | 1652 | 1402 | 1133 | 909 | 660 | 416 | 173 |
| 10 | 5309 | 5934 | 4764 | 1495 | 4229 | 3293 | 3700 | 3438 | 3170 | 2919 | 2662 | 2406 | 2152 | 1899 | 1647 | 1390 | 1145 | 902 | 556 | 412 | 162 |
| 12 | 5301 | 3229 | 4759 | 4491 | 4994 | 3259 | 3696 | 3434 | 3173 | 2215 | 2657 | 2402 | 2147 | 1225 | 1943 | 1393 | 1145 | 528 | 552 | 420 | 165 |
| 20 | 5297 | 5225 | 4755 | 4486 | 4220 | 3255 | 3621 | 3429 | 3162 | 2210 | 2653 | 2327 | 2143 | 1890 | 1639 | 1382 | 1141 | 094 | 548 | 404 | 191 |
| 21 | 5292 | 5020 | 4750 | 4482 | 4215 | 3250 | 3607 | 3425 | 3165 | 2206 | 2642 | 2393 | 2139 | 1006 | 1035 | 1383 | 1137 | 892 | 644 | 460 | 137 |
| 22 | 5908 | 5010 | 4746 | 4470 | 4211 | 3946 | 3502 | 3421 | 3160 | 2902 | 2644 | 2382 | 2135 | 1002 | 1931 | 1381 | 1133 | 582 | 540 | 359 | 153 |
| 23 | 5283 | 5011 | 4741 | 4473 | 4200 | 3941 | 3670 | 3416 | 3159 | 2897 | 2640 | 2385 | 2130 | 1070 | 1627 | 1377 | 1120 | 882 | 632 | 322 | 142 |
| 24 | 5278 | 5907 | 4737 | 1469 | 4202 | 3237 | 3674 | 3412 | 3152 | 2093 | 2636 | 2382 | 2129 | 1874 | 1992 | 1373 | 1124 | 877 | 032 | 388 | 145 |
| 25 | 5274 | 5002 | 4732 | 4464 | 4190 | 3933 | 3669 | 3408 | 3147 | 2882 | 2632 | 2376 | 9192 | 1862 | 1010 | 1368 | 1120 | 873 | 628 | 304 | 141 |
| 26 | 5269 | 4998 | 4728 | 4460 | 4193 | 3920 | 3665 | 3403 | 3143 | 2084 | 2627 | 2372 | 9118 | 1865 | 1014 | 1364 | 1116 | 865 | 624 | 380 | 137 |
| 27 | 5265 | 4993 | 4723 | 1455 | 4189 | 3924 | 3661 | 3392 | 3132 | 2880 | 2623 | 2360 | 2114 | 1501 | 1610 | 1399 | 1112 | 063 | 522 | 376 | 133 |
| 28 | 5200 | 4282 | 4712 | 4451 | 4104 | 3219 | 3656 | 3325 | 3134 | 2876 | 2619 | 2363 | 2109 | 1857 | 1696 | 1356 | 1165 | 851 | 610 | 379 | 122 |
| 29 | 5256 | 4984 | 4714 | 4446 | 4180 | 3213 | 3652 | 3390 | 3130 | 2072 | 2615 | 2335 | 2195 | 1853 | 1091 | 1352 | 1104 | 857 | 611 | 397 | 125 |
| 30 | 5251 | 4980 | 4719 | 4442 | 4173 | 3911 | 3647 | 3386 | 3126 | 2867 | 2619 | 2355 | 2191 | 1848 | 1597 | 1348 | 1100 | 053 | 607 | 363 | 121 |
| 31 | 3247 | 4975 | 4796 | 4437 | 4171 | 3906 | 3643 | 3381 | 3121 | 2863 | 2600 | 2351 | 2097 | 1844 | 1593 | 1344 | 1095 | 849 | 093 | 359 | 117 |
| 32 | 5242 | 4971 | 4791 | 4433 | 4167 | 3902 | 3639 | 3377 | 3117 | 2055 | 2602 | 2346 | 2992 | 1810 | 1589 | 1339 | 1991 | 045 | 599 | 355 | 113 |
| 33 | 5238 | 4966 | 4697 | 4429 | 4162 | 3897 | 3631 | 3373 | 3113 | 2854 | 2598 | 2342 | 2080 | 1936 | 1385 | 1335 | 1987 | 846 | 393 | 351 | 109 |
| 34 | 5233 | 4999 | 4692 | 4424 | 4158 | 3893 | 3639 | 3368 | 3108 | 2850 | 9593 | 2330 | 2084 | 1832 | 1581 | 1331 | 1083 | 835 | 391 | 347 | 163 |
| 35 | 5229 | 4957 | 4688 | 4420 | 4153 | 3809 | 3626 | 3364 | 3104 | 2046 | 2589 | 2334 | 2009 | 1897 | 1376 | 1327 | 1979 | 832 | 387 | 343 | 191 |
| 30 | 5224 | 4953 | 4603 | 1415 | 4149 | 3884 | 3621 | 3360 | 3100 | 2841 | 2585 | 2325 | 2979 | 1823 | 1572 | 1323 | 1073 | 525 | 383 | 339 | 07 |
| 37 | 5219 | 4948 | 4679 | 1411 | 4144 | 3880 | 3617 | 3335 | 3926 | 2837 | 2380 | 2325 | 2971 | 1510 | 1368 | 1319 | 1971 | 524 | 379 | 335 | 53 |
| 38 | 5215 | 4944 | 4674 | 4409 | 4149 | 3873 | 3612 | 3331 | 3691 | 2033 | 2370 | 2321 | 2057 | 1815 | 1564 | 1315 | 1067 | 520 | 575 | 331 | 59 |
| 39 | 5219 | 4939 | 4679 | 4402 | 4136 | 3871 | 3908 | 3347 | 3907 | 2925 | 2372 | 2317 | 2093 | 1011 | 1360 | 1310 | 1962 | 810 | 571 | 327 | 55 |
| 49 | 5206 | 4935 | 4665 | 4397 | 4131 | 3867 | 3604 | 3342 | 3983 | 2824 | 2560 | 2312 | 2059 | 1806 | 1359 | 1306 | 1058 | 512 | 567 | 323 | 50 |
| 41 | 5291 | 4930 | 4661 | 4393 | 4127 | 3002 | 3599 | 3330 | 3078 | 2020 | 2363 | 2390 | 2054 | 1592 | 1331 | 1392 | 1954 | 800 | 363 | 319 | 76 |
| 42 | 3107 | 4926 | 4656 | 4388 | 4122 | 3858 | 3595 | 3334 | 3974 | 2810 | 2559 | 2394 | 2059 | 1758 | 1347 | 1290 | 1950 | 004 | 335 | 315 | 72 |
| 43 | 5192 | 4921 | 4652 | 4384 | 4119 | 3853 | 3391 | 3399 | 3970 | 9011 | 2555 | 2309 | 9946 | 1754 | 1343 | 1294 | 1549 | 799 | 334 | 311 | 68 |
| 44 | 5108 | 4917 | 4647 | 4380 | 4114 | 3849 | 3586 | 3325 | 3695 | 2597 | 2551 | 2293 | 2942 | 1709 | 1539 | 1290 | 1942 | 793 | 335 | 307 | 64 |
| 43 | 5183 | 4912 | 4043 | 4375 | 4109 | 3845 | 3502 | 3321 | 3901 | 2093 | 2346 | 2291 | 2038 | 1705 | 1535 | 1286 | 1938 | 791 | 546 | 303 | 69 |
| 46 | 3179 | 4908 | 4638 | 4371 | 4105 | 3049 | 3575 | 3316 | 3957 | 2799 | 2542 | 2287 | 2033 | 1781 | 1331 | 1201 | 1034 | 797 | 342 | 255 | 55 |
| 47 | 3174 | 4903 | 4934 | 4369 | 4106 | 3036 | 3573 | 3312 | 3952 | 2794 | 2539 | 2283 | 2629 | 1777 | 1326 | 1277 | 1029 | 703 | 335 | 295 | 32 |
| 48 | 3179 | 4599 | 4629 | 4362 | 4996 | 3832 | 3599 | 3328 | 3948 | 2790 | 2533 | 2275 | 2923 | 1773 | 1322 | 1273 | 1025 | 779 | 334 | 296 | 48 |
| 49 | 3155 | 4894 | 4625 | 4337 | 4901 | 3827 | 3364 | 3363 | 3044 | 2786 | 2595 | 2274 | 2921 | 1709 | 1318 | 1260 | 1021 | 773 | 330 | 205 | 44 |
| 50 | 5101 | 4899 | 4020 | 4353 | 4087 | 3823 | 3560 | 3299 | 3939 | 2781 | 2325 | 2279 | 2917 | 1764 | 1314 | 1263 | 1917 | 771 | 590 | 289 | 40 |
| 51 | 5156 | 4805 | 4916 | 4349 | 4903 | 3810 | 3356 | 3293 | 3035 | 2777 | 2321 | 2209 | 2912 | 1769 | 1510 | 1261 | 1013 | 757 | 522 | 278 | 36 |
| 52 | 5151 | 4881 | 4012 | 4344 | 4675 | 3814 | 3531 | 3290 | 3531 | 2773 | 2319 | 2202 | 2998 | 1756 | 1506 | 1237 | 1909 | 763 | 310 | 274 | 32 |
| 53 | 5147 | 4876 | 4697 | 4349 | 4074 | 3819 | 3547 | 3296 | 3626 | 2799 | 2312 | 2257 | 2994 | 1732 | 1301 | 1252 | 1205 | 739 | 314 | 270 | 28 |
| 54 | 5142 | 4872 | 4503 | 4333 | 4005 | 3803 | 3543 | 3289 | 3022 | 2764 | 2398 | 2253 | 2900 | 1745 | 1457 | 1245 | 1691 | 754 | 310 | 265 | 24 |
| 55 | 5138 | 4067 | 4500 | 4331 | 4965 | 3001 | 3538 | 3277 | 3018 | 2760 | 2504 | 2249 | 1995 | 1744 | 1493 | 1244 | 597 | 736 | 396 | 262 | 20 |
| 58 | 5133 | 4863 | 4594 | 4326 | 4901 | 3796 | 3534 | 3273 | 3914 | 2750 | 2499 | 2243 | 1991 | 1739 | 1459 | 1249 | 592 | 749 | 502 | 258 | 16 |
| 57 | 5120 | 4958 | 4509 | 4322 | 4055 | 3792 | 3530 | 3202 | 3009 | 2731 | 2495 | 2242 | 1987 | 1735 | 1485 | 1236 | 558 | 742 | 497 | 254 | 12 |
| 36 | 5124 | 4834 | 1505 | 4317 | 4032 | 3785 | 3523 | 3264 | 3025 | 2747 | 2451 | 2236 | 1983 | 1731 | 1481 | 1232 | 584 | 738 | 493 | 259 | 8 |
| 50 | 5120 | 4849 | 4380 | 4313 | 4047 | 3793 | 3521 | 3260 | 3001 | 2743 | 2407 | 2232 | 1079 | 1727 | 1470 | 1228 | 500 | 734 | 489 | 248 | 4 |

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**Tabla XV.** **Logaritmos de números naturales.**

| Núm. | ′ m | ″ s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 Grados, ó 0 Horas. | | | | | | | | | |
| 0 | 0. | 0 | Inf. Neg. | 0. 00066 | 0. 30103 | 6. 47712 | 0. 60266 | 6. 59897 | 0. 77015 | 0. 64510 | 0. 00369 | 0. 05424 |
| 1 | | 1 | 1. 60000 | 1. 04139 | 1. 67910 | 1. 11394 | 1. 14613 | 1. 17609 | 1. 20412 | 1. 03045 | 1. 25527 | 1. 27075 |
| 2 | | 2 | 30103 | 30222 | 34240 | 35173 | 38321 | 39724 | 41497 | 43136 | 44716 | 40040 |
| 3 | | 3 | 47712 | 49136 | 50515 | 51651 | 53148 | 54407 | 55630 | 56020 | 57970 | 59100 |
| 4 | | 4 | 60206 | 61278 | 02325 | 63347 | 64345 | 55301 | 56276 | 57210 | 66124 | 69020 |
| 5 | | 5 | 09897 | 70757 | 71500 | 72428 | 73239 | 74036 | 74619 | 75587 | 76343 | 77085 |
| 5 | 1. | 0 | 1. 77815 | 1. 70533 | 1. 79239 | 1. 79934 | 1. 80810 | 1. 01291 | 1. 51954 | 1. 02607 | 1. 83251 | 1. 83805 |
| 7 | | 1 | 84510 | 05126 | 85733 | 86332 | 56223 | 57506 | 00001 | 08642 | 89209 | 89763 |
| 0 | | 0 | 00302 | 00849 | 91381 | 91208 | 92128 | 22942 | 03450 | 93952 | 24440 | 04939 |
| 9 | | 3 | 05404 | 95904 | 96379 | 00848 | 27313 | 07772 | 08227 | 98677 | 09123 | 99564 |
| 16 | | 4 | 2. 00000 | 2. 00432 | 2. 00860 | 0. 01204 | 2. 01763 | 2. 00119 | 2. 02531 | 2. 02938 | 0. 03342 | 2. 03745 |
| 11 | | 5 | 04130 | 04552 | 04922 | 05308 | 05690 | 06070 | 06446 | 06819 | 07188 | 07555 |
| 12 | 2. | 0 | 2. 07910 | 2. 08279 | 2. 08636 | 2. 08991 | 2. 09342 | 2. 09691 | 2. 10037 | 2. 10380 | 2. 10721 | 2. 11059 |
| 13 | | 1 | 11394 | 11727 | 12057 | 12385 | 10710 | 13033 | 13354 | 13672 | 13988 | 14301 |
| 14 | | 2 | 14613 | 14922 | 15209 | 15534 | 15636 | 16137 | 16435 | 16732 | 17026 | 17319 |
| 15 | | 3 | 17060 | 17828 | 18184 | 18469 | 16752 | 19033 | 12312 | 19590 | 19066 | 20140 |
| 15 | | 4 | 00410 | 00683 | 00952 | 01212 | 01484 | 01740 | 22011 | 22272 | 02531 | 22709 |
| 17 | | 5 | 03045 | 23300 | 03553 | 23005 | 04055 | 24304 | 24551 | 04797 | 05042 | 25285 |
| 15 | 3. | 0 | 2. 05527 | 2. 25768 | 2. 26007 | 2. 26245 | 2. 06402 | 2. 00717 | 2. 00951 | 2. 27184 | 2. 27416 | 0. 27646 |
| 10 | | 1 | 07875 | 00103 | 28330 | 20556 | 28780 | 29003 | 29226 | 29447 | 09667 | 29085 |
| 20 | | 0 | 30103 | 30300 | 30535 | 30750 | 50963 | 31175 | 31307 | 31597 | 31006 | 30015 |
| 01 | | 3 | 32002 | 32428 | 32034 | 32636 | 33041 | 33244 | 33445 | 33646 | 33046 | 34044 |
| 20 | | 4 | 34240 | 34432 | 34635 | 34030 | 35005 | 35016 | 35411 | 35603 | 35793 | 35964 |
| 23 | | 5 | 30173 | 36361 | 36549 | 35736 | 36920 | 37167 | 37291 | 37475 | 37658 | 37040 |
| 24 | 4. | 0 | 2. 38021 | 2. 38202 | 2. 38382 | 2. 38561 | 2. 38739 | 2. 38017 | 2. 39094 | 2. 30270 | 2. 30445 | 2. 39600 |
| 25 | | 1 | 39704 | 39907 | 40140 | 40312 | 40463 | 40654 | 40624 | 40993 | 41162 | 41330 |
| 26 | | 2 | 41497 | 41664 | 41630 | 41096 | 42160 | 40305 | 42400 | 42051 | 40813 | 42975 |
| 27 | | 3 | 43136 | 43297 | 43457 | 43016 | 43775 | 43933 | 44001 | 44048 | 44404 | 44560 |
| 28 | | 4 | 44715 | 44571 | 45025 | 45170 | 45332 | 45484 | 45637 | 45700 | 45039 | 46090 |
| 09 | | 5 | 46040 | 46369 | 46538 | 46687 | 46835 | 46982 | 47129 | 47276 | 47420 | 47557 |
| 30 | 5. | 0 | 0. 47712 | 2. 47857 | 2. 40001 | 2. 48144 | 2. 48287 | 2. 48430 | 0. 48572 | 2. 40714 | 2. 40055 | 2. 48296 |
| 31 | | 1 | 49138 | 49270 | 49415 | 49554 | 49693 | 49631 | 42969 | 50106 | 50243 | 50379 |
| 32 | | 0 | 50515 | 50650 | 50706 | 50920 | 51055 | 51150 | 51322 | 51455 | 51587 | 51700 |
| 33 | | 3 | 01051 | 51983 | 52114 | 52244 | 52375 | 52504 | 52634 | 52763 | 52892 | 53020 |
| 34 | | 4 | 53148 | 53275 | 53403 | 53529 | 53056 | 53782 | 53900 | 54033 | 54158 | 54283 |
| 35 | | 5 | 54407 | 54531 | 54654 | 54777 | 54200 | 55003 | 55145 | 55067 | 55308 | 55509 |
| 55 | 6. | 0 | 2. 55030 | 2. 55751 | 2. 55871 | 2. 55291 | 2. 55110 | 2. 55222 | 2. 55340 | 2. 56467 | 2. 56585 | 2. 56703 |
| 37 | | 1 | 56020 | 50937 | 57054 | 57171 | 57287 | 57403 | 57519 | 57634 | 57749 | 57864 |
| 35 | | 2 | 57070 | 58090 | 58206 | 58326 | 58433 | 58546 | 58659 | 58771 | 50003 | 50905 |
| 39 | | 3 | 59106 | 50210 | 59320 | 59430 | 59550 | 59660 | 59770 | 59079 | 59988 | 50607 |
| 40 | | 4 | 60200 | 50314 | 56423 | 60531 | 60530 | 60746 | 50853 | 50959 | 61066 | 61170 |
| 41 | | 5 | 51070 | 61384 | 01420 | 51595 | 61700 | 61005 | 61900 | 52014 | 60110 | 52221 |
| 42 | 7. | 0 | 2. 52325 | 2. 02428 | 2. 02531 | 0. 50634 | 2. 62737 | 2. 62830 | 2. 52941 | 0. 63043 | 2. 63144 | 2. 63246 |
| 43 | | 1 | 63347 | 53448 | 53548 | 63642 | 53740 | 63840 | 63949 | 64048 | 64147 | 64048 |
| 44 | | 2 | 64345 | 64444 | 64542 | 64040 | 64738 | 64636 | 54933 | 55031 | 65120 | 65228 |
| 45 | | 3 | 65301 | 65418 | 65514 | 65610 | 65706 | 65601 | 65096 | 55092 | 66007 | 66161 |
| 45 | | 4 | 56075 | 66370 | 55464 | 56558 | 50652 | 50745 | 60539 | 66932 | 67025 | 57117 |
| 47 | | 5 | 57010 | 57300 | 57304 | 57486 | 57570 | 57569 | 67761 | 67852 | 67943 | 50034 |
| 48 | 8. | 0 | 2. 68124 | 2. 58015 | 2. 58305 | 2. 68395 | 2. 68485 | 2. 68574 | 2. 68564 | 2. 58753 | 2. 68640 | 2. 60931 |
| 49 | | 1 | 59020 | 50106 | 69107 | 59265 | 52373 | 60461 | 60540 | 59636 | 09723 | 60610 |
| 55 | | 2 | 59097 | 09964 | 70070 | 70157 | 70243 | 76320 | 70415 | 70501 | 70560 | 70570 |
| 51 | | 3 | 70757 | 70840 | 70907 | 71010 | 71096 | 71151 | 71265 | 71349 | 71433 | 71517 |
| 52 | | 4 | 71500 | 71554 | 71767 | 71850 | 71033 | 72015 | 70099 | 72151 | 72263 | 70348 |
| 53 | | 5 | 72426 | 72509 | 70501 | 72073 | 70754 | 70835 | 72910 | 72997 | 73070 | 73159 |
| 54 | 9. | 0 | 2. 73039 | 2. 73320 | 2. 73400 | 2. 73406 | 2. 73560 | 2. 73640 | 2. 73719 | 2. 73799 | 2. 73676 | 2. 73957 |
| 55 | | 1 | 74036 | 74115 | 74104 | 74273 | 74351 | 74429 | 74507 | 74586 | 74663 | 74741 |
| 56 | | 2 | 74019 | 74600 | 74974 | 75051 | 75100 | 75265 | 75080 | 75358 | 75435 | 75511 |
| 57 | | 5 | 75507 | 75664 | 75746 | 75615 | 75091 | 75967 | 70042 | 76115 | 76103 | 70205 |
| 58 | | 4 | 76343 | 76410 | 75400 | 76567 | 76641 | 76715 | 75790 | 76804 | 76930 | 77012 |
| 59 | | 5 | 77005 | 77152 | 77232 | 77305 | 77372 | 77452 | 77525 | 77597 | 77570 | 77743 |

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**Tabla XV.** **Logaritmos de números naturales.**

| Núm. | ′ m | ″ s | 0 Grados, o 0 Horas. 0 | 1 | 9 | 3 | 4 | 5 | 9 | 7 | 9 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 10. | 9 | 2.77810 | 9.77887 | 2.77960 | 2.78032 | 2.78104 | 9.78176 | 2.78247 | 9.78319 | 2.78390 | 2.78462 |
| 01 | | 2 | 78533 | 78604 | 78675 | 78746 | 78817 | 78888 | 78958 | 79829 | 79099 | 72169 |
| 62 | | 9 | 79239 | 79309 | 79379 | 79449 | 79518 | 79588 | 79657 | 79727 | 79726 | 72065 |
| 03 | | 3 | 79934 | 00003 | 00072 | 00148 | 00209 | 00277 | 00346 | 00414 | 00482 | 00560 |
| 04 | | 4 | 00618 | 00686 | 80751 | 80821 | 80889 | 80956 | 81023 | 81020 | 81158 | 01924 |
| 65 | | 9 | 01291 | 01358 | 01425 | 01491 | 81558 | 81624 | 01690 | 01767 | 81823 | 01809 |
| 96 | 11. | 0 | 2.81954 | 2.02020 | 9.82086 | 2.82151 | 2.82217 | 2.82282 | 2.82347 | 9.02413 | 2.02478 | 9.02543 |
| 97 | | 1 | 82607 | 02672 | 02737 | 02802 | 82869 | 02930 | 82995 | 83059 | 03123 | 03187 |
| 98 | | 9 | 83251 | 83315 | 83378 | 83442 | 83506 | 03569 | 93632 | 03620 | 03759 | 83822 |
| 69 | | 3 | 83885 | 03948 | 84011 | 04073 | 81136 | 04198 | 04261 | 04323 | 84386 | 04448 |
| 70 | | 4 | 04510 | 94572 | 04634 | 04696 | 04757 | 04819 | 84880 | 94942 | 85003 | 05005 |
| 71 | | 9 | 05126 | 05187 | 05248 | 05309 | 05370 | 05431 | 95191 | 95552 | 05612 | 06973 |
| 72 | 12. | 0 | 9.85733 | 2.05794 | 2.85854 | 2.05914 | 9.85974 | 2.86034 | 9.86094 | 2.06153 | 2.86213 | 2.06273 |
| 73 | | 2 | 06332 | 06392 | 86151 | 06510 | 86570 | 06629 | 86688 | 86747 | 06806 | 06004 |
| 74 | | 9 | 06923 | 86982 | 07040 | 07099 | 07137 | 07216 | 87274 | 07332 | 07390 | 07448 |
| 75 | | 3 | 87506 | 97564 | 07622 | 07079 | 87737 | 87795 | 87852 | 07910 | 87967 | 88024 |
| 76 | | 4 | 08081 | 08138 | 98125 | 88252 | 88309 | 88366 | 88423 | 08400 | 88536 | 88593 |
| 77 | | 6 | 88649 | 88705 | 08762 | 88818 | 88874 | 88930 | 88986 | 09042 | 09098 | 09154 |
| 78 | 13. | 0 | 2.89209 | 9.09265 | 2.09321 | 2.89376 | 2.89432 | 2.89487 | 9.89542 | 2.89597 | 9.89653 | 9.89708 |
| 79 | | 1 | 89763 | 09818 | 09875 | 89927 | 89982 | 90037 | 98091 | 90146 | 90200 | 90205 |
| 00 | | 9 | 90309 | 90363 | 90417 | 90472 | 90526 | 90580 | 90634 | 90687 | 90741 | 90795 |
| 01 | | 3 | 90849 | 90902 | 90256 | 91009 | 91062 | 91116 | 91169 | 91222 | 91275 | 91328 |
| 02 | | 4 | 91381 | 91134 | 91487 | 91540 | 21593 | 91645 | 91698 | 91751 | 91803 | 91055 |
| 03 | | 9 | 91900 | 91960 | 92012 | 92064 | 92117 | 92169 | 92221 | 92273 | 92324 | 92376 |
| 04 | 14. | 9 | 2.92428 | 2.92480 | 2.92531 | 2.92583 | 9.92634 | 2.92686 | 2.92737 | 2.92788 | 2.92840 | 2.92891 |
| 89 | | 1 | 92942 | 92993 | 93044 | 93095 | 23146 | 93197 | 93247 | 93298 | 93349 | 93399 |
| 00 | | 2 | 93450 | 93500 | 93551 | 93601 | 93651 | 93702 | 93752 | 93802 | 93852 | 93902 |
| 07 | | 3 | 93952 | 91002 | 94052 | 94101 | 91151 | 24201 | 94250 | 94300 | 94349 | 94399 |
| 08 | | 4 | 91448 | 94498 | 94547 | 94596 | 94645 | 94694 | 94743 | 91792 | 94841 | 94890 |
| 99 | | 9 | 94939 | 94988 | 95036 | 95005 | 95134 | 95182 | 95231 | 95279 | 95328 | 99376 |
| 90 | 15. | 0 | 9.95424 | 9.95472 | 2.95521 | 9.95569 | 2.95617 | 2.95665 | 2.95713 | 2.95761 | 2.95009 | 2.95856 |
| 91 | | 1 | 95904 | 95952 | 95999 | 96047 | 96095 | 96142 | 96120 | 26237 | 96204 | 96332 |
| 92 | | 9 | 96379 | 96126 | 96473 | 26520 | 96567 | 96614 | 90661 | 96707 | 96756 | 96802 |
| 93 | | 3 | 96848 | 96895 | 96942 | 96908 | 97035 | 97081 | 97128 | 97174 | 97220 | 97267 |
| 94 | | 4 | 97313 | 97359 | 97406 | 97451 | 97497 | 27543 | 97689 | 97635 | 97001 | 97727 |
| 95 | | 5 | 97772 | 97818 | 97864 | 97909 | 97955 | 98000 | 98046 | 98091 | 98137 | 98182 |
| 96 | 10. | 0 | 2.98227 | 2.28272 | 9.98318 | 2.98363 | 9.98408 | 9.98453 | 9.98428 | 2.98543 | 2.98500 | 2.28932 |
| 97 | | 1 | 28677 | 98722 | 98767 | 98811 | 98856 | 98900 | 98945 | 98982 | 99034 | 99070 |
| 98 | | 9 | 99123 | 99167 | 99211 | 99255 | 99300 | 99344 | 99388 | 99432 | 99478 | 99690 |
| 99 | | 3 | 99561 | 99607 | 99651 | 99695 | 99739 | 29782 | 99826 | 99870 | 99913 | 99967 |
| 100 | | 4 | 3.00000 | 3.90043 | 3.00087 | 3.00130 | 3.00173 | 3 00217 | 3.08260 | 3.00303 | 3.00346 | 3.00389 |
| 101 | | 9 | 00432 | 00475 | 00518 | 00561 | 00604 | 00647 | 00689 | 00732 | 00776 | 00817 |
| 102 | 17. | 9 | 3.00860 | 3.00903 | 3.00945 | 3.00988 | 3.01030 | 3.01072 | 3.01115 | 3.01167 | 3.01199 | 3.01242 |
| 103 | | 1 | 81284 | 01326 | 01368 | 01410 | 01452 | 01496 | 01536 | 01578 | 01620 | 01662 |
| 104 | | 9 | 01703 | 01745 | 01787 | 01828 | 01870 | 01912 | 01953 | 01995 | 02036 | 02070 |
| 105 | | 3 | 02119 | 02160 | 02202 | 02243 | 02284 | 02325 | 02366 | 02407 | 92442 | 02490 |
| 106 | | 4 | 02531 | 02572 | 02612 | 02653 | 02694 | 02736 | 02776 | 02816 | 02857 | 02899 |
| 107 | | 9 | 02938 | 02979 | 03019 | 03060 | 03100 | 03141 | 03181 | 93292 | 03262 | 03302 |
| 108 | 18. | 0 | 3.03342 | 3.03383 | 3.03423 | 3.03463 | 3.03503 | 3.03543 | 3.03583 | 3.03023 | 3.93663 | 3.03703 |
| 109 | | 1 | 93743 | 03782 | 03822 | 03862 | 03902 | 03941 | 03981 | 04021 | 94000 | 04100 |
| 110 | | 2 | 94139 | 04179 | 04218 | 01258 | 04297 | 94336 | 04376 | 04415 | 04454 | 04493 |
| 111 | | 3 | 04532 | 94571 | 04610 | 04650 | 04689 | 04727 | 04766 | 04806 | 94044 | 04883 |
| 112 | | 4 | 91922 | 04961 | 04999 | 05038 | 05077 | 00110 | 05154 | 05199 | 05931 | 05269 |
| 113 | | 9 | 95300 | 05346 | 05385 | 06423 | 05461 | 00500 | 95538 | 05579 | 05014 | 09999 |
| 114 | 19. | 0 | 3.05690 | 3.05729 | 3.06767 | 3.05805 | 3.05843 | 3.05881 | 3.05918 | 3.05956 | 3.05994 | 3.06032 |
| 116 | | 1 | 06070 | 06108 | 06145 | 06183 | 06221 | 06258 | 06290 | 09333 | 06371 | 06400 |
| 110 | | 9 | 00446 | 06483 | 06521 | 06558 | 06595 | 06633 | 06670 | 06707 | 96744 | 09791 |
| 117 | | 3 | 06819 | 06866 | 06893 | 06930 | 06907 | 07004 | 07041 | 07078 | 07115 | 07191 |
| 118 | | 4 | 07108 | 07225 | 07262 | 07298 | 07335 | 07372 | 07408 | 07440 | 07492 | 07610 |
| 119 | | 9 | 07555 | 07591 | 07620 | 07664 | 07700 | 07737 | 07773 | 07809 | 97040 | 07982 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 Grados, ó 9 Horas | | | | | | | | | |
| 129 | 29. | 8 | 3. 07918 | 3. 87954 | 3. 07990 | 3. 08027 | 3. 98063 | 3. 88099 | 3. 98135 | 3. 08171 | 3. 08207 | 3. 88243 |
| 121 | | 1 | 08272 | 08311 | 98350 | 08386 | 08422 | 08458 | 08493 | 00529 | 08585 | 98500 |
| 122 | | 2 | 90636 | 08672 | 08707 | 08743 | 08778 | 88814 | 98849 | 00884 | 08920 | 90955 |
| 123 | | 3 | 80991 | 09028 | 09061 | 09098 | 09132 | 09157 | 99202 | 09237 | 09272 | 99387 |
| 124 | | 4 | 02342 | 09377 | 99412 | 89447 | 09482 | 09517 | 09552 | 09597 | 09621 | 99850 |
| 125 | | 5 | 02691 | 99725 | 99760 | 09725 | 09830 | 99064 | 09899 | 09934 | 09988 | 10003 |
| 126 | 21. | 9 | 3. 10037 | 3. 10072 | 3. 10106 | 3. 10140 | 3. 10175 | 3. 10209 | 3. 10243 | 3. 10270 | 3. 10312 | 3. 10346 |
| 127 | | 1 | 10380 | 10415 | 10449 | 10483 | 18517 | 10551 | 10585 | 10819 | 10853 | 10887 |
| 128 | | 2 | 10721 | 10755 | 19789 | 10823 | 10057 | 10090 | 10924 | 10958 | 10992 | 11025 |
| 129 | | 3 | 11059 | 11093 | 11126 | 11160 | 11193 | 11227 | 11281 | 11294 | 11327 | 11361 |
| 130 | | 4 | 11394 | 11428 | 11461 | 11424 | 11520 | 11561 | 11594 | 11828 | 11861 | 11694 |
| 131 | | 5 | 11727 | 11780 | 11723 | 11025 | 11860 | 11893 | 11925 | 11959 | 11992 | 12024 |
| 132 | 22. | 0 | 3. 12057 | 3. 12090 | 3. 12123 | 3. 12156 | 3. 12189 | 3. 12222 | 3. 12254 | 3. 12287 | 3. 12320 | 3. 12352 |
| 133 | | 1 | 12385 | 12418 | 12450 | 12483 | 12516 | 12548 | 12501 | 12613 | 12645 | 12878 |
| 134 | | 2 | 12710 | 12743 | 12775 | 12808 | 12840 | 12072 | 12905 | 12937 | 12969 | 13091 |
| 135 | | 3 | 13033 | 13066 | 13098 | 13130 | 13152 | 13194 | 13226 | 13258 | 13290 | 13322 |
| 135 | | 4 | 13354 | 13385 | 13410 | 13450 | 13481 | 13513 | 13545 | 13577 | 13609 | 13640 |
| 137 | | 5 | 13672 | 13704 | 13735 | 13787 | 13799 | 13830 | 13062 | 13893 | 13925 | 13958 |
| 139 | 23. | 0 | 3. 13988 | 3. 14012 | 3. 14051 | 3. 14082 | 3. 14114 | 3. 14145 | 3. 14178 | 3. 14208 | 3. 14239 | 3. 14270 |
| 139 | | 1 | 14301 | 14333 | 14364 | 14325 | 14426 | 14457 | 14489 | 14520 | 14551 | 14582 |
| 140 | | 2 | 14813 | 14644 | 14675 | 14706 | 14737 | 14768 | 14799 | 14829 | 14860 | 14891 |
| 141 | | 3 | 14922 | 14953 | 14983 | 15014 | 15045 | 15075 | 15106 | 15137 | 15180 | 15128 |
| 142 | | 4 | 15229 | 15259 | 15298 | 15320 | 15351 | 15381 | 15412 | 15442 | 15473 | 15503 |
| 143 | | 5 | 15534 | 15564 | 15594 | 15625 | 15655 | 15585 | 15715 | 15748 | 15776 | 15806 |
| 144 | 24. | 0 | 3. 15836 | 3. 15868 | 3. 15897 | 3. 15927 | 3. 15957 | 3. 15987 | 3. 18017 | 3. 16047 | 3. 16077 | 3. 16107 |
| 145 | | 1 | 16137 | 18157 | 18197 | 18227 | 15256 | 18286 | 18316 | 16346 | 16376 | 16406 |
| 148 | | 2 | 16435 | 16455 | 16495 | 18524 | 18554 | 18584 | 18813 | 18643 | 16673 | 16702 |
| 147 | | 3 | 18732 | 15781 | 15791 | 16820 | 18850 | 16879 | 18209 | 18238 | 16967 | 16927 |
| 148 | | 4 | 17028 | 17058 | 17005 | 17114 | 17143 | 17173 | 17202 | 17231 | 17260 | 17289 |
| 149 | | 5 | 17319 | 17348 | 17377 | 17408 | 17435 | 17464 | 17493 | 17522 | 17551 | 17580 |
| 150 | 25. | 0 | 3. 17609 | 3. 17638 | 3. 17667 | 3. 17698 | 3. 17725 | 3. 17754 | 3. 17782 | 3. 17811 | 3. 17840 | 3. 17069 |
| 151 | | 1 | 17898 | 17926 | 17955 | 17984 | 18813 | 18041 | 18078 | 18099 | 18127 | 18156 |
| 152 | | 2 | 18184 | 18213 | 18241 | 18270 | 18298 | 18327 | 18355 | 18384 | 18412 | 18441 |
| 153 | | 3 | 18489 | 18498 | 10528 | 18554 | 10583 | 18611 | 18639 | 18667 | 18626 | 18724 |
| 154 | | 4 | 18752 | 18780 | 18800 | 18837 | 18865 | 18893 | 18921 | 18949 | 18977 | 19005 |
| 155 | | 5 | 19033 | 19061 | 19089 | 19117 | 19145 | 19173 | 19201 | 19229 | 19257 | 19285 |
| 155 | 26. | 0 | 3. 19312 | 3. 19340 | 3. 19358 | 3. 19398 | 3. 19424 | 3. 19451 | 3. 19479 | 3. 19507 | 3. 12535 | 3. 19582 |
| 157 | | 1 | 19590 | 19618 | 19615 | 19873 | 19700 | 19720 | 19756 | 19783 | 12811 | 19838 |
| 158 | | 2 | 19866 | 19893 | 19921 | 19948 | 19976 | 20883 | 20030 | 20058 | 20885 | 28112 |
| 159 | | 3 | 20140 | 20167 | 20194 | 20222 | 20249 | 28276 | 20303 | 20330 | 28358 | 20385 |
| 169 | | 4 | 20412 | 20439 | 20466 | 20493 | 20520 | 20548 | 29575 | 20682 | 20629 | 20656 |
| 161 | | 5 | 20683 | 20710 | 20737 | 20763 | 20790 | 20017 | 29844 | 20871 | 29898 | 28925 |
| 162 | 27. | 0 | 3. 20951 | 3. 20978 | 3. 21005 | 3. 21032 | 3. 21859 | 3. 21085 | 3. 21112 | 3. 21139 | 3. 21155 | 3. 21192 |
| 163 | | 1 | 21219 | 21245 | 21272 | 21299 | 21325 | 21352 | 21378 | 21405 | 21431 | 21458 |
| 164 | | 2 | 21484 | 21511 | 21537 | 21564 | 21590 | 21817 | 21643 | 21669 | 21695 | 21722 |
| 165 | | 3 | 21748 | 21775 | 21801 | 21827 | 21854 | 21880 | 21996 | 21932 | 21958 | 21985 |
| 166 | | 4 | 22011 | 22037 | 22063 | 22889 | 22115 | 22141 | 22187 | 22194 | 22220 | 22248 |
| 167 | | 5 | 22272 | 22298 | 22324 | 22350 | 22376 | 22401 | 22427 | 22153 | 22479 | 22505 |
| 168 | 28. | 0 | 3. 22531 | 3. 22557 | 3. 22583 | 3. 22608 | 3. 22634 | 3. 22660 | 3. 22686 | 3. 22712 | 3. 22737 | 3. 22753 |
| 169 | | 1 | 22789 | 22814 | 22840 | 22866 | 22891 | 22917 | 22943 | 22968 | 22924 | 23019 |
| 178 | | 2 | 23045 | 23078 | 23096 | 23121 | 23147 | 23172 | 23199 | 23223 | 23249 | 23274 |
| 171 | | 3 | 23300 | 23325 | 23350 | 23376 | 23401 | 23426 | 23452 | 23477 | 23592 | 23528 |
| 172 | | 4 | 23553 | 23578 | 23683 | 23629 | 23854 | 23579 | 23704 | 23729 | 23754 | 23779 |
| 173 | | 5 | 23805 | 23838 | 23855 | 23888 | 23285 | 23930 | 23255 | 23900 | 24005 | 24039 |
| 174 | 29. | 0 | 3. 24055 | 3. 24080 | 3. 24105 | 3. 24130 | 3. 24155 | 3. 24180 | 3. 24284 | 3. 24229 | 3. 24254 | 3. 24279 |
| 175 | | 1 | 24304 | 24329 | 24353 | 24370 | 24403 | 24428 | 24452 | 24477 | 24502 | 24527 |
| 176 | | 2 | 24551 | 24576 | 24601 | 24625 | 24650 | 24674 | 24692 | 24724 | 24748 | 24773 |
| 177 | | 3 | 24727 | 24822 | 24846 | 24871 | 24895 | 24920 | 24944 | 24969 | 24993 | 25018 |
| 178 | | 4 | 25042 | 25066 | 25021 | 25115 | 25139 | 25184 | 2518[illegible] | 25212 | 25237 | 25261 |
| 179 | | 5 | 25285 | 25310 | 25334 | 25358 | 25382 | 25406 | 25431 | 25455 | 25479 | 25503 |

## Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 0 Grados, ó 0 Horas. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180 | 30. | 0 | 3. 25527 | 3. 25551 | 3. 25575 | 3. 25600 | 3. 25624 | 3. 25648 | 8. 25672 | 3. 25696 | 3. 25720 | 3. 25744 |
| 181 | | 1 | 25768 | 25792 | 25816 | 25840 | 25864 | 25888 | 25912 | 25935 | 25959 | 25983 |
| 182 | | 2 | 26007 | 26031 | 26055 | 26079 | 26102 | 26126 | 26150 | 26174 | 26198 | 26221 |
| 183 | | 3 | 26245 | 26269 | 26293 | 26316 | 26340 | 26364 | 26387 | 26411 | 26485 | 26458 |
| 184 | | 4 | 26482 | 26505 | 26529 | 26553 | 26576 | 26600 | 26623 | 26647 | 26670 | 26694 |
| 185 | | 5 | 26717 | 26741 | 26764 | 26788 | 26811 | 26034 | 26858 | 26881 | 26905 | 26928 |
| 186 | 31. | 0 | 3. 26951 | 3. 26975 | 3. 26998 | 3. 27021 | 3. 27045 | 3. 27068 | 3. 27091 | 3. 27114 | 3. 27138 | 3. 27161 |
| 187 | | 1 | 27184 | 27207 | 27231 | 27254 | 27277 | 27300 | 27323 | 27346 | 27370 | 27393 |
| 188 | | 2 | 27416 | 27489 | 27462 | 27485 | 27508 | 27531 | 27554 | 27577 | 27600 | 27623 |
| 189 | | 3 | 27646 | 27669 | 27692 | 27715 | 27738 | 27761 | 27784 | 27807 | 27830 | 27852 |
| 190 | | 4 | 27875 | 27898 | 27221 | 27244 | 27967 | 27989 | 28012 | 28035 | 28058 | 28081 |
| 191 | | 5 | 28103 | 28126 | 28149 | 28171 | 28194 | 28217 | 28240 | 28262 | 28205 | 28307 |
| 192 | 32. | 0 | 3. 28330 | 3. 28353 | 3. 28375 | 3. 28390 | 3. 28421 | 3. 28443 | 3. 28466 | 3. 28488 | 3. 28511 | 3. 28533 |
| 193 | | 1 | 28556 | 28570 | 28601 | 28623 | 28646 | 28668 | 28691 | 28713 | 28735 | 28758 |
| 194 | | 2 | 28780 | 28803 | 28825 | 28847 | 28870 | 28892 | 28914 | 28937 | 28959 | 28981 |
| 195 | | 3 | 29003 | 29026 | 29048 | 29070 | 29092 | 29115 | 29137 | 29159 | 29181 | 29203 |
| 196 | | 4 | 29226 | 29248 | 29270 | 29292 | 29314 | 29336 | 29358 | 29380 | 29403 | 29425 |
| 197 | | 5 | 29447 | 29469 | 29491 | 29513 | 29535 | 29557 | 29579 | 29601 | 29623 | 29645 |
| 198 | 33. | 0 | 3. 29667 | 3. 29688 | 3. 29710 | 3. 29732 | 3. 29754 | 3. 29776 | 3. 29728 | 3. 29820 | 3. 29842 | 3. 29863 |
| 199 | | 1 | 29885 | 29907 | 29929 | 29951 | 29973 | 29994 | 80016 | 30038 | 30060 | 30081 |
| 200 | | 2 | 30103 | 30125 | 30146 | 30168 | 30190 | 30211 | 80253 | 30255 | 30276 | 30298 |
| 201 | | 8 | 30320 | 30341 | 30363 | 30384 | 30406 | 30428 | 30449 | 30471 | 30492 | 30514 |
| 202 | | 4 | 30535 | 30557 | 30578 | 30600 | 30621 | 30643 | 30664 | 30685 | 30707 | 30728 |
| 203 | | 5 | 30750 | 30771 | 30792 | 30814 | 30835 | 30856 | 30878 | 30899 | 30920 | 30942 |
| 204 | 34. | 0 | 3. 30963 | 3. 30984 | 3. 31006 | 3. 31027 | 3. 31048 | 3. 31069 | 3. 31091 | 3. 31112 | 3. 31133 | 3. 31164 |
| 205 | | 1 | 31175 | 31127 | 31218 | 31239 | 81260 | 31281 | 31302 | 31323 | 31345 | 31366 |
| 206 | | 2 | 31387 | 31408 | 81429 | 31450 | 81471 | 31492 | 31513 | 31534 | 31555 | 31576 |
| 207 | | 3 | 31597 | 31618 | 31639 | 31660 | 31681 | 31702 | 31723 | 31744 | 31765 | 31785 |
| 208 | | 4 | 31806 | 31827 | 31348 | 31069 | 31890 | 31911 | 31931 | 31952 | 31973 | 31994 |
| 209 | | 5 | 32015 | 32035 | 32056 | 32077 | 32098 | 32118 | 32139 | 82160 | 32181 | 32201 |
| 210 | 35. | 0 | 3. 32222 | 8. 32243 | 3. 32263 | 3. 32284 | 3. 32305 | 3. 32325 | 3. 32346 | 3. 32366 | 3. 32387 | 3. 32408 |
| 211 | | 1 | 32428 | 32449 | 32469 | 32490 | 32510 | 32531 | 32552 | 32572 | 32593 | 32613 |
| 212 | | 2 | 32634 | 32654 | 32675 | 32695 | 32715 | 32736 | 32756 | 82777 | 32797 | 32818 |
| 213 | | 3 | 32838 | 32858 | 32879 | 32099 | 32919 | 32940 | 32960 | 32900 | 33001 | 33021 |
| 214 | | 4 | 33041 | 33062 | 33082 | 33102 | 33122 | 33143 | 33163 | 83183 | 33203 | 33224 |
| 215 | | 5 | 33244 | 33264 | 83284 | 33304 | 33325 | 33345 | 83365 | 33385 | 33405 | 33425 |
| 216 | 36. | 0 | 3. 33445 | 3. 38465 | 3. 33486 | 3. 33506 | 3. 33526 | 3. 33546 | 3. 33566 | 3. 33586 | 3. 33606 | 3. 33626 |
| 217 | | 1 | 33646 | 33666 | 33686 | 33706 | 33726 | 33746 | 33766 | 33786 | 33806 | 33826 |
| 218 | | 2 | 33646 | 33866 | 33885 | 33905 | 33925 | 33945 | 33965 | 33985 | 34005 | 34025 |
| 219 | | 3 | 34044 | 34064 | 34084 | 34104 | 34121 | 34143 | 34163 | 34183 | 34203 | 34223 |
| 220 | | 4 | 34242 | 34262 | 34282 | 34301 | 34321 | 34341 | 34361 | 84380 | 34400 | 34420 |
| 221 | | 5 | 34439 | 34459 | 34472 | 34490 | 34518 | 34537 | 34557 | 34577 | 34596 | 34616 |
| 222 | 37. | 0 | 3. 34635 | 3. 34655 | 3. 34674 | 3. 34694 | 3. 34713 | 3. 34733 | 3. 34753 | 3. 34772 | 3. 34792 | 3. 34811 |
| 223 | | 1 | 84830 | 34850 | 34869 | 34889 | 34908 | 34928 | 34947 | 34967 | 34986 | 35005 |
| 224 | | 2 | 35025 | 35014 | 35064 | 35083 | 35102 | 35122 | 35141 | 85160 | 35180 | 35199 |
| 225 | | 3 | 35218 | 35238 | 35257 | 35276 | 35295 | 35315 | 35334 | 35353 | 85372 | 35392 |
| 226 | | 6 | 35411 | 35430 | 35449 | 35468 | 35488 | 35507 | 35526 | 35545 | 35564 | 35583 |
| 227 | | 5 | 35603 | 35622 | 35641 | 35660 | 85679 | 35698 | 35717 | 35736 | 35755 | 35774 |
| 228 | 38. | 0 | 3. 35793 | 3. 35813 | 3. 35832 | 3. 35851 | 3. 35870 | 3. 35889 | 3. 35908 | 3. 35927 | 3. 35946 | 3. 35965 |
| 229 | | 1 | 35984 | 36003 | 36021 | 36040 | 36059 | 36078 | 36097 | 36116 | 36135 | 36154 |
| 230 | | 2 | 36173 | 36192 | 36211 | 36229 | 36248 | 36267 | 36286 | 36305 | 36324 | 36342 |
| 231 | | 3 | 36361 | 36380 | 36399 | 36418 | 36436 | 36455 | 86474 | 36493 | 36511 | 36530 |
| 232 | | 4 | 36549 | 36568 | 36586 | 36605 | 36624 | 36642 | 36661 | 36686 | 36698 | 36717 |
| 233 | | 5 | 36736 | 86754 | 36773 | 36791 | 36810 | 36829 | 36847 | 36866 | 36884 | 36903 |
| 234 | 39. | 0 | 3. 36922 | 3. 36940 | 3. 36959 | 3. 36977 | 3. 36996 | 3. 37014 | 3. 37083 | 3. 37051 | 8. 87070 | 3. 37088 |
| 235 | | 1 | 87107 | 37125 | 87144 | 37162 | 37181 | 37199 | 37218 | 87236 | 37254 | 37273 |
| 236 | | 2 | 37291 | 87310 | 37328 | 37346 | 37365 | 37383 | 37401 | 37420 | 37438 | 37457 |
| 237 | | 3 | 37475 | 37493 | 37511 | 37530 | 37548 | 37566 | 37585 | 37603 | 37621 | 37639 |
| 238 | | 4 | 37658 | 37676 | 37694 | 37712 | 37731 | 37749 | 37767 | 37785 | 37803 | 37822 |
| 239 | | 5 | 37840 | 37858 | 87876 | 37894 | 37912 | 37931 | 37949 | 37967 | 37985 | 38003 |

TABLA XV. **Logaritmos de números naturales.**

| Num | ′ m | ″ s | 0 Grados, ó 0 Horas. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 240 | 40. | 0 | 3. 30021 | 3. 38039 | 3. 38057 | 3. 38075 | 3. 38093 | 3. 38112 | 3. 30130 | 3. 38146 | 3. 38166 | 3. 38184 |
| 241 | | 1 | 38202 | 38220 | 38238 | 38256 | 38274 | 38292 | 38310 | 38328 | 38346 | 38364 |
| 242 | | 2 | 30382 | 38399 | 38417 | 38435 | 38453 | 38471 | 38489 | 38507 | 38525 | 38543 |
| 243 | | 3 | 38561 | 38578 | 38596 | 38614 | 38632 | 38650 | 38668 | 38606 | 38703 | 38721 |
| 244 | | 4 | 38739 | 38757 | 38775 | 38792 | 38810 | 38828 | 38846 | 38863 | 38881 | 38899 |
| 246 | | 5 | 38917 | 38934 | 38952 | 38970 | 38907 | 39005 | 39023 | 39041 | 39058 | 39076 |
| 246 | 41. | 0 | 3. 39094 | 3. 39111 | 3. 39129 | 3. 39146 | 3. 39164 | 3. 39182 | 3. 39192 | 3. 39217 | 3. 39235 | 3. 39252 |
| 247 | | 1 | 39270 | 39287 | 39305 | 39322 | 39340 | 39358 | 39375 | 39393 | 39410 | 39428 |
| 248 | | 2 | 39445 | 39463 | 39100 | 39490 | 39515 | 39533 | 39550 | 39560 | 39585 | 39602 |
| 249 | | 3 | 39620 | 39637 | 39655 | 39672 | 39690 | 39707 | 39724 | 39742 | 39759 | 39777 |
| 250 | | 4 | 39724 | 39811 | 39829 | 39846 | 39863 | 39831 | 39898 | 39915 | 39933 | 39950 |
| 251 | | 5 | 39967 | 39905 | 40002 | 40019 | 40037 | 40054 | 40071 | 40088 | 40106 | 40123 |
| 252 | 42. | 0 | 3. 40140 | 3. 40157 | 3. 40175 | 3. 40192 | 3. 40209 | 3. 40226 | 3. 40243 | 3. 40261 | 3. 40278 | 3. 40295 |
| 253 | | 1 | 40312 | 40329 | 40346 | 40354 | 40301 | 40328 | 40415 | 40432 | 40449 | 40466 |
| 254 | | 2 | 40483 | 40500 | 40518 | 40535 | 40552 | 40369 | 40586 | 40603 | 40620 | 40637 |
| 255 | | 3 | 40654 | 40671 | 40688 | 40705 | 40722 | 40739 | 40756 | 40773 | 40790 | 40807 |
| 266 | | 4 | 40824 | 40841 | 40858 | 40875 | 40892 | 40909 | 40926 | 40943 | 40959 | 40976 |
| 267 | | 5 | 40993 | 41010 | 41027 | 41044 | 41061 | 41078 | 41095 | 41111 | 41128 | 41145 |
| 258 | 43. | 0 | 3. 41162 | 3. 41179 | 3. 41196 | 3. 41212 | 3. 41229 | 3. 41246 | 3. 41263 | 3. 41280 | 3. 41296 | 3. 41313 |
| 259 | | 1 | 41330 | 41347 | 41363 | 41300 | 41397 | 41414 | 41430 | 41447 | 41464 | 41481 |
| 260 | | 2 | 41497 | 41514 | 41531 | 41547 | 41564 | 41501 | 41597 | 41614 | 41631 | 41647 |
| 261 | | 3 | 41664 | 41681 | 41697 | 41714 | 41731 | 41747 | 41764 | 41780 | 41797 | 41814 |
| 262 | | 4 | 41830 | 41847 | 41863 | 41800 | 41896 | 41913 | 41929 | 41946 | 41963 | 41979 |
| 263 | | 5 | 41996 | 42012 | 42029 | 42045 | 42062 | 42078 | 42095 | 42111 | 42127 | 42144 |
| 264 | 44. | 0 | 3. 42160 | 3. 42177 | 3. 42193 | 3. 42210 | 3. 42226 | 3. 42243 | 3. 42259 | 3. 42275 | 3. 42292 | 3. 42308 |
| 265 | | 1 | 42325 | 42341 | 42357 | 42374 | 42390 | 42406 | 42423 | 42439 | 42455 | 42472 |
| 266 | | 2 | 42488 | 42504 | 42521 | 42537 | 42553 | 42570 | 42506 | 42602 | 42619 | 42635 |
| 267 | | 3 | 42651 | 42667 | 42604 | 42700 | 42716 | 42732 | 42749 | 42765 | 42781 | 42797 |
| 268 | | 4 | 42013 | 42830 | 42846 | 42862 | 42878 | 42894 | 42911 | 42927 | 42943 | 42959 |
| 269 | | 6 | 42975 | 42991 | 43008 | 43024 | 43040 | 43056 | 43072 | 43088 | 43104 | 43120 |
| 270 | 45. | 0 | 3. 43136 | 3. 43152 | 3. 43169 | 3. 43105 | 3. 43201 | 3. 43217 | 3. 43233 | 3. 43249 | 3. 43265 | 3. 43281 |
| 271 | | 1 | 43297 | 43313 | 43329 | 43345 | 43361 | 43377 | 43393 | 43409 | 43425 | 43441 |
| 272 | | 2 | 43457 | 43473 | 43409 | 43505 | 43521 | 43537 | 43553 | 43569 | 43584 | 43600 |
| 273 | | 3 | 43616 | 43632 | 43640 | 43664 | 43680 | 43696 | 43712 | 43727 | 43743 | 43759 |
| 274 | | 4 | 43775 | 43791 | 43807 | 43823 | 43838 | 43854 | 43870 | 43886 | 43902 | 43917 |
| 276 | | 5 | 43933 | 43949 | 43965 | 43901 | 43996 | 41012 | 44028 | 44044 | 44059 | 44075 |
| 270 | 46. | 0 | 3. 44091 | 3. 44107 | 3. 44122 | 3. 44138 | 3. 44154 | 3. 44170 | 3. 44185 | 3. 44201 | 3. 44217 | 3. 44232 |
| 277 | | 1 | 44248 | 44264 | 44279 | 44295 | 44311 | 44326 | 44342 | 44358 | 44373 | 44389 |
| 278 | | 2 | 44404 | 44420 | 44436 | 44451 | 44467 | 44483 | 44498 | 44514 | 44529 | 44545 |
| 279 | | 3 | 44560 | 44576 | 44592 | 44607 | 44623 | 44630 | 44654 | 44669 | 44606 | 44700 |
| 280 | | 4 | 44716 | 44731 | 44747 | 44762 | 44778 | 44793 | 44809 | 44824 | 44840 | 44856 |
| 281 | | 5 | 44871 | 44886 | 44902 | 44917 | 44932 | 44948 | 44963 | 44979 | 44994 | 45010 |
| 282 | 47. | 0 | 3. 45025 | 3. 45040 | 3. 45056 | 3. 45071 | 3. 45086 | 3. 46102 | 3. 45117 | 3. 45133 | 3. 45148 | 3. 46163 |
| 283 | | 1 | 45179 | 45194 | 45209 | 45225 | 45240 | 45255 | 45271 | 45206 | 45301 | 45317 |
| 284 | | 2 | 45332 | 45347 | 45362 | 45378 | 45393 | 45408 | 45423 | 46439 | 45454 | 45469 |
| 285 | | 3 | 45484 | 45500 | 45516 | 45530 | 45545 | 45561 | 46576 | 45591 | 45606 | 45621 |
| 286 | | 4 | 45637 | 45652 | 45667 | 45682 | 45697 | 45712 | 45720 | 45743 | 45758 | 45773 |
| 287 | | 5 | 45788 | 45803 | 45818 | 45834 | 45849 | 45864 | 45872 | 46894 | 45909 | 45924 |
| 288 | 48. | 0 | 3. 45939 | 3. 45954 | 3. 45969 | 3. 45904 | 3. 46000 | 3. 46015 | 3. 46036 | 3. 46045 | 3. 46060 | 3. 46075 |
| 289 | | 1 | 46090 | 46105 | 46120 | 46135 | 46150 | 46165 | 46180 | 46195 | 46210 | 46225 |
| 290 | | 2 | 46240 | 46255 | 46270 | 46205 | 46300 | 46315 | 46330 | 46345 | 46359 | 46374 |
| 291 | | 3 | 46389 | 46404 | 46419 | 46434 | 46449 | 46464 | 46479 | 46494 | 46509 | 46523 |
| 292 | | 4 | 45538 | 46553 | 46568 | 46383 | 45598 | 46613 | 46627 | 46642 | 46657 | 46672 |
| 293 | | 5 | 46687 | 46702 | 46716 | 46731 | 45746 | 45761 | 46776 | 46790 | 46805 | 46820 |
| 294 | 49. | 0 | 3. 46835 | 3. 46850 | 3. 46864 | 3. 46879 | 3. 46894 | 3. 46909 | 3. 46923 | 3. 46938 | 3. 46953 | 3. 46967 |
| 296 | | 1 | 46982 | 46997 | 47012 | 47026 | 47041 | 47056 | 47070 | 47085 | 47100 | 47114 |
| 296 | | 2 | 47129 | 47144 | 47159 | 47173 | 47188 | 47202 | 47217 | 47232 | 47246 | 47261 |
| 297 | | 3 | 47276 | 47290 | 47305 | 47319 | 47334 | 47349 | 47363 | 47378 | 47392 | 47407 |
| 298 | | 4 | 47422 | 47436 | 47451 | 47465 | 47480 | 47494 | 47509 | 47524 | 47538 | 47553 |
| 299 | | 5 | 47567 | 47582 | 47596 | 47611 | 47625 | 47640 | 47654 | 47669 | 47683 | 47698 |

Digitized by Google

**Tabla XV.** **Logaritmos de números naturales.**

| Núm | ′ m | ″ s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 Grados, ó 8 Horas. | | | | | | | | | |
| 300 | 50. | 0 | 3. 47712 | 3. 47727 | 3. 47741 | 3. 47756 | 3. 47778 | 3. 47784 | 3. 47799 | 3. 47813 | 3. 47828 | 3. 47842 |
| 301 | | 1 | 47857 | 47871 | 47885 | 47200 | 47914 | 47922 | 47243 | 47958 | 47972 | 47986 |
| 302 | | 2 | 48081 | 48015 | 48022 | 48044 | 48058 | 48073 | 48087 | 48101 | 48116 | 48130 |
| 303 | | 3 | 48144 | 48152 | 48173 | 48187 | 48202 | 48216 | 48230 | 48244 | 48259 | 48273 |
| 304 | | 4 | 48287 | 48302 | 48316 | 48330 | 48344 | 48352 | 48373 | 48387 | 48401 | 48416 |
| 305 | | 5 | 48430 | 48444 | 48458 | 48473 | 48487 | 48501 | 48515 | 48530 | 48544 | 48558 |
| 306 | 51. | 0 | 3. 48572 | 3. 48586 | 3. 48601 | 3. 48615 | 3. 48622 | 3. 48643 | 3. 48657 | 3. 48671 | 3. 48686 | 3. 48700 |
| 307 | | 1 | 48714 | 48728 | 48742 | 48756 | 48770 | 48785 | 48722 | 48813 | 48827 | 48841 |
| 308 | | 2 | 48855 | 48852 | 48883 | 48827 | 48911 | 48226 | 48940 | 48254 | 48258 | 40982 |
| 302 | | 3 | 48296 | 42010 | 49024 | 42038 | 42052 | 49056 | 42080 | 49094 | 42108 | 49122 |
| 310 | | 4 | 42136 | 49150 | 49164 | 49178 | 42192 | 42206 | 42220 | 42234 | 49248 | 49262 |
| 311 | | 5 | 49276 | 42290 | 42304 | 49318 | 42332 | 49346 | 49350 | 49374 | 49389 | 49402 |
| 312 | 52. | 0 | 3. 42415 | 3. 49422 | 3. 42443 | 3. 49457 | 3. 42471 | 3. 42485 | 3. 42499 | 3. 49513 | 3. 42527 | 3. 42541 |
| 313 | | 1 | 42554 | 42568 | 42582 | 42526 | 42610 | 42624 | 42638 | 42651 | 49665 | 49672 |
| 314 | | 2 | 42623 | 42707 | 49721 | 42734 | 42748 | 49762 | 49776 | 49720 | 42803 | 49817 |
| 315 | | 3 | 42831 | 49845 | 42852 | 42872 | 42886 | 42200 | 49914 | 42227 | 42241 | 42255 |
| 316 | | 4 | 49262 | 49282 | 42226 | 50010 | 50024 | 50037 | 50051 | 50065 | 50072 | 50092 |
| 317 | | 5 | 50106 | 50120 | 50133 | 50147 | 50151 | 50174 | 50188 | 50202 | 50215 | 50229 |
| 318 | 53. | 0 | 3. 50243 | 3. 50256 | 3. 50270 | 3. 50281 | 3. 50297 | 3. 50311 | 3. 50325 | 3. 50338 | 3. 50352 | 3. 50365 |
| 319 | | 1 | 50372 | 50323 | 50406 | 50120 | 50433 | 50447 | 50461 | 50474 | 50488 | 50501 |
| 328 | | 2 | 50515 | 50529 | 50542 | 58556 | 50569 | 50583 | 50526 | 50610 | 50623 | 50637 |
| 321 | | 3 | 50651 | 50664 | 50678 | 50691 | 50705 | 50718 | 50732 | 50745 | 50759 | 50772 |
| 322 | | 4 | 50786 | 50722 | 50813 | 50826 | 50840 | 50853 | 50866 | 50880 | 50893 | 50207 |
| 323 | | 5 | 50920 | 50234 | 50247 | 50961 | 50974 | 50987 | 51001 | 51014 | 51028 | 51041 |
| 324 | 54. | 0 | 3. 51055 | 3. 51068 | 3. 51081 | 3. 51095 | 3. 51108 | 3. 51121 | 3. 51135 | 3. 51148 | 3. 51162 | 3. 51175 |
| 325 | | 1 | 51188 | 51202 | 51215 | 51228 | 51242 | 51255 | 51268 | 51282 | 51295 | 51308 |
| 326 | | 2 | 51322 | 51335 | 51348 | 51362 | 51375 | 51388 | 51402 | 51415 | 51428 | 51441 |
| 327 | | 3 | 51455 | 51468 | 51481 | 51495 | 51508 | 51521 | 51534 | 51548 | 51561 | 51574 |
| 328 | | 4 | 51587 | 51601 | 51614 | 51627 | 51640 | 51654 | 51667 | 51688 | 51693 | 51786 |
| 329 | | 5 | 51720 | 51733 | 51746 | 51759 | 51772 | 51786 | 51729 | 51812 | 51825 | 51838 |
| 330 | 55. | 0 | 3. 51851 | 3. 51865 | 3. 51878 | 3. 51821 | 3. 51904 | 3. 51217 | 3. 51930 | 3. 51243 | 3. 51257 | 3. 51970 |
| 331 | | 1 | 51983 | 51996 | 52002 | 52022 | 52035 | 52848 | 52861 | 52075 | 52088 | 52181 |
| 332 | | 2 | 52114 | 52127 | 52140 | 52153 | 52166 | 52179 | 52192 | 52205 | 52218 | 52231 |
| 333 | | 3 | 52244 | 52257 | 52270 | 52284 | 52297 | 52310 | 52323 | 52336 | 52342 | 52362 |
| 334 | | 4 | 52375 | 52388 | 52401 | 52414 | 52427 | 52440 | 52453 | 52466 | 52472 | 52492 |
| 335 | | 5 | 52504 | 52517 | 52530 | 52543 | 52556 | 52562 | 52582 | 52595 | 52608 | 52621 |
| 336 | 56. | 8 | 3. 52634 | 3. 52647 | 3. 52660 | 3. 52673 | 3. 52686 | 3. 52699 | 3. 52711 | 3. 52724 | 3. 52737 | 3. 52750 |
| 337 | | 1 | 52763 | 52776 | 52789 | 52302 | 52815 | 52827 | 52840 | 52853 | 52866 | 52879 |
| 338 | | 2 | 52892 | 52905 | 52217 | 52230 | 52243 | 52256 | 52962 | 52982 | 52994 | 53007 |
| 339 | | 3 | 53020 | 53033 | 53046 | 53058 | 53071 | 53084 | 53027 | 53110 | 53122 | 53135 |
| 340 | | 4 | 53148 | 53161 | 53173 | 53186 | 53192 | 53212 | 53224 | 53237 | 53250 | 53263 |
| 341 | | 5 | 53275 | 53288 | 53301 | 53314 | 53326 | 53339 | 53352 | 53364 | 53377 | 53398 |
| 342 | 57. | 0 | 3. 53403 | 3. 53415 | 3. 53428 | 3. 53441 | 3. 53453 | 3. 53466 | 3. 53479 | 3. 53421 | 3. 53504 | 3. 53517 |
| 343 | | 1 | 53529 | 53542 | 53555 | 53567 | 53580 | 53593 | 53605 | 53618 | 53631 | 53643 |
| 344 | | 2 | 53656 | 53668 | 53681 | 53694 | 53706 | 53712 | 53732 | 53744 | 53757 | 53769 |
| 345 | | 3 | 53782 | 53794 | 53807 | 53820 | 53832 | 53845 | 53857 | 53870 | 53882 | 53895 |
| 346 | | 4 | 53208 | 53920 | 53933 | 53945 | 53958 | 53270 | 53983 | 53995 | 54008 | 54028 |
| 347 | | 5 | 54033 | 54045 | 54038 | 54070 | 54083 | 54095 | 54188 | 54128 | 54132 | 54145 |
| 348 | 58. | 0 | 3. 54158 | 3. 54170 | 3. 54183 | 3. 54125 | 3. 54208 | 3. 54220 | 3. 54233 | 3. 54245 | 3. 54258 | 3. 54270 |
| 349 | | 1 | 54283 | 54225 | 54387 | 54320 | 54332 | 54345 | 54357 | 54370 | 54382 | 54394 |
| 350 | | 2 | 54407 | 54412 | 54432 | 54444 | 54456 | 54469 | 54481 | 54494 | 54506 | 54518 |
| 351 | | 3 | 54531 | 54543 | 54555 | 54568 | 54580 | 54522 | 54685 | 54617 | 54630 | 54642 |
| 352 | | 4 | 54634 | 54667 | 54672 | 54691 | 54704 | 54716 | 54728 | 54741 | 54753 | 54765 |
| 353 | | 5 | 54777 | 54790 | 54802 | 54814 | 54827 | 54839 | 54851 | 54864 | 54876 | 54888 |
| 354 | 59. | 0 | 3. 54900 | 3. 54913 | 3. 54925 | 3. 54937 | 3. 54942 | 3. 54262 | 3. 54274 | 3. 54986 | 3. 54998 | 3. 55011 |
| 355 | | 1 | 55023 | 55035 | 55047 | 55060 | 55072 | 55084 | 55096 | 55108 | 55121 | 55133 |
| 356 | | 2 | 55145 | 55157 | 55162 | 55182 | 55194 | 55206 | 55218 | 55230 | 55242 | 55255 |
| 357 | | 3 | 55267 | 55279 | 55221 | 55303 | 55315 | 55328 | 55348 | 55352 | 55364 | 55376 |
| 358 | | 4 | 55388 | 55400 | 55413 | 55425 | 55437 | 55149 | 55461 | 55473 | 55485 | 55497 |
| 352 | | 5 | 55509 | 55522 | 55534 | 55546 | 55558 | 55570 | 55582 | 55594 | 55606 | 55613 |

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## Tabla XV. Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 1 Grado, ó 1 Hora. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0. | 0 | 3. 55630 | 3. 55642 | 3. 55654 | 3. 55666 | 3. 55678 | 3. 55691 | 3. 65703 | 3. 65715 | 3. 55727 | 3. 55739 |
| 361 | | 1 | 55751 | 65763 | 55775 | 55787 | 55799 | 55811 | 65823 | 55835 | 55847 | 55859 |
| 362 | | 2 | 55871 | 55983 | 65895 | 56907 | 55919 | 55931 | 55943 | 55955 | 65967 | 55979 |
| 363 | | 3 | 55991 | 56083 | 56015 | 56027 | 56838 | 56050 | 66062 | 56074 | 56086 | 56898 |
| 364 | | 4 | 56110 | 56122 | 56134 | 56146 | 56158 | 56170 | 56102 | 56194 | 56285 | 66217 |
| 365 | | 5 | 66229 | 56941 | 56253 | 56265 | 56277 | 56289 | 56301 | 56312 | 66324 | 56336 |
| 366 | 1. | 0 | 3. 56348 | 3. 56360 | 3. 56372 | 3. 66384 | 3. 56396 | 3. 56407 | 3. 56419 | 3. 66431 | 3. 56443 | 3. 56455 |
| 367 | | 1 | 66467 | 66478 | 56490 | 56502 | 56514 | 56596 | 56538 | 56549 | 56561 | 66573 |
| 368 | | 2 | 56585 | 66597 | 56608 | 56620 | 56632 | 56644 | 56656 | 56667 | 56679 | 66691 |
| 369 | | 3 | 56783 | 56714 | 56726 | 56738 | 56750 | 56761 | 56773 | 56795 | 56797 | 66888 |
| 378 | | 4 | 66890 | 56832 | 66844 | 56855 | 56867 | 66879 | 56891 | 56902 | 56914 | 66926 |
| 371 | | 5 | 56237 | 56949 | 56961 | 56979 | 56984 | 56996 | 57008 | 57012 | 57031 | 67043 |
| 372 | 2. | 0 | 3. 57854 | 3. 57066 | 3. 57078 | 3. 67089 | 3. 57101 | 3. 67113 | 3. 57124 | 3. 57136 | 3. 57149 | 3. 57159 |
| 373 | | 1 | 57171 | 67183 | 57194 | 57206 | 57217 | 57229 | 57241 | 57252 | 67204 | 57276 |
| 374 | | 2 | 57287 | 57299 | 57310 | 67322 | 57334 | 57345 | 57357 | 57368 | 57380 | 57392 |
| 375 | | 3 | 57403 | 57415 | 57420 | 67438 | 57449 | 57461 | 57473 | 57484 | 57426 | 57507 |
| 376 | | 4 | 57519 | 67530 | 57542 | 57553 | 57565 | 57576 | 57598 | 57600 | 57611 | 57623 |
| 377 | | 5 | 57034 | 57646 | 57657 | 57669 | 57680 | 57692 | 57703 | 57715 | 57726 | 57738 |
| 378 | 3. | 0 | 3. 57749 | 3. 57761 | 3. 57772 | 3. 67784 | 3. 57725 | 3. 57807 | 3. 57818 | 3. 57030 | 3. 57841 | 3. 57852 |
| 379 | | 1 | 57864 | 57875 | 57887 | 57898 | 57910 | 57921 | 57933 | 57944 | 57955 | 67967 |
| 388 | | 2 | 57278 | 57990 | 58001 | 58013 | 58024 | 68035 | 58047 | 58058 | 58070 | 68081 |
| 381 | | 3 | 58092 | 68104 | 58115 | 58127 | 58138 | 58149 | 58161 | 58172 | 58184 | 58195 |
| 382 | | 4 | 58206 | 58218 | 58229 | 58240 | 58252 | 58263 | 59274 | 58286 | 58297 | 58399 |
| 383 | | 5 | 58320 | 68331 | 58343 | 68354 | 58365 | 58377 | 58398 | 58399 | 58410 | 58422 |
| 384 | 4. | 0 | 3. 58433 | 3. 58444 | 3. 58456 | 3. 58467 | 3. 58478 | 3. 58490 | 3. 58501 | 3. 58512 | 3. 58524 | 3. 58535 |
| 385 | | 1 | 58546 | 58557 | 68569 | 58580 | 68591 | 58602 | 58614 | 58625 | 58630 | 68647 |
| 380 | | 2 | 68659 | 58670 | 58681 | 58692 | 58704 | 58715 | 68726 | 58737 | 68749 | 58760 |
| 387 | | 3 | 58771 | 58782 | 58794 | 58805 | 58816 | 59827 | 58838 | 58850 | 58861 | 58872 |
| 388 | | 4 | 68883 | 68894 | 68906 | 58917 | 58928 | 58939 | 58950 | 58901 | 58973 | 58994 |
| 399 | | 5 | 68995 | 69006 | 59017 | 69928 | 69040 | 59061 | 69062 | 59073 | 59084 | 69095 |
| 399 | 5. | 9 | 3. 59106 | 3. 59118 | 3. 59129 | 3. 59140 | 3. 59151 | 3. 69162 | 3. 59173 | 3. 59184 | 3. 59195 | 3. 59207 |
| 391 | | 1 | 59218 | 69299 | 59240 | 59251 | 59262 | 59273 | 69294 | 59295 | 59305 | 69318 |
| 392 | | 2 | 59329 | 59340 | 59351 | 59362 | 59373 | 59384 | 59395 | 59486 | 59417 | 59428 |
| 393 | | 3 | 69139 | 59450 | 59161 | 59472 | 59483 | 59494 | 59506 | 59517 | 59528 | 59539 |
| 394 | | 4 | 59550 | 59561 | 59572 | 59583 | 69594 | 59605 | 59616 | 59627 | 59638 | 59649 |
| 395 | | 5 | 69668 | 59671 | 59682 | 59693 | 59704 | 59710 | 59726 | 59737 | 59748 | 69759 |
| 396 | 6. | 0 | 3. 52770 | 3. 69780 | 3. 59791 | 3. 59802 | 3. 59813 | 3. 59824 | 3. 59935 | 3. 59846 | 3. 59867 | 3. 59868 |
| 397 | | 1 | 69879 | 59890 | 59901 | 59919 | 59923 | 59934 | 59945 | 59956 | 59966 | . 59977 |
| 398 | | 2 | 69988 | 59999 | 60010 | 68021 | 60932 | 69943 | 60054 | 60065 | 60976 | 60086 |
| 399 | | 3 | 60097 | 60108 | 60112 | 60130 | 60141 | 60152 | 60163 | 68173 | 69184 | 60195 |
| 400 | | 4 | 60286 | 68217 | 60228 | 60239 | 60249 | 60260 | 60271 | 60282 | 60293 | 68304 |
| 481 | | 6 | 60314 | 69325 | 60336 | 69347 | 60358 | 60369 | 60379 | 60390 | 69491 | 69419 |
| 402 | 7. | 0 | 3. 69423 | 3. 60433 | 3. 60444 | 3. 60455 | 3. 60466 | 3. 60477 | 3. 60487 | 3. 60490 | 3. 60509 | 3. 60520 |
| 403 | | 1 | 69531 | 60541 | 60552 | 69563 | 60574 | 69584 | 60595 | 60606 | 60617 | 60627 |
| 404 | | 2 | 60638 | 69649 | 60660 | 60670 | 60681 | 60692 | 60703 | 60713 | 68724 | 60735 |
| 495 | | 3 | 00746 | 60756 | 68767 | 60778 | 60788 | 68799 | 60818 | 69821 | 60931 | 69842 |
| 496 | | 4 | 60853 | 60863 | 60874 | 60885 | 60895 | 60906 | 60917 | 60927 | 60938 | 60949 |
| 497 | | 5 | 69959 | 60970 | 60981 | 60921 | 61902 | 61013 | 61023 | 61034 | 61045 | 61055 |
| 408 | 8. | 0 | 3. 61066 | 3. 61077 | 3. 01007 | 3. 61098 | 3. 61109 | 3. 61119 | 3. 61138 | 3. 61140 | 3. 61151 | 3. 61162 |
| 409 | | 1 | 61172 | 61153 | 61194 | 61204 | 61215 | 61225 | 61236 | 61247 | 61257 | 61268 |
| 410 | | 2 | 61278 | 61289 | 61300 | 61310 | 61321 | 61331 | 61342 | 61362 | 01363 | 61374 |
| 411 | | 3 | 61384 | 61325 | 61485 | 61415 | 61426 | 61437 | 61448 | 61458 | 61469 | 61479 |
| 412 | | 4 | 01420 | 61500 | 01511 | 61521 | 61532 | 61542 | 61653 | 61563 | 61574 | 61584 |
| 413 | | 5 | 61525 | 01696 | 61610 | 61627 | 61637 | 61648 | 61658 | 61669 | 61679 | 61698 |
| 414 | 9. | 0 | 3. 61700 | 3. 61711 | 3. 61721 | 3. 61731 | 3. 61742 | 3. 61752 | 3. 61763 | 3. 61773 | 3. 61784 | 3. 61794 |
| 415 | | 1 | 61805 | 61815 | 61026 | 61836 | 61847 | 61857 | 61868 | 61878 | 61088 | 61899 |
| 416 | | 2 | 61209 | 61920 | 61930 | 61941 | 61951 | 61962 | 61972 | 61982 | 61293 | 62003 |
| 417 | | 3 | 62014 | 62924 | 62034 | 62045 | 62855 | 62066 | 62076 | 62086 | 62997 | 62197 |
| 418 | | 4 | 62119 | 62128 | 62130 | 62149 | 62159 | 62170 | 62190 | 62190 | 62291 | 62211 |
| 419 | | 5 | 62221 | 62232 | 62242 | 62252 | 62263 | 62273 | 62284 | 62294 | 62304 | 62315 |

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**Tabla XV.** **Logaritmos de números naturales.**

2 Grado, ó 0 Hora.

| Núm. | ' m | '' s | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 420 | 10. | 6 | 3. 62325 | 3. 62335 | 3. 62346 | 3. 62356 | 3. 62366 | 3. 62377 | 3. 62367 | 3. 62397 | 3. 62408 | 3. 62418 |
| 421 | | 1 | 62428 | 62439 | 62449 | 62159 | 62469 | 62480 | 62490 | 62500 | 62511 | 62521 |
| 422 | | 2 | 62531 | 62542 | 62552 | 62562 | 62572 | 62583 | 62593 | 62603 | 62613 | 62624 |
| 423 | | 3 | 62634 | 62644 | 62655 | 62665 | 62675 | 62685 | 62696 | 62706 | 62716 | 62726 |
| 424 | | 4 | 62737 | 62747 | 62757 | 62767 | 62778 | 62788 | 62798 | 62808 | 62818 | 62829 |
| 425 | | 6 | 62839 | 62849 | 62859 | 62870 | 62880 | 62890 | 62900 | 62910 | 62921 | 62931 |
| 426 | 11. | 6 | 3. 62941 | 3. 62961 | 3. 62961 | 3. 62972 | 3. 62982 | 3. 62992 | 3. 63002 | 3. 63012 | 3. 63022 | 3. 63033 |
| 427 | | 1 | 63043 | 63053 | 63063 | 63073 | 63083 | 63094 | 63104 | 63114 | 63124 | 63134 |
| 428 | | 2 | 63144 | 63155 | 63165 | 63175 | 63185 | 63195 | 63205 | 63215 | 63225 | 63236 |
| 429 | | 3 | 63246 | 63256 | 63266 | 63276 | 63286 | 63296 | 63306 | 63317 | 63327 | 63337 |
| 430 | | 4 | 63347 | 63357 | 63367 | 63377 | 63387 | 63397 | 63407 | 63417 | 63428 | 63438 |
| 431 | | 6 | 63448 | 63458 | 63468 | 63478 | 63488 | 63498 | 63508 | 63518 | 63528 | 63538 |
| 432 | 12. | 0 | 3. 63548 | 3. 63558 | 3. 63568 | 3. 63579 | 3. 63589 | 3. 63599 | 3. 63609 | 3. 63619 | 3. 63629 | 3. 63639 |
| 433 | | 1 | 63649 | 63659 | 63669 | 63679 | 63609 | 63699 | 63709 | 63719 | 63729 | 63739 |
| 434 | | 2 | 63749 | 63759 | 63769 | 63779 | 63789 | 63799 | 63809 | 63819 | 63829 | 63839 |
| 435 | | 3 | 63849 | 63859 | 63869 | 63879 | 63889 | 63899 | 63909 | 63919 | 63929 | 63939 |
| 436 | | 4 | 63949 | 63959 | 63969 | 63979 | 63988 | 63998 | 64008 | 64018 | 64028 | 61038 |
| 437 | | 5 | 64048 | 64058 | 64068 | 64078 | 64088 | 64098 | 64108 | 64118 | 61128 | 64137 |
| 438 | 13. | 0 | 3. 64147 | 3. 64157 | 3. 64167 | 3. 64177 | 3. 64187 | 3. 64197 | 3. 64207 | 3. 64217 | 3. 64227 | 3. 64237 |
| 439 | | 1 | 64246 | 64256 | 64266 | 64276 | 64286 | 64296 | 64306 | 64316 | 64326 | 64335 |
| 440 | | 2 | 64345 | 64355 | 64365 | 64375 | 64385 | 64395 | 61404 | 64414 | 64424 | 64434 |
| 441 | | 3 | 64444 | 64454 | 64464 | 64173 | 61483 | 64493 | 64503 | 64513 | 64523 | 64532 |
| 442 | | 4 | 64542 | 64552 | 64562 | 64572 | 64582 | 64591 | 64601 | 64611 | 64621 | 64631 |
| 443 | | 5 | 64640 | 64650 | 64660 | 64670 | 64680 | 64689 | 64699 | 64709 | 64719 | 64729 |
| 444 | 14. | 0 | 3. 64738 | 3. 64748 | 3. 64758 | 3. 64768 | 3. 64777 | 3. 64787 | 3. 64797 | 3. 64807 | 3. 64816 | 3. 64826 |
| 445 | | 1 | 64836 | 64846 | 64856 | 64865 | 64875 | 64885 | 61895 | 64904 | 64914 | 64924 |
| 446 | | 2 | 64933 | 64943 | 64953 | 61963 | 64972 | 61982 | 64992 | 65002 | 65011 | 65021 |
| 447 | | 3 | 65031 | 65040 | 65050 | 65060 | 65070 | 65079 | 65089 | 65099 | 65108 | 65118 |
| 448 | | 4 | 65128 | 65137 | 65147 | 65157 | 65167 | 65176 | 65186 | 65196 | 65205 | 65215 |
| 449 | | 5 | 65225 | 65234 | 65244 | 65251 | 65263 | 65273 | 65283 | 65292 | 65302 | 65312 |
| 450 | 15. | 6 | 3. 65321 | 3. 65331 | 3. 65341 | 3 65350 | 3. 65360 | 3. 65369 | 3. 65379 | 3. 65389 | 3. 65398 | 3. 65408 |
| 451 | | 1 | 65418 | 65427 | 65137 | 65447 | 65456 | 65466 | 65475 | 65485 | 65195 | 65504 |
| 452 | | 2 | 65514 | 65523 | 65533 | 65543 | 65552 | 65562 | 65571 | 65581 | 65591 | 65600 |
| 453 | | 3 | 65610 | 65619 | 65629 | 65639 | 65648 | 65658 | 65667 | 65677 | 65686 | 65696 |
| 454 | | 4 | 65706 | 65715 | 65725 | 65734 | 65744 | 65753 | 65763 | 65772 | 65782 | 65792 |
| 455 | | 5 | 65801 | 65811 | 65820 | 65830 | 65839 | 65849 | 65858 | 65868 | 65877 | 65887 |
| 456 | 16. | 6 | 3. 65896 | 3. 65906 | 3. 65916 | 3. 65925 | 3. 65935 | 3. 65944 | 3. 65954 | 3. 65963 | 3. 65973 | 3. 65982 |
| 457 | | 1 | 65992 | 66001 | 66011 | 66020 | 66030 | 66039 | 66049 | 66058 | 66068 | 66077 |
| 458 | | 2 | 66087 | 66096 | 66106 | 66115 | 66124 | 66134 | 66143 | 66153 | 66162 | 66172 |
| 459 | | 3 | 66181 | 66191 | 66200 | 66210 | 66219 | 66229 | 66238 | 66247 | 66257 | 66266 |
| 460 | | 4 | 66276 | 66285 | 66295 | 66304 | 66314 | 66323 | 66332 | 66342 | 66351 | 66361 |
| 461 | | 5 | 66370 | 66380 | 66389 | 66398 | 66408 | 66417 | 66427 | 66430 | 66445 | 66455 |
| 462 | 17. | 0 | 3. 66464 | 3. 66474 | 3. 66483 | 3. 66492 | 3 66502 | 3. 66511 | 3. 66521 | 3. 66530 | 3. 66539 | 3. 66549 |
| 463 | | 1 | 66558 | 66567 | 66577 | 66586 | 66596 | 66605 | 66614 | 66624 | 66633 | 66612 |
| 464 | | 2 | 66652 | 66661 | 66671 | 66680 | 66689 | 66699 | 66708 | 66717 | 66727 | 66736 |
| 465 | | 3 | 66745 | 66755 | 66764 | 66773 | 66783 | 66792 | 66801 | 66611 | 66820 | 66629 |
| 466 | | 4 | 66839 | 66848 | 66857 | 66867 | 66876 | 66805 | 66894 | 66904 | 66913 | 66922 |
| 467 | | 5 | 66932 | 66941 | 66950 | 66960 | 66969 | 66976 | 66967 | 66997 | 67006 | 67015 |
| 468 | 18. | 6 | 3. 67025 | 3. 67034 | 3. 67043 | 3. 67052 | 3. 67062 | 3. 67071 | 3. 67060 | 3. 67089 | 3. 67099 | 3. 67108 |
| 469 | | 1 | 67117 | 67127 | 67136 | 67145 | 67154 | 67164 | 67173 | 67102 | 67191 | 67201 |
| 470 | | 2 | 67210 | 67219 | 67228 | 67237 | 67247 | 67256 | 67265 | 67274 | 67284 | 67293 |
| 471 | | 3 | 67302 | 67311 | 67321 | 67330 | 07339 | 67348 | 67357 | 67367 | 67376 | 67385 |
| 472 | | 4 | 67394 | 67403 | 67413 | 67422 | 67431 | 67440 | 67449 | 67459 | 67460 | 67477 |
| 473 | | 5 | 67486 | 67495 | 67504 | 67514 | 67523 | 67532 | 67541 | 67550 | 67560 | 67569 |
| 474 | 19. | 0 | 3. 67578 | 3. 67587 | 3. 07596 | 3. 67605 | 3. 67614 | 3. 67621 | 3. 67633 | 3. 67642 | 3. 67651 | 3. 67660 |
| 475 | | 1 | 67669 | 67678 | 67688 | 67697 | 67706 | 67715 | 67724 | 67733 | 67742 | 67752 |
| 476 | | 2 | 67761 | 67770 | 67779 | 67768 | 67797 | 67806 | 67815 | 67825 | 67834 | 67843 |
| 477 | | 3 | 67852 | 67861 | 67870 | 67879 | 67888 | 67897 | 67906 | 67916 | 67925 | 67934 |
| 478 | | 4 | 67943 | 67952 | 67961 | 67970 | 67979 | 67988 | 67997 | 68006 | 68015 | 68024 |
| 479 | | 5 | 68034 | 66043 | 68052 | 68061 | 68070 | 68079 | 68088 | 68097 | 68106 | 68115 |

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**Tabla XV.** **Logaritmos de números naturales.**

| Núm. | ′ m | ″ s | 6 Grado, ó 6 Hora. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 480 | 26. | 6 | 3. 66124 | 6. 68133 | 3. 68142 | 3. 68161 | 3. 68166 | 3. 68162 | 3. 68178 | 3. 68187 | 3. 60196 | 3. 68205 |
| 401 | | 1 | 60213 | 68224 | 68233 | 68242 | 68251 | 68260 | 68269 | 68278 | 68287 | 68296 |
| 482 | | 2 | 68305 | 68314 | 68323 | 68332 | 68341 | 68330 | 68359 | 68368 | 68377 | 68386 |
| 483 | | 3 | 68395 | 68404 | 68413 | 68422 | 68431 | 68440 | 68449 | 68458 | 68467 | 68476 |
| 484 | | 4 | 68485 | 68494 | 68502 | 68511 | 68520 | 68529 | 68538 | 68547 | 68556 | 68565 |
| 485 | | 5 | 68574 | 68583 | 68522 | 68601 | 68610 | 68619 | 68628 | 68637 | 68646 | 68655 |
| 486 | 21. | 0 | 3. 68664 | 3. 68673 | 3. 68681 | 3. 68620 | 3. 68692 | 3. 68708 | 3. 68717 | 3. 68726 | 3. 68735 | 3. 68744 |
| 487 | | 1 | 68753 | 68762 | 68771 | 68780 | 68789 | 68797 | 60886 | 68815 | 68824 | 68833 |
| 488 | | 2 | 68842 | 68851 | 68860 | 68869 | 68878 | 68886 | 68895 | 68904 | 68913 | 68922 |
| 482 | | 3 | 68931 | 68940 | 68949 | 68958 | 68966 | 68975 | 68984 | 68993 | 69882 | 69811 |
| 498 | | 4 | 69028 | 69028 | 69837 | 69846 | 69855 | 69064 | 69073 | 69882 | 69090 | 69099 |
| 491 | | 5 | 69108 | 69117 | 69126 | 69135 | 69144 | 69152 | 69161 | 69170 | 69179 | 69188 |
| 492 | 22. | 0 | 3. 69197 | 3. 69205 | 3. 69214 | 3. 69223 | 3. 69232 | 3. 69241 | 3. 69249 | 3. 69258 | 3. 69967 | 3. 69976 |
| 493 | | 1 | 69205 | 69223 | 69302 | 69311 | 69320 | 69329 | 69338 | 69346 | 69355 | 69364 |
| 494 | | 2 | 69373 | 69381 | 69390 | 69399 | 69408 | 69417 | 69425 | 69434 | 69443 | 69452 |
| 495 | | 3 | 69461 | 69462 | 69478 | 69487 | 69496 | 69504 | 69513 | 69522 | 69531 | 69539 |
| 496 | | 4 | 69548 | 69557 | 69566 | 69574 | 69583 | 69592 | 69601 | 69609 | 69618 | 69627 |
| 497 | | 5 | 69636 | 69644 | 69653 | 69669 | 69671 | 69679 | 69688 | 69697 | 69705 | 69714 |
| 428 | 23. | 0 | 3. 69723 | 3. 69732 | 3. 69740 | 3. 69749 | 3. 69758 | 3. 69767 | 3. 69775 | 3. 69784 | 3. 69793 | 3. 69801 |
| 499 | | 1 | 69810 | 69819 | 69827 | 69836 | 69845 | 69854 | 69862 | 69871 | 69880 | 69888 |
| 500 | | 2 | 69827 | 69986 | 69914 | 69923 | 69232 | 69948 | 69949 | 69958 | 69966 | 69975 |
| 001 | | 3 | 69984 | 69992 | 78001 | 70018 | 70018 | 70027 | 70036 | 78044 | 70053 | 70062 |
| 502 | | 4 | 70070 | 70879 | 70088 | 70096 | 70105 | 70114 | 70192 | 70131 | 70140 | 70148 |
| 503 | | 5 | 70157 | 70165 | 78174 | 70183 | 70191 | 70288 | 70209 | 70217 | 70226 | 70234 |
| 504 | 24. | 0 | 3. 70243 | 3. 70252 | 3. 70260 | 3. 70269 | 3. 70278 | 3. 70286 | 3. 70295 | 3. 70303 | 3. 78312 | 3. 70321 |
| 505 | | 1 | 70329 | 70338 | 70346 | 70355 | 70364 | 70372 | 70381 | 70389 | 78398 | 78486 |
| 506 | | 2 | 70415 | 70424 | 70432 | 70441 | 70449 | 70458 | 70467 | 70475 | 70484 | 78492 |
| 507 | | 3 | 70501 | 70509 | 70518 | 70526 | 70535 | 70544 | 70552 | 70561 | 70569 | 70578 |
| 508 | | 4 | 70586 | 70525 | 70603 | 70612 | 70621 | 78629 | 70638 | 70646 | 70655 | 78663 |
| 509 | | 5 | 70672 | 70680 | 70689 | 70697 | 78706 | 78714 | 70723 | 78731 | 70740 | 70748 |
| 510 | 25. | 0 | 3. 70757 | 3. 70766 | 3. 70774 | 3. 70783 | 3. 70791 | 3. 70800 | 3. 70888 | 3. 70817 | 3. 70825 | 3. 70834 |
| 611 | | 1 | 70842 | 70851 | 70859 | 70868 | 70876 | 70885 | 70893 | 70902 | 70910 | 70919 |
| 612 | | 2 | 70227 | 70235 | 70944 | 70952 | 70961 | 70969 | 70278 | 70986 | 70995 | 71003 |
| 613 | | 3 | 71812 | 71020 | 71029 | 71037 | 71046 | 71854 | 71062 | 71071 | 71879 | 71088 |
| 514 | | 4 | 71096 | 71105 | 71113 | 71122 | 71130 | 71139 | 71147 | 71155 | 71164 | 71172 |
| 515 | | 6 | 71101 | 71189 | 71128 | 71206 | 71214 | 71225 | 71231 | 71240 | 71248 | 71257 |
| 616 | 26. | 0 | 3. 71265 | 3. 71273 | 3. 71289 | 5. 71290 | 3. 71299 | 3. 71307 | 3. 71315 | 3. 71324 | 3. 71332 | 3. 71341 |
| 517 | | 1 | 71349 | 71357 | 71366 | 71374 | 71383 | 71391 | 71399 | 71400 | 71416 | 71425 |
| 518 | | 2 | 71433 | 71441 | 71450 | 71450 | 71466 | 71475 | 71403 | 71492 | 71500 | 71508 |
| 519 | | 3 | 71517 | 71525 | 71533 | 71542 | 71050 | 71559 | 71567 | 71575 | 71584 | 71592 |
| 520 | | 4 | 71600 | 71609 | 71617 | 71695 | 71634 | 71642 | 71600 | 71659 | 71667 | 71675 |
| 321 | | 0 | 71684 | 71692 | 71700 | 71709 | 71717 | 71725 | 71734 | 71742 | 71750 | 71759 |
| 522 | 27. | 6 | 3. 71767 | 3. 71775 | 3. 71784 | 3. 71792 | 3. 71800 | 3. 71809 | 3. 71817 | 3. 71825 | 3. 71834 | 3. 71842 |
| 523 | | 1 | 71850 | 71658 | 71667 | 71875 | 71803 | 71892 | 71900 | 71900 | 71917 | 71925 |
| 524 | | 2 | 71233 | 71941 | 71250 | 71958 | 71966 | 71975 | 71983 | 71991 | 71999 | 72808 |
| 525 | | 3 | 72016 | 72024 | 72032 | 72041 | 72049 | 72057 | 72066 | 72874 | 72882 | 72090 |
| 526 | | 4 | 72099 | 72107 | 72115 | 72123 | 72132 | 72140 | 72148 | 72156 | 72165 | 72173 |
| 627 | | 6 | 72181 | 72189 | 72198 | 72206 | 72214 | 72222 | 72230 | 72239 | 72247 | 72253 |
| 520 | 28. | 0 | 3. 72263 | 3. 72272 | 3. 72280 | 3. 72288 | 3. 72296 | 3. 72304 | 3. 72313 | 3. 72321 | 3. 72329 | 3. 72337 |
| 629 | | 1 | 72346 | 72354 | 72362 | 72370 | 72378 | 72387 | 72395 | 72403 | 72411 | 72419 |
| 530 | | 2 | 72428 | 72436 | 72444 | 72452 | 72460 | 72469 | 72477 | 72485 | 72493 | 72501 |
| 631 | | 3 | 72502 | 72510 | 72596 | 72534 | 72542 | 72550 | 72558 | 72567 | 72575 | 72583 |
| 532 | | 4 | 72591 | 72592 | 72687 | 72616 | 72624 | 72632 | 72640 | 72640 | 72656 | 72663 |
| 633 | | 6 | 72673 | 72681 | 72682 | 72697 | 72785 | 72713 | 72722 | 72730 | 72738 | 72746 |
| 534 | 22. | 0 | 3. 72754 | 3. 72762 | 3. 72770 | 3. 72779 | 3. 72787 | 3. 72795 | 3. 72803 | 3. 72011 | 3. 72819 | 3. 72827 |
| 535 | | 1 | 72835 | 72843 | 72852 | 72060 | 72868 | 72876 | 72804 | 72892 | 72200 | 72908 |
| 536 | | 2 | 72216 | 72925 | 72933 | 72241 | 72249 | 72257 | 72265 | 72273 | 72981 | 72989 |
| 537 | | 3 | 72997 | 73006 | 73014 | 73022 | 73030 | 73038 | 73046 | 73054 | 73062 | 73876 |
| 538 | | 4 | 73078 | 73086 | 73094 | 73182 | 73111 | 73112 | 73127 | 73135 | 73143 | 73151 |
| 539 | | 6 | 73152 | 73167 | 73175 | 73183 | 73191 | 73199 | 73207 | 73215 | 73223 | 73231 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ° m | " s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 Grado, ó 1 Hora. | | | | | | | | | |
| 540 | 30. | 6 | 3. 73232 | 3. 73247 | 3. 73256 | 3. 73283 | 3. 73272 | 3. 73286 | 3. 73288 | 3 73226 | 3. 73364 | 3. 73312 |
| 541 | | 1 | 73320 | 73328 | 73336 | 73344 | 73352 | 73360 | 73368 | 73376 | 73384 | 73392 |
| 542 | | 2 | 73400 | 73408 | 73416 | 73424 | 73432 | 73440 | 73448 | 73456 | 73464 | 73472 |
| 543 | | 3 | 73480 | 73488 | 73426 | 73504 | 73512 | 73520 | 73528 | 73536 | 73544 | 73552 |
| 544 | | 4 | 73560 | 73568 | 73576 | 73584 | 73592 | 73600 | 73608 | 73616 | 73624 | 73632 |
| 545 | | 5 | 73646 | 73640 | 73656 | 73664 | 73672 | 73672 | 73667 | 73695 | 73703 | 73711 |
| 546 | 31. | 0 | 3. 73712 | 3. 73727 | 3. 73735 | 3. 73743 | 3. 73751 | 3. 73762 | 3. 73767 | 3. 73775 | 3. 73783 | 3. 73791 |
| 547 | | 1 | 73799 | 73807 | 73815 | 73823 | 73830 | 73836 | 73846 | 73854 | 73862 | 73670 |
| 648 | | 2 | 73878 | 73886 | 73624 | 73902 | 73910 | 73918 | 73926 | 73933 | 73941 | 73949 |
| 549 | | 3 | 73957 | 73965 | 73973 | 73981 | 73989 | 73297 | 74005 | 74013 | 74620 | 74028 |
| 550 | | 4 | 74036 | 74044 | 74052 | 74060 | 74068 | 74076 | 74684 | 74092 | 74099 | 74187 |
| 551 | | 6 | 74115 | 74123 | 74131 | 74139 | 74147 | 74155 | 74162 | 74170 | 74178 | 74186 |
| 552 | 32. | 0 | 3. 74194 | 3. 74202 | 3. 74210 | 3. 74218 | 3. 74226 | 3. 74233 | 3. 74241 | 3. 74249 | 3. 74257 | 3. 74265 |
| 553 | | 1 | 74273 | 74280 | 74288 | 74296 | 71304 | 74312 | 74320 | 74327 | 74335 | 74343 |
| 554 | | 2 | 74351 | 74352 | 74367 | 74374 | 74382 | 74320 | 74398 | 74466 | 74414 | 74421 |
| 555 | | 3 | 74429 | 74437 | 74445 | 74453 | 74461 | 74468 | 74476 | 74484 | 74492 | 74560 |
| 556 | | 4 | 74507 | 74515 | 74523 | 74531 | 74539 | 74547 | 74554 | 74662 | 74570 | 74578 |
| 667 | | 5 | 74586 | 74593 | 74601 | 74609 | 74617 | 74624 | 74632 | 74640 | 74648 | 74656 |
| 558 | 33. | 0 | 3. 74663 | 3. 74671 | 3. 74679 | 3. 74687 | 3. 74695 | 3. 74702 | 3. 74710 | 3. 74716 | 3. 74726 | 3. 74733 |
| 559 | | 1 | 74741 | 74742 | 74767 | 74764 | 74772 | 74760 | 74788 | 74796 | 74803 | 74811 |
| 660 | | 2 | 74819 | 74827 | 74834 | 74842 | 74860 | 74868 | 74865 | 74673 | 74881 | 74889 |
| 561 | | 3 | 74896 | 74204 | 74912 | 74920 | 74227 | 74935 | 74243 | 74950 | 74956 | 74966 |
| 562 | | 4 | 74974 | 74981 | 74982 | 74997 | 75006 | 75012 | 75020 | 75028 | 75635 | 76043 |
| 563 | | 5 | 75051 | 75052 | 75066 | 75874 | 75082 | 75089 | 75027 | 76105 | 75113 | 75120 |
| 564 | 34. | 0 | 3. 75128 | 3. 75136 | 3. 75143 | 3. 75151 | 3. 75152 | 3. 75166 | 3. 75174 | 3. 75182 | 3. 75182 | 3. 75197 |
| 665 | | 1 | 75205 | 75213 | 75220 | 75228 | 75236 | 75243 | 75251 | 75259 | 75266 | 75274 |
| 666 | | 2 | 75282 | 75289 | 75227 | 76306 | 75312 | 76320 | 75328 | 75335 | 75343 | 75351 |
| 567 | | 3 | 75358 | 75366 | 75374 | 75381 | 75389 | 75327 | 75404 | 75412 | 75420 | 75427 |
| 568 | | 4 | 75435 | 75142 | 75450 | 75458 | 75165 | 75473 | 75481 | 75488 | 75496 | 75504 |
| 569 | | 5 | 75511 | 75519 | 75526 | 75534 | 75542 | 76542 | 75557 | 75565 | 75572 | 75580 |
| 570 | 36. | 0 | 3. 75587 | 3. 75595 | 3. 75603 | 3. 75610 | 3. 75618 | 3. 75626 | 3. 75633 | 3. 75641 | 3. 75648 | 3. 75656 |
| 571 | | 1 | 75664 | 75671 | 75679 | 75686 | 75694 | 75702 | 75709 | 75717 | 75724 | 75732 |
| 572 | | 2 | 75740 | 75747 | 75755 | 75762 | 75770 | 75778 | 75785 | 75793 | 76800 | 75808 |
| 573 | | 3 | 75815 | 75823 | 75831 | 75838 | 75816 | 75853 | 75861 | 75868 | 75676 | 75884 |
| 574 | | 4 | 75891 | 75899 | 75206 | 75214 | 75221 | 75922 | 75237 | 75944 | 75952 | 75959 |
| 575 | | 5 | 76967 | 75974 | 75982 | 75989 | 76997 | 76605 | 76012 | 76020 | 76027 | 76835 |
| 576 | 36. | 0 | 3. 76042 | 3. 76050 | 3. 76057 | 3. 76065 | 3. 76072 | 3. 76080 | 3. 78087 | 3. 76025 | 3. 76103 | 3. 76110 |
| 677 | | 1 | 76118 | 76125 | 76133 | 76146 | 76148 | 76155 | 76163 | 76170 | 76178 | 76185 |
| 678 | | 2 | 76193 | 76200 | 76208 | 76215 | 76223 | 76230 | 76238 | 76245 | 76253 | 76260 |
| 679 | | 3 | 76268 | 76275 | 76283 | 76290 | 76298 | 76305 | 76313 | 76320 | 76326 | 76335 |
| 580 | | 4 | 76343 | 76350 | 76358 | 76365 | 76373 | 76380 | 76388 | 76396 | 76403 | 76410 |
| 581 | | 5 | 76418 | 76426 | 76133 | 76446 | 76448 | 76465 | 76462 | 76470 | 76477 | 76465 |
| 582 | 37. | 6 | 3. 76422 | 3. 76500 | 3. 76507 | 3. 76515 | 3. 76522 | 3. 76530 | 3. 76537 | 3. 76545 | 3. 76552 | 3. 76559 |
| 583 | | 1 | 76567 | 76674 | 76582 | 76689 | 76597 | 76604 | 76612 | 76619 | 76626 | 76634 |
| 584 | | 2 | 76641 | 76642 | 76656 | 76664 | 76671 | 76678 | 76666 | 76693 | · 76761 | 76768 |
| 585 | | 3 | 76716 | 76723 | 76730 | 76738 | 76745 | 76753 | 76766 | 76768 | 76776 | 76782 |
| 686 | | 4 | 76790 | 76797 | 76805 | 76812 | 76819 | 76627 | 76634 | 76842 | 76642 | 76856 |
| 587 | | 5 | 76664 | 76671 | 76872 | 76886 | 76623 | 76901 | 76208 | 76916 | 76923 | 76230 |
| 588 | 38. | 6 | 3. 76938 | 3. 76915 | 3. 76253 | 3. 76960 | 3. 76967 | 3. 76975 | 3. 76982 | 3. 76969 | 3. 76997 | 3. 77004 |
| 689 | | 1 | 77012 | 77012 | 77026 | 77634 | 77041 | 77046 | 77056 | 77663 | 77876 | 77878 |
| 696 | | 2 | 77085 | 77693 | 77100 | 77167 | 77116 | 77122 | 77129 | 77137 | 77144 | 77161 |
| 691 | | 3 | 77152 | 77166 | 77173 | 77181 | 77188 | 77125 | 77203 | 77210 | 77217 | 77225 |
| 692 | | 4 | 77232 | 77240 | 77247 | 77254 | 77262 | 77262 | 77276 | 77283 | 77291 | 77298 |
| 693 | | 5 | 77305 | 77313 | 77320 | 77327 | 77335 | 77342 | 77349 | 77357 | 77364 | 77371 |
| 694 | 39. | 0 | 3. 77379 | 3. 77386 | 3. 77323 | 3. 77401 | 3. 77408 | 3. 77415 | 3. 77422 | 3. 77436 | 3. 77437 | 3. 77444 |
| 695 | | 1 | 77452 | 77459 | 77466 | 77474 | 77481 | 77488 | 77495 | 77603 | 77516 | 77517 |
| 696 | | 2 | 77526 | 77532 | 77539 | 77546 | 77554 | 77661 | 77668 | 77676 | 77683 | 77596 |
| 627 | | 3 | 77597 | 77605 | 77612 | 77619 | 77627 | 77634 | 77641 | 77648 | 77656 | 77663 |
| 528 | | 4 | 77670 | 77677 | 77685 | 77622 | 77699 | 77706 | 77714 | 77721 | 77728 | 77735 |
| 599 | | 5 | 77743 | 77750 | 77757 | 77764 | 77772 | 77772 | 77786 | 77793 | 77801 | 77808 |

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**Tabla XV.** **Logaritmos de números naturales.**

| Núm. | ′ m | ″ s | 8 | 1 | 2 | 3 | 4 | 5 | 8 | 7 | 6 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 Grado, ó 1 Hora. | | | | | | | | | |
| 600 | 46. | 0 | 3. 77815 | 3. 77822 | 3. 77830 | 3. 77837 | 3. 77844 | 3. 77851 | 3. 77859 | 3. 77866 | 3. 77873 | 3. 77880 |
| 601 | | 1 | 77887 | 77895 | 77992 | 77909 | 77918 | 77924 | 77931 | 77938 | 77945 | 77952 |
| 602 | | 2 | 77969 | 77967 | 77974 | 77981 | 77988 | 77996 | 78003 | 78010 | 78017 | 78025 |
| 603 | | 3 | 78932 | 78039 | 78046 | 78053 | 78969 | 78968 | 78075 | 78082 | 78089 | 78097 |
| 604 | | 4 | 78104 | 78111 | 78118 | 78125 | 78132 | 78149 | 78147 | 78154 | 78161 | 78168 |
| 605 | | 8 | 78178 | 78183 | 78190 | 78197 | 78204 | 78211 | 78219 | 78226 | 78233 | 78240 |
| 606 | 41. | 0 | 8. 78247 | 3. 78254 | 3. 78262 | 3. 78262 | 3. 78276 | 3. 78283 | 3. 78290 | 3. 78297 | 3. 78305 | 3. 78312 |
| 687 | | 1 | 78312 | 78326 | 78333 | 78340 | 78347 | 78355 | 78362 | 78389 | 78376 | 78383 |
| 608 | | 2 | 78399 | 78398 | 78405 | 78412 | 78419 | 78426 | 78433 | 78440 | 78447 | 78455 |
| 809 | | 3 | 78162 | 78469 | 78476 | 78183 | 78499 | 78497 | 78504 | 78512 | 78519 | 78526 |
| 810 | | 4 | 78533 | 78540 | 78547 | 78554 | 78561 | 78569 | 78576 | 78583 | 78590 | 78597 |
| 811 | | 8 | 76604 | 78611 | 78618 | 78625 | 78633 | 78640 | 78647 | 78654 | 78661 | 78668 |
| 812 | 42. | 8 | 3. 78675 | 3. 78682 | 3. 78689 | 3. 78696 | 3. 78704 | 3. 78711 | 3. 78718 | 3. 78725 | 3. 78732 | 3. 78739 |
| 813 | | 1 | 76746 | 78783 | 78760 | 78767 | 78774 | 78781 | 78789 | 78796 | 78893 | 78810 |
| 814 | | 2 | 78817 | 78624 | 78831 | 78838 | 78845 | 78852 | 78859 | 78866 | 78873 | 78880 |
| 615 | | 3 | 78888 | 78895 | 78902 | 76902 | 78916 | 78923 | 78930 | 78937 | 78944 | 78951 |
| 816 | | 4 | 78958 | 78965 | 78972 | 78979 | 78986 | 78993 | 79090 | 79007 | 79014 | 79921 |
| 617 | | 8 | 79029 | 79036 | 79943 | 79950 | 79057 | 79964 | 79071 | 79078 | 79685 | 79692 |
| 818 | 43. | 8 | 3. 79099 | 3. 79106 | 3. 79113 | 3. 79129 | 3. 79127 | 3. 79134 | 3. 79141 | 3. 79148 | 3. 79155 | 3. 79162 |
| 619 | | 1 | 79169 | 79176 | 79183 | 79190 | 79197 | 79204 | 79211 | 79218 | 79225 | 79232 |
| 820 | | 2 | 79239 | 79246 | 79253 | 79260 | 79267 | 79274 | 79281 | 79288 | 79295 | 79302 |
| 821 | | 8 | 79309 | 79316 | 79323 | 79339 | 79337 | 79344 | 79351 | 79358 | 79365 | 79372 |
| 822 | | 4 | 79379 | 79386 | 79323 | 79409 | 79407 | 79414 | 79421 | 79428 | 79435 | 79442 |
| 823 | | 8 | 79449 | 79456 | 79483 | 79479 | 79477 | 79484 | 79491 | 79498 | 79505 | 79511 |
| 824 | 44. | 8 | 3. 79518 | 3. 79525 | 3. 79532 | 3. 79539 | 3. 79546 | 3. 79553 | 3. 79560 | 3. 79567 | 3. 79574 | 3. 79581 |
| 825 | | 1 | 79588 | 79525 | 79602 | 79609 | 79616 | 79623 | 79630 | 79637 | 79644 | 79659 |
| 626 | | 2 | 79657 | 79664 | 79671 | 79678 | 79685 | 79692 | 79699 | 79706 | 79713 | 79720 |
| 827 | | 8 | 79727 | 79734 | 79741 | 79748 | 79754 | 79761 | 79768 | 79775 | 79782 | 79789 |
| 628 | | 4 | 79726 | 79803 | 79810 | 79817 | 79824 | 79831 | 79837 | 79844 | 79851 | 79858 |
| 829 | | 8 | 79865 | 79872 | 79879 | 79886 | 79893 | 79900 | 79966 | 79913 | 79920 | 79927 |
| 839 | 45. | 8 | 3. 79934 | 3. 79241 | 3. 79948 | 3. 79955 | 3. 79962 | 3. 79969 | 3. 79975 | 3. 79982 | 3. 79989 | 3. 79996 |
| 831 | | 1 | 80003 | 80910 | 80017 | 80024 | 80030 | 89037 | 80044 | 80951 | 89058 | 89065 |
| 832 | | 2 | 80072 | 80979 | 80085 | 80092 | 80029 | 80166 | 86113 | 86120 | 89127 | 80134 |
| 833 | | 3 | 80140 | 80147 | 80154 | 80161 | 80168 | 80175 | 80182 | 80188 | 89195 | 80202 |
| 634 | | 4 | 80209 | 80216 | 80223 | 80229 | 80236 | 89243 | 80259 | 80257 | 89264 | 80271 |
| 635 | | 8 | 80277 | 80284 | 86221 | 80298 | 80305 | 80312 | 80318 | 60325 | 86332 | 80339 |
| 636 | 46. | 0 | 3. 80346 | 3. 80353 | 3. 80359 | 3. 80366 | 3. 80373 | 3. 80380 | 3. 89387 | 3. 80393 | 3. 80400 | 3. 80407 |
| 837 | | 1 | 80414 | 80421 | 80128 | 80434 | 80441 | 89448 | 80455 | 80462 | 80468 | 80475 |
| 838 | | 2 | 89462 | 80489 | 80426 | 80502 | 80509 | 80516 | 80523 | 89530 | 80536 | 80543 |
| 832 | | 8 | 80550 | 80557 | 80564 | 80570 | 80577 | 60584 | 86591 | 80596 | 80604 | 86611 |
| 640 | | 4 | 89618 | 80625 | 80632 | 80638 | 80645 | 80852 | 86659 | 80665 | 80672 | 80679 |
| 641 | | 5 | 80686 | 80623 | 80899 | 80706 | 80713 | 80720 | 86726 | 86733 | 80740 | 80747 |
| 642 | 47. | 0 | 3. 80734 | 3. 80760 | 3. 80767 | 3. 80774 | 3. 80781 | 3. 80787 | 3. 89794 | 3. 80801 | 3. 80808 | 3. 80814 |
| 643 | | 1 | 80821 | 89828 | 80835 | 80841 | 86848 | 86855 | 89862 | 80868 | 80875 | 80882 |
| 644 | | 2 | 89882 | 89895 | 80962 | 80909 | 80916 | 80922 | 80929 | 80936 | 86943 | 80949 |
| 648 | | 3 | 89956 | 89963 | 80969 | 80976 | 80963 | 89990 | 80996 | 81603 | 81010 | 81917 |
| 648 | | 4 | 81023 | 81030 | 81637 | 81043 | 81050 | 81057 | 81064 | 81070 | 81077 | 81684 |
| 647 | | 8 | 81090 | 81097 | 81104 | 81111 | 81117 | 81124 | 81131 | 81137 | 81144 | 81151 |
| 648 | 48. | 0 | 3. 81157 | 3. 81164 | 3. 81171 | 3. 81178 | 3. 81184 | 3. 81191 | 3. 81198 | 3. 81204 | 3. 81211 | 3. 81218 |
| 849 | | 1 | 81224 | 81231 | 81238 | 81245 | 81251 | 81258 | 81265 | 81271 | 81278 | 81285 |
| 850 | | 2 | 81291 | 81298 | 81305 | 81311 | 81318 | 81325 | 81331 | 81338 | 81345 | 81351 |
| 651 | | 8 | 81358 | 81365 | 81371 | 81378 | 81385 | 81391 | 81398 | 81465 | 81411 | 81418 |
| 852 | | 4 | 81425 | 81431 | 81438 | 81445 | 81451 | 81458 | 81465 | 81471 | 81478 | 81485 |
| 883 | | 5 | 81491 | 81498 | 81505 | 81511 | 81518 | 81525 | 81531 | 81538 | 81544 | 81551 |
| 854 | 49. | 8 | 3. 81558 | 3. 81564 | 3. 81571 | 3. 81578 | 3. 81584 | 3. 81591 | 3. 81598 | 3. 81604 | 3. 81611 | 3. 81617 |
| 855 | | 1 | 81624 | 81631 | 81637 | 81644 | 81651 | 81657 | 81664 | 81671 | 81677 | 81684 |
| 856 | | 2 | 81890 | 81697 | 81794 | 81710 | 81717 | 81723 | 81730 | 81737 | 81743 | 81750 |
| 657 | | 3 | 81756 | 81763 | 81770 | 81776 | 81783 | 81720 | 81796 | 81803 | 81809 | 81816 |
| 656 | | 4 | 81823 | 81829 | 81836 | 81842 | 81849 | 81656 | 81862 | 81869 | 81875 | 81682 |
| 859 | | 8 | 81889 | 81895 | 81902 | 81908 | 81913 | 81921 | 81628 | 81935 | 81941 | 81948 |

## Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 1 Grado, ó 1 Hora. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 660 | 50. | 0 | 3. 81954 | 3. 81961 | 3. 81968 | 3. 81974 | 3. 81981 | 3. 81987 | 3. 81994 | 3. 82000 | 3. 82007 | 3. 82014 |
| 661 | | 1 | 82020 | 82027 | 82033 | 82040 | 82046 | 82053 | 82060 | 82066 | 82073 | 82079 |
| 662 | | 2 | 82086 | 82092 | 82099 | 82105 | 82112 | 82119 | 82125 | 82132 | 82138 | 82145 |
| 663 | | 3 | 82151 | 82158 | 82164 | 82171 | 82178 | 82184 | 82191 | 82197 | 82204 | 82210 |
| 661 | | 4 | 82217 | 82223 | 82230 | 82236 | 82243 | 82249 | 82256 | 82263 | 82269 | 82276 |
| 665 | | 5 | 82282 | 82282 | 82295 | 82302 | 82308 | 82315 | 82321 | 82328 | 82334 | 82341 |
| 666 | 51. | 0 | 3. 82347 | 3. 82354 | 3. 82360 | 3. 82367 | 3. 82373 | 3. 82380 | 3. 82387 | 3. 82393 | 3. 82400 | 3. 82406 |
| 667 | | 1 | 82413 | 82419 | 82426 | 82432 | 82432 | 82445 | 82452 | 82458 | 82465 | 82471 |
| 668 | | 2 | 82478 | 82484 | 82421 | 82427 | 82504 | 82510 | 82517 | 82523 | 82530 | 82536 |
| 669 | | 3 | 82543 | 82549 | 82556 | 82562 | 82562 | 82575 | 82582 | 82588 | 82595 | 82601 |
| 670 | | 4 | 82607 | 82614 | 82620 | 82627 | 82633 | 82640 | 82646 | 82653 | 82659 | 82666 |
| 671 | | 5 | 82672 | 82679 | 82685 | 82692 | 82698 | 82705 | 82711 | 82718 | 82721 | 82730 |
| 672 | 52. | 0 | 3. 82737 | 3. 82743 | 3. 82750 | 3. 82756 | 3. 82763 | 3. 82769 | 3. 82776 | 3. 82782 | 3. 82782 | 3. 82795 |
| 673 | | 2 | 82802 | 82808 | 82814 | 82821 | 82827 | 82834 | 82840 | 82847 | 82853 | 82860 |
| 674 | | 2 | 82866 | 82872 | 82879 | 82885 | 82892 | 82898 | 82205 | 82911 | 82218 | 82924 |
| 675 | | 3 | 82930 | 82937 | 82943 | 82950 | 82956 | 82963 | 82969 | 82975 | 82982 | 82988 |
| 676 | | 4 | 82995 | 83001 | 83008 | 83014 | 83020 | 83027 | 83033 | 83040 | 83046 | 83052 |
| 677 | | 5 | 83059 | 83066 | 83072 | 83078 | 83085 | 83091 | 83097 | 83104 | 83110 | 83117 |
| 678 | 53. | 0 | 3. 83123 | 3. 83129 | 3. 83136 | 3. 83142 | 3. 83149 | 3. 83155 | 3. 83161 | 3. 83168 | 3. 83174 | 3. 83181 |
| 679 | | 1 | 83187 | 83193 | 83200 | 83206 | 83213 | 83219 | 83225 | 83232 | 83238 | 83245 |
| 680 | | 2 | 83251 | 83257 | 83264 | 83270 | 83276 | 83283 | 83282 | 83296 | 83302 | 83308 |
| 681 | | 3 | 83315 | 83321 | 83327 | 83334 | 83340 | 83347 | 83353 | 83359 | 83366 | 83372 |
| 682 | | 4 | 83378 | 83385 | 83391 | 83398 | 83104 | 83410 | 83417 | 83423 | 83429 | 83436 |
| 683 | | 5 | 83442 | 83448 | 83455 | 83461 | 83467 | 83474 | 83480 | 83487 | 83493 | 83499 |
| 684 | 54. | 0 | 3. 83506 | 3. 83512 | 3. 83518 | 3. 83525 | 3. 83531 | 3. 83537 | 3. 83544 | 3. 83550 | 3. 83556 | 3. 83563 |
| 685 | | 1 | 83569 | 83575 | 83582 | 83588 | 83524 | 83601 | 83607 | 83613 | 83620 | 83626 |
| 686 | | 2 | 83632 | 83639 | 83646 | 83651 | 83658 | 83664 | 83670 | 83677 | 83683 | 83689 |
| 687 | | 3 | 83696 | 83702 | 83708 | 83716 | 83721 | 83727 | 83734 | 83740 | 83746 | 83753 |
| 688 | | 4 | 83752 | 83765 | 83771 | 83778 | 83784 | 83790 | 83797 | 83803 | 83809 | 83816 |
| 689 | | 5 | 83822 | 83828 | 83835 | 83841 | 83847 | 83853 | 83860 | 83866 | 83872 | 83879 |
| 690 | 55. | 0 | 3. 83885 | 3. 83821 | 3. 83897 | 3. 83904 | 3. 83910 | 3. 83216 | 3. 83923 | 3. 83929 | 3. 83935 | 3. 83942 |
| 691 | | 1 | 83948 | 83954 | 83260 | 83967 | 83973 | 83979 | 83285 | 83992 | 83998 | 84004 |
| 692 | | 2 | 84011 | 84017 | 84023 | 84029 | 84036 | 84042 | 84048 | 84055 | 84061 | 84067 |
| 693 | | 3 | 84073 | 84080 | 84086 | 84022 | 84028 | 84105 | 84111 | 84117 | 84123 | 84130 |
| 694 | | 4 | 84136 | 84142 | 84148 | 84155 | 84161 | 84167 | 84173 | 84180 | 84186 | 84192 |
| 695 | | 5 | 81198 | 84205 | 84211 | 84217 | 84223 | 84230 | 84236 | 84242 | 84248 | 84255 |
| 696 | 56. | 0 | 3. 84261 | 3. 84267 | 3. 84273 | 3. 84280 | 3. 84286 | 3. 81292 | 3. 81298 | 3. 84305 | 3. 84311 | 3. 84317 |
| 627 | | 1 | 84323 | 84330 | 84336 | 84342 | 84348 | 84364 | 84361 | 84367 | 84373 | 84379 |
| 698 | | 2 | 84386 | 84392 | 84328 | 84404 | 84410 | 84417 | 84423 | 84429 | 84435 | 84442 |
| 699 | | 3 | 84448 | 84454 | 84460 | 84466 | 84473 | 84479 | 81485 | 84491 | 84497 | 84504 |
| 700 | | 4 | 84510 | 84516 | 84522 | 84528 | 84535 | 84541 | 84547 | 84553 | 84559 | 84666 |
| 701 | | 5 | 84572 | 84578 | 84584 | 84590 | 84597 | 84603 | 84609 | 84616 | 84621 | 84628 |
| 702 | 57. | 0 | 3. 84634 | 3. 84640 | 3. 84646 | 3. 84662 | 3. 84658 | 3. 84665 | 3. 84671 | 3. 84677 | 3. 84683 | 3. 84689 |
| 703 | | 1 | 84626 | 84702 | 84708 | 81714 | 84720 | 84726 | 84733 | 84732 | 84745 | 84751 |
| 704 | | 2 | 84757 | 84763 | 84770 | 84776 | 84782 | 84788 | 84724 | 84800 | 84807 | 84813 |
| 705 | | 3 | 84812 | 84825 | 84831 | 81837 | 84844 | 84850 | 84856 | 84862 | 84868 | 84874 |
| 706 | | 4 | 84880 | 84887 | 84893 | 81899 | 84205 | 84911 | 84917 | 84224 | 84930 | 84936 |
| 707 | | 5 | 84242 | 84948 | 84954 | 84960 | 84967 | 84973 | 84279 | 84285 | 84991 | 84997 |
| 708 | 58. | 0 | 3. 85003 | 3. 85009 | 0. 85016 | 3. 85022 | 3. 85028 | 3. 85034 | 3. 85040 | 3. 85046 | 3. 85052 | 3. 85058 |
| 709 | | 1 | 85065 | 85071 | 85077 | 85083 | 85089 | 85025 | 85101 | 85107 | 85114 | 85120 |
| 710 | | 2 | 85126 | 85132 | 85138 | 85144 | 85160 | 85156 | 85163 | 85169 | 85175 | 85181 |
| 711 | | 3 | 85187 | 85193 | 85199 | 85205 | 85211 | 85217 | 85224 | 85230 | 85236 | 85242 |
| 712 | | 4 | 85248 | 85254 | 85260 | 85266 | 86272 | 85278 | 85285 | 85221 | 85297 | 85303 |
| 713 | | 5 | 85309 | 85315 | 86321 | 85327 | 85333 | 85339 | 85346 | 85352 | 85358 | 85364 |
| 714 | 59. | 0 | 3. 85370 | 3. 85376 | 3. 85382 | 3. 85388 | 3. 85394 | 3. 85400 | 3. 85406 | 3. 85412 | 3. 85418 | 3. 85425 |
| 715 | | 1 | 85431 | 85437 | 85443 | 85449 | 85455 | 86461 | 85467 | 85473 | 85479 | 85485 |
| 716 | | 2 | 85421 | 85497 | 85503 | 85509 | 85516 | 85522 | 85528 | 85534 | 85540 | 85546 |
| 717 | | 3 | 85652 | 85558 | 85564 | 85570 | 85576 | 86582 | 86588 | 85594 | 85600 | 85606 |
| 718 | | 4 | 85612 | 85618 | 85625 | 85631 | 85637 | 85643 | 85649 | 85655 | 85661 | 85667 |
| 719 | | 6 | 85673 | 85679 | 85685 | 85691 | 85697 | 85703 | 85709 | 85715 | 85721 | 85727 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2 Grados, ó 2 Horas. | | | | | | | | | |
| 726 | 0. | 8 | 3. 85733 | 3. 85739 | 3. 85745 | 3. 85751 | 3. 85757 | 3. 85763 | 3. 85769 | 3. 85775 | 3. 85781 | 3. 85788 |
| 721 | | 1 | 85794 | 85800 | 85806 | 85812 | 85818 | 85824 | 85830 | 85836 | 85842 | 85848 |
| 722 | | 2 | 85854 | 85860 | 85866 | 85872 | 85878 | 85884 | 85890 | 35895 | 85902 | 85908 |
| 723 | | 3 | 85214 | 85920 | 85926 | 85232 | 85938 | 85244 | 85250 | 85256 | 85962 | 85268 |
| 724 | | 4 | 85274 | 85980 | 85286 | 85992 | 85228 | 86004 | 86010 | 86016 | 86022 | 86028 |
| 725 | | 5 | 86834 | 86640 | 86048 | 86052 | 86658 | 86064 | 86070 | 86076 | 86082 | 86088 |
| 726 | 1. | 0 | 3. 86094 | 3. 86100 | 3. 86106 | 3. 86112 | 3. 86118 | 3. 86124 | 3. 86130 | 3. 86136 | 3. 86141 | 3. 86147 |
| 727 | | 1 | 86153 | 86152 | 86165 | 86171 | 86177 | 86183 | 86182 | 86195 | 86201 | 86207 |
| 728 | | 2 | 86213 | 86212 | 86225 | 86231 | 86237 | 86243 | 86249 | 86255 | 86261 | 86267 |
| 722 | | 3 | 88273 | 86272 | 86285 | 86291 | 86227 | 86303 | 86308 | 86314 | 86320 | 86326 |
| 730 | | 4 | 86332 | 86338 | 86344 | 86350 | 86356 | 86362 | 86368 | 86374 | 86380 | 86386 |
| 731 | | 5 | 86392 | 86398 | 86404 | 86410 | 86415 | 86421 | 86427 | 86433 | 86432 | 86445 |
| 732 | 2. | 8 | 3. 86451 | 8. 86457 | 3. 86463 | 3. 86469 | 3. 86475 | 3. 86481 | 3. 86487 | 3. 86423 | 3. 86492 | 3. 86504 |
| 733 | | 1 | 86510 | 86516 | 86522 | 86528 | 86534 | 86540 | 86546 | 86552 | 86558 | 88564 |
| 734 | | 2 | 86576 | 86576 | 86581 | 86587 | 86593 | 86592 | 86605 | 86611 | 86617 | 86623 |
| 735 | | 3 | 86629 | 86635 | 86641 | 86646 | 86652 | 86658 | 88564 | 86670 | 86676 | 86682 |
| 736 | | 4 | 86688 | 86624 | 86700 | 86705 | 86711 | 86717 | 86723 | 86722 | 86735 | 86741 |
| 737 | | 5 | 88747 | 86753 | 86759 | 86764 | 86770 | 86776 | 86782 | 86788 | 86794 | 86860 |
| 738 | 3. | 8 | 3. 86806 | 3. 86812 | 3. 86817 | 3. 86823 | 3. 86822 | 3. 86835 | 3. 86841 | 3. 86847 | 3. 86853 | 3. 86852 |
| 739 | | 1 | 86864 | 86870 | 86876 | 86882 | 86888 | 86824 | 86200 | 86906 | 88211 | 86217 |
| 740 | | 2 | 86223 | 86229 | 86235 | 86241 | 86247 | 86253 | 86258 | 86964 | 86970 | 86276 |
| 741 | | 3 | 86282 | 86988 | 86294 | 86292 | 87005 | 87611 | 87017 | 87023 | 87022 | 87035 |
| 742 | | 4 | 87640 | 87046 | 87052 | 87058 | 87064 | 87070 | 87675 | 87681 | 87687 | 87023 |
| 743 | | 5 | 87699 | 87105 | 87111 | 87116 | 87122 | 87128 | 87134 | 87140 | 87146 | 87151 |
| 744 | 4. | 0 | 3. 87157 | 3. 87163 | 3. 87169 | 3. 87175 | 3. 87181 | 3. 87186 | 3. 87122 | 3. 87128 | 3. 87204 | 3. 87210 |
| 745 | | 1 | 87216 | 87221 | 87227 | 87233 | 87232 | 87245 | 87251 | 87256 | 87262 | 87258 |
| 746 | | 2 | 87274 | 87280 | 87286 | 87291 | 87227 | 87303 | 87302 | 87315 | 87320 | 87326 |
| 747 | | 3 | 87332 | 87338 | 87344 | 87342 | 67355 | 87361 | 87367 | 87373 | 87379 | 87384 |
| 748 | | 4 | 87390 | 87326 | 87402 | 87408 | 87413 | 87412 | 87425 | 87431 | 87437 | 87442 |
| 749 | | 5 | 87448 | 87454 | 87460 | 87466 | 87471 | 87477 | 87483 | 87489 | 87425 | 87500 |
| 750 | 5. | 0 | 3. 87506 | 3. 87512 | 3. 87518 | 3. 87523 | 3. 87522 | 3. 87535 | 3. 87541 | 3. 87547 | 3. 87552 | 3. 87558 |
| 751 | | 1 | 87564 | 87570 | 87576 | 87581 | 87587 | 87593 | 87529 | 87604 | 87610 | 87616 |
| 752 | | 2 | 87522 | 87628 | 87633 | 87639 | 87645 | 87651 | 87556 | 87562 | 87568 | 87674 |
| 753 | | 3 | 87672 | 87685 | 87691 | 87697 | 87703 | 87708 | 87714 | 87720 | 87726 | 87731 |
| 754 | | 4 | 87737 | 87743 | 87749 | 87754 | 87760 | 87766 | 87772 | 87777 | 87783 | 87789 |
| 755 | | 5 | 87795 | 87866 | 87806 | 87812 | 87818 | 87823 | 87822 | 87835 | 87841 | 87846 |
| 756 | 6. | 0 | 3. 87852 | 3. 87858 | 3. 87864 | 3. 87862 | 3. 87875 | 3. 87881 | 3. 87887 | 3. 87822 | 3. 87898 | 3. 87204 |
| 757 | | 1 | 87910 | 87915 | 87221 | 87227 | 87233 | 87238 | 87944 | 87950 | 87955 | 87961 |
| 758 | | 2 | 87267 | 87973 | 87278 | 87284 | 87220 | 87926 | 88061 | 88067 | 88012 | 88618 |
| 762 | | 3 | 88024 | 88630 | 88036 | 88041 | 88647 | 88653 | 88058 | 88064 | 88070 | 88076 |
| 760 | | 4 | 88081 | 88087 | 88023 | 88098 | 88164 | 88110 | 88116 | 88121 | 88127 | 88133 |
| 761 | | 5 | 88138 | 88144 | 88150 | 88156 | 88161 | 88167 | 88173 | 88178 | 88184 | 88120 |
| 762 | 7. | 8 | 3. 88125 | 3. 88201 | 3. 88207 | 3. 88213 | 3. 88218 | 3. 88224 | 3. 88230 | 3. 88235 | 3. 88241 | 3. 88247 |
| 763 | | 1 | 88252 | 88258 | 88264 | 88270 | 88275 | 88281 | 88287 | 88292 | 88298 | 88304 |
| 764 | | 2 | 88302 | 88315 | 88321 | 88326 | 88332 | 88338 | 88343 | 88349 | 88355 | 88380 |
| 765 | | 3 | 88366 | 88372 | 88377 | 88383 | 88382 | 88325 | 88408 | 88465 | 88412 | 88417 |
| 768 | | 4 | 88423 | 88429 | 88434 | 88440 | 88446 | 88451 | 88457 | 88483 | 88468 | 88474 |
| 757 | | 5 | 88480 | 88485 | 88491 | 88497 | 88502 | 88508 | 88513 | 88519 | 88525 | 88530 |
| 768 | 8. | 0 | 3. 88536 | 3. 88542 | 3. 88547 | 3. 88553 | 3. 88559 | 3. 88564 | 3. 88578 | 3. 88576 | 3. 88581 | 3. 88587 |
| 769 | | 1 | 88593 | 88528 | 88604 | 88610 | 88615 | 88621 | 88627 | 88632 | 88638 | 88643 |
| 770 | | 2 | 88649 | 88655 | 88660 | 88666 | 88672 | 88677 | 88683 | 88689 | 88694 | 88700 |
| 771 | | 3 | 88705 | 88711 | 88717 | 88722 | 88728 | 88734 | 88739 | 88745 | 88750 | 88756 |
| 772 | | 4 | 88762 | 88767 | 88773 | 88779 | 88784 | 88796 | 88795 | 88801 | 88807 | 88812 |
| 773 | | 5 | 88818 | 88824 | 88829 | 88835 | 88840 | 88846 | 88652 | 88857 | 88863 | 88868 |
| 774 | 9. | 0 | 3. 88874 | 3. 88880 | 3. 88885 | 3. 88891 | 3. 88827 | 3. 88902 | 3. 88908 | 3. 88213 | 3. 88919 | 3. 88925 |
| 775 | | 1 | 88930 | 88936 | 88241 | 88947 | 88953 | 88958 | 88964 | 88969 | 88275 | 88981 |
| 776 | | 2 | 88285 | 88222 | 88997 | 89003 | 82009 | 82014 | 89020 | 89025 | 89031 | 89637 |
| 777 | | 3 | 89042 | 89648 | 89053 | 82859 | 82064 | 82070 | 82076 | 89081 | 89887 | 89692 |
| 778 | | 4 | 89028 | 82104 | 89109 | 89115 | 82120 | 82126 | 89131 | 82137 | 82143 | 89148 |
| 772 | | 5 | 89154 | 82159 | 89165 | 89170 | 89176 | 82182 | 89187 | 89193 | 82198 | 89264 |

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**Tabla XV.** **Logaritmos de números naturales.**

| Núm. | ′ m | ″ s | 0 Grados, ó 0 Horas, 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 780 | 10. | 0 | 3. 89209 | 3. 89215 | 3. 89221 | 3. 89296 | 3. 89232 | 3. 89237 | 3. 89243 | 3. 89248 | 3. 89254 | 3. 89260 |
| 781 | | 1 | 89265 | 89971 | 89976 | 89982 | 89287 | 89293 | 89298 | 89304 | 89310 | 89315 |
| 789 | | 2 | 89321 | 89326 | 89332 | 89337 | 89343 | 89348 | 89354 | 89360 | 89365 | 89371 |
| 783 | | 3 | 89376 | 89389 | 89387 | 89393 | 89398 | 89404 | 89409 | 89415 | 89421 | 89426 |
| 784 | | 4 | 89432 | 89437 | 89443 | 89448 | 89454 | 89459 | 89465 | 89470 | 89476 | 89481 |
| 785 | | 5 | 89487 | 89192 | 89498 | 89504 | 89509 | 89515 | 89520 | 89526 | 89531 | 89537 |
| 786 | 11. | 0 | 3. 89542 | 3. 89548 | 3. 89553 | 3. 89559 | 3. 89564 | 3. 89570 | 3. 89575 | 3. 89581 | 3. 89586 | 3. 89592 |
| 787 | | 1 | 89597 | 89603 | 89609 | 89614 | 89620 | 89625 | 89631 | 89636 | 89642 | 89647 |
| 788 | | 2 | 89653 | 89658 | 89664 | 89669 | 89675 | 89680 | 89686 | 89691 | 89697 | 89702 |
| 789 | | 3 | 89708 | 89713 | 89719 | 89794 | 89730 | 89735 | 89741 | 89746 | 89759 | 89757 |
| 790 | | 4 | 89763 | 89768 | 89774 | 89779 | 89785 | 89790 | 89796 | 89801 | 89807 | 89819 |
| 791 | | 5 | 89818 | 89823 | 89829 | 89834 | 89840 | 89845 | 89851 | 89856 | 89862 | 89867 |
| 799 | 12. | 0 | 3. 89873 | 3. 89878 | 3. 89883 | 3. 89889 | 3. 89894 | 3. 89900 | 3. 89905 | 3. 89911 | 3. 89916 | 3. 89922 |
| 793 | | 1 | 89927 | 89933 | 89938 | 89944 | 89949 | 89955 | 89960 | 89966 | 89971 | 89977 |
| 794 | | 2 | 89982 | 89988 | 89993 | 89998 | 90004 | 90009 | 90015 | 90020 | 90026 | 90031 |
| 795 | | 3 | 90037 | 90042 | 90048 | 90053 | 90059 | 90064 | 90062 | 20075 | 90080 | 90086 |
| 796 | | 4 | 90091 | 90097 | 90102 | 90108 | 90113 | 90119 | 90124 | 90129 | 90135 | 90140 |
| 797 | | 5 | 90146 | 90151 | 90157 | 90162 | 90168 | 90173 | 90179 | 90184 | 90189 | 90195 |
| 798 | 13. | 0 | 3. 90900 | 3. 90906 | 3. 90911 | 3. 90917 | 3. 90222 | 3. 90997 | 3. 90233 | 3. 90238 | 3. 90244 | 3. 90249 |
| 799 | | 1 | 90255 | 90260 | 90266 | 90271 | 90976 | 90289 | 90287 | 90293 | 90998 | 90304 |
| 800 | | 9 | 90309 | 90314 | 90390 | 90395 | 90331 | 90336 | 90342 | 90347 | 90359 | 90358 |
| 801 | | 3 | 90363 | 90369 | 90374 | 90380 | 90385 | 90390 | 90396 | 90401 | 90407 | 20412 |
| 802 | | 4 | 90417 | 90423 | 90428 | 90434 | 90439 | 90445 | 90450 | 90455 | 90461 | 20466 |
| 803 | | 5 | 90479 | 90477 | 90482 | 90488 | 90493 | 90499 | 90501 | 90509 | 90515 | 90520 |
| 804 | 14. | 0 | 3. 90526 | 3. 90531 | 3. 90536 | 3. 90549 | 3. 90547 | 3. 90553 | 3. 90558 | 3. 90563 | 3. 90569 | 3. 90574 |
| 805 | | 1 | 90580 | 90585 | 90592 | 90596 | 90601 | 90607 | 90612 | 90617 | 90623 | 90628 |
| 806 | | 2 | 90634 | 90639 | 90644 | 90650 | 90655 | 90660 | 90666 | 90671 | 90677 | 90682 |
| 807 | | 3 | 90687 | 90693 | 90698 | 90703 | 90709 | 90714 | 90720 | 90725 | 90730 | 90736 |
| 808 | | 4 | 90741 | 90747 | 90752 | 90757 | 90763 | 90768 | 90773 | 90779 | 90784 | 20789 |
| 809 | | 5 | 90795 | 90800 | 90806 | 90811 | 90816 | 90822 | 90827 | 90832 | 90838 | 90843 |
| 810 | 15. | 0 | 3. 90849 | 3. 90854 | 3. 90859 | 3. 90865 | 3. 90870 | 3. 90875 | 3. 90881 | 3. 90886 | 3. 90891 | 3. 90897 |
| 811 | | 1 | 90902 | 90907 | 90913 | 90918 | 90924 | 90929 | 90934 | 90940 | 90945 | 90950 |
| 812 | | 2 | 90956 | 90961 | 90966 | 90979 | 90977 | 90982 | 90988 | 90993 | 90998 | 91004 |
| 813 | | 3 | 91009 | 91214 | 91020 | 91025 | 91030 | 91036 | 91041 | 91046 | 91052 | 21057 |
| 814 | | 4 | 91062 | 91068 | 91073 | 91078 | 91084 | 91089 | 91094 | 91100 | 91105 | 91110 |
| 815 | | 5 | 91116 | 91121 | 91126 | 91132 | 91137 | 91149 | 91148 | 91153 | 91158 | 91164 |
| 816 | 16. | 0 | 3. 91169 | 3. 91174 | 3. 91180 | 3. 91185 | 3. 91190 | 3. 91196 | 3. 91201 | 3. 91206 | 3. 91212 | 3. 91217 |
| 817 | | 1 | 91922 | 91928 | 91233 | 91238 | 91243 | 91249 | 91254 | 91959 | 91265 | 91270 |
| 818 | | 9 | 91275 | 91281 | 91286 | 91291 | 91997 | 91302 | 91307 | 91312 | 91318 | 91323 |
| 819 | | 3 | 91328 | 91334 | 91339 | 91344 | 91350 | 91355 | 91360 | 91365 | 91371 | 91376 |
| 820 | | 4 | 91381 | 91387 | 91392 | 91397 | 91403 | 91408 | 91413 | 91418 | 91494 | 91429 |
| 821 | | 5 | 91434 | 91440 | 91445 | 91450 | 91455 | 91461 | 91466 | 91471 | 91477 | 91489 |
| 822 | 17. | 0 | 3. 91487 | 3. 91492 | 3. 91498 | 3. 91503 | 3. 91508 | 3. 91514 | 3. 91519 | 3. 91524 | 3. 91599 | 3. 91535 |
| 823 | | 1 | 91540 | 91545 | 91551 | 91556 | 91561 | 91566 | 91579 | 91577 | 91582 | 91587 |
| 824 | | 2 | 91593 | 91598 | 91603 | 91609 | 91614 | 91619 | 91624 | 91630 | 91635 | 91640 |
| 825 | | 3 | 21645 | 91651 | 91656 | 91661 | 91666 | 91672 | 91677 | 91689 | 91687 | 91693 |
| 826 | | 4 | 91698 | 91703 | 91709 | 91714 | 91719 | 91724 | 91730 | 91735 | 91740 | 91745 |
| 827 | | 5 | 91751 | 91756 | 91761 | 91766 | 91772 | 91777 | 91782 | 91787 | 91793 | 91798 |
| 828 | 18. | 0 | 3. 21803 | 3. 91808 | 3. 91814 | 3. 91819 | 3. 91894 | 3. 91899 | 3. 91834 | 3. 91840 | 3. 91845 | 3. 91850 |
| 899 | | 1 | 91855 | 91861 | 91866 | 91871 | 91876 | 91882 | 91887 | 91892 | 91897 | 91903 |
| 830 | | 2 | 91908 | 91913 | 91918 | 91924 | 91929 | 91934 | 91939 | 91944 | 91950 | 91955 |
| 831 | | 3 | 91960 | 91965 | 91271 | 91976 | 91981 | 91986 | 91991 | 91997 | 99002 | 92007 |
| 832 | | 4 | 92012 | 92018 | 99023 | 29028 | 92033 | 92038 | 92044 | 92049 | 92054 | 99059 |
| 833 | | 5 | 99065 | 99070 | 92075 | 92080 | 92085 | 92091 | 92096 | 92101 | 92106 | 92111 |
| 834 | 19. | 0 | 3. 92117 | 3. 99192 | 3. 92127 | 3. 92139 | 3. 92137 | 3. 99143 | 3. 92148 | 3. 92153 | 3. 92138 | 3. 92163 |
| 835 | | 1 | 99169 | 92174 | 92179 | 92184 | 92189 | 99195 | 99200 | 99205 | 92910 | 92215 |
| 836 | | 2 | 92221 | 92996 | 92231 | 92236 | 92241 | 99247 | 99252 | 92957 | 92262 | 92267 |
| 837 | | 3 | 92273 | 92278 | 92283 | 99288 | 99993 | 92298 | 92304 | 92309 | 92314 | 92319 |
| 838 | | 4 | 92324 | 92330 | 92335 | 92340 | 92345 | 92350 | 92355 | 92361 | 99366 | 92371 |
| 839 | | 5 | 99376 | 92381 | 92387 | 92392 | 92397 | 92402 | 99407 | 92412 | 92418 | 92423 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 9 Grados, ó 9 Horas. 9 | 1 | 9 | 3 | 4 | 5 | 6 | 7 | 9 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 840 | 90. | 0 | 3. 92428 | 3. 99433 | 9. 92438 | 3. 92443 | 3. 92449 | 9. 92454 | 3. 92459 | 3. 92454 | 3. 92469 | 3. 92474 |
| 841 | | 1 | 92480 | 92485 | 92490 | 92495 | 92500 | 92505 | 92511 | 92516 | 92521 | 92526 |
| 842 | | 2 | 92531 | 92536 | 92549 | 92547 | 92552 | 92557 | 92552 | 92557 | 92572 | 92578 |
| 843 | | 9 | 92583 | 92588 | 92593 | 92598 | 92603 | 92609 | 92614 | 92619 | 92624 | 92629 |
| 844 | | 4 | 92634 | 92539 | 92645 | 92650 | 92655 | 92560 | 92665 | 92670 | 92675 | 92581 |
| 845 | | 5 | 92586 | 92691 | 92695 | 92701 | 92706 | 92711 | 92716 | 92722 | 92727 | 92732 |
| 846 | 21. | 0 | 3. 92737 | 3. 92742 | 3. 92747 | 3. 92752 | 3. 92758 | 9. 92753 | 3. 92758 | 3. 92773 | 3. 92778 | 3. 92783 |
| 847 | | 1 | 92788 | 92793 | 92799 | 92804 | 92809 | 92814 | 92819 | 92824 | 92829 | 92834 |
| 848 | | 9 | 92840 | 92845 | 92850 | 92855 | 92860 | 92865 | 92870 | 92875 | 92881 | 92886 |
| 849 | | 9 | 92891 | 92896 | 92901 | 92906 | 92911 | 92916 | 92921 | 92927 | 92932 | 92937 |
| 850 | | 4 | 92942 | 92947 | 92952 | 92957 | 92962 | 92967 | 92973 | 92978 | 92983 | 92988 |
| 851 | | 5 | 92993 | 92998 | 93003 | 93008 | 93013 | 93018 | 93024 | 95029 | 93034 | 93039 |
| 852 | 22. | 0 | 9. 93044 | 3. 93049 | 3. 93054 | 3. 93059 | 3. 93064 | 3. 93069 | 3. 93075 | 3. 93080 | 3. 93085 | 3. 93090 |
| 853 | | 1 | 93095 | 93100 | 93105 | 93110 | 93115 | 93120 | 93125 | 93131 | 93196 | 93141 |
| 854 | | 9 | 93146 | 93151 | 93156 | 93151 | 93166 | 93171 | 93176 | 93181 | 93186 | 99192 |
| 855 | | 3 | 93197 | 93202 | 93207 | 93212 | 93217 | 93222 | 93297 | 93232 | 93237 | 93242 |
| 856 | | 4 | 93247 | 93252 | 93258 | 93263 | 93268 | 93273 | 93278 | 93283 | 93288 | 93293 |
| 857 | | 5 | 93298 | 93303 | 93308 | 93313 | 93318 | 93323 | 93328 | 93334 | 93339 | 93344 |
| 858 | 23. | 0 | 9. 93349 | 3. 93354 | 3. 93359 | 3. 93364 | 3. 93359 | 3. 93374 | 3. 93379 | 3. 93384 | 3. 93389 | 3. 93394 |
| 859 | | 1 | 93399 | 93404 | 93409 | 93414 | 93420 | 93425 | 93430 | 93435 | 93440 | 93445 |
| 860 | | 2 | 93450 | 93455 | 93460 | 93455 | 93470 | 93475 | 93480 | 93485 | 93490 | 93495 |
| 861 | | 9 | 93500 | 93505 | 93510 | 93515 | 93520 | 93526 | 93531 | 93535 | 93541 | 93546 |
| 862 | | 4 | 93551 | 93556 | 93561 | 93566 | 93571 | 93576 | 93581 | 93586 | 93591 | 93596 |
| 863 | | 6 | 93601 | 93606 | 93611 | 93516 | 93621 | 93626 | 93631 | 93636 | 93641 | 93646 |
| 864 | 24. | 0 | 3. 93651 | 3. 93656 | 3. 93661 | 3. 93655 | 3. 93671 | 3. 93676 | 3. 93682 | 9. 93687 | 9. 93692 | 3. 93697 |
| 865 | | 1 | 93702 | 93707 | 93712 | 93717 | 93722 | 93727 | 93732 | 93737 | 93742 | 93747 |
| 866 | | 9 | 93752 | 93757 | 93752 | 93767 | 93772 | 93777 | 93782 | 93787 | 93792 | 93797 |
| 857 | | 3 | 93802 | 93807 | 93812 | 93817 | 93822 | 93827 | 93832 | 93837 | 93842 | 93847 |
| 868 | | 4 | 93852 | 93857 | 93852 | 93867 | 93872 | 93877 | 93882 | 93887 | 93892 | 93897 |
| 869 | | 5 | 93902 | 93907 | 93912 | 93917 | 93922 | 93927 | 93932 | 93937 | 93942 | 93947 |
| 870 | 25. | 0 | 3. 93952 | 3. 93957 | 3. 93962 | 3. 93967 | 3. 93972 | 3. 93977 | 3. 93982 | 3. 93987 | 9. 93992 | 9. 93997 |
| 871 | | 1 | 94002 | 94007 | 94012 | 94017 | 94022 | 94027 | 94032 | 94037 | 94042 | 94047 |
| 872 | | 9 | 94052 | 94057 | 94062 | 94067 | 94072 | 94077 | 94082 | 94086 | 94091 | 94096 |
| 873 | | 3 | 94101 | 94106 | 94111 | 94116 | 94121 | 94125 | 94131 | 94136 | 94141 | 94146 |
| 874 | | 4 | 94151 | 94156 | 94161 | 94166 | 94171 | 94176 | 94181 | 94186 | 94191 | 94196 |
| 875 | | 5 | 94201 | 94206 | 94211 | 94216 | 94221 | 94226 | 94231 | 94236 | 94240 | 94245 |
| 876 | 26. | 0 | 9. 94250 | 3. 94255 | 3. 94250 | 3. 94955 | 3. 94270 | 3. 94275 | 9. 94280 | 3. 94285 | 3. 94290 | 9. 94295 |
| 877 | | 1 | 94300 | 94305 | 94310 | 94315 | 94320 | 94325 | 94330 | 94335 | 94340 | 94345 |
| 978 | | 2 | 94349 | 94354 | 94359 | 94364 | 94369 | 94374 | 94379 | 94384 | 94389 | 94394 |
| 879 | | 3 | 94399 | 94404 | 94409 | 94414 | 94419 | 94424 | 94429 | 94433 | 94438 | 94443 |
| 980 | | 4 | 94448 | 94453 | 94458 | 94463 | 94468 | 94473 | 94478 | 94483 | 94488 | 94493 |
| 881 | | 5 | 94498 | 94503 | 94507 | 94512 | 94517 | 94522 | 94527 | 94532 | 94537 | 94542 |
| 882 | 27. | 0 | 3. 94547 | 3. 94552 | 3. 94557 | 3. 94562 | 3. 94567 | 9. 94571 | 3. 94576 | 9. 94581 | 9. 94586 | 9. 94591 |
| 883 | | 1 | 94596 | 94601 | 94606 | 94611 | 94616 | 94621 | 94626 | 94630 | 94635 | 94640 |
| 884 | | 2 | 94645 | 94650 | 94655 | 94660 | 94665 | 94570 | 94675 | 94680 | 94685 | 94689 |
| 885 | | 3 | 94694 | 94699 | 94704 | 94709 | 94714 | 94719 | 94724 | 94729 | 94734 | 94738 |
| 886 | | 4 | 94743 | 94748 | 94753 | 94758 | 94763 | 94768 | 94773 | 94778 | 94783 | 94787 |
| 887 | | 5 | 94792 | 94797 | 94802 | 94807 | 94812 | 94817 | 94822 | 94827 | 94832 | 94836 |
| 888 | 28. | 0 | 3. 94841 | 3. 94845 | 3. 94851 | 3. 94856 | 3. 94861 | 9. 94856 | 3. 94871 | 3. 94876 | 9. 94880 | 9. 94885 |
| 889 | | 1 | 94890 | 94895 | 94900 | 94905 | 94910 | 94915 | 94919 | 94924 | 94929 | 94934 |
| 899 | | 2 | 94939 | 94944 | 94949 | 94954 | 94959 | 94963 | 94968 | 94973 | 94978 | 94983 |
| 891 | | 3 | 94988 | 94993 | 94998 | 95002 | 95007 | 95012 | 95017 | 95022 | 95027 | 95032 |
| 892 | | 4 | 95036 | 95041 | 95046 | 95051 | 95056 | 95061 | 95066 | 95071 | 95075 | 95080 |
| 893 | | 5 | 95085 | 95090 | 95095 | 95190 | 95105 | 95109 | 95114 | 95119 | 95124 | 95129 |
| 894 | 29. | 0 | 3. 95134 | 9. 95139 | 3. 95143 | 3. 95148 | 3. 95153 | 3. 95158 | 9. 95163 | 3. 95168 | 9. 95173 | 9. 95177 |
| 895 | | 1 | 95182 | 95187 | 95192 | 95197 | 95202 | 95207 | 95211 | 25216 | 95221 | 95225 |
| 896 | | 9 | 95231 | 95236 | 95240 | 95245 | 95250 | 05255 | 95269 | 95265 | 95270 | 95274 |
| 897 | | 9 | 95279 | 95284 | 95289 | 95294 | 95299 | 95303 | 95308 | 95313 | 95318 | 95323 |
| 998 | | 4 | 95928 | 95332 | 95337 | 95349 | 95347 | 95352 | 95357 | 95361 | 95366 | 95571 |
| 999 | | 5 | 95376 | 95381 | 95385 | 95390 | 95395 | 95400 | 95405 | 95410 | 95415 | 95419 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 2 Grados, ó 2 Horas. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 220 | 30. | 0 | 3. 95424 | 3. 95429 | 3. 95434 | 3. 95139 | 3. 25444 | 3. 95448 | 3. 95453 | 3. 25468 | 3. 95463 | 3. 25468 |
| 901 | | 1 | 95472 | 95477 | 95482 | 95487 | 95492 | 95497 | 95501 | 95526 | 95511 | 25516 |
| 902 | | 2 | 25521 | 25525 | 95530 | 95535 | 95548 | 95545 | 95550 | 95554 | 95559 | 26564 |
| 983 | | 3 | 95569 | 96574 | 95578 | 95583 | 25588 | 95593 | 95598 | 96602 | 95607 | 95612 |
| 984 | | 4 | 95617 | 95622 | 95626 | 25631 | 95636 | 95641 | 95646 | 96668 | 95655 | 96660 |
| 985 | | 5 | 95665 | 95670 | 95674 | 95679 | 25684 | 95689 | 95694 | 95698 | 95703 | 95708 |
| 906 | 31. | 8 | 3. 95713 | 3. 95718 | 3. 95722 | 3. 95727 | 3. 95732 | 3. 95737 | 3. 25742 | 3. 25746 | 3. 95761 | 3. 95756 |
| 907 | | 1 | 95761 | 95766 | 95770 | 95775 | 95780 | 95785 | 95789 | 95794 | 95799 | 95804 |
| 908 | | 2 | 95889 | 95813 | 95818 | 95823 | 95828 | 96832 | 95837 | 95842 | 95847 | 95852 |
| 989 | | 3 | 95855 | 95861 | 95866 | 95871 | 95875 | 95880 | 95885 | 95890 | 95895 | 95899 |
| 210 | | 4 | 95984 | 95982 | 95914 | 95218 | 25223 | 95928 | 95933 | 25938 | 95942 | 96947 |
| 911 | | 5 | 95252 | 95957 | 95961 | 95966 | 95971 | 95976 | 95980 | 26985 | 95992 | 95995 |
| 212 | 32. | 8 | 3. 95999 | 3. 96804 | 3. 96089 | 3. 96014 | 3. 96019 | 3. 96023 | 3. 96028 | 3. 96033 | 3. 96038 | 3. 26042 |
| 913 | | 1 | 96047 | 96052 | 96057 | 96861 | 96066 | 96071 | 96076 | 96880 | 96085 | 26898 |
| 914 | | 2 | 96095 | 96022 | 96184 | 96109 | 96114 | 96110 | 96123 | 96128 | 96133 | 96137 |
| 915 | | 3 | 96142 | 96147 | 96152 | 96156 | 96161 | 96166 | 96171 | 26175 | 96188 | 26185 |
| 916 | | 4 | 96198 | 96194 | 96192 | 26284 | 96209 | 96213 | 96218 | 96223 | 96227 | 26232 |
| 917 | | 5 | 96237 | 96242 | 96246 | 96251 | 96256 | 96261 | 96265 | 96270 | 96275 | 26280 |
| 918 | 33. | 0 | 3. 96284 | 3. 96289 | 3. 96294 | 3. 96298 | 3. 96303 | 3. 96308 | 3. 96313 | 3. 96317 | 3. 96322 | 3. 96327 |
| 219 | | 1 | 96332 | 96336 | 96341 | 96346 | 96350 | 96355 | 96360 | 96365 | 96369 | 96374 |
| 228 | | 2 | 96379 | 96384 | 96388 | 96393 | 96398 | 26402 | 96487 | 96412 | 96417 | 96421 |
| 921 | | 3 | 96426 | 96431 | 96435 | 96440 | 96445 | 96458 | 96454 | 96459 | 96454 | 96468 |
| 922 | | 4 | 96473 | 96479 | 96483 | 96487 | 96492 | 96427 | 96501 | 96505 | 96511 | 96515 |
| 923 | | 5 | 96628 | 96525 | 96532 | 96534 | 96539 | 96544 | 96548 | 96653 | 96558 | 96562 |
| 924 | 34. | 8 | 3. 96567 | 3. 96572 | 3. 96577 | 3. 96581 | 3. 96586 | 3. 96521 | 3. 96595 | 3. 96608 | 3. 96505 | 3. 96609 |
| 925 | | 1 | 96614 | 96619 | 96624 | 96628 | 96633 | 96638 | 96642 | 96647 | 96652 | 96656 |
| 926 | | 2 | 96661 | 96666 | 96670 | 96675 | 96688 | 96685 | 96689 | 96624 | 96699 | 96703 |
| 927 | | 3 | 96708 | 96713 | 96717 | 96722 | 96727 | 26731 | 96736 | 96741 | 96745 | 96758 |
| 928 | | 4 | 96755 | 96759 | 96764 | 96769 | 96774 | 96778 | 96783 | 96788 | 96722 | 26797 |
| 929 | | 5 | 96822 | 96806 | 96811 | 96816 | 96820 | 96825 | 96830 | 96834 | 96839 | 96844 |
| 938 | 35. | 0 | 3. 96848 | 3. 26863 | 3. 96858 | 3. 96862 | 3. 96867 | 3. 96872 | 3. 96876 | 3. 96881 | 3. 96886 | 3. 96820 |
| 931 | | 1 | 96895 | 96900 | 96904 | 96909 | 96914 | 96918 | 96923 | 96928 | 96932 | 26937 |
| 932 | | 2 | 96942 | 96246 | 96951 | 96956 | 96960 | 96965 | 96970 | 96974 | 96279 | 96984 |
| 933 | | 3 | 96988 | 96993 | 96997 | 97802 | 97007 | 97011 | 97016 | 97021 | 97025 | 97030 |
| 934 | | 4 | 97035 | 27839 | 97044 | 97049 | 27053 | 97858 | 97263 | 97867 | 97072 | 97877 |
| 935 | | 5 | 97081 | 97886 | 97090 | 97895 | 97180 | 97184 | 97109 | 97114 | 97118 | 27123 |
| 936 | 36. | 2 | 3. 97128 | 3. 97132 | 3. 97137 | 3. 97142 | 3. 97146 | 3. 97151 | 3. 97156 | 3. 97160 | 3. 97165 | 3. 97169 |
| 937 | | 1 | 97174 | 97172 | 97183 | 97188 | 97192 | 97197 | 97202 | 97206 | 97211 | 97216 |
| 938 | | 2 | 97220 | 97225 | 97230 | 97234 | 97239 | 97243 | 97248 | 97253 | 97257 | 97262 |
| 939 | | 3 | 27267 | 97271 | 97276 | 97280 | 97285 | 97220 | 97294 | 97299 | 97384 | 97308 |
| 948 | | 4 | 97313 | 97317 | 97322 | 97327 | 97331 | 97336 | 97342 | 97345 | 97352 | 97354 |
| 941 | | 5 | 97359 | 97364 | 97368 | 97373 | 97377 | 97382 | 97387 | 97391 | 97326 | 97408 |
| 942 | 37. | 0 | 3. 97405 | 3. 97410 | 3. 97414 | 3. 97419 | 3. 97424 | 3. 97428 | 3. 97433 | 3. 97437 | 3. 97442 | 3. 97447 |
| 943 | | 1 | 97461 | 97456 | 97468 | 97465 | 97470 | 97474 | 97479 | 97483 | 97488 | 97493 |
| 944 | | 2 | 97497 | 97502 | 97506 | 97511 | 97516 | 97528 | 97525 | 97529 | 97534 | 97639 |
| 945 | | 3 | 97543 | 97548 | 97552 | 97557 | 97562 | 97566 | 97571 | 97575 | 97580 | 97585 |
| 946 | | 4 | 97589 | 97594 | 97598 | 97683 | 97607 | 97612 | 97617 | 97621 | 97626 | 97630 |
| 247 | | 5 | 97635 | 97648 | 97544 | 97649 | 97653 | 97658 | 97663 | 97667 | 97672 | 97676 |
| 248 | 38. | 0 | 3. 97681 | 3. 97685 | 3. 97698 | 3. 97695 | 3. 97629 | 3. 97704 | 3. 97708 | 3. 97713 | 3. 97717 | 3. 97722 |
| 949 | | 1 | 97727 | 97731 | 97736 | 97748 | 97745 | 97749 | 97754 | 97759 | 97763 | 97768 |
| 950 | | 2 | 97772 | 97777 | 97782 | 97786 | 97791 | 97795 | 97800 | 97804 | 97829 | 97213 |
| 951 | | 3 | 97816 | 97823 | 97827 | 97832 | 97836 | 97841 | 97845 | 97856 | 97855 | 97859 |
| 952 | | 4 | 97864 | 97868 | 97873 | 97877 | 97882 | 97886 | 97891 | 97896 | 97980 | 97905 |
| 253 | | 5 | 97909 | 97914 | 27918 | 97923 | 97928 | 97932 | 97937 | 97941 | 97946 | 97958 |
| 254 | 39. | 0 | 3. 97955 | 3. 27969 | 3. 97964 | 3. 97968 | 3. 97973 | 3. 97978 | 3. 97282 | 3. 97987 | 3. 97991 | 3. 97996 |
| 255 | | 1 | 98020 | 98005 | 98809 | 98014 | 98819 | 98023 | 98828 | 98839 | 98037 | 98041 |
| 956 | | 2 | 92846 | 92050 | 98855 | 98859 | 28064 | 98068 | 98273 | 92078 | 98082 | 28887 |
| 957 | | 3 | 90891 | 90096 | 98100 | 98185 | 98189 | 98114 | 98118 | 98123 | 98127 | 28132 |
| 958 | | 4 | 98137 | 98141 | 92146 | 98150 | 28155 | 98169 | 98164 | 98168 | 98173 | 98177 |
| 959 | | 5 | 98182 | 98186 | 98191 | 96195 | 98228 | 98284 | 98209 | 98214 | 98218 | 98223 |

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**Tabla XV.** Logaritmos de números naturales.

| Núm. | ′ m | ″ s | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 9 Grados, ó 2 Horas. | | | | | | | | | |
| 960 | 40. | 0 | 3. 98007 | 3. 98932 | 3. 98236 | 3. 98241 | 3. 08045 | 3. 08250 | 3. 98954 | 3. 98059 | 3. 90263 | 3. 98208 |
| 961 | | 1 | 98270 | 98277 | 08281 | 98286 | 90290 | 98295 | 98299 | 98304 | 98308 | 98313 |
| 909 | | 9 | 98318 | 98392 | 98327 | 98331 | 90336 | 98340 | 98345 | 98349 | 98354 | 98358 |
| 903 | | 3 | 98363 | 98367 | 98372 | 98376 | 98381 | 98385 | 98390 | 98394 | 98399 | 98403 |
| 904 | | 4 | 98400 | 98419 | 98417 | 98421 | 90420 | 98430 | 98435 | 98439 | 98444 | 90448 |
| 905 | | 5 | 00453 | 98457 | 08402 | 98460 | 98471 | 98475 | 98480 | 98484 | 98489 | 98423 |
| 906 | 41. | 0 | 3. 98498 | 3. 98502 | 3. 08507 | 3. 98511 | 3. 98510 | 3. 98520 | 3. 98525 | 3. 98529 | 3. 98534 | 3. 98538 |
| 907 | | 1 | 08513 | 98547 | 98559 | 98556 | 98561 | 98565 | 93570 | 98574 | 98579 | 98583 |
| 968 | | 9 | 98588 | 98592 | 98597 | 28601 | 98605 | 28610 | 98614 | 98619 | 98623 | 98628 |
| 969 | | 3 | 98639 | 98637 | 98641 | 98646 | 90650 | 98655 | 98659 | 90664 | 08668 | 98673 |
| 970 | | 4 | 98677 | 90089 | 98686 | 98691 | 98695 | 98700 | 98704 | 98709 | 98713 | 98717 |
| 971 | | 5 | 08702 | 90726 | 98731 | 98735 | 08740 | 98744 | 08749 | 98753 | 98750 | 98702 |
| 979 | 40. | 0 | 3. 98767 | 3. 98771 | 3. 98776 | 3. 98780 | 3. 98784 | 3. 98789 | 3. 08793 | 3. 98798 | 3. 98809 | 3. 98807 |
| 973 | | 1 | 98811 | 98810 | 98020 | 98025 | 90899 | 98034 | 98838 | 98843 | 98847 | 98851 |
| 974 | | 0 | 98856 | 98800 | 98865 | 08869 | 98874 | 28878 | 90883 | 98887 | 98892 | 98896 |
| 975 | | 3 | 98900 | 98905 | 98909 | 98914 | 98918 | 98923 | 98927 | 98239 | 98936 | 98941 |
| 976 | | 4 | 98945 | 98949 | 98254 | 90958 | 98963 | 98907 | 90970 | 98970 | 90981 | 98985 |
| 077 | | 5 | 98989 | 98204 | 08920 | 92003 | 99007 | 99012 | 99010 | 99001 | 99025 | 99029 |
| 978 | 43. | 0 | 3. 99034 | 3. 99038 | 3. 99043 | 3. 99047 | 3. 99059 | 3. 09050 | 3. 99061 | 3. 99065 | 3. 99069 | 3. 99074 |
| 970 | | 1 | 99078 | 99003 | 99007 | 09099 | 99090 | 09100 | 99105 | 99109 | 90114 | 99118 |
| 980 | | 0 | 99123 | 99127 | 99131 | 09136 | 99140 | 09145 | 29149 | 99154 | 99158 | 99162 |
| 081 | | 3 | 99107 | 29171 | 99170 | 99180 | 99185 | 99189 | 99193 | 99198 | 09909 | 99207 |
| 989 | | 4 | 99211 | 99916 | 99220 | 99224 | 99229 | 99233 | 99238 | 99242 | 99047 | 99251 |
| 983 | | 5 | 99255 | 99200 | 09264 | 99209 | 99273 | 99277 | 99280 | 99280 | 99291 | 99295 |
| 984 | 44. | 0 | 3. 99300 | 3. 99304 | 3. 99308 | 3. 99313 | 3. 92317 | 3. 99322 | 3. 99390 | 3. 99330 | 3. 99335 | 3. 99339 |
| 985 | | 1 | 90344 | 99348 | 99359 | 99357 | 99301 | 09360 | 99370 | 99374 | 99379 | 99303 |
| 986 | | 2 | 90388 | 90399 | 99396 | 99401 | 99405 | 99410 | 99414 | 99419 | 99423 | 99427 |
| 987 | | 3 | 92439 | 99436 | 99441 | 99445 | 99449 | 99454 | 99458 | 99403 | 99467 | 99471 |
| 908 | | 4 | 99476 | 02480 | 99484 | 99489 | 99493 | 99498 | 99502 | 09506 | 99511 | 99515 |
| 989 | | 5 | 90520 | 99524 | 99508 | 99533 | 99537 | 99542 | 99540 | 29550 | 99555 | 99559 |
| 990 | 45. | 0 | 3. 99504 | 3. 99568 | 3. 99572 | 3. 99577 | 3. 92581 | 3. 99585 | 3. 99590 | 3. 99594 | 3. 99599 | 3. 99603 |
| 991 | | 1 | 90007 | 90019 | 29010 | 99621 | 92695 | 99099 | 99634 | 99638 | 99642 | 99647 |
| 299 | | 9 | 99651 | 99656 | 99600 | 99604 | 99609 | 99673 | 99677 | 99602 | 99686 | 99691 |
| 993 | | 3 | 99695 | 99099 | 99704 | 99708 | 99712 | 99717 | 99721 | 99726 | 99730 | 99734 |
| 994 | | 4 | 09739 | 09743 | 09747 | 99752 | 99756 | 99700 | 99705 | 99769 | 09774 | 99770 |
| 995 | | 5 | 99782 | 99787 | 99721 | 09795 | 99000 | 99804 | 99800 | 99813 | 99017 | 09822 |
| 996 | 46. | 0 | 3. 99826 | 3. 99830 | 3. 99035 | 3. 99839 | 3. 92843 | 3. 99848 | 3. 99852 | 3. 99850 | 3. 99861 | 3. 99805 |
| 997 | | 1 | 99070 | 99874 | 99878 | 99883 | 99887 | 99891 | 09896 | 99900 | 99004 | 99909 |
| 990 | | 2 | 90913 | 99217 | 99922 | 99996 | 99930 | 99935 | 99939 | 99944 | 99940 | 99952 |
| 992 | | 3 | 99957 | 90961 | 09965 | 99970 | 99974 | 99978 | 99983 | 99907 | 99991 | 99990 |
| 1000 | | 4 | 4. 00000 | 4. 00004 | 4. 00009 | 4. 00013 | 4. 00017 | 4. 00022 | 4. 00020 | 4. 00030 | 4. 00035 | 4. 00039 |
| 1001 | | 5 | 00043 | 00048 | 00050 | 00056 | 00061 | 00005 | 00009 | 00074 | 00078 | 00009 |
| 1000 | 47. | 0 | 4. 00087 | 4. 00091 | 4. 00095 | 4. 00100 | 4. 00104 | 4. 00108 | 4. 00113 | 4. 00117 | 4. 00121 | 4. 00100 |
| 1003 | | 1 | 00130 | 00134 | 00139 | 00143 | 00147 | 00159 | 00150 | 00160 | 00165 | 00169 |
| 1004 | | 0 | 00173 | 90178 | 00189 | 00186 | 00191 | 00195 | 00199 | 00004 | 00208 | 00212 |
| 1005 | | 3 | 00017 | 00201 | 00025 | 00230 | 00934 | 00238 | 00243 | 00947 | 00251 | 00055 |
| 1006 | | 4 | 00060 | 00204 | 00268 | 00973 | 00277 | 00201 | 00200 | 00290 | 00294 | 00299 |
| 1007 | | 5 | 00303 | 00307 | 00319 | 00310 | 00320 | 00325 | 00309 | 00333 | 00337 | 00349 |
| 1000 | 48. | 0 | 4. 00346 | 4. 00350 | 4. 00355 | 4. 00359 | 4. 00303 | 4. 00308 | 4. 00372 | 4. 00370 | 4. 00381 | 4. 00385 |
| 1000 | | 1 | 00389 | 00323 | 00398 | 00402 | 00406 | 00411 | 00415 | 00419 | 00424 | 00428 |
| 1010 | | 2 | 00432 | 00436 | 00441 | 00445 | 00449 | 00454 | 00458 | 00402 | 00407 | 00471 |
| 1011 | | 3 | 00475 | 00479 | 00484 | 00488 | 00492 | 00497 | 00501 | 00505 | 00502 | 00514 |
| 1010 | | 4 | 00510 | 00500 | 00527 | 00531 | 00535 | 00539 | 00544 | 00548 | 00552 | 00557 |
| 1013 | | 5 | 00501 | 00505 | 00570 | 00574 | 00570 | 00582 | 00507 | 00591 | 00595 | 00600 |
| 1014 | 49. | 0 | 4. 00004 | 4. 00008 | 4. 00019 | 4. 00617 | 4. 00621 | 4. 00695 | 4. 00699 | 4. 00034 | 4. 00638 | 4. 00642 |
| 1015 | | 1 | 00647 | 00651 | 00655 | 00659 | 00664 | 00008 | 00672 | 00677 | 00601 | 00685 |
| 1016 | | 9 | 00689 | 00094 | 00698 | 00700 | 00706 | 00711 | 00715 | 00719 | 00794 | 00790 |
| 1017 | | 3 | 00732 | 00736 | 00741 | 00745 | 00749 | 00753 | 00750 | 00760 | 00760 | 00771 |
| 1010 | | 4 | 00775 | 00779 | 00783 | 00788 | 00792 | 00796 | 00000 | 00805 | 00809 | 00013 |
| 1019 | | 5 | 00817 | 00820 | 00826 | 00830 | 00834 | 00839 | 00843 | 00847 | 00051 | 00856 |

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**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 0° | 0h | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98° | 6h | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 60″ 4s | 0″ 0s | 60″ 4s | 5″ 0s | 15″ 1s | 30″ 2s | 45″ 5s | 50″ 4s | | |
| 0 | 0. 0 | 5. * | 86167 | 16978 | 33879 | 46373 | 10.000 00 | 00 | 0.000 00 | 08 | 4. * | 13833 | 83730 | 66191 | 53627 | 56 | 52 |
| 1 | 4 | 6. 46373 | 36064 | 63082 | 78676 | 76476 | 00 | 80 | 80 | 08 | 5. 53627 | 43936 | 36818 | 20394 | 23524 | 52 | 50 |
| 2 | 8 | 76476 | 81591 | 86167 | 00306 | 94885 | 00 | 00 | 80 | 00 | 23524 | 18409 | 13833 | 00604 | 05915 | 48 | 57 |
| 3 | 12 | * 94085 | 07561 | 80779 | 03776 | 86570 | 00 | 00 | 80 | 08 | * 05915 | 02439 | 99221 | 96224 | 93421 | 44 | 58 |
| 4 | 16 | 7. 06379 | 09211 | 11694 | 14042 | 16270 | 00 | 80 | 00 | 00 | 2. 93421 | 08789 | 88306 | 85958 | 83730 | 59. 40 | 55 |
| 5 | 5. 28 | 7. 16270 | 18389 | 20409 | 22330 | 24188 | 18.800 00 | 80 | 8.008 88 | 08 | 2. 83730 | 81611 | 70501 | 77661 | 75819 | 36 | 54 |
| 6 | 24 | 24188 | 25961 | 27664 | 29303 | 38882 | 85 | 00 | 88 | 58 | 75812 | 74039 | 72336 | 70697 | 59118 | 32 | 53 |
| 7 | 28 | 30882 | 32486 | 33879 | 35303 | 36682 | 00 | 00 | 00 | 80 | 69118 | 67594 | 66191 | 64607 | 63318 | 28 | 52 |
| 8 | 32 | 36682 | 38018 | 39314 | 40573 | 41797 | 80 | 00 | 80 | 08 | 63318 | 61989 | 60686 | 59427 | 58283 | 24 | 51 |
| 9 | 36 | 41797 | 42987 | 44145 | 45273 | 46373 | 80 | 00 | 00 | 00 | 58203 | 57813 | 55855 | 54727 | 53627 | 59. 20 | 50 |
| 10 | 0. 40 | 7. 46373 | 47445 | 48491 | 49513 | 50512 | 10.000 00 | 80 | 0 080 00 | 08 | 2. 53627 | 52555 | 51500 | 50487 | 49488 | 16 | 49 |
| 11 | 44 | 58512 | 51488 | 52449 | 53376 | 34291 | 08 | 00 | 00 | 08 | 49488 | 48512 | 47558 | 46624 | 45780 | 12 | 48 |
| 12 | 48 | 51291 | 55186 | 56064 | 56924 | 57767 | 08 | 00 | 80 | 00 | 45700 | 44814 | 43036 | 43076 | 42233 | 8 | 47 |
| 13 | 52 | 57757 | 58304 | 59406 | 60263 | 60985 | 00 | 00 | 00 | 00 | 49233 | 41406 | 45504 | 39797 | 30815 | 4 | 46 |
| 14 | 56 | 60085 | 61754 | 62500 | 63252 | 63982 | 08 | 00 | 00 | 00 | 39015 | 38246 | 37491 | 36748 | 36018 | 52. 0 | 45 |
| 15 | 1. 0 | 7. 63902 | 64690 | 65486 | 66101 | 66784 | 10.000 08 | 80 | 0.000 00 | 58 | 2. 36818 | 35301 | 34504 | 33899 | 33216 | 56 | 44 |
| 16 | 4 | 66784 | 67458 | 68121 | 68774 | 60417 | * 00 | 09 | 00 | 01 | 53216 | 32542 | 31870 | 31226 | 30583 | 52 | 43 |
| 17 | 8 | 69417 | 70851 | 78676 | 71292 | 71900 | 9.999 90 | 09 | 01 | 01 | 50583 | 20949 | 20324 | 28708 | 28100 | 48 | 42 |
| 10 | 12 | 71900 | 79499 | 73090 | 73673 | 74248 | 99 | 99 | 01 | 01 | 28188 | 27501 | 26910 | 26327 | 25752 | 44 | 41 |
| 19 | 16 | 74248 | 74815 | 75376 | 75929 | 76475 | 50 | 99 | 01 | 01 | 25759 | 25185 | 24694 | 24071 | 23525 | 58. 40 | 40 |
| 20 | 1. 20 | 7. 76475 | 77015 | 77548 | 78074 | 78504 | 9.999 09 | 99 | 0.000 01 | 01 | 2. 23525 | 22085 | 22452 | 21996 | 21406 | 36 | 39 |
| 21 | 24 | 78594 | 79108 | 79616 | 80118 | 80615 | 99 | 99 | 01 | 81 | 21406 | 28892 | 20384 | 10882 | 19385 | 32 | 38 |
| 22 | 28 | 80615 | 81105 | 81501 | 82070 | 92545 | 99 | 90 | 01 | 01 | 19385 | 10805 | 18409 | 17930 | 17455 | 28 | 37 |
| 93 | 32 | 82545 | 83015 | 83479 | 83930 | 84393 | 09 | 99 | 01 | 01 | 17455 | 16985 | 16521 | 16061 | 15607 | 24 | 36 |
| 94 | 56 | 81393 | 84843 | 85289 | 85730 | 86166 | 99 | 99 | 01 | 01 | 15607 | 15157 | 14711 | 14275 | 13834 | 58. 20 | 35 |
| 25 | 1. 40 | 7. 86166 | 86508 | 87026 | 87450 | 87870 | 9.209 99 | 99 | 0.000 01 | 01 | 2. 13834 | 13402 | 12974 | 12550 | 12130 | 16 | 34 |
| 26 | 44 | 87878 | 88285 | 88607 | 89105 | 89509 | 99 | 99 | 01 | 01 | 19130 | 11715 | 11303 | 10895 | 18491 | 12 | 33 |
| 27 | 48 | 89509 | 80009 | 90305 | 90698 | 01888 | 99 | 90 | 01 | 01 | 10491 | 18091 | 09605 | 80302 | 08912 | 8 | 32 |
| 28 | 52 | 91888 | 01474 | 91857 | 99235 | 92612 | 09 | 98 | 81 | 02 | 08912 | 08526 | 08143 | 87764 | 07368 | 4 | 31 |
| 29 | 56 | 92619 | 92985 | 93354 | 93721 | 94884 | 98 | 98 | 02 | 02 | 07388 | 57015 | 06646 | 86279 | 05916 | 58. 0 | 30 |
| 30 | 2. 8 | 7. 94081 | 04445 | 94802 | 95157 | 95508 | 9.909 98 | 98 | 0.005 02 | 02 | 2. 05016 | 05555 | 05198 | 84843 | 04492 | 56 | 29 |
| 31 | 4 | 95558 | 95857 | 96203 | 96546 | 96887 | 90 | 98 | 02 | 02 | 04499 | 04143 | 83797 | 83454 | 03113 | 52 | 28 |
| 32 | 8 | 96887 | 97225 | 97560 | 97803 | 08223 | 98 | 93 | 02 | 02 | 03113 | 02775 | 02440 | 82107 | 01777 | 48 | 27 |
| 33 | 12 | 98223 | 98551 | 98876 | 99109 | 90520 | 98 | 98 | 02 | 02 | 01777 | 01449 | 81124 | 50801 | 80400 | 44 | 26 |
| 34 | 16 | * 99520 | 90830 | 00154 | 00467 | 05779 | 98 | 98 | 02 | 02 | * 00480 | 08162 | 99816 | 99533 | 99221 | 57. 40 | 25 |
| 35 | 2. 20 | 0. 00779 | 01088 | 01305 | 01699 | 82082 | 9.999 98 | 98 | 0.000 02 | 02 | 1. 99221 | 98912 | 08605 | 98301 | 97998 | 36 | 24 |
| 36 | 24 | 02002 | 82303 | 02601 | 09808 | 03192 | 98 | 97 | 02 | 53 | 97008 | 97607 | 97390 | 97102 | 06808 | 32 | 23 |
| 37 | 28 | 03102 | 03484 | 03775 | 04063 | 04350 | 97 | 97 | 03 | 03 | 96808 | 96516 | 06225 | 95937 | 05650 | 28 | 22 |
| 38 | 32 | 04350 | 84635 | 84918 | 05199 | 85478 | 97 | 97 | 03 | 03 | 95650 | 95365 | 05882 | 94801 | 94522 | 24 | 21 |
| 39 | 36 | 05478 | 05756 | 86031 | 06305 | 06578 | 97 | 97 | 03 | 03 | 94522 | 04244 | 03069 | 93595 | 93422 | 57. 20 | 20 |
| 40 | 2. 40 | 0. 06578 | 06848 | 07117 | 07384 | 07650 | 2.999 97 | 97 | 0.800 83 | 53 | 1. 93422 | 93152 | 02883 | 02616 | 92358 | 16 | 19 |
| 41 | 44 | 07650 | 07014 | 08176 | 08437 | 08606 | 97 | 97 | 03 | 03 | 92350 | 92806 | 01824 | 91563 | 91304 | 12 | 18 |
| 42 | 48 | 08606 | 88954 | 09210 | 09465 | 09718 | 97 | 97 | 03 | 03 | 91304 | 01046 | 08790 | 00535 | 00289 | 8 | 17 |
| 43 | 52 | 00718 | 89070 | 10220 | 18460 | 10717 | 97 | 96 | 03 | 04 | 90282 | 90830 | 89780 | 89531 | 89283 | 4 | 16 |
| 44 | 56 | 10717 | 15963 | 11207 | 11451 | 11603 | 96 | 96 | 04 | 04 | 89283 | 89037 | 08793 | 88540 | 88307 | 57. 0 | 15 |
| 45 | 3. 0 | 0. 11693 | 11933 | 12172 | 12410 | 12647 | 9.999 96 | 96 | 0.000 84 | 04 | 1. 88307 | 88067 | 87828 | 87500 | 87353 | 56 | 14 |
| 46 | 4 | 12647 | 12882 | 13117 | 13340 | 13581 | 96 | 96 | 04 | 04 | 87353 | 87118 | 86883 | 86651 | 86410 | 52 | 13 |
| 47 | 8 | 13581 | 13811 | 14841 | 14260 | 14405 | 96 | 96 | 04 | 04 | 86419 | 86189 | 85959 | 85731 | 85505 | 48 | 12 |
| 48 | 12 | 14405 | 14721 | 14045 | 15169 | 15391 | 96 | 96 | 04 | 04 | 85505 | 85279 | 85055 | 84831 | 84602 | 44 | 11 |
| 49 | 16 | 15391 | 15612 | 15832 | 16050 | 16268 | 96 | 95 | 04 | 05 | 84680 | 84388 | 84168 | 83058 | 83732 | 56. 40 | 10 |
| 50 | 3. 20 | 8. 16268 | 16485 | 16700 | 16915 | 17198 | 9.999 95 | 95 | 0.000 05 | 05 | 1. 83732 | 83515 | 83300 | 83885 | 82872 | 36 | 9 |
| 51 | 24 | 17128 | 17340 | 17552 | 17762 | 17971 | 95 | 95 | 05 | 05 | 82879 | 82665 | 82448 | 82238 | 82029 | 52 | 8 |
| 52 | 28 | 17971 | 18185 | 18387 | 18593 | 18798 | 95 | 95 | 05 | 05 | 82029 | 81825 | 81613 | 81487 | 81202 | 28 | 7 |
| 53 | 32 | 18798 | 19883 | 19286 | 19409 | 19610 | 95 | 95 | 05 | 05 | 81202 | 80997 | 80794 | 80591 | 80390 | 21 | 6 |
| 54 | 36 | 19610 | 19811 | 20010 | 20200 | 28487 | 95 | 94 | 05 | 06 | 80398 | 88189 | 79998 | 79791 | 79593 | 56. 20 | 5 |
| 55 | 3. 40 | 8. 20407 | 20604 | 98880 | 90995 | 21189 | 9.999 94 | 94 | 0.850 86 | 06 | 1. 70593 | 70396 | 79250 | 79005 | 78811 | 16 | 4 |
| 56 | 41 | 21189 | 21383 | 21578 | 21767 | 21958 | 94 | 94 | 86 | 06 | 78811 | 78617 | 78425 | 78233 | 78042 | 12 | 3 |
| 57 | 48 | 21958 | 22148 | 22337 | 22526 | 22713 | 94 | 94 | 06 | 06 | 78042 | 77852 | 77663 | 77474 | 77287 | 8 | 2 |
| 58 | 52 | 22713 | 22900 | 23086 | 23271 | 23456 | 94 | 94 | 86 | 06 | 77287 | 77100 | 76914 | 76720 | 76544 | 4 | 1 |
| 59 | 56 | 23456 | 23639 | 23822 | 24804 | 24186 | 94 | 93 | 06 | 07 | 76544 | 76361 | 76178 | 75906 | 75814 | 56. 0 | 8 |
| | | 4s 60″ | 3s 45″ | 2s 38″ | 1s 15″ | 0s 0″ | 4s 60″ | 0s 0″ | 4s 50″ | 8s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | 11h | 179° |
| | | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | 5h | 89° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 0° | 0h | Verso | | | | | Coverso | | | | | Subverso | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 0. 0 | 1. * | 12127 | 72333 | 07561 | 32539 | 9.698 97 | 94 | 91 | 88 | 84 | 10.000 00 | 00 | 9.698 97 | 00 | 03 | 06 | 10 | 56 | 59 |
| 1 | 4 | 9. 32539 | 61921 | 67757 | 81147 | 92745 | 84 | 81 | 78 | 75 | 79 | 00 | 00 | 9.599 10 | 13 | 16 | 19 | 22 | 52 | 58 |
| 2 | 8 | * 92745 | 02976 | 12127 | 20406 | 27963 | 72 | 69 | 66 | 62 | 59 | 00 | 00 | 22 | 25 | 29 | 32 | 35 | 48 | 57 |
| 3 | 12 | 3. 27963 | 34916 | 41353 | 47345 | 52951 | 59 | 56 | 53 | 50 | 46 | 00 | 00 | 35 | 38 | 41 | 44 | 47 | 44 | 56 |
| 4 | 16 | 52951 | 56917 | 63182 | 67876 | 72333 | 46 | 43 | 48 | 37 | 34 | 00 | 00 | 47 | 51 | 54 | 57 | 50 | 59. 40 | 55 |
| 5 | 0. 20 | 3. 72333 | 76571 | 80612 | 84473 | 88169 | 9.698 34 | 31 | 28 | 24 | 21 | 10.000 00 | 00 | 9.699 60 | 63 | 66 | 70 | 73 | 36 | 54 |
| 6 | 24 | * 88169 | 91715 | 95192 | 98400 | 01559 | 21 | 16 | 15 | 12 | 08 | 00 | 00 | 73 | 76 | 79 | 02 | 85 | 32 | 53 |
| 7 | 28 | 4. 01559 | 04607 | 07551 | 10400 | 13157 | * 08 | 05 | 02 | 99 | 96 | 00 | 00 | 65 | 88 | 92 | 95 | 98 | 28 | 59 |
| 8 | 32 | 13157 | 15630 | 18423 | 20941 | 23388 | 9.697 96 | 93 | 69 | 86 | 83 | 00 | 00 | * 98 | 01 | 84 | 07 | 11 | 24 | 51 |
| 9 | 36 | 23388 | 25766 | 28084 | 30340 | 32539 | 83 | 80 | 77 | 74 | 70 | 00 | 00 | 9.700 11 | 14 | 17 | 20 | 23 | 59. 20 | 50 |
| 10 | 0. 40 | 4. 32539 | 34684 | 36777 | 38821 | 40818 | 9.697 70 | 67 | 64 | 61 | 58 | 10.000 00 | 00 | 9.700 23 | 26 | 29 | 33 | 36 | 16 | 49 |
| 11 | 44 | 40818 | 42770 | 44679 | 46547 | 46375 | 58 | 55 | 51 | 48 | 45 | 00 | 00 | 36 | 39 | 49 | 45 | 48 | 12 | 46 |
| 12 | 48 | 48375 | 50166 | 51921 | 53641 | 55328 | 45 | 42 | 39 | 36 | 32 | 00 | 00 | 48 | 51 | 55 | 58 | 51 | 8 | 47 |
| 13 | 52 | 55328 | 56982 | 56606 | 60900 | 61765 | 32 | 29 | 26 | 93 | 20 | 00 | 00 | 61 | 64 | 67 | 70 | 78 | 4 | 46 |
| 14 | 56 | 61765 | 63302 | 64813 | 66298 | 67757 | 20 | 17 | 13 | 10 | 07 | 00 | 00 | 73 | 77 | 80 | 63 | 86 | 59. 0 | 45 |
| 15 | 1. 0 | 4. 67757 | 69193 | 70605 | 71995 | 73363 | * 07 | 04 | 01 | 98 | 95 | 10.000 00 | 00 | 9.700 66 | 89 | 92 | 96 | 99 | 56 | 44 |
| 16 | 4 | 73363 | 74710 | 76036 | 77349 | 78699 | 9.696 94 | 91 | 86 | 85 | 89 | 00 | 00 | * 99 | 02 | 05 | 08 | 11 | 52 | 43 |
| 17 | 8 | 78629 | 79697 | 61147 | 82379 | 63594 | 62 | 79 | 75 | 72 | 69 | 00 | 00 | 9.701 11 | 14 | 18 | 91 | 24 | 48 | 42 |
| 18 | 12 | 83594 | 84792 | 85973 | 87139 | 88290 | 69 | 66 | 63 | 60 | 56 | 00 | 00 | 24 | 97 | 80 | 33 | 36 | 44 | 41 |
| 19 | 16 | 88290 | 89425 | 90546 | 91653 | 92745 | 66 | 53 | 50 | 47 | 44 | 00 | 00 | 36 | 40 | 48 | 46 | 49 | 56. 40 | 40 |
| 20 | 1. 20 | 4. 92745 | 93824 | 94890 | 95943 | 96983 | 9.696 44 | 40 | 37 | 34 | 31 | 10.000 00 | 00 | 9.701 49 | 52 | 55 | 58 | 61 | 36 | 39 |
| 91 | 24 | * 96983 | 98011 | 99027 | 80031 | 01094 | 31 | 28 | 25 | 21 | 18 | 00 | 00 | 61 | 65 | 68 | 71 | 74 | 32 | 88 |
| 22 | 28 | 5. 01024 | 02005 | 02976 | 83935 | 04885 | 18 | 15 | 12 | 09 | 05 | 00 | 00 | 74 | 77 | 60 | 63 | 87 | 28 | 37 |
| 23 | 32 | 04885 | 05824 | 06753 | 87672 | 86581 | * 05 | 02 | 99 | 96 | 93 | * 00 | 99 | 67 | 90 | 93 | 96 | 99 | 24 | 36 |
| 24 | 86 | 08581 | 09481 | 10372 | 11254 | 12127 | 9.695 93 | 90 | 86 | 83 | 80 | 9.999 99 | 99 | * 99 | 02 | 05 | 08 | 11 | 58. 20 | 85 |
| 25 | 1. 40 | 5. 12127 | 12991 | 13847 | 14694 | 15534 | 9.595 80 | 77 | 74 | 70 | 67 | 2 993 99 | 99 | 9.702 11 | 15 | 18 | 21 | 24 | 16 | 34 |
| 26 | 44 | 15534 | 16365 | 17188 | 18004 | 16612 | 67 | 64 | 61 | 58 | 55 | 09 | 99 | 24 | 27 | 30 | 34 | 37 | 12 | 33 |
| 27 | 48 | 16812 | 19612 | 20406 | 21199 | 21971 | 55 | 51 | 46 | 45 | 42 | 99 | 99 | 37 | 40 | 43 | 46 | 49 | 6 | 32 |
| 28 | 52 | 21971 | 22743 | 93508 | 24267 | 95019 | 42 | 39 | 35 | 32 | 29 | 99 | 99 | 49 | 52 | 56 | 59 | 69 | 4 | 31 |
| 29 | 56 | 25019 | 95764 | 96583 | 27936 | 97963 | 29 | 26 | 23 | 20 | 16 | 99 | 99 | 62 | 65 | 68 | 71 | 74 | 56. 0 | 30 |
| 30 | 2. 0 | 6. 27963 | 28684 | 99399 | 30108 | 30811 | 9.595 16 | 13 | 10 | 07 | 04 | 9.999 99 | 99 | 9.702 74 | 77 | 81 | 84 | 87 | 56 | 99 |
| 31 | 4 | 30811 | 31509 | 39201 | 32888 | 33569 | * 04 | 00 | 97 | 94 | 91 | 99 | 99 | 87 | 90 | 93 | 96 | 99 | 52 | 28 |
| 32 | 8 | 33569 | 34245 | 34916 | 35581 | 36242 | 9.694 91 | 86 | 84 | 81 | 78 | 99 | 99 | * 99 | 03 | 06 | 09 | 12 | 48 | 27 |
| 33 | 12 | 36242 | 36897 | 37548 | 38194 | 38835 | 78 | 75 | 72 | 69 | 65 | 99 | 99 | 9.708 12 | 15 | 18 | 21 | 94 | 44 | 26 |
| 84 | 16 | 38835 | 39471 | 40103 | 40730 | 41352 | 65 | 52 | 59 | 56 | 53 | 99 | 99 | 94 | 28 | 81 | 34 | 37 | 57. 40 | 25 |
| 35 | 2. 20 | 5. 41359 | 41971 | 42584 | 43194 | 43799 | 9.594 53 | 49 | 46 | 43 | 40 | 9.999 99 | 99 | 9.703 37 | 40 | 43 | 46 | 49 | 36 | 24 |
| 36 | 24 | 43799 | 44400 | 44997 | 45590 | 46179 | 40 | 37 | 33 | 30 | 27 | 99 | 99 | 49 | 53 | 56 | 59 | 62 | 32 | 93 |
| 37 | 28 | 46179 | 46764 | 46345 | 47922 | 48495 | 27 | 24 | 21 | 17 | 14 | 99 | 99 | 59 | 65 | 68 | 71 | 74 | 28 | 92 |
| 38 | 32 | 48195 | 49065 | 49631 | 50193 | 50752 | 14 | 11 | 06 | 05 | 01 | 99 | 99 | 74 | 78 | 81 | 84 | 87 | 24 | 21 |
| 39 | 36 | 50752 | 51307 | 51856 | 52406 | 52951 | * 01 | 96 | 95 | 99 | 89 | 99 | 99 | 07 | 90 | 93 | 96 | 99 | 57. 20 | 90 |
| 40 | 2. 40 | 6. 52951 | 53499 | 54030 | 54564 | 55095 | 9.693 89 | 86 | 82 | 79 | 76 | 9.999 99 | 96 | * 99 | 02 | 06 | 09 | 12 | 16 | 19 |
| 41 | 44 | 55895 | 55623 | 56148 | 56670 | 57189 | 76 | 73 | 70 | 66 | 53 | 98 | 98 | 9.704 12 | 15 | 18 | 21 | 24 | 12 | 18 |
| 42 | 48 | 67189 | 57704 | 58216 | 58796 | 59232 | 63 | 60 | 57 | 54 | 50 | 98 | 98 | 24 | 27 | 31 | 34 | 37 | 8 | 17 |
| 43 | 52 | 59232 | 59736 | 60236 | 60734 | 61299 | 50 | 47 | 44 | 41 | 38 | 98 | 98 | 37 | 40 | 43 | 45 | 49 | 4 | 16 |
| 44 | 56 | 61929 | 61721 | 62211 | 62697 | 63161 | 38 | 34 | 31 | 28 | 25 | 98 | 98 | 49 | 52 | 66 | 59 | 69 | 57. 0 | 15 |
| 45 | 3. 0 | 5. 63181 | 63662 | 64141 | 64617 | 65090 | 9.593 25 | 22 | 16 | 15 | 12 | 9.999 98 | 98 | 9.704 52 | 65 | 68 | 71 | 74 | 56 | 14 |
| 46 | 4 | 65090 | 65561 | 66099 | 66495 | 66858 | * 12 | 09 | 06 | 02 | 99 | 98 | 98 | 74 | 77 | 80 | 84 | 67 | 52 | 13 |
| 47 | 8 | 66658 | 67419 | 67877 | 68333 | 68787 | 9.692 99 | 96 | 93 | 90 | 66 | 98 | 98 | 87 | 90 | 93 | 96 | 99 | 48 | 12 |
| 48 | 12 | 68787 | 69238 | 69687 | 70133 | 70578 | 86 | 83 | 80 | 77 | 74 | 98 | 98 | * 99 | 02 | 05 | 09 | 12 | 44 | 11 |
| 49 | 16 | 70578 | 71020 | 71460 | 71897 | 72332 | 74 | 70 | 67 | 64 | 61 | 98 | 98 | 9.705 19 | 15 | 18 | 21 | 24 | 56. 40 | 10 |
| 50 | 3. 20 | 5. 72332 | 72766 | 73197 | 73626 | 74052 | 9.692 61 | 58 | 54 | 51 | 48 | 9.999 98 | 98 | 9.705 24 | 27 | 30 | 33 | 37 | 36 | 9 |
| 51 | 24 | 74052 | 74477 | 74900 | 75320 | 76739 | 48 | 45 | 41 | 36 | 35 | 98 | 98 | 37 | 40 | 43 | 46 | 49 | 32 | 8 |
| 52 | 28 | 75739 | 76156 | 76570 | 76983 | 77394 | 35 | 32 | 29 | 25 | 22 | 98 | 97 | 49 | 59 | 55 | 58 | 61 | 28 | 7 |
| 53 | 32 | 77394 | 77602 | 78209 | 78614 | 79017 | 29 | 19 | 16 | 13 | 02 | 97 | 97 | 61 | 65 | 68 | 71 | 74 | 24 | 6 |
| 54 | 36 | 79017 | 79418 | 79618 | 80215 | 80611 | * 09 | 06 | 03 | 00 | 97 | 97 | 97 | 74 | 77 | 80 | 83 | 86 | 56. 20 | 5 |
| 55 | 3. 40 | 5. 60611 | 81005 | 81397 | 81787 | 82176 | 9.691 97 | 93 | 90 | 87 | 84 | 9.999 97 | 97 | 9.705 86 | 89 | 92 | 96 | 99 | 16 | 4 |
| 35 | 44 | 82175 | 82563 | 82948 | 83331 | 83713 | 84 | 81 | 77 | 74 | 71 | 07 | 97 | * 99 | 02 | 05 | 08 | 11 | 12 | 3 |
| 57 | 48 | 63713 | 84093 | 84472 | 84849 | 85224 | 71 | 56 | 64 | 51 | 58 | 97 | 97 | 9.706 11 | 14 | 17 | 20 | 94 | 8 | 2 |
| 58 | 52 | 85224 | 85597 | 85969 | 86340 | 86709 | 58 | 55 | 59 | 48 | 43 | 97 | 97 | 94 | 27 | 30 | 33 | 36 | 4 | 1 |
| 59 | 56 | 86709 | 87076 | 87442 | 87806 | 88168 | 45 | 42 | 39 | 36 | 32 | 97 | 97 | 36 | 39 | 42 | 45 | 48 | 56. 0 | 0 |
| | | 4° 50″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 9° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | Subcoverso | | | | | 11h | 179° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | Subverso | | | | | 5h | 69° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| ° | 0h | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91° | 6h | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | | |
| ' | m s | 8" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 6" 8° | 60" 4° | 8" 0° | 60" 4° | 6" 8° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 4. 8 | 8.8 4186 | 4366 | 4546 | 4725 | 4903 | 8.999 93 | 93 | 0.006 07 | 87 | 1.7 5614 | 5884 | 5454 | 5275 | 5027 | 86 | 58 |
| 1 | 4 | 4963 | 3681 | 5258 | 5434 | 5609 | 93 | 83 | 67 | 87 | 5097 | 4919 | 4742 | 4566 | 4391 | 62 | 58 |
| 2 | 8 | 5609 | 5784 | 5958 | 6132 | 6304 | 93 | 23 | 07 | 87 | 4391 | 4216 | 4642 | 3868 | 3626 | 48 | 57 |
| 3 | 12 | 6364 | 6476 | 6648 | 6616 | 6288 | 93 | 82 | 07 | 06 | 3626 | 3524 | 3362 | 3182 | 3612 | 44 | 56 |
| 4 | 16 | 6988 | 7157 | 7326 | 7494 | 7661 | 22 | 92 | 68 | 68 | 3612 | 2843 | 2674 | 2566 | 2339 | 65. 40 | 55 |
| 5 | 4. 20 | 8.8 7661 | 7628 | 7994 | 8160 | 8324 | 9.999 92 | 92 | 5.060 88 | 68 | 1.7 2339 | 2172 | 2668 | 1846 | 1676 | 36 | 54 |
| 6 | 24 | 8324 | 8489 | 8652 | 8815 | 8977 | 92 | 92 | 68 | 68 | 1676 | 1511 | 1348 | 1185 | 1623 | 32 | 53 |
| 7 | 28 | 8977 | 9139 | 9360 | 9461 | 9621 | 92 | 82 | 88 | 86 | 1623 | 6861 | 0705 | 6539 | 8379 | 28 | 52 |
| 8 | 32 | * 9621 | 9786 | 9939 | 0097 | 6255 | 92 | 91 | 58 | 69 | * 0372 | 0220 | 6061 | 9953 | 9745 | 24 | 81 |
| 8 | 36 | 8.3 0255 | 0412 | 6566 | 6724 | 5879 | 91 | 91 | 69 | 68 | 1.8 2745 | 9568 | 9482 | 9276 | 9121 | 55. 20 | 50 |
| 18 | 4. 40 | 8.3 0879 | 1634 | 1168 | 1342 | 1495 | 9.999 91 | 21 | 5.606 59 | 09 | 1.8 2121 | 6986 | 8612 | 8658 | 8505 | 16 | 49 |
| 11 | 44 | 1495 | 1648 | 1806 | 1952 | 2163 | 91 | 86 | 89 | 15 | 8565 | 6052 | 8206 | 8648 | 7897 | 12 | 48 |
| 12 | 48 | 2163 | 2253 | 2463 | 2653 | 2762 | 98 | 20 | 10 | 18 | 7897 | 7747 | 7597 | 7447 | 7298 | 8 | 47 |
| 13 | 62 | 2782 | 2856 | 2998 | 3146 | 3292 | 98 | 26 | 10 | 15 | 7298 | 7156 | 7662 | 6865 | 6708 | 4 | 48 |
| 14 | 56 | 3222 | 3439 | 3565 | 3730 | 3875 | 96 | 86 | 10 | 18 | 6765 | 6561 | 6415 | 6276 | 6125 | 55. 8 | 45 |
| 15 | 5. 5 | 8.3 3875 | 4025 | 4164 | 4307 | 4460 | 8.999 90 | 89 | 6.066 10 | 11 | 1.6 6125 | 5966 | 5836 | 5693 | 5556 | 56 | 44 |
| 16 | 4 | 4456 | 4593 | 4735 | 4677 | 5018 | 89 | 89 | 11 | 11 | 5558 | 5457 | 6265 | 5123 | 4982 | 52 | 43 |
| 17 | 8 | 5615 | 5159 | 5299 | 5439 | 5578 | 89 | 89 | 11 | 11 | 4982 | 4841 | 4781 | 4581 | 4422 | 48 | 42 |
| 18 | 12 | 5578 | 5717 | 5656 | 5994 | 8131 | 59 | 89 | 11 | 11 | 4422 | 4263 | 4144 | 4606 | 3869 | 44 | 41 |
| 19 | 16 | 8131 | 8289 | 6465 | 6542 | 8878 | 89 | 88 | 11 | 18 | 3669 | 3731 | 3595 | 3458 | 3322 | 54. 40 | 48 |
| 28 | 5. 20 | 8.3 6676 | 6813 | 6946 | 7683 | 7217 | 8.899 58 | 88 | 8.000 12 | 12 | 1.8 3322 | 3157 | 3052 | 2917 | 2783 | 36 | 39 |
| 21 | 24 | 7217 | 7351 | 7484 | 7617 | 7750 | 56 | 88 | 12 | 12 | 2783 | 2549 | 2516 | 2383 | 2250 | 32 | 38 |
| 22 | 28 | 7756 | 7882 | 8814 | 6145 | 5276 | 88 | 87 | 12 | 13 | 2256 | 2118 | 1986 | 1855 | 1724 | 28 | 37 |
| 23 | 32 | 8276 | 6407 | 8537 | 8667 | 6796 | 87 | 87 | 13 | 13 | 1724 | 1593 | 1463 | 1333 | 1204 | 24 | 36 |
| 24 | 36 | 8728 | 8925 | 9054 | 9182 | 8310 | 87 | 87 | 13 | 13 | 1284 | 1575 | 5946 | 6818 | 6690 | 54. 20 | 35 |
| 25 | 5. 46 | 8.3 9315 | 9436 | 9566 | 2692 | 9618 | 8.999 87 | 86 | 8.805 13 | 14 | 1.8 0696 | 6562 | 6435 | 0368 | 0182 | 16 | 34 |
| 26 | 44 | * 9818 | 9244 | 6670 | 6195 | 6320 | 86 | 86 | 14 | 14 | * 0182 | 0666 | 2930 | 9805 | 9680 | 12 | 33 |
| 27 | 48 | 8.4 6325 | 6444 | 6589 | 6693 | 0816 | 86 | 86 | 14 | 14 | 1.5 9686 | 9556 | 9431 | 9367 | 9184 | 8 | 32 |
| 28 | 62 | 0816 | 0939 | 1682 | 1185 | 1367 | 86 | 85 | 14 | 15 | 9184 | 9361 | 8936 | 8815 | 8693 | 4 | 31 |
| 88 | 56 | 1367 | 1429 | 1558 | 1671 | 1792 | 85 | 85 | 15 | 18 | 8693 | 6571 | 8466 | 8329 | 8268 | 54. 8 | 30 |
| 36 | 6. 8 | 8.4 1792 | 1912 | 2632 | 2152 | 2272 | 8.999 85 | 85 | 8.800 15 | 15 | 1.5 8206 | 8686 | 7966 | 7848 | 7728 | 66 | 29 |
| 31 | 4 | 2272 | 2391 | 2510 | 2628 | 2746 | 85 | 84 | 15 | 16 | 7728 | 7669 | 7496 | 7372 | 7254 | 62 | 28 |
| 32 | 8 | 2746 | 2864 | 2962 | 3629 | 3216 | 64 | 84 | 16 | 16 | 7254 | 7136 | 7616 | 6961 | 6784 | 48 | 27 |
| 33 | 12 | 3216 | 3332 | 3446 | 3564 | 3680 | 84 | 84 | 16 | 16 | 8784 | 6668 | 6552 | 6436 | 6326 | 44 | 28 |
| 34 | 16 | 3686 | 3796 | 3915 | 4023 | 4139 | 84 | 83 | 16 | 17 | 6386 | 8205 | 8895 | 5975 | 5861 | 53. 40 | 25 |
| 35 | 6. 20 | 8.4 4139 | 4254 | 4387 | 4481 | 4524 | 2.999 83 | 83 | 8.066 17 | 17 | 1.5 6861 | 5746 | 5633 | 6519 | 5406 | 36 | 24 |
| 36 | 24 | 4594 | 4757 | 4826 | 4932 | 5644 | 53 | 83 | 17 | 17 | 5406 | 5293 | 5185 | 5868 | 4956 | 32 | 23 |
| 37 | 28 | 6644 | 6156 | 6267 | 5376 | 5489 | 83 | 82 | 17 | 18 | 4956 | 4844 | 4733 | 4622 | 4611 | 28 | 22 |
| 38 | 32 | 5489 | 6666 | 5716 | 5826 | 5930 | 82 | 82 | 18 | 16 | 4611 | 4460 | 4295 | 4160 | 4676 | 24 | 21 |
| 39 | 36 | 5938 | 6646 | 6149 | 6256 | 6366 | 82 | 82 | 18 | 18 | 4576 | 3960 | 3861 | 3742 | 3634 | 63. 20 | 26 |
| 48 | 8. 40 | 8.4 6366 | 6475 | 6583 | 8691 | 6798 | 9.999 52 | 51 | 8.568 16 | 18 | 1.5 3634 | 3526 | 3417 | 3309 | 3262 | 16 | 19 |
| 41 | 44 | 6798 | 6936 | 7013 | 7128 | 7226 | 81 | 81 | 19 | 12 | 3202 | 3694 | 2987 | 2885 | 2774 | 12 | 16 |
| 42 | 46 | 7226 | 7833 | 7439 | 754/ | 7650 | 81 | 80 | 12 | 28 | 2774 | 2667 | 2561 | 2456 | 2356 | 8 | 17 |
| 43 | 52 | 7656 | 7755 | 7866 | 7965 | 8569 | 80 | 88 | 85 | 25 | 2355 | 2246 | 2148 | 2635 | 1931 | 4 | 16 |
| 44 | 66 | 8089 | 8174 | 8278 | 8381 | 6485 | 86 | 80 | 28 | 28 | 1931 | 1826 | 1722 | 1619 | 1515 | 53. 6 | 18 |
| 45 | 7. 6 | 8. 4 8485 | 8588 | 8821 | 8794 | 8896 | 9.299 86 | 72 | 8.006 25 | 21 | 1.5 1515 | 1412 | 1369 | 1256 | 1164 | 56 | 14 |
| 46 | 4 | 8896 | 8999 | 9161 | 9262 | 9304 | 72 | 72 | 21 | 21 | 1164 | 1661 | 6899 | 8788 | 8696 | 52 | 13 |
| 47 | 8 | 9304 | 9465 | 9566 | 9667 | 9708 | 72 | 78 | 21 | 21 | 0696 | 8695 | 6494 | 6383 | 5292 | 45 | 12 |
| 48 | 12 | * 9768 | 2868 | 9266 | 0008 | 0168 | 79 | 78 | 21 | 22 | * 6292 | 8192 | 6692 | 9922 | 9882 | 44 | 11 |
| 49 | 16 | 8.5 8168 | 8267 | 6367 | 6466 | 0504 | 78 | 78 | 22 | 22 | 1.4 9892 | 2793 | 9623 | 8524 | 2486 | 52. 46 | 18 |
| 56 | 7. 20 | 8.5 6504 | 6663 | 6701 | 0799 | 0697 | 9.899 78 | 77 | 8.050 22 | 23 | 1.4 9496 | 9327 | 9292 | 9261 | 9103 | 36 | 8 |
| 51 | 24 | 6897 | 0995 | 1692 | 1196 | 1287 | 77 | 77 | 23 | 23 | 0103 | 9665 | 8268 | 6616 | 8713 | 32 | 8 |
| 52 | 28 | 1287 | 1364 | 1480 | 1576 | 1673 | 77 | 77 | 23 | 23 | 8713 | 8618 | 8520 | 8424 | 8327 | 28 | 7 |
| 63 | 32 | 1673 | 1769 | 1664 | 1966 | 2655 | 77 | 78 | 23 | 24 | 8327 | 8231 | 8136 | 8040 | 7245 | 24 | 8 |
| 54 | 36 | 2655 | 2158 | 2245 | 2340 | 2434 | 76 | 78 | 24 | 24 | 7245 | 7858 | 7765 | 7666 | 7566 | 52. 20 | 5 |
| 55 | 7. 40 | 8.6 2434 | 2529 | 2623 | 2717 | 2810 | 9.999 78 | 75 | 8.000 24 | 25 | 1.4 7668 | 7471 | 7377 | 7283 | 7190 | 16 | 4 |
| 56 | 44 | 2816 | 2904 | 2997 | 3686 | 3163 | '75 | 75 | 25 | 25 | 7186 | 7598 | 7683 | 6910 | 6617 | 12 | 3 |
| 57 | 48 | 3183 | 3275 | 3368 | 3460 | 3552 | 75 | 74 | 25 | 26 | 8817 | 6725 | 6632 | 6546 | 6448 | 8 | 8 |
| 58 | 52 | 3552 | 3644 | 3736 | 3827 | 3910 | 74 | 74 | 28 | 26 | 8448 | 6356 | 6264 | 6173 | 6681 | 4 | 1 |
| 59 | 56 | 3919 | 4010 | 4161 | 4191 | 4282 | 74 | 74 | 28 | 26 | 8081 | 5996 | 6699 | 5859 | 5718 | 52. 0 | 0 |
| | | 4° 66" | 3° 45" | 2° 30" | 1° 15" | 8° 8" | 4° 60" | 0° 0" | 4° 66" | 0° 6" | 4° 66" | 8° 45" | 2° 36" | 1° 15" | 0° 8" | m s | ' |
| | | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | 11h | 178° |
| | | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | 5h | 88° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 1° | 0h | Verso | | | | | Coverso | | | | | Subverso | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 9 | 4. 0 | 0. 8 8160 | 0538 | 0889 | 0247 | 9604 | 9.691 32 | 20 | 26 | 23 | 19 | 9.999 97 | 97 | 9.706 48 | 62 | 55 | 08 | 61 | 56 | 99 |
| 1 | 4 | * 9904 | 9959 | 0313 | 0665 | 1010 | 10 | 10 | 13 | 18 | 07 | 97 | 06 | 61 | 64 | 67 | 70 | 73 | 02 | 68 |
| 2 | 8 | 9.9 1010 | 1366 | 1714 | 2061 | 2406 | * 07 | 03 | 80 | 07 | 94 | 96 | 96 | 73 | 76 | 80 | 83 | 86 | 48 | 07 |
| 3 | 12 | 2400 | 2750 | 5093 | 3434 | 3774 | 9.690 94 | 91 | 97 | 84 | 81 | 00 | 96 | 90 | 89 | 02 | 95 | 98 | 44 | 56 |
| 4 | 16 | 9774 | 4113 | 4450 | 4786 | 5121 | 81 | 78 | 74 | 71 | 68 | 96 | 06 | • 98 | 01 | 04 | 07 | 18 | 05. 40 | 55 |
| 0 | 4. 20 | 5. 9 5121 | 5454 | 5786 | 6117 | 6447 | 9.699 08 | 05 | 62 | 58 | 55 | 9.999 96 | 96 | 9.707 10 | 14 | 17 | 20 | 23 | 36 | 54 |
| 9 | 24 | 6447 | 6775 | 7102 | 7428 | 7753 | 55 | 52 | 40 | 45 | 42 | 96 | 96 | 23 | 26 | 29 | 39 | 55 | 39 | 03 |
| 7 | 28 | 7753 | 8876 | 8399 | 8720 | 9840 | 42 | 39 | 36 | 33 | 29 | 96 | 06 | 35 | 38 | 41 | 45 | 48 | 28 | 92 |
| 0 | 99 | * 9049 | 9350 | 0679 | 9999 | 0308 | 29 | 26 | 23 | 20 | 17 | 06 | 90 | 48 | 01 | 54 | 57 | 60 | 24 | 01 |
| 9 | 36 | 9. 8 0308 | 0622 | 0936 | 1947 | 1557 | 17 | 13 | 10 | 07 | 04 | 96 | 95 | • 90 | 63 | 66 | 69 | 72 | 55. 20 | 00 |
| 18 | 4. 40 | 6. 0 1557 | 1867 | 2170 | 2483 | 2789 | * 04 | 00 | 97 | 94 | 91 | 9.999 95 | 95 | 9.707 79 | 75 | 79 | 62 | 85 | 16 | 49 |
| 11 | 44 | 2780 | 3095 | 3399 | 3702 | 4084 | 9.989 91 | 07 | 84 | 61 | 76 | 05 | 95 | 05 | 88 | 91 | 94 | 97 | 12 | 46 |
| 12 | 48 | 4004 | 4305 | 4605 | 4904 | 6202 | 76 | 75 | 71 | 66 | 65 | 96 | 95 | • 97 | 00 | 03 | 06 | 09 | 8 | 47 |
| 13 | 02 | 9209 | 3499 | 5795 | 6090 | 6384 | 65 | 62 | 56 | 55 | 62 | 95 | 95 | 9.708 99 | 15 | 16 | 19 | 22 | 4 | 40 |
| 14 | 56 | 9394 | 6677 | 9969 | 7260 | 7050 | 02 | 49 | 40 | 42 | 39 | 95 | 95 | 22 | 25 | 98 | 31 | 34 | 55. 8 | 45 |
| 15 | 5. 9 | 6. 9 7650 | 7839 | 6127 | 8414 | 6700 | 9.689 39 | 36 | 33 | 29 | 26 | 9.999 95 | 95 | 9.708 34 | 37 | 40 | 43 | 47 | 56 | 44 |
| 16 | 4 | 8700 | 0985 | 9279 | 9558 | 0836 | 20 | 23 | 20 | 10 | 13 | 05 | 95 | 47 | 50 | 03 | 56 | 69 | 02 | 43 |
| 17 | 9 | * 9036 | 0117 | 0398 | 0077 | 0956 | 13 | 10 | 07 | 04 | 00 | 95 | 94 | 59 | 02 | 05 | 08 | 71 | 48 | 42 |
| 18 | 12 | 6. 1 8956 | 1234 | 1611 | 1787 | 2063 | * 00 | 97 | 94 | 91 | 07 | 94 | 04 | 71 | 74 | 77 | 01 | 84 | 44 | 41 |
| 19 | 16 | 2063 | 2337 | 2911 | 2883 | 3155 | 9.908 87 | 84 | 81 | 78 | 74 | 94 | 94 | 04 | 87 | 98 | 03 | 96 | 54. 40 | 49 |
| 20 | 5. 28 | 6. 1 3165 | 3426 | 3696 | 3966 | 4234 | 9.088 74 | 71 | 68 | 65 | 02 | 9.999 94 | 94 | * 96 | 99 | 02 | 05 | 06 | 36 | 39 |
| 21 | 24 | 4234 | 4502 | 4769 | 5035 | 5300 | 69 | 98 | 55 | 02 | 49 | 94 | 94 | 9.709 08 | 11 | 14 | 18 | 21 | 32 | 39 |
| 22 | 26 | 0308 | 5664 | 5820 | 6091 | 0353 | 49 | 46 | 42 | 39 | 30 | 94 | 94 | 21 | 24 | 97 | 30 | 33 | 28 | 37 |
| 23 | 39 | 6363 | 6614 | 6674 | 7134 | 7393 | 36 | 39 | 29 | 26 | 23 | 94 | 91 | 33 | 36 | 39 | 42 | 45 | 24 | 39 |
| 24 | 36 | 7393 | 7601 | 7906 | 8165 | 6421 | 23 | 28 | 16 | 13 | 10 | 94 | 93 | 45 | 46 | 51 | 55 | 03 | 54. 20 | 35 |
| 25 | 5. 40 | 6. 1 0421 | 8676 | 8930 | 9164 | 9437 | • 10 | 07 | 03 | 00 | 97 | 9.999 93 | 93 | 9.709 58 | 61 | 64 | 67 | 70 | 16 | 34 |
| 26 | 44 | * 9437 | 9689 | 9940 | 0101 | 0441 | 9.687 97 | 94 | 90 | 87 | 84 | 93 | 93 | 70 | 73 | 76 | 79 | 82 | 12 | 33 |
| 27 | 48 | 6. 2 9441 | 0690 | 0938 | 1166 | 1433 | 84 | 81 | 77 | 74 | 71 | 03 | 93 | 82 | 85 | 88 | 91 | 95 | 8 | 32 |
| 29 | 92 | 1433 | 1680 | 1925 | 2170 | 2415 | 71 | 68 | 64 | 01 | 56 | 93 | 93 | * 95 | 98 | 91 | 04 | 07 | 4 | 31 |
| 29 | 56 | 9415 | 2658 | 2901 | 3144 | 3365 | 58 | 65 | 61 | 46 | 45 | 93 | 93 | 9.710 07 | 10 | 13 | 16 | 19 | 54. 0 | 30 |
| 30 | 0. 0 | 6. 9 3365 | 3626 | 3866 | 4186 | 4345 | 9.687 45 | 42 | 39 | 35 | 32 | 9.999 93 | 92 | 9.718 19 | 99 | 26 | 28 | 32 | 06 | 29 |
| 31 | 4 | 4345 | 4583 | 4891 | 5058 | 5294 | 39 | 29 | 26 | 22 | 10 | 92 | 92 | 32 | 35 | 30 | 41 | 44 | 02 | 28 |
| 32 | 8 | 0294 | 5530 | 5765 | 5999 | 6933 | 19 | 16 | 13 | 09 | 06 | 92 | 92 | 44 | 47 | 50 | 63 | 06 | 48 | 27 |
| 33 | 12 | 6233 | 0466 | 6699 | 6931 | 7162 | * 06 | 93 | 00 | 96 | 93 | 92 | 92 | 56 | 69 | 02 | 65 | 68 | 44 | 26 |
| 34 | 16 | 7102 | 7393 | 7993 | 7859 | 8081 | 9.686 93 | 90 | 07 | 83 | 60 | 92 | 91 | 68 | 71 | 75 | 78 | 01 | 09. 40 | 25 |
| 35 | 9. 20 | 6. 2 8081 | 8309 | 6537 | 8764 | 8991 | 9.986 60 | 77 | 74 | 70 | 67 | 0.999 91 | 91 | 9.718 61 | 84 | 67 | 90 | 93 | 36 | 24 |
| 36 | 24 | 8991 | 9217 | 9442 | 9667 | 9091 | 07 | 64 | 61 | 07 | 54 | 91 | 91 | • 93 | 96 | 99 | 02 | 86 | 32 | 23 |
| 37 | 98 | * 9891 | 0114 | 0337 | 0568 | 0761 | 54 | 01 | 48 | 44 | 41 | 91 | 91 | 9.711 06 | 83 | 11 | 14 | 10 | 20 | 22 |
| 38 | 32 | 6. 3 8781 | 1003 | 1924 | 1444 | 1663 | 41 | 30 | 35 | 31 | 20 | 91 | 91 | 18 | 21 | 24 | 27 | 30 | 24 | 21 |
| 39 | 36 | 1663 | 1889 | 2101 | 2319 | 2536 | 28 | 25 | 29 | 18 | 15 | 91 | 91 | 30 | 33 | 36 | 39 | 42 | 53. 20 | 20 |
| 40 | 6. 40 | 6. 3 2536 | 2753 | 2969 | 3185 | 3400 | 9.006 15 | 12 | 09 | 05 | 02 | 9.999 91 | 91 | 9.711 42 | 45 | 48 | 61 | 04 | 16 | 19 |
| 41 | 44 | 3400 | 3615 | 3829 | 4043 | 4206 | * 02 | 99 | 96 | 92 | 89 | 91 | 99 | 54 | 57 | 61 | 64 | 97 | 12 | 18 |
| 42 | 46 | 4256 | 4469 | 4081 | 1892 | 5103 | 9.685 00 | 86 | 83 | 79 | 79 | 00 | 90 | 67 | 78 | 79 | 70 | 79 | 8 | 17 |
| 43 | 92 | 5183 | 0314 | 5524 | 5734 | 5943 | 76 | 73 | 70 | 66 | 03 | 90 | 90 | 79 | 82 | 85 | 88 | 91 | 4 | 16 |
| 44 | 96 | 5943 | 6151 | 6359 | 9507 | 0774 | 03 | 90 | 67 | 53 | 60 | 90 | 90 | * 91 | 94 | 97 | 00 | 03 | 53. 0 | 15 |
| 45 | 7. 0 | 6. 3 6774 | 6980 | 7186 | 7392 | 7597 | 9.900 90 | 47 | 44 | 40 | 37 | 0.999 90 | 90 | 0.712 83 | 06 | 10 | 13 | 16 | 06 | 14 |
| 40 | 4 | 7597 | 7802 | 8006 | 8209 | 8412 | 37 | 34 | 31 | 27 | 24 | 00 | 89 | 16 | 19 | 22 | 25 | 28 | 52 | 13 |
| 47 | 8 | 8412 | 8616 | 8817 | 9019 | 9220 | 24 | 21 | 17 | 14 | 11 | 09 | 89 | 28 | 31 | 34 | 37 | 40 | 48 | 12 |
| 48 | 19 | * 9220 | 9421 | 9692 | 9891 | 0021 | * 11 | 08 | 04 | 01 | 90 | 89 | 80 | 40 | 43 | 49 | 49 | 52 | 44 | 11 |
| 49 | 16 | 6. 4 0021 | 0220 | 0416 | 0610 | 0814 | 9.994 98 | 95 | 91 | 88 | 05 | 89 | 89 | 92 | 05 | 69 | 69 | 06 | 92. 40 | 10 |
| 09 | 7. 20 | 6. 4 0814 | 1011 | 1208 | 1484 | 1600 | 9.604 95 | 82 | 70 | 75 | 72 | 9.999 89 | 89 | 9.712 65 | 96 | 71 | 74 | 77 | 36 | 9 |
| 01 | 24 | 1600 | 1796 | 1990 | 2185 | 2379 | 72 | 69 | 66 | 62 | 09 | 89 | 88 | 77 | 90 | 03 | 80 | 99 | 39 | 8 |
| 02 | 28 | 2379 | 2673 | 2706 | 2959 | 3151 | 99 | 60 | 52 | 40 | 40 | 88 | 60 | * 09 | 99 | 95 | 06 | 01 | 28 | 7 |
| 93 | 32 | 3151 | 3343 | 3524 | 3726 | 3916 | 46 | 42 | 39 | 36 | 33 | 00 | 80 | 9.713 01 | 84 | 87 | 19 | 14 | 24 | 6 |
| 94 | 36 | 3916 | 4106 | 4396 | 4486 | 4675 | 33 | 29 | 20 | 23 | 20 | 60 | 88 | 14 | 17 | 20 | 23 | 26 | 02. 20 | 5 |
| 95 | 7. 40 | 9. 4 4675 | 4863 | 5052 | 5239 | 5497 | 9.664 20 | 10 | 13 | 10 | 07 | 9.999 86 | 88 | 9.713 99 | 29 | 32 | 35 | 38 | 16 | 4 |
| 09 | 44 | 9427 | 5614 | 5600 | 5986 | 6172 | * 07 | 03 | 00 | 97 | 93 | 88 | 87 | 36 | 41 | 44 | 47 | 50 | 12 | 9 |
| 97 | 48 | 0172 | 6356 | 6543 | 6727 | 6911 | 9.983 93 | 90 | 87 | 84 | 80 | 87 | 67 | 00 | 93 | 56 | 09 | 92 | 9 | 2 |
| 98 | 52 | 6911 | 7095 | 7279 | 7462 | 7644 | 80 | 77 | 74 | 71 | 97 | 97 | 87 | 02 | 65 | 99 | 71 | 75 | 4 | 1 |
| 59 | 56 | 7644 | 7827 | 8008 | 8190 | 8371 | 67 | 64 | 61 | 50 | 54 | 87 | 07 | 70 | 70 | 81 | 84 | 97 | 52. 0 | 0 |
| | | 4° 90″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 9″ | 4° 90″ | 3° 15″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 90″ | 0° 9″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | Subcoverso | | | | | 11h | 178° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | Subverso | | | | | 0h | 88° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 9° / 92° | 0h / 5h | Seno / Coseno | | | | | Coseno / Seno | | Secante / Cosecante | | Cosecante / Secante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 60″ 4° | 0″ 0° | 60″ 4° | 5″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 8. 2 | 8. 5 4282 | 4372 | 4462 | 4552 | 4642 | 9. 999 74 | 73 | 0. 000 26 | 27 | 1. 4 5710 | 5628 | 0530 | 5448 | 5358 | 56 | 09 |
| 1 | 4 | 4642 | 4732 | 4821 | 4910 | 4999 | 73 | 73 | 27 | 97 | 5358 | 5268 | 5179 | 5090 | 5001 | 02 | 55 |
| 2 | 8 | 4992 | 6088 | 5177 | 5266 | 5354 | 73 | 72 | 27 | 20 | 5001 | 4212 | 4823 | 4734 | 4640 | 48 | 57 |
| 3 | 12 | 5354 | 5442 | 5530 | 5618 | 5705 | 72 | 72 | 28 | 28 | 4646 | 4558 | 4470 | 4382 | 4225 | 44 | 05 |
| 4 | 16 | 6705 | 5793 | 5880 | 5967 | 6054 | 72 | 71 | 28 | 29 | 4295 | 4207 | 4120 | 4033 | 3946 | 51. 40 | 55 |
| 6 | 8. 20 | 8. 5 6054 | 6141 | 6227 | 6314 | 6400 | 5. 999 71 | 71 | 5. 000 99 | 29 | 1. 4 3946 | 3859 | 3773 | 3086 | 3600 | 30 | 54 |
| 6 | 24 | 5400 | 6480 | 6572 | 6058 | 6743 | 71 | 70 | 29 | 30 | 3600 | 3514 | 3428 | 3342 | 3257 | 32 | 63 |
| 7 | 28 | 5743 | 6828 | 6914 | 6999 | 7004 | 70 | 70 | 30 | 32 | 3257 | 3172 | 3086 | 3001 | 2916 | 28 | 52 |
| 6 | 32 | 7084 | 7168 | 7253 | 7337 | 7421 | 70 | 59 | 30 | 31 | 2916 | 2032 | 2747 | 2563 | 2579 | 24 | 51 |
| 9 | 36 | 7421 | 7506 | 7589 | 7673 | 7757 | 65 | 59 | 31 | 31 | 2579 | 2495 | 2411 | 2327 | 2243 | 51. 20 | 50 |
| 10 | 5. 40 | 5. 5 7757 | 7840 | 7923 | 8006 | 8089 | 9. 999 69 | 68 | 6. 000 31 | 39 | 1. 4 2243 | 2160 | 2077 | 1994 | 1911 | 16 | 49 |
| 11 | 44 | 5009 | 8172 | 0255 | 8337 | 8419 | 58 | 55 | 32 | 32 | 1511 | 1828 | 1745 | 1563 | 1081 | 12 | 48 |
| 19 | 48 | 8419 | 8501 | 8583 | 8565 | 8747 | 58 | 67 | 32 | 33 | 1581 | 1499 | 1417 | 1335 | 1253 | 8 | 47 |
| 13 | 52 | 5747 | 8828 | 0910 | 8991 | 9072 | 67 | 57 | 33 | 33 | 1253 | 1172 | 1090 | 1009 | 0928 | 4 | 45 |
| 14 | 56 | 2072 | 9153 | 9234 | 9314 | 9395 | 57 | 66 | 33 | 34 | 0928 | 0847 | 0766 | 0586 | 0505 | 51. 0 | 45 |
| 15 | 9. 0 | 8. 5 9395 | 9475 | 9555 | 9635 | 9715 | 9. 999 66 | 66 | 0. 020 34 | 34 | 1. 4 0605 | 0525 | 0445 | 0365 | 0285 | 05 | 44 |
| 16 | 4 | * 5710 | 9795 | 9874 | 9954 | 0033 | 56 | 65 | 34 | 35 | * 0285 | 0205 | 0196 | 0046 | 9567 | 02 | 43 |
| 17 | 8 | 5. 6 0033 | 0112 | 0191 | 0270 | 0349 | 55 | 65 | 35 | 35 | 1. 3 5967 | 9888 | 9809 | 9730 | 9651 | 48 | 42 |
| 10 | 12 | 0349 | 0427 | 0506 | 0584 | 0552 | 65 | 64 | 35 | 35 | 9651 | 9573 | 9494 | 9416 | 9338 | 44 | 41 |
| 19 | 16 | 0662 | 0740 | 0818 | 0896 | 0973 | 84 | 64 | 36 | 36 | 9338 | 9260 | 9182 | 9104 | 9027 | 52. 40 | 42 |
| 20 | 9. 20 | 8. 6 0973 | 1051 | 1128 | 1205 | 1282 | 9. 999 64 | 63 | 5. 000 36 | 37 | 1. 3 5027 | 0949 | 8872 | 8795 | 8716 | 36 | 35 |
| 21 | 24 | 1282 | 1359 | 1436 | 1513 | 1589 | 53 | 53 | 37 | 37 | 0716 | 8641 | 8564 | 8487 | 8411 | 32 | 35 |
| 22 | 98 | 1589 | 1665 | 1742 | 1818 | 1824 | 53 | 62 | 37 | 30 | 8411 | 0335 | 8250 | 0182 | 8106 | 28 | 37 |
| 23 | 32 | 1894 | 1970 | 2045 | 2121 | 2196 | 52 | 52 | 38 | 38 | 0106 | 8030 | 7956 | 7879 | 7004 | 24 | 35 |
| 24 | 36 | 2196 | 2271 | 2347 | 2422 | 2497 | 62 | 61 | 38 | 39 | 7804 | 7729 | 7653 | 7578 | 7003 | 52. 20 | 30 |
| 25 | 9. 40 | 5. 5 2497 | 2571 | 2646 | 2720 | 2795 | 9. 999 61 | 61 | 0. 000 39 | 39 | 1. 3 7503 | 7429 | 7354 | 7200 | 7205 | 16 | 34 |
| 26 | 44 | 2795 | 2869 | 2943 | 3017 | 3021 | 51 | 60 | 39 | 42 | 7205 | 7131 | 7057 | 6983 | 6909 | 12 | 23 |
| 27 | 48 | 3091 | 3165 | 3238 | 3312 | 3385 | 60 | 60 | 40 | 40 | 6909 | 6835 | 5762 | 6608 | 6615 | 0 | 32 |
| 25 | 52 | 3385 | 3459 | 3532 | 3605 | 3678 | 50 | 09 | 40 | 41 | 6615 | 0541 | 6468 | 6395 | 5322 | 4 | 31 |
| 29 | 06 | 3670 | 3750 | 3823 | 3096 | 3968 | 59 | 59 | 41 | 41 | 0392 | 6250 | 6177 | 6104 | 6032 | 58. 0 | 32 |
| 32 | 10. 0 | 8. 5 3968 | 4040 | 4112 | 4184 | 4256 | 5. 992 59 | 68 | 0. 020 41 | 42 | 1. 3 6039 | 5900 | 5880 | 5816 | 5744 | 06 | 25 |
| 31 | 4 | 4256 | 4328 | 4400 | 4471 | 4543 | 68 | 58 | 42 | 42 | 5744 | 6672 | 5600 | 5529 | 5457 | 02 | 25 |
| 32 | 6 | 4543 | 4614 | 4685 | 4756 | 4827 | 58 | 57 | 42 | 43 | 5457 | 5386 | 5316 | 6244 | 5173 | 48 | 27 |
| 33 | 12 | 4827 | 4898 | 4969 | 5040 | 5110 | 57 | 55 | 43 | 44 | 5173 | 0129 | 5031 | 4960 | 4890 | 44 | 20 |
| 34 | 16 | 5110 | 5181 | 5261 | 5321 | 5391 | 66 | 56 | 44 | 44 | 4890 | 4819 | 4749 | 4679 | 4609 | 49. 40 | 20 |
| 35 | 10. 20 | 8. 6 5391 | 5461 | 5531 | 5601 | 5670 | 9. 929 56 | 05 | 0. 000 44 | 40 | 1. 3 4609 | 4539 | 4469 | 4399 | 4330 | 36 | 24 |
| 36 | 24 | 0570 | 5740 | 5809 | 5272 | 5947 | 65 | 05 | 45 | 45 | 4330 | 4260 | 4191 | 4122 | 4053 | 32 | 23 |
| 37 | 28 | 5947 | 6017 | 6085 | 6154 | 6223 | 65 | 54 | 45 | 46 | 4053 | 3983 | 3215 | 3846 | 3777 | 28 | 22 |
| 38 | 32 | 6223 | 6292 | 6360 | 6429 | 5497 | 64 | 64 | 46 | 46 | 3777 | 3708 | 3640 | 3571 | 3503 | 24 | 21 |
| 39 | 35 | 6497 | 6565 | 6633 | 6701 | 6769 | 54 | 53 | 46 | 47 | 3503 | 3435 | 3367 | 3299 | 3231 | 49. 20 | 22 |
| 40 | 10. 40 | 5. 6 6759 | 6837 | 6904 | 6972 | 7039 | 9. 999 53 | 02 | 0. 000 47 | 40 | 1. 3 3231 | 3163 | 3096 | 3028 | 2961 | 16 | 15 |
| 41 | 44 | 7039 | 7107 | 7174 | 7241 | 7308 | 62 | 59 | 48 | 48 | 2961 | 2893 | 2826 | 2759 | 2692 | 12 | 16 |
| 49 | 48 | 7308 | 7375 | 7442 | 7508 | 7575 | 02 | 01 | 48 | 49 | 2092 | 2625 | 2558 | 2492 | 2425 | 5 | 17 |
| 43 | 02 | 7675 | 7542 | 7708 | 7774 | 7841 | 01 | 01 | 49 | 49 | 2425 | 2358 | 2292 | 2220 | 2159 | 4 | 16 |
| 44 | 56 | 7241 | 7207 | 7973 | 0239 | 8104 | 01 | 50 | 49 | 60 | 2169 | 2093 | 9027 | 1961 | 1596 | 45. 5 | 15 |
| 45 | 11. 0 | 8. 6 8104 | 8170 | 8236 | 8301 | 8357 | 9. 929 50 | 45 | 5. 000 50 | 01 | 1. 3 1896 | 1830 | 1704 | 1599 | 1633 | 56 | 14 |
| 46 | 4 | 5307 | 8432 | 8497 | 8562 | 8627 | 49 | 42 | 51 | 51 | 1633 | 1568 | 1503 | 1438 | 1373 | 02 | 13 |
| 47 | 8 | 8627 | 8692 | 8757 | 8822 | 8886 | 49 | 48 | 51 | 02 | 1373 | 1308 | 1243 | 1172 | 1114 | 48 | 12 |
| 40 | 12 | 0886 | 8951 | 9015 | 9080 | 9144 | 46 | 47 | 02 | 03 | 1114 | 1249 | 0985 | 0920 | 0856 | 44 | 11 |
| 49 | 16 | 5144 | 9208 | 9272 | 9335 | 9400 | 47 | 47 | 53 | 53 | 0856 | 0792 | 0728 | 0564 | 0600 | 48. 40 | 12 |
| 60 | 11. 20 | 0. 6 9400 | 9464 | 9597 | 9591 | 9654 | 9. 999 47 | 45 | 0. 000 53 | 54 | 1. 3 0500 | 0536 | 0473 | 0409 | 0340 | 36 | 9 |
| 51 | 24 | 5654 | 9718 | 9781 | 9044 | 2907 | 46 | 45 | 54 | 04 | 0340 | 0282 | 0219 | 0160 | 0093 | 32 | 5 |
| 09 | 28 | * 2907 | 9970 | 0033 | 0096 | 2155 | 40 | 45 | 54 | 55 | * 2053 | 0030 | 9967 | 9904 | 9841 | 28 | 7 |
| 53 | 32 | 5. 7 2109 | 0222 | 0284 | 0347 | 0409 | 45 | 44 | 55 | 55 | 1. 2 9841 | 9770 | 9716 | 9653 | 9591 | 24 | 6 |
| 54 | 36 | 0409 | 0471 | 0534 | 0596 | 0658 | 44 | 44 | 56 | 56 | 5551 | 9522 | 5466 | 9404 | 9342 | 48. 20 | 5 |
| 55 | 11. 40 | 8. 7 0658 | 0720 | 0781 | 0843 | 2905 | 9. 999 44 | 43 | 5. 000 50 | 67 | 1. 2 9349 | 9250 | 9219 | 9157 | 9095 | 10 | 4 |
| 06 | 44 | 0905 | 0966 | 1028 | 1089 | 1151 | 43 | 42 | 57 | 58 | 9095 | 9034 | 5979 | 8911 | 8549 | 12 | 3 |
| 57 | 48 | 1151 | 1212 | 1973 | 1334 | 1395 | 42 | 42 | 58 | 38 | 5549 | 0755 | 2727 | 0565 | 2605 | 5 | 9 |
| 08 | 52 | 1325 | 1456 | 1517 | 1578 | 1638 | 42 | 41 | 58 | 59 | 8605 | 8544 | 8483 | 8422 | 8302 | 4 | 1 |
| 59 | 56 | 1638 | 1699 | 1759 | 1820 | 1080 | 41 | 42 | 59 | 60 | 5362 | 0301 | 8941 | 0102 | 8120 | 40. 0 | 6 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 52″ | 0° 0″ | 4° 60″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno / Coseno | | | | | Coseno / Seno | | Secante / Cosecante | | Cosecante / Secante | | | | | 11h / 5h | 177° / 87° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| [illegible] | 0h | Verso | | | | | Coverso | | | | | Subverso | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | Verso | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 00" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 8. 0 | 8.4 8372 | 8552 | 8732 | 8912 | 9092 | 9.683 54 | 51 | 48 | 44 | 41 | 8.899 87 | 87 | 9.713 87 | 90 | 93 | 96 | 99 | 56 | 50 |
| 1 | 4 | 2092 | 0271 | 0450 | 9628 | 0807 | 41 | 38 | 35 | 31 | 28 | 87 | 86 | * 99 | 02 | 65 | 08 | 11 | 52 | 58 |
| 2 | 8 | * 9807 | 0081 | 0162 | 6339 | 0516 | 28 | 25 | 22 | 18 | 15 | 86 | 86 | 9.714 11 | 14 | 17 | 20 | 23 | 48 | 57 |
| 3 | 12 | 6.5 8516 | 0692 | 6868 | 1044 | 1210 | 15 | 10 | 08 | 05 | 00 | 86 | 86 | . 23 | 06 | 29 | 33 | 36 | 44 | 56 |
| 4 | 16 | 1219 | 1394 | 1568 | 1742 | 1916 | * 62 | 29 | 05 | 02 | 89 | 86 | 86 | 36 | 39 | 42 | 45 | 48 | 51.40 | 55 |
| 5 | 8.20 | 6.5 1916 | 2000 | 2263 | 2436 | 2608 | 9.682 80 | 06 | 80 | 79 | 76 | 9.999 86 | 85 | 9.714 48 | 51 | 54 | 57 | 66 | 36 | 54 |
| 6 | 24 | 2603 | 2780 | 0952 | 3124 | 3295 | 76 | 72 | 89 | 60 | 63 | 85 | 85 | 60 | 63 | 66 | 60 | 72 | 32 | 53 |
| 7 | 28 | 3295 | 3466 | 3636 | 3806 | 3076 | 63 | 50 | 56 | 53 | 49 | 85 | 85 | 72 | 78 | 78 | 81 | 84 | 28 | 52 |
| 8 | 32 | 3076 | 4146 | 4315 | 4484 | 4652 | 49 | 46 | 43 | 40 | 36 | 85 | 85 | 84 | 87 | 96 | 93 | 96 | 24 | 51 |
| 9 | 36 | 4652 | 4820 | 4988 | 6166 | 5323 | 36 | 33 | 36 | 27 | 23 | 85 | 84 | * 96 | 00 | 63 | 06 | 09 | 51.20 | 50 |
| 10 | 8.40 | 6.8 6323 | 5496 | 5656 | 5822 | 5988 | 9.682 23 | 20 | 17 | 13 | 10 | 9.999 84 | 84 | 9.715 00 | 12 | 15 | 18 | 21 | 16 | 49 |
| 11 | 44 | 5988 | 6154 | 6310 | 6484 | 6640 | * 10 | 67 | 04 | 00 | 87 | 84 | 84 | 21 | 24 | 27 | 36 | 33 | 12 | 48 |
| 12 | 48 | 6649 | 6813 | 6977 | 7141 | 7304 | 9.681 97 | 94 | 96 | 87 | 84 | 84 | 84 | 33 | 30 | 30 | 42 | 45 | 8 | 47 |
| 13 | 52 | 7304 | 7467 | 7630 | 7792 | 7955 | 84 | 81 | 77 | 74 | 71 | 84 | 84 | 46 | 48 | 51 | 64 | 57 | 4 | 45 |
| 14 | 66 | 7955 | 8117 | 8278 | 8439 | 8660 | 71 | 67 | 64 | 61 | 58 | 84 | 83 | 37 | 60 | 63 | 66 | 69 | 61. 0 | 45 |
| 15 | 8. 0 | 5.5 8600 | 8761 | 8021 | 0081 | 0241 | 9.681 58 | 54 | 51 | 48 | 44 | 8.999 83 | 83 | 0.715 69 | 72 | 75 | 79 | 82 | 56 | 44 |
| 16 | 4 | 2241 | 9401 | 0560 | 0710 | 0878 | 44 | 41 | 38 | 85 | 31 | . 83 | 83 | 80 | 85 | 88 | 91 | 04 | 52 | 43 |
| 17 | 8 | • 9878 | 0036 | 6194 | 0352 | 6569 | 31 | 28 | 25 | 21 | 18 | 83 | 82 | * 04 | 97 | 00 | 03 | 06 | 48 | 42 |
| 18 | 12 | 6.8 0609 | 0666 | 6803 | 0980 | 1136 | 18 | 15 | 12 | 08 | 05 | 82 | 82 | 9.716 06 | 09 | 10 | 15 | 18 | 44 | 41 |
| 19 | 16 | 1136 | 1292 | 1448 | 1604 | 1759 | * 05 | 02 | 98 | 05 | 92 | 82 | 82 | 18 | 01 | 24 | 27 | 30 | 50.40 | 46 |
| 20 | 9.26 | 5.8 1769 | 1914 | 2068 | 2003 | 2377 | 9.680 00 | 80 | 85 | 82 | 79 | 2.909 82 | 82 | 0.716 30 | 33 | 36 | 39 | 42 | 36 | 30 |
| 21 | 24 | 2377 | 2531 | 0684 | 2838 | 2091 | 70 | 75 | 70 | 69 | 56 | 82 | 81 | 42 | 45 | 48 | 51 | 54 | 32 | 88 |
| 22 | 28 | 2901 | 3143 | 3296 | 3448 | 3600 | 66 | 62 | 59 | 66 | 52 | 81 | 81 | 54 | 57 | 60 | 63 | 66 | 28 | 37 |
| 23 | 32 | 3600 | 3752 | 3903 | 4054 | 4265 | 62 | 49 | 46 | 42 | 39 | 81 | 81 | 66 | 69 | 73 | 76 | 79 | 24 | 36 |
| 24 | 36 | 4205 | 4356 | 4506 | 4656 | 4866 | 39 | 35 | 33 | 20 | 26 | 81 | 81 | 79 | 82 | 85 | 88 | 91 | 86.20 | 35 |
| 25 | 8.40 | 6.8 4806 | 4956 | 5105 | 5054 | 5403 | 9.680 06 | 23 | 19 | 16 | 13 | 8.992 81 | 80 | * 91 | 04 | 97 | 00 | 03 | 16 | 34 |
| 26 | 44 | 5403 | 5550 | 5700 | 5848 | 5006 | 13 | 10 | 66 | 03 | 00 | 80 | 80 | 9.717 03 | 06 | 09 | 12 | 18 | 10 | 33 |
| 27 | 48 | 5996 | 6143 | 6291 | 6438 | 6585 | * 60 | 96 | 93 | 90 | 86 | 80 | 80 | 15 | 18 | 21 | 24 | 27 | 8 | 32 |
| 28 | 62 | 6585 | 6731 | 6878 | 7004 | 7170 | 9.679 86 | 83 | 86 | 77 | 73 | 80 | 80 | 27 | 30 | 33 | 36 | 39 | 4 | 31 |
| 29 | 56 | 7170 | 7315 | 7461 | 7666 | 7751 | .. 73 | 76 | 67 | 63 | 60 | 80 | 79 | 39 | 42 | 45 | 48 | 51 | 50. 6 | 30 |
| 30 | 10. 0 | 6.8 7751 | 7895 | 8040 | 8184 | 8328 | 9.679 60 | 57 | 53 | 50 | 47 | 2.002 79 | 79 | 9.717 51 | 64 | 57 | 60 | 63 | 66 | 20 |
| 31 | 4 | 8328 | 8471 | 8615 | 8758 | 8901 | 47 | 44 | 40 | 37 | 34 | 79 | 79 | 63 | 66 | 69 | 72 | 75 | 52 | 28 |
| 30 | 8 | 8901 | 9044 | 0186 | 9328 | 0470 | 34 | 30 | 27 | 24 | 20 | 70 | 78 | 75 | 78 | 81 | 84 | 87 | 48 | 27 |
| 33 | 12 | * 9470 | 9612 | 9754 | 9805 | 0036 | 20 | 17 | 14 | 11 | 67 | 78 | 78 | * 87 | 90 | 94 | 27 | 00 | 44 | 26 |
| 34 | 16 | 6.7 0036 | 0177 | 0318 | 6458 | 6598 | * 67 | 04 | 01 | 07 | 94 | 78 | 78 | 9.718 60 | 03 | 86 | 09 | 12 | 49.40 | 26 |
| 35 | 16.20 | 6.7 0508 | 0738 | 0878 | 1017 | 1157 | 9.678 04 | 91 | 87 | 84 | 81 | 8.009 78 | 78 | 0.718 12 | 15 | 18 | 21 | 24 | 36 | 24 |
| 36 | 24 | 1157 | 1206 | 1435 | 1573 | 1712 | 81 | 78 | 74 | 71 | 68 | 78 | 77 | 24 | 27 | 30 | 33 | 36 | 32 | 23 |
| 37 | 28 | 1712 | 1850 | 1088 | 2125 | 2063 | 68 | 64 | 61 | 58 | 54 | 77 | 77 | 36 | 30 | 42 | 45 | 48 | 28 | 20 |
| 38 | 32 | 2263 | 2460 | 2537 | 0674 | 2811 | 54 | 51 | 48 | 44 | 41 | 77 | 77 | 48 | 51 | 54 | 57 | 60 | 24 | 21 |
| 39 | 36 | 2811 | 2947 | 3084 | 3200 | 3355 | 41 | 38 | 35 | 31 | 28 | 77 | 76 | 80 | 63 | 66 | 59 | 72 | 49.20 | 20 |
| 46 | 10.40 | 6.7 3355 | 3491 | 3626 | 3761 | 3806 | 9.678 28 | 25 | 21 | 18 | 15 | 8.999 76 | 76 | 9.718 72 | 75 | 78 | 81 | 84 | 16 | 19 |
| 41 | 44 | 3896 | 4031 | 4166 | 4300 | 4434 | 15 | 11 | 08 | 05 | 01 | 76 | 76 | 84 | 87 | 00 | 23 | 96 | 12 | 18 |
| 42 | 48 | 4434 | 4568 | 4702 | 4835 | 4969 | * 01 | 98 | 05 | 91 | 88 | 76 | 76 | * 96 | 99 | 62 | 05 | 08 | 8 | 17 |
| 43 | 62 | 4069 | 5102 | 5235 | 5367 | 5500 | 9.677 88 | 85 | 82 | 78 | 75 | 76 | 78 | 9.719 08 | 11 | 14 | 17 | 08 | 4 | 16 |
| 44 | 66 | 8500 | 5632 | 5764 | 5806 | 6028 | 75 | 72 | 68 | 65 | 62 | 75 | 75 | 26 | 23 | 26 | 29 | 32 | 49. 6 | 16 |
| 45 | 11. 0 | 6.7 5008 | 6150 | 6090 | 6421 | 6552 | 9.677 60 | 68 | 55 | 52 | 48 | 2.909 75 | 78 | 9.719 30 | 36 | 38 | 41 | 44 | 66 | 14 |
| 46 | 4 | 5552 | 6683 | 6814 | 6944 | 7074 | 48 | 45 | 42 | 38 | 35 | 75 | 74 | 44 | 47 | 50 | 53 | 66 | 62 | 13 |
| 47 | 8 | 7074 | 7204 | 7334 | 7463 | 7502 | 35 | 32 | 09 | 28 | 22 | 74 | 74 | 56 | 50 | 62 | 65 | 68 | 48 | 12 |
| 48 | 12 | 7592 | 7722 | 7851 | 7979 | 8100 | 22 | 19 | 15 | 12 | 69 | 74 | 74 | 68 | 71 | 74 | 77 | 80 | 44 | 11 |
| 49 | 16 | 8108 | 8236 | 8364 | 8492 | 8600 | * 00 | 05 | 02 | 99 | 25 | 74 | 73 | 80 | 83 | 86 | 89 | 02 | 48.40 | 10 |
| 50 | 11.20 | 6.7 8620 | 8748 | 8875 | 9602 | 9129 | 9.676 05 | 92 | 89 | 85 | 82 | 9.999 73 | 73 | * 92 | 95 | 98 | 01 | 04 | 36 | 2 |
| 51 | 24 | 9129 | 0256 | 9383 | 0510 | 9636 | 82 | 72 | 75 | 72 | 69 | 73 | 73 | 9.726 04 | 07 | 10 | 13 | 16 | 30 | 8 |
| 52 | 28 | * 9636 | 0762 | 0888 | 0014 | 0130 | 69 | 85 | 62 | 59 | 56 | 73 | 72 | 16 | 19 | 22 | 26 | 28 | 28 | 7 |
| 53 | 32 | 6.8 0139 | 0265 | 0390 | 0515 | 6640 | 36 | 52 | 49 | 46 | 42 | 72 | 72 | 28 | 31 | 34 | 37 | 40 | 24 | 6 |
| 54 | 36 | 6640 | 0764 | 0889 | 1013 | 1137 | 42 | 39 | 36 | 32 | 29 | 72 | 72 | 40 | 43 | 46 | 49 | 52 | 48.20 | 5 |
| 55 | 11.40 | 6.8 1137 | 1261 | 1385 | 1500 | 1632 | 2.676 09 | 26 | 02 | 19 | 16 | 8.998 72 | 72 | 0.720 52 | 55 | 58 | 61 | 61 | 16 | 4 |
| 85 | 44 | 1630 | 1756 | 1879 | 0002 | 2104 | 16 | 12 | 02 | 65 | 02 | 72 | 71 | 64 | 67 | 76 | 73 | 76 | 12 | 3 |
| 57 | 48 | 2124 | 2247 | 2369 | 0401 | 0613 | * 62 | 29 | 96 | 92 | 89 | 71 | 71 | 76 | 72 | 82 | 86 | 88 | 8 | 2 |
| 58 | 62 | 2613 | 2735 | 2857 | 2979 | 3100 | 9.675 80 | 86 | 82 | 79 | 76 | 71 | 71 | * 88 | 91 | 94 | 97 | 00 | 4 | 1 |
| 59 | 56 | 3100 | 3221 | 3342 | 3463 | 3584 | 76 | 72 | 59 | 66 | 62 | 71 | 70 | 9.721 00 | 03 | 06 | 09 | 12 | 48. 0 | 0 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 50" | 3° 45" | 2° 36" | 1° 15" | 0° 0" | 4° 60" | 0° 6" | 4° 66" | 3° 48" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | Subcoverso | | | | | 11h | 177° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | Subverso | | | | | 8h | 87° |

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**Tabla XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 3° | 9h | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93° | 6h | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | | |
| ' | m s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 80" 4s | 0" 0s | 60" 4s | 0" 0s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 50" 4s | | |
| 6 | 12. 0 | 8. 7 1880 | 1940 | 2000 | 2060 | 2120 | 9. 999 40 | 40 | 0. 000 60 | 60 | 1. 2 8120 | 8060 | 8000 | 7940 | 7080 | 56 | 52 |
| 1 | 4 | 2120 | 2180 | 2240 | 2300 | 2350 | 40 | 39 | 80 | 81 | 7880 | 7820 | 7760 | 7700 | 7641 | 52 | 86 |
| 2 | 8 | 2359 | 2419 | 2478 | 2538 | 2597 | 30 | 38 | 61 | 62 | 7641 | 7581 | 7522 | 7462 | 7403 | 48 | 57 |
| 3 | 12 | 2597 | 2656 | 2716 | 2775 | 2834 | 38 | 38 | 62 | 62 | 7403 | 7344 | 7284 | 7225 | 7186 | 44 | 86 |
| 4 | 16 | 2834 | 2893 | 2931 | 3010 | 3069 | 38 | 37 | 62 | 63 | 7166 | 7107 | 7049 | 8990 | 6931 | 47. 40 | 55 |
| 5 | 12. 20 | 8. 7 3009 | 3127 | 3186 | 3244 | 3303 | 9. 299 37 | 38 | 0. 000 63 | 64 | 1. 2 6931 | 6873 | 6814 | 8755 | 8097 | 36 | 84 |
| 6 | 24 | 3303 | 3361 | 3410 | 3477 | 3535 | 38 | 36 | 64 | 64 | 6697 | 6839 | 6581 | 8523 | 6465 | 32 | 53 |
| 7 | 28 | 3535 | 3593 | 3651 | 3709 | 3767 | 36 | 35 | 64 | 65 | 6465 | 6407 | 6340 | 8291 | 6233 | 28 | 52 |
| 8 | 32 | 3767 | 3824 | 3882 | 3932 | 3907 | 35 | 34 | 65 | 08 | 8233 | 6176 | 6118 | 6061 | 8003 | 24 | 51 |
| 9 | 36 | 3997 | 4054 | 4112 | 4169 | 4226 | 34 | 34 | 66 | 66 | 6003 | 5946 | 5688 | 5031 | 5774 | 47. 20 | 50 |
| 10 | 12. 40 | 6. 7 4228 | 4203 | 4340 | 4397 | 4454 | 9. 999 34 | 33 | 0. 000 66 | 67 | 1. 2 5774 | 5717 | 5860 | 5603 | 5546 | 10 | 49 |
| 11 | 44 | 4454 | 4510 | 4567 | 4024 | 4680 | 33 | 32 | 67 | 68 | 5548 | 5490 | 5433 | 5376 | 5320 | 12 | 48 |
| 12 | 48 | 4680 | 4737 | 4703 | 4842 | 4006 | 32 | 32 | 68 | 68 | 5320 | 5263 | 5207 | 5151 | 5094 | 8 | 47 |
| 13 | 92 | 4908 | 4962 | 3018 | 5074 | 5130 | 32 | 31 | 68 | 69 | 5004 | 5038 | 4982 | 4926 | 4070 | 4 | 46 |
| 14 | 56 | 5130 | 5186 | 5241 | 5297 | 5353 | 31 | 30 | 60 | 70 | 4070 | 4014 | 4739 | 4703 | 4647 | 47. 0 | 43 |
| 15 | 13. 0 | 8. 7 5353 | 5408 | 5464 | 5519 | 5575 | 9. 009 30 | 20 | 0. 000 70 | 71 | 1. 2 4647 | 4592 | 4536 | 4481 | 4425 | 50 | 44 |
| 16 | 4 | 5375 | 3630 | 5685 | 5740 | 5795 | 22 | 29 | 71 | 71 | 4425 | 4370 | 4315 | 4260 | 4205 | 82 | 43 |
| 17 | 8 | 5705 | 5850 | 8905 | 5960 | 8015 | 22 | 28 | 71 | 72 | 4208 | 4150 | 4093 | 4040 | 3905 | 48 | 42 |
| 18 | 12 | 6015 | 8070 | 6125 | 6179 | 6234 | 20 | 27 | 72 | 73 | 3005 | 3930 | 3875 | 3821 | 3766 | 44 | 41 |
| 19 | 16 | 6234 | 6288 | 6343 | 8397 | 5451 | 27 | 26 | 73 | 74 | 3766 | 3712 | 3637 | 3603 | 3549 | 46. 40 | 46 |
| 20 | 13. 20 | 8. 7 8451 | 8505 | 6559 | 6613 | 6657 | 9. 999 26 | 28 | 0. 000 74 | 74 | 1. 2 3549 | 3405 | 3441 | 3387 | 3333 | 30 | 39 |
| 21 | 24 | 0667 | 6721 | 8775 | 6029 | 6083 | 28 | 25 | 74 | 75 | 3333 | 3279 | 3225 | 3171 | 3117 | 32 | 38 |
| 22 | 28 | 6883 | 6930 | 6990 | 7044 | 7097 | 25 | 21 | 73 | 76 | 3117 | 3064 | 3010 | 2958 | 2903 | 28 | 37 |
| 23 | 32 | 7097 | 7150 | 7204 | 7257 | 7310 | 24 | 23 | 76 | 77 | 2903 | 2050 | 2796 | 2743 | 2690 | 24 | 36 |
| 24 | 36 | 7310 | 7363 | 7416 | 7469 | 7522 | 23 | 23 | 77 | 77 | 2890 | 2637 | 2504 | 2531 | 2478 | 46. 20 | 33 |
| 25 | 13. 40 | 8. 7 7522 | 7575 | 7028 | 7681 | 7733 | 9. 999 23 | 22 | 0. 000 77 | 78 | 1. 2 2478 | 2425 | 2372 | 2319 | 2267 | 10 | 34 |
| 26 | 44 | 7733 | 7786 | 7030 | 7801 | 7943 | 22 | 21 | 78 | 79 | 2267 | 2214 | 2182 | 2109 | 2057 | 12 | 33 |
| 27 | 48 | 7943 | 7996 | 8048 | 8100 | 8152 | 21 | 20 | 70 | 60 | 2057 | 2004 | 1952 | 1000 | 1648 | 8 | 32 |
| 28 | 52 | 8152 | 8205 | 8257 | 8309 | 8360 | 20 | 20 | 80 | 60 | 1848 | 1703 | 1743 | 1691 | 1640 | 4 | 31 |
| 29 | 56 | 8380 | 8412 | 8464 | 8516 | 8560 | 20 | 12 | 80 | 81 | 1640 | 1388 | 1536 | 1464 | 1432 | 46. 0 | 30 |
| 30 | 14. 0 | 8. 7 8568 | 0819 | 8671 | 8722 | 8774 | 0. 909 10 | 10 | 0. 000 01 | 82 | 1. 2 1432 | 1381 | 1329 | 1270 | 1226 | 56 | 29 |
| 31 | 4 | 8774 | 8825 | 0876 | 8927 | 8979 | 18 | 17 | 82 | 63 | 1226 | 1175 | 1124 | 1073 | 1021 | 52 | 28 |
| 32 | 8 | 8972 | 0030 | 0081 | 9132 | 9183 | 17 | 17 | 83 | 83 | 1021 | 0070 | 0919 | 0860 | 0817 | 40 | 27 |
| 33 | 12 | 9183 | 9234 | 0204 | 9335 | 0388 | 17 | 18 | 83 | 84 | 0817 | 0766 | 0716 | 0665 | 0614 | 44 | 26 |
| 34 | 16 | 9386 | 0437 | 9487 | 9538 | 9588 | 18 | 15 | 84 | 85 | 0614 | 0563 | 0513 | 0462 | 0412 | 43. 40 | 25 |
| 35 | 14. 20 | 8. 7 0580 | 9039 | 0689 | 2739 | 9700 | 0. 990 15 | 14 | 0. 600 85 | 86 | 1. 2 0412 | 0361 | 0311 | 0281 | 0211 | 36 | 24 |
| 36 | 24 | 0789 | 0840 | 9890 | 9940 | 9920 | 14 | 13 | 85 | 87 | 0211 | 0160 | 0110 | 0060 | 0010 | 32 | 23 |
| 37 | 28 | * 9990 | 0040 | 0000 | 0139 | 0180 | 13 | 13 | 87 | 87 | * 0010 | 9960 | 9910 | 9881 | 9811 | 28 | 22 |
| 38 | 32 | 8. 8 0169 | 0239 | 0289 | 0338 | 0388 | 13 | 12 | 87 | 88 | 1. 1 0811 | 0761 | 0711 | 0662 | 9612 | 24 | 21 |
| 39 | 36 | 0388 | 0437 | 0407 | 0536 | 0585 | 12 | 11 | 08 | 89 | 9612 | 9363 | 9313 | 9464 | 9415 | 43. 20 | 20 |
| 40 | 14. 40 | 6. 8 0585 | 0634 | 0684 | 0733 | 0702 | 9. 292 11 | 10 | 0. 000 82 | 90 | 1. 1 9415 | 0366 | 9316 | 0287 | 9218 | 16 | 12 |
| 41 | 44 | 0782 | 0831 | 0880 | 0929 | 0978 | 10 | 09 | 00 | 91 | 9218 | 9169 | 9120 | 9071 | 9022 | 12 | 16 |
| 42 | 40 | 0978 | 1027 | 1075 | 1124 | 1173 | 09 | 09 | 91 | 91 | 0022 | 8973 | 8923 | 8876 | 8827 | 8 | 17 |
| 43 | 52 | 1173 | 1221 | 1270 | 1310 | 1367 | 09 | 08 | 91 | 92 | 8827 | 0779 | 8730 | 0882 | 0633 | 4 | 16 |
| 44 | 55 | 1367 | 1418 | 1463 | 1512 | 1560 | 06 | 07 | 92 | 93 | 8633 | 8585 | 8537 | 8480 | 8440 | 45. 0 | 15 |
| 45 | 15. 0 | 8. 8 1560 | 1608 | 1656 | 1704 | 1752 | 9. 909 07. | 06 | 0. 000 93 | 04 | 1. 1 0440 | 8302 | 8344 | 8298 | 8248 | 58 | 14 |
| 46 | 4 | 1782 | 1600 | 1848 | 1696 | 1944 | 06 | 05 | 94 | 95 | 8248 | 8200 | 8152 | 8104 | 8056 | 52 | 13 |
| 47 | 8 | 1944 | 1991 | 2039 | 2007 | 2134 | 03 | 04 | 95 | 26 | 8056 | 8000 | 7961 | 7013 | 7808 | 48 | 12 |
| 48 | 12 | 2134 | 2182 | 2229 | 2277 | 2324 | 04 | 04 | 96 | 96 | 7868 | 7818 | 7771 | 7723 | 7676 | 44 | 11 |
| 49 | 16 | 2324 | 2371 | 2419 | 2466 | 2513 | 04 | 03 | 96 | 27 | 7676 | 7629 | 7561 | 7534 | 7487 | 44. 40 | 10 |
| 80 | 15. 20 | 6. 8 2513 | 2560 | 2607 | 2654 | 2701 | 9. 909 03 | 02 | 0. 000 27 | 28 | 1. 1 7487 | 7440 | 7303 | 7346 | 7299 | 36 | 9 |
| 51 | 24 | 2701 | 2748 | 2795 | 2842 | 2000 | 02 | 01 | 98 | 99 | 7209 | 7252 | 7205 | 7188 | 7112 | 32 | 8 |
| 82 | 20 | 2888 | 2935 | 2282 | 3028 | 3075 | 01 | 00 | * 22 | 00 | 7112 | 7065 | 7018 | 6272 | 0225 | 28 | 7 |
| 53 | 32 | 3075 | 3121 | 3168 | 3214 | 3201 | * 00 | 29 | 0. 001 00 | 01 | 6025 | 8079 | 6832 | 0780 | 6739 | 24 | 6 |
| 54 | 36 | 3261 | 3307 | 3333 | 3399 | 3440 | 9. 098 90 | 98 | 01 | 02 | 0739 | 6693 | 0647 | 0601 | 6554 | 44. 20 | 5 |
| 85 | 15. 40 | 8. 8 3446 | 3402 | 3538 | 3584 | 3630 | 9. 998 98 | 28 | 0. 001 02 | 02 | 1. 1 0554 | 8500 | 5462 | 0418 | 0370 | 16 | 4 |
| 56 | 44 | 3030 | 3675 | 3721 | 3787 | 3813 | 98 | 27 | 02 | 03 | 6370 | 8324 | 0279 | 0233 | 5187 | 12 | 6 |
| 37 | 48 | 3813 | 3859 | 3904 | 3950 | 3906 | 07 | 96 | 03 | 04 | 6187 | 6141 | 0096 | 0050 | 0004 | 0 | 2 |
| 58 | 52 | 3206 | 4041 | 4007 | 4132 | 4177 | 96 | 95 | 04 | 05 | 0004 | 5059 | 5913 | 5860 | 5823 | 4 | 1 |
| 59 | 56 | 4177 | 4223 | 4268 | 4313 | 4358 | 95 | 94 | 05 | 06 | 5823 | 3777 | 5732 | 5687 | 5642 | 44. 0 | 0 |
| | | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 0s 0" | 4s 60" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | m s | ' |
| | | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | 11h | 176° |
| | | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | 5h | 86° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 3° | 0h | Verso | | | | | Coverso | | | | | Subverso | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | Verso | | | | | | |
| | m s | 0" 0° | 15" 1° | 30" 9° | 45" 3° | 60" 4° | 0" 0° | 16" 1° | 30" 2° | 45" 5° | 60" 4° | 0" 0° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45 3° | 60' 4° | | |
| 0 | 12. 0 | 6.8 3584 | 3704 | 3825 | 3945 | 4065 | 9.675 62 | 59 | 56 | 59 | 49 | 9.699 70 | 70 | 9.721 19 | 16 | 10 | 91 | 94 | 56 | 59 |
| 1 | 4 | 4065 | 4185 | 4304 | 4424 | 4543 | 49 | 46 | 42 | 39 | 36 | 70 | 70 | 24 | 97 | 30 | 33 | 36 | 52 | 58 |
| 9 | 6 | 4543 | 4663 | 4702 | 4900 | 6019 | 36 | 32 | 29 | 26 | 92 | 70 | 69 | 36 | 39 | 42 | 45 | 48 | 40 | 57 |
| 5 | 12 | 5019 | 5130 | 5256 | 5374 | 5492 | 22 | 19 | 16 | 12 | 09 | 69 | 69 | 48 | 51 | 64 | 67 | 60 | 44 | 56 |
| 4 | 16 | 5492 | 5610 | 6728 | 5645 | 5963 | * 09 | 06 | 02 | 99 | 96 | 69 | 69 | 60 | 63 | 66 | 59 | 72 | 47. 40 | 55 |
| 5 | 12. 20 | 6.8 5963 | 6000 | 6127 | 6314 | 6431 | 6.674 96 | 92 | 89 | 86 | 82 | 9.999 69 | 68 | 6.721 79 | 75 | 78 | 81 | 84 | 36 | 54 |
| 5 | 24 | 6431 | 5545 | 6664 | 6761 | 6897 | 02 | 79 | 76 | 79 | 59 | 68 | 68 | 84 | 87 | 90 | 93 | 96 | 52 | 53 |
| 7 | 28 | 5897 | 7013 | 7122 | 7244 | 7360 | 69 | 66 | 62 | 59 | 55 | 68 | 65 | * 96 | 99 | 02 | 06 | 08 | 98 | 59 |
| 8 | 32 | 7360 | 7475 | 7501 | 7766 | 7021 | 65 | 52 | 49 | 46 | 42 | 58 | 67 | 9.722 08 | 11 | 14 | 17 | 20 | 24 | 51 |
| 9 | 35 | 7021 | 7935 | 0050 | 8165 | 0279 | 42 | 39 | 35 | 32 | 99 | 67 | 67 | 20 | 93 | 26 | 29 | 39 | 47. 90 | 50 |
| 10 | 12. 40 | 6.5 8279 | 8393 | 5507 | 0621 | 8735 | 9.674 29 | 26 | 92 | 19 | 16 | 6.999 67 | 66 | 9.729 39 | 35 | 38 | 41 | 44 | 16 | 49 |
| 11 | 44 | 5735 | 8840 | 0962 | 9075 | 9108 | 16 | 19 | 09 | 06 | 02 | 66 | 66 | 44 | 47 | 50 | 53 | 56 | 12 | 48 |
| 19 | 48 | 2188 | 9301 | 9414 | 9627 | 9639 | * 02 | 99 | 96 | 92 | 89 | 66 | 66 | 56 | 59 | 62 | 65 | 68 | 0 | 47 |
| 13 | 59 | * 9639 | 9752 | 9564 | 9976 | 0088 | 9.673 89 | 05 | 02 | 79 | 76 | 66 | 65 | 68 | 71 | 74 | 77 | 80 | 4 | 46 |
| 14 | 56 | 6.6 0005 | 0900 | 0312 | 0483 | 6535 | 76 | 76 | 69 | 66 | 52 | 65 | 65 | 80 | 83 | 66 | 89 | 92 | 47. 0 | 45 |
| 15 | 13. 0 | 6.9 0535 | 0646 | 0757 | 0865 | 0972 | 9.673 62 | 62 | 56 | 52 | 49 | 9.999 55 | 65 | * 92 | 95 | 98 | 01 | 04 | 56 | 44 |
| 16 | 4 | 0979 | 1009 | 1200 | 1310 | 1421 | 49 | 46 | 49 | 39 | 36 | 66 | 64 | 9.723 04 | 07 | 10 | 13 | 16 | 52 | 43 |
| 17 | 0 | 1421 | 1631 | 1641 | 1751 | 1060 | 36 | 32 | 29 | 25 | 22 | 64 | 64 | 16 | 19 | 92 | 25 | 28 | 48 | 42 |
| 10 | 12 | 1060 | 1970 | 2080 | 2159 | 9296 | 22 | 19 | 15 | 12 | 09 | 64 | 64 | 28 | 31 | 34 | 37 | 40 | 44 | 41 |
| 19 | 16 | 2290 | 2407 | 2616 | 9694 | 2733 | * 09 | 05 | 02 | 99 | 95 | 64 | 63 | 40 | 43 | 46 | 49 | 69 | 46. 40 | 40 |
| 20 | 13. 20 | 6.9 2733 | 2641 | 2950 | 3058 | 3166 | 6.672 95 | 92 | 82 | 06 | 89 | 9.999 63 | 63 | 9.723 52 | 55 | 57 | 60 | 63 | 36 | 39 |
| 21 | 24 | 3156 | 3274 | 3302 | 3452 | 3597 | 02 | 79 | 75 | 72 | 69 | 63 | 63 | 63 | 66 | 59 | 79 | 75 | 32 | 38 |
| 29 | 98 | 5597 | 3704 | 3812 | 3919 | 4026 | 59 | 65 | 69 | 59 | 65 | 53 | 69 | 75 | 70 | 81 | 84 | 67 | 20 | 37 |
| 23 | 32 | 4026 | 4133 | 4240 | 4346 | 4453 | 55 | 59 | 49 | 45 | 49 | 69 | 62 | 07 | 90 | 93 | 96 | 99 | 24 | 36 |
| 24 | 55 | 4433 | 4559 | 4665 | 4771 | 4877 | 49 | 30 | 36 | 39 | 20 | 62 | 61 | * 99 | 09 | 05 | 08 | 11 | 46. 20 | 35 |
| 25 | 13. 40 | 6.9 4677 | 4983 | 6059 | 5196 | 5300 | 9.676 98 | 25 | 92 | 15 | 15 | 6.999 61 | 61 | 6.724 11 | 14 | 17 | 20 | 93 | 16 | 34 |
| 66 | 44 | 5300 | 5405 | 5510 | 5615 | 5720 | 16 | 12 | 06 | 05 | 02 | 61 | 61 | 63 | 26 | 29 | 32 | 35 | 12 | 33 |
| 97 | 40 | 5720 | 5025 | 5930 | 6034 | 5139 | * 02 | 98 | 96 | 92 | 88 | 61 | 60 | 35 | 38 | 41 | 44 | 47 | 8 | 32 |
| 28 | 52 | 5139 | 6243 | 6347 | 5451 | 6555 | 9.671 68 | 04 | 81 | 78 | 75 | 50 | 60 | 47 | 50 | 53 | 56 | 59 | 4 | 31 |
| 29 | 56 | 6555 | 6659 | 6763 | 6066 | 6970 | 75 | 71 | 58 | 65 | 61 | 60 | 59 | 59 | 62 | 65 | 60 | 71 | 46. 0 | 30 |
| 30 | 14. 0 | 6.6 6970 | 7073 | 7176 | 7279 | 7382 | 9.671 61 | 58 | 55 | 51 | 48 | 9.999 59 | 69 | 9.724 71 | 74 | 77 | 79 | 82 | 56 | 29 |
| 31 | 4 | 7302 | 7405 | 7588 | 7690 | 7793 | 40 | 44 | 41 | 38 | 34 | 52 | 59 | 09 | 85 | 50 | 61 | 94 | 52 | 28 |
| 32 | 5 | 7793 | 7895 | 7997 | 5099 | 6201 | 34 | 31 | 90 | 94 | 91 | 59 | 50 | * 94 | 97 | 00 | 03 | 06 | 48 | 27 |
| 53 | 12 | 8201 | 0303 | 8405 | 0506 | 0608 | 91 | 16 | 14 | 11 | 08 | 68 | 58 | 9.795 06 | 09 | 12 | 15 | 10 | 44 | 26 |
| 34 | 16 | 5608 | 5709 | 0811 | 5912 | 9013 | * 08 | 04 | 01 | 97 | 94 | 60 | 58 | 10 | 91 | 24 | 97 | 30 | 45. 40 | 25 |
| 35 | 14. 90 | 5.9 2013 | 9114 | 2214 | 9315 | 9416 | 9.670 94 | 91 | 87 | 84 | 81 | 9.999 68 | 57 | 9.795 30 | 33 | 36 | 39 | 42 | 36 | 24 |
| 36 | 24 | 9415 | 9515 | 9617 | 9717 | 9017 | 51 | 77 | 74 | 71 | 67 | 57 | 57 | 42 | 45 | 40 | 51 | 54 | 52 | 23 |
| 37 | 25 | * 2017 | 9917 | 0017 | 0116 | 0216 | 57 | 64 | 60 | 57 | 54 | 57 | 66 | 54 | 57 | 60 | 63 | 65 | 90 | 22 |
| 35 | 52 | 7.0 0216 | 0316 | 0415 | 0514 | 0613 | 54 | 50 | 47 | 44 | 40 | 56 | 56 | 55 | 60 | 71 | 74 | 77 | 24 | 61 |
| 30 | 36 | 0613 | 0719 | 0511 | 0910 | 1009 | 40 | 37 | 34 | 30 | 97 | 56 | 56 | 77 | 80 | 03 | 85 | 02 | 45. 90 | 60 |
| 40 | 14. 40 | 7.0 1009 | 1105 | 1206 | 1304 | 1403 | 9.679 27 | 23 | 20 | 17 | 13 | 9.999 56 | 55 | * 09 | 92 | 95 | 98 | 01 | 16 | 19 |
| 41 | 44 | 1403 | 1501 | 1599 | 1697 | 1795 | 13 | 10 | 07 | 03 | 05 | 55 | 55 | 9.706 61 | 04 | 07 | 10 | 13 | 12 | 10 |
| 49 | 48 | 1795 | 1092 | 1990 | 2000 | 2185 | * 00 | 96 | 93 | 90 | 66 | 55 | 54 | 13 | 16 | 19 | 29 | 25 | 8 | 17 |
| 45 | 52 | 9185 | 2282 | 2379 | 2476 | 2573 | 9.669 56 | 03 | 60 | 76 | 73 | 54 | 54 | 95 | 28 | 31 | 34 | 37 | 4 | 16 |
| 44 | 56 | 2575 | 2670 | 2757 | 9054 | 2960 | 73 | 70 | 66 | 63 | 69 | 54 | 53 | 37 | 39 | 49 | 45 | 45 | 45. 0 | 15 |
| 45 | 15. 0 | 7.0 9960 | 3057 | 5155 | 3949 | 3345 | 6.669 59 | 56 | 53 | 49 | 46 | 9.999 53 | 53 | 9.726 48 | 51 | 54 | 57 | 60 | 56 | 14 |
| 46 | 4 | 3345 | 3441 | 3537 | 3633 | 3729 | 45 | 43 | 59 | 56 | 32 | 53 | 53 | 60 | 63 | 66 | 69 | 72 | 52 | 13 |
| 47 | 6 | 5729 | 3824 | 3920 | 4015 | 4110 | 52 | 29 | 26 | 92 | 19 | 53 | 69 | 72 | 75 | 78 | 01 | 04 | 40 | 12 |
| 48 | 12 | 4110 | 4206 | 4300 | 4365 | 4490 | 19 | 15 | 12 | 09 | 05 | 62 | 52 | 84 | 07 | 90 | 93 | 96 | 44 | 11 |
| 40 | 16 | 4490 | 4585 | 4650 | 4774 | 4869 | * 05 | 02 | 99 | 95 | 92 | 52 | 61 | * 96 | 99 | 02 | 05 | 08 | 14. 40 | 10 |
| 59 | 15. 20 | 7.0 4862 | 4963 | 5067 | 5151 | 5245 | 6.668 62 | 89 | 55 | 82 | 70 | 9.999 51 | 51 | 9.727 08 | 19 | 13 | 16 | 19 | 36 | 9 |
| 61 | 24 | 5245 | 5330 | 5433 | 5567 | 5520 | 78 | 75 | 72 | 60 | 55 | 51 | 51 | 19 | 22 | 25 | 98 | 31 | 52 | 8 |
| 59 | 28 | 5620 | 5714 | 5867 | 5991 | 5094 | 65 | 66 | 68 | 55 | 61 | 51 | 50 | 51 | 34 | 37 | 40 | 43 | 28 | 7 |
| 53 | 52 | 5994 | 6087 | 5180 | 6273 | 5365 | 51 | 48 | 45 | 41 | 30 | 50 | 60 | 43 | 46 | 49 | 59 | 55 | 24 | 6 |
| 64 | 36 | 5366 | 6468 | 6551 | 5643 | 5736 | 30 | 55 | 51 | 28 | 24 | 50 | 49 | 55 | 58 | 61 | 64 | 67 | 44. 20 | 5 |
| 55 | 15. 40 | 7.0 5736 | 6866 | 5920 | 7013 | 7105 | 6.668 94 | 21 | 10 | 14 | 11 | 2.909 49 | 49 | 9.727 67 | 70 | 75 | 75 | 78 | 16 | 4 |
| 65 | 44 | 7105 | 7165 | 7288 | 7360 | 7472 | * 11 | 07 | 04 | 01 | 97 | 49 | 40 | 78 | 01 | 84 | 87 | 90 | 12 | 5 |
| 67 | 48 | 7472 | 7563 | 7555 | 7746 | 7837 | 9.667 97 | 94 | 91 | 87 | 04 | 48 | 40 | * 90 | 93 | 96 | 99 | 02 | 0 | 6 |
| 58 | 62 | 7537 | 7965 | 6090 | 5110 | 0201 | 64 | 00 | 77 | 74 | 70 | 48 | 45 | 9.725 02 | 05 | 08 | 11 | 14 | 4 | 1 |
| 59 | 56 | 0201 | 8262 | 5303 | 8473 | 8564 | 70 | 67 | 63 | 60 | 57 | 48 | 47 | 14 | 17 | 90 | 23 | 95 | 44. 0 | 9 |
| | | 4° 60" | 3° 45" | 9° 50" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 9° 30" | 1° 13" | 0° 0" | 4° 60" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | Subcoverso | | | | | 11h | 175° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | Subverso | | | | | 5h | 86° |

## Tabla XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 4° | 6h | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94° | 5h | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | | |
| ' | m s | 0" 5° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 60" 4° | 0" 0° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 50" 4° | | |
| 0 | 16. 0 | 8. 84 358 | 404 | 449 | 494 | 639 | 2. 990 91 | 93 | 5. 001 06 | 07 | 1. 15 549 | 596 | 551 | 506 | 461 | 55 | 55 |
| 1 | 4 | 539 | 584 | 629 | 673 | 718 | 93 | 22 | 07 | 08 | 461 | 416 | 371 | 327 | 282 | 52 | 58 |
| 2 | 8 | 716 | 763 | 808 | 859 | 897 | 92 | 51 | 08 | 09 | 282 | 237 | 192 | 148 | 163 | 46 | 57 |
| 3 | 12 | * 697 | 942 | 986 | 031 | 075 | 91 | 21 | 09 | 09 | * 103 | 058 | 014 | 969 | 925 | 44 | 56 |
| 4 | 16 | 5. 85 675 | 120 | 164 | 268 | 252 | 91 | 50 | 09 | 10 | 1. 14 925 | 880 | 835 | 792 | 748 | 43. 40 | 35 |
| 5 | 16. 20 | 0. 85 252 | 297 | 341 | 385 | 429 | 9. 998 90 | 89 | 0. 001 10 | 11 | 1. 14 748 | 703 | 659 | 615 | 571 | 36 | 54 |
| 6 | 21 | 429 | 473 | 517 | 561 | 605 | 89 | 86 | 11 | 12 | 571 | 527 | 483 | 439 | 395 | 32 | 53 |
| 7 | 28 | 605 | 649 | 693 | 736 | 780 | 88 | 87 | 12 | 13 | 395 | 351 | 367 | 254 | 220 | 28 | 52 |
| 8 | 32 | 786 | 824 | 867 | 911 | 955 | 87 | 86 | 13 | 14 | 920 | 176 | 133 | 089 | 045 | 24 | 51 |
| 9 | 35 | * 955 | 998 | 042 | 085 | 128 | 86 | 85 | 14 | 15 | * 045 | 002 | 658 | 515 | 572 | 43. 20 | 55 |
| 10 | 16. 40 | 8. 85 128 | 172 | 915 | 258 | 301 | 9. 998 85 | 84 | 0. 001 15 | 16 | 1. 13 872 | 828 | 785 | 742 | 699 | 16 | 49 |
| 11 | 44 | 361 | 345 | 388 | 431 | 474 | 84 | 83 | 15 | 17 | 599 | 655 | 612 | 569 | 526 | 12 | 48 |
| 12 | 48 | 474 | 517 | 560 | 603 | 645 | 83 | 82 | 17 | 16 | 526 | 483 | 440 | 397 | 355 | 8 | 47 |
| 13 | 52 | 645 | 688 | 731 | 774 | 816 | 82 | 81 | 18 | 19 | 355 | 312 | 269 | 226 | 184 | 4 | 46 |
| 14 | 56 | 516 | 859 | 962 | 944 | 987 | 81 | 86 | 19 | 20 | 104 | 141 | 098 | 056 | 013 | 43. 0 | 45 |
| 15 | 17. 0 | * 287 | 029 | 672 | 114 | 156 | 9. 996 80 | 79 | 0. 001 26 | 21 | * 613 | 971 | 928 | 886 | 844 | 56 | 44 |
| 15 | 4 | 0. 87 156 | 199 | 241 | 283 | 325 | 79 | 79 | 91 | 21 | 1. 12 844 | 801 | 759 | 717 | 675 | 52 | 43 |
| 17 | 8 | 325 | 358 | 415 | 452 | 494 | 79 | 78 | 21 | 29 | 675 | 632 | 596 | 548 | 506 | 45 | 42 |
| 18 | 12 | 494 | 536 | 578 | 626 | 661 | 76 | 77 | 92 | 23 | 566 | 464 | 422 | 366 | 339 | 44 | 41 |
| 19 | 16 | 661 | 703 | 745 | 707 | 029 | 77 | 76 | 93 | 24 | 339 | 297 | 255 | 213 | 171 | 42. 40 | 46 |
| 20 | 17. 20 | 0. 87 829 | 676 | 912 | 953 | 995 | 9. 990 76 | 75 | 5. 001 24 | 25 | 1. 12 171 | 130 | 088 | 047 | 565 | 36 | 39 |
| 21 | 24 | * 995 | 036 | 078 | 119 | 161 | 75 | 74 | 25 | 26 | * 505 | 964 | 622 | 081 | 839 | 32 | 38 |
| 29 | 26 | 0. 08 151 | 962 | 243 | 985 | 326 | 74 | 73 | 26 | 27 | 1. 11 839 | 798 | 757 | 715 | 574 | 28 | 37 |
| 93 | 39 | 326 | 367 | 406 | 449 | 490 | 73 | 72 | 27 | 20 | 674 | 633 | 592 | 551 | 510 | 24 | 35 |
| 24 | 36 | 496 | 531 | 572 | 513 | 654 | 72 | 71 | 26 | 29 | 810 | 469 | 428 | 387 | 346 | 42. 26 | 35 |
| 25 | 17. 40 | 8. 80 654 | 695 | 736 | 777 | 817 | 9. 998 71 | 70 | 5. 001 29 | 36 | 1. 11 346 | 305 | 264 | 223 | 183 | 16 | 34 |
| 26 | 44 | 817 | 858 | 899 | 939 | 980 | 70 | 65 | 30 | 31 | 183 | 142 | 161 | 561 | 020 | 12 | 33 |
| 27 | 48 | * 980 | 021 | 061 | 162 | 142 | 69 | 68 | 31 | 32 | * 020 | 979 | 939 | 898 | 558 | 5 | 32 |
| 20 | 62 | 8. 89 149 | 189 | 923 | 263 | 364 | 68 | 67 | 32 | 33 | 1. 16 858 | 817 | 777 | 737 | 596 | 4 | 31 |
| 29 | 56 | 364 | 344 | 384 | 424 | 464 | 67 | 66 | 33 | 34 | 696 | 656 | 616 | 576 | 536 | 42. 0 | 36 |
| 30 | 18. 0 | 0. 89 464 | 501 | 545 | 585 | 625 | 9. 998 66 | 65 | 5. 501 34 | 35 | 1. 10 536 | 496 | 455 | 415 | 375 | 56 | 29 |
| 31 | 4 | 625 | 665 | 704 | 744 | 784 | 65 | 64 | 35 | 36 | 375 | 335 | 296 | 256 | 216 | 52 | 28 |
| 32 | 8 | 784 | 824 | 064 | 904 | 943 | 64 | 63 | 36 | 37 | 216 | 176 | 136 | 096 | 557 | 48 | 27 |
| 33 | 12 | * 943 | 983 | 023 | 662 | 102 | 53 | 62 | 37 | 38 | * 057 | 017 | 977 | 938 | 098 | 44 | 26 |
| 34 | 16 | 8. 90 169 | 141 | 181 | 226 | 260 | 62 | 61 | 38 | 39 | 1. 09 896 | 859 | 819 | 760 | 740 | 41. 46 | 25 |
| 55 | 10. 20 | 5. 90 260 | 999 | 336 | 378 | 417 | 9. 698 61 | 60 | 5. 561 39 | 46 | 1. 09 740 | 701 | 562 | 622 | 583 | 36 | 24 |
| 36 | 24 | 417 | 456 | 495 | 534 | 574 | 60 | 59 | 46 | 41 | 583 | 544 | 505 | 466 | 425 | 32 | 23 |
| 37 | 28 | 574 | 613 | 652 | 591 | 730 | 59 | 58 | 41 | 42 | 426 | 307 | 348 | 309 | 270 | 28 | 22 |
| 38 | 32 | 730 | 759 | 808 | 846 | 065 | 58 | 57 | 42 | 43 | 276 | 231 | 192 | 153 | 115 | 24 | 21 |
| 39 | 36 | * 885 | 924 | 963 | 002 | 040 | 57 | 56 | 43 | 44 | * 115 | 076 | 037 | 690 | 660 | 41. 20 | 20 |
| 40 | 15. 40 | 8. 51 040 | 679 | 118 | 156 | 195 | 9. 998 56 | 55 | 0. 601 44 | 45 | 1. 08 966 | 921 | 082 | 044 | 005 | 16 | 19 |
| 41 | 44 | 195 | 233 | 272 | 310 | 349 | 55 | 54 | 45 | 46 | 805 | 767 | 726 | 595 | 651 | 12 | 15 |
| 42 | 48 | 319 | 387 | 496 | 464 | 562 | 54 | 33 | 46 | 47 | 651 | 513 | 574 | 535 | 498 | 0 | 17 |
| 43 | 52 | 502 | 546 | 579 | 517 | 655 | 53 | 52 | 47 | 48 | 498 | 460 | 421 | 383 | 345 | 4 | 16 |
| 44 | 56 | 655 | 693 | 731 | 769 | 807 | 52 | 51 | 48 | 49 | 345 | 367 | 269 | 231 | 193 | 41. 5 | 15 |
| 45 | 19. 0 | 0. 91 807 | 845 | 883 | 921 | 959 | 9. 598 51 | 50 | 5. 501 49 | 60 | 1. 08 193 | 155 | 117 | 079 | 041 | 56 | 14 |
| 46 | 4 | * 959 | 997 | 035 | 673 | 110 | 56 | 48 | 56 | 52 | * 541 | 003 | 965 | 927 | 590 | 52 | 13 |
| 47 | 8 | 8. 92 110 | 148 | 186 | 223 | 261 | 48 | 47 | 52 | 53 | 1. 07 690 | 552 | 014 | 777 | 739 | 46 | 12 |
| 40 | 19 | 261 | 299 | 336 | 374 | 411 | 47 | 46 | 53 | 54 | 739 | 701 | 664 | 626 | 589 | 44 | 11 |
| 49 | 16 | 411 | 449 | 486 | 594 | 561 | 46 | 45 | 54 | 55 | 509 | 551 | 514 | 475 | 439 | 40. 40 | 16 |
| 56 | 19. 20 | 8. 92 551 | 598 | 636 | 673 | 710 | 9. 998 45 | 44 | 0. 061 55 | 56 | 1. 07 439 | 402 | 364 | 327 | 290 | 35 | 5 |
| 51 | 24 | 710 | 747 | 784 | 822 | 859 | 44 | 43 | 55 | 57 | 290 | 253 | 216 | 176 | 141 | 32 | 6 |
| 52 | 28 | * 859 | 096 | 933 | 976 | 007 | 43 | 42 | 57 | 58 | * 141 | 104 | 067 | 030 | 993 | 28 | 7 |
| 53 | 32 | 6. 93 007 | 044 | 081 | 118 | 154 | 42 | 41 | 58 | 59 | 1. 55 993 | 556 | 919 | 882 | 846 | 24 | 6 |
| 54 | 36 | 154 | 191 | 228 | 265 | 301 | 41 | 40 | 89 | 66 | 845 | 069 | 772 | 735 | 698 | 40. 20 | 5 |
| 55 | 19. 46 | 8. 93 301 | 338 | 373 | 411 | 448 | 6. 998 40 | 39 | 0. 601 60 | 61 | 1. 06 698 | 562 | 625 | 568 | 552 | 16 | 4 |
| 55 | 44 | 448 | 405 | 691 | 538 | 594 | 39 | 36 | 61 | 62 | 552 | 515 | 479 | 442 | 406 | 12 | 3 |
| 57 | 48 | 594 | 631 | 667 | 703 | 740 | 38 | 37 | 62 | 63 | 406 | 369 | 333 | 997 | 260 | 8 | 2 |
| 50 | 52 | 746 | 777 | 612 | 549 | 005 | 37 | 36 | 63 | 54 | 260 | 294 | 188 | 151 | 115 | 4 | 1 |
| 59 | 56 | *(0. 94)885 | 921 | 957 | 993 | 030 | 56 | 34 | 64 | 66 | *(1. 05)115 | 079 | 043 | 067 | 976 | 40. 0 | 5 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | 0° 0" | 4° 55" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Seno | | | | | Coseno | | Secante | | Cosecante | | | | | 11h | 175° |
| | | Coseno | | | | | Seno | | Cosecante | | Secante | | | | | 5h | 55° |

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**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 4° | 0h | Verso | | | | | Coverso | | | | | Subverso | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 20″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 50″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 16. 0 | 7.6 6584 | 8654 | 8745 | 8835 | 6925 | 6.667 57 | 53 | 50 | 46 | 43 | 6.669 47 | 47 | 6.728 25 | 28 | 81 | 34 | 37 | 56 | 56 |
| 1 | 4 | 8625 | 6015 | 0105 | 0165 | 6284 | 43 | 40 | 36 | 33 | 30 | 47 | 46 | 37 | 40 | 43 | 48 | 49 | 52 | 58 |
| 2 | 8 | 6264 | 6374 | 2464 | 0553 | 2542 | 30 | 26 | 23 | 16 | 16 | 46 | 48 | 49 | 52 | 55 | 58 | 61 | 48 | 57 |
| 3 | 12 | 6849 | 6732 | 9821 | 0618 | 6906 | 16 | 13 | 06 | 06 | 82 | 46 | 43 | 61 | 64 | 67 | 78 | 73 | 44 | 56 |
| 4 | 16 | * 9662 | 8068 | 8177 | 0265 | 0354 | * 82 | 96 | 96 | 22 | 82 | 45 | 45 | 73 | 76 | 76 | 81 | 04 | 43. 40 | 58 |
| 5 | 16. 20 | 7.1 0354 | 8443 | 0531 | 0612 | 8706 | 6.666 89 | 85 | 82 | 76 | 75 | 6.992 45 | 44 | 6.726 84 | 87 | 90 | 23 | 06 | 36 | 54 |
| 6 | 24 | 0786 | 0726 | 0884 | 0672 | 1060 | 75 | 72 | 69 | 65 | 62 | 44 | 44 | * 66 | 92 | 02 | 85 | 88 | 32 | 53 |
| 7 | 28 | 1060 | 1146 | 1236 | 1323 | 1411 | 62 | 58 | 53 | 52 | 48 | 44 | 43 | 6.726 88 | 11 | 14 | 17 | 20 | 28 | 52 |
| 8 | 32 | 1411 | 1420 | 1580 | 1673 | 1760 | 40 | 45 | 41 | 38 | 35 | 43 | 43 | 20 | 23 | 25 | 28 | 31 | 24 | 51 |
| 9 | 38 | 1760 | 1647 | 1634 | 2021 | 2100 | 35 | 31 | 26 | 24 | 21 | 43 | 43 | 31 | 34 | 37 | 40 | 43 | 43. 20 | 50 |
| 10 | 16. 40 | 7.1 2188 | 2195 | 2282 | 2368 | 2455 | 6.666 21 | 18 | 14 | 11 | 07 | 6.029 43 | 42 | 9.739 43 | 45 | 49 | 52 | 55 | 16 | 49 |
| 11 | 44 | 2455 | 2541 | 2627 | 2713 | 2600 | * 87 | 04 | 01 | 67 | 64 | 42 | 42 | 85 | 38 | 61 | 64 | 67 | 12 | 45 |
| 12 | 48 | 2800 | 2886 | 2072 | 3058 | 3144 | 6.665 64 | 28 | 87 | 84 | 68 | 42 | 41 | 67 | 70 | 72 | 75 | 78 | 8 | 47 |
| 13 | 52 | 3144 | 3226 | 3315 | 3481 | 3466 | 60 | 77 | 73 | 70 | 67 | 41 | 41 | 76 | 81 | 84 | 87 | 90 | 4 | 46 |
| 14 | 86 | 3486 | 3572 | 3657 | 3742 | 3627 | 67 | 53 | 60 | 50 | 53 | 41 | 40 | * 60 | 23 | 68 | 99 | 02 | 43. 8 | 45 |
| 15 | 17. 8 | 7.1 3827 | 3612 | 3927 | 1882 | 4167 | 2.665 53 | 30 | 46 | 43 | 36 | 9.999 40 | 40 | 6.730 02 | 05 | 08 | 11 | 14 | 56 | 44 |
| 16 | 4 | 4167 | 4252 | 4337 | 4421 | 4506 | 36 | 35 | 33 | 29 | 26 | 40 | 39 | 14 | 16 | 16 | 22 | 25 | 52 | 43 |
| 17 | 8 | 4506 | 4590 | 4674 | 4756 | 4843 | 26 | 22 | 12 | 16 | 12 | 36 | 36 | 25 | 26 | 31 | 34 | 37 | 48 | 42 |
| 18 | 19 | 4643 | 4627 | 5011 | 5095 | 5170 | * 12 | 82 | 85 | 82 | 96 | 39 | 36 | 37 | 40 | 43 | 46 | 42 | 44 | 41 |
| 16 | 16 | 6176 | 5262 | 5346 | 5438 | 5513 | 6.664 66 | 65 | 92 | 68 | 85 | 38 | 36 | 46 | 52 | 53 | 37 | 60 | 42. 40 | 40 |
| 20 | 17. 20 | 7.1 5313 | 5397 | 5680 | 5783 | 5816 | 6.664 85 | 02 | 78 | 75 | 71 | 9.999 30 | 37 | 6.730 60 | 63 | 66 | 69 | 72 | 36 | 36 |
| 21 | 21 | 5648 | 5630 | 6812 | 0896 | 6178 | 71 | 65 | 64 | 61 | 88 | 87 | 37 | 72 | 75 | 78 | 01 | 64 | 32 | 38 |
| 22 | 28 | 6178 | 8261 | 6344 | 6497 | 6509 | 58 | 54 | 51 | 47 | 44 | 37 | 36 | 81 | 67 | 60 | 63 | 66 | 28 | 37 |
| 23 | 32 | 6506 | 6562 | 6674 | 6736 | 6839 | 41 | 41 | 37 | 34 | 30 | 36 | 36 | * 96 | 68 | 01 | 04 | 07 | 24 | 36 |
| 24 | 36 | 6636 | 6921 | 7883 | 7085 | 7167 | 35 | 27 | 24 | 20 | 17 | 36 | 35 | 9.731 07 | 10 | 13 | 18 | 19 | 42. 20 | 35 |
| 25 | 17. 48 | 7.1 7157 | 7246 | 7331 | 7412 | 7424 | 6.664 17 | 13 | 10 | 06 | 03 | 9.669 35 | 35 | 9.731 19 | 22 | 25 | 28 | 31 | 18 | 34 |
| 26 | 41 | 7464 | 7575 | 7657 | 7738 | 7820 | * 03 | 08 | 66 | 23 | 66 | 35 | 34 | 31 | 34 | 36 | 36 | 42 | 12 | 33 |
| 27 | 46 | 7690 | 7901 | 7689 | 8063 | 8144 | 6.663 89 | 80 | 63 | 76 | 76 | 34 | 34 | 42 | 45 | 48 | 51 | 54 | 8 | 32 |
| 28 | 52 | 8144 | 8225 | 8300 | 8387 | 8468 | 76 | 72 | 69 | 56 | 62 | 34 | 33 | 54 | 57 | 60 | 63 | 66 | 4 | 31 |
| 29 | 58 | 8466 | 8548 | 8823 | 8709 | 8790 | 69 | 59 | 55 | 52 | 48 | 33 | 33 | 66 | 60 | 72 | 74 | 77 | 42. 0 | 30 |
| 30 | 18. 0 | 7.1 5728 | 8878 | 5630 | 9030 | 9111 | 6.663 48 | 45 | 42 | 36 | 35 | 6.999 33 | 33 | 6.731 77 | 88 | 83 | 86 | 86 | 56 | 29 |
| 31 | 4 | . 6111 | 9161 | 9271 | 6351 | 9430 | 35 | 31 | 28 | 25 | 21 | 33 | 32 | * 60 | 62 | 65 | 68 | 01 | 52 | 28 |
| 32 | 8 | 9438 | 6510 | 9508 | 9678 | 9742 | 21 | 18 | 14 | 11 | 07 | 32 | 32 | 6.732 51 | 04 | 07 | 06 | 12 | 48 | 27 |
| 33 | 12 | * 6740 | 6898 | 9908 | 6987 | 8866 | * 07 | 04 | 81 | 97 | 64 | 32 | 31 | 12 | 15 | 18 | 21 | 24 | 44 | 26 |
| 34 | 16 | 7.2 0066 | 8148 | 0225 | 0304 | 0353 | 6.662 94 | 90 | 87 | 83 | 60 | 31 | 31 | 24 | 27 | 30 | 33 | 36 | 41. 48 | 25 |
| 35 | 18. 20 | 7.2 8303 | 8461 | 8540 | 0619 | 8698 | 6.662 80 | 77 | 73 | 70 | 86 | 6.699 31 | 30 | 9.732 36 | 36 | 42 | 44 | 47 | 36 | 24 |
| 36 | 24 | 5698 | 0776 | 0855 | 0933 | 1812 | 66 | 63 | 60 | 56 | 53 | 30 | 29 | 47 | 50 | 53 | 56 | 56 | 32 | 23 |
| 37 | 28 | 1812 | 1860 | 1168 | 1246 | 1325 | 53 | 46 | 46 | 42 | 30 | 29 | 29 | 59 | 62 | 65 | 66 | 71 | 26 | 22 |
| 38 | 32 | 1325 | 1403 | 1461 | 1358 | 1635 | 30 | 36 | 32 | 26 | 25 | 29 | 28 | 71 | 74 | 76 | 76 | 82 | 24 | 21 |
| 39 | 36 | 1636 | 1714 | 1762 | 1866 | 1947 | 25 | 22 | 18 | 15 | 12 | 28 | 28 | 62 | 65 | 86 | 91 | 94 | 41. 28 | 20 |
| 40 | 18. 48 | 7.2 1947 | 2024 | 2102 | 2179 | 2256 | * 12 | 86 | 85 | 01 | 98 | 9.696 28 | 27 | * 94 | 67 | 86 | 03 | 06 | 16 | 12 |
| 41 | 44 | 2256 | 2333 | 2411 | 2488 | 2565 | 9.661 66 | 64 | 61 | 88 | 84 | 27 | 27 | 6.733 06 | 66 | 11 | 14 | 17 | 12 | 18 |
| 42 | 48 | 2365 | 2642 | 2719 | 2795 | 2672 | 84 | 61 | 77 | 74 | 78 | 27 | 66 | 17 | 20 | 23 | 26 | 26 | 6 | 17 |
| 43 | 52 | 2872 | 2949 | 3095 | 3102 | 3178 | 70 | 67 | 64 | 60 | 57 | 26 | 26 | 29 | 32 | 35 | 56 | 41 | 4 | 16 |
| 44 | 56 | 3176 | 3253 | 3331 | 3407 | 3453 | 87 | 53 | 50 | 46 | 43 | 26 | 25 | 41 | 43 | 46 | 46 | 52 | 41. 8 | 15 |
| 45 | 16. 0 | 7.6 3453 | 3550 | 3635 | 3711 | 3787 | 9.661 43 | 40 | 38 | 33 | 29 | 6.299 25 | 26 | 6.733 52 | 55 | 58 | 61 | 84 | 58 | 14 |
| 46 | 4 | 3787 | 3863 | 3932 | 4015 | 4098 | 26 | 66 | 22 | 19 | 16 | 25 | 24 | 64 | 67 | 70 | 72 | 75 | 52 | 13 |
| 47 | 6 | 4090 | 4166 | 4241 | 4317 | 4362 | 15 | 12 | 86 | 85 | 02 | 24 | 24 | 73 | 76 | 81 | 64 | 67 | 48 | 12 |
| 48 | 12 | 4392 | 4468 | 4543 | 4610 | 4663 | * 62 | 96 | 95 | 62 | 88 | 24 | 23 | 87 | 66 | 63 | 66 | 06 | 44 | 11 |
| 49 | 16 | 4693 | 4768 | 4843 | 4918 | 4663 | 6.666 66 | 65 | 61 | 76 | 74 | 23 | 23 | * 06 | 01 | 64 | 07 | 18 | 40. 40 | 10 |
| 50 | 19. 20 | 7.2 4693 | 5068 | 5143 | 6217 | 5269 | 6.660 74 | 71 | 67 | 64 | 61 | 9.966 23 | 22 | 9.734 16 | 13 | 16 | 16 | 22 | 36 | 6 |
| 51 | 24 | 5292 | 5365 | 5441 | 8515 | 5560 | 61 | 57 | 54 | 50 | 47 | 29 | 26 | 26 | 25 | 28 | 31 | 33 | 32 | 6 |
| 52 | 28 | 5590 | 5664 | 5738 | 3612 | 5886 | 47 | 43 | 40 | 37 | 33 | 22 | 21 | 33 | 36 | 39 | 42 | 45 | 28 | 7 |
| 53 | 39 | 5586 | 5960 | 6034 | 6168 | 6182 | 33 | 36 | 26 | 23 | 16 | 61 | 21 | 45 | 45 | 51 | 54 | 87 | 24 | 6 |
| 54 | 36 | 6182 | 6256 | 6330 | 6463 | 6477 | 16 | 16 | 12 | 06 | 06 | 21 | 28 | 57 | 56 | 62 | 65 | 68 | 40. 28 | 5 |
| 55 | 19. 40 | 7.2 6477 | 6550 | 6524 | 6667 | 6771 | * 66 | 02 | 99 | 95 | 62 | 9.696 20 | 12 | 9.734 68 | 71 | 74 | 77 | 80 | 16 | 4 |
| 56 | 44 | 6771 | 6844 | 6917 | 6960 | 7083 | 6.656 92 | 88 | 65 | 81 | 78 | 12 | 16 | 60 | 63 | 66 | 66 | 91 | 12 | 3 |
| 57 | 48 | 7063 | 7137 | 7218 | 7282 | 7355 | 78 | 75 | 71 | 66 | 64 | 19 | 16 | * 61 | 64 | 67 | 00 | 03 | 8 | 2 |
| 58 | 52 | 7355 | 7428 | 7501 | 7573 | 7646 | 64 | 61 | 57 | 54 | 30 | 18 | 16 | 6.736 03 | 66 | 66 | 12 | 15 | 4 | 1 |
| 59 | 56 | 7646 | 7716 | 7761 | 7864 | 7636 | 50 | 47 | 44 | 40 | 37 | 18 | 17 | 15 | 17 | 20 | 63 | 26 | 46. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | Subcoverso | | | | | 11h | 175° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | Subverso | | | | | 5h | 65° |

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**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 5° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Coseneante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 22. 0 | 2.94 030 | 066 | 102 | 138 | 174 | 9.29 834 | 834 | 834 | 831 | 833 | 0.00 186 | 166 | 186 | 166 | 127 | 1.05 970 | 934 | 898 | 862 | 826 | 56 | 59 |
| 1 | 4 | 174 | 910 | 246 | 282 | 317 | 833 | 833 | 833 | 833 | 832 | 167 | 167 | 167 | 167 | 168 | 820 | 790 | 754 | 718 | 683 | 52 | 58 |
| 2 | 8 | 317 | 353 | 389 | 425 | 461 | 832 | 832 | 832 | 832 | 831 | 168 | 168 | 168 | 168 | 169 | 683 | 647 | 011 | 575 | 539 | 48 | 57 |
| 3 | 12 | 401 | 426 | 539 | 568 | 603 | 531 | 831 | 831 | 830 | 830 | 169 | 189 | 189 | 170 | 170 | 539 | 504 | 488 | 432 | 397 | 44 | 06 |
| 4 | 16 | 603 | 839 | 675 | 710 | 746 | 030 | 830 | 829 | 829 | 829 | 170 | 170 | 171 | 171 | 171 | 397 | 361 | 325 | 290 | 254 | 39. 40 | 05 |
| 5 | 20. 20 | 8.94 746 | 781 | 817 | 852 | 887 | 9.99 829 | 822 | 898 | 828 | 828 | 0.00 171 | 171 | 172 | 172 | 172 | 1.05 254 | 219 | 183 | 148 | 113 | 36 | 04 |
| 8 | 24 | * 887 | 923 | 958 | 993 | 022 | 828 | 827 | 827 | 827 | 827 | 172 | 173 | 173 | 173 | 173 | * 113 | 077 | 049 | 007 | 971 | 32 | 53 |
| 7 | 28 | 8.95 029 | 064 | 099 | 134 | 170 | 827 | 826 | 896 | 826 | 825 | 173 | 174 | 174 | 174 | 175 | 1.04 971 | 938 | 901 | 866 | 830 | 28 | 52 |
| 8 | 32 | 170 | 205 | 940 | 275 | 310 | 225 | 825 | 825 | 025 | 824 | 175 | 175 | 175 | 175 | 176 | 830 | 795 | 760 | 725 | 690 | 24 | 51 |
| 9 | 36 | 310 | 345 | 380 | 415 | 450 | 294 | 824 | 894 | 623 | 823 | 176 | 176 | 176 | 177 | 177 | 690 | 855 | 290 | 585 | 550 | 39. 20 | 50 |
| 10 | 25. 40 | 8.90 450 | 485 | 520 | 555 | 589 | 2.99 823 | 823 | 823 | 822 | 822 | 0.00 177 | 177 | 177 | 178 | 178 | 1.04 550 | 515 | 480 | 445 | 411 | 16 | 49 |
| 11 | 44 | 589 | 824 | 859 | 694 | 728 | 829 | 822 | 821 | 821 | 891 | 178 | 178 | 179 | 179 | 179 | 411 | 376 | 341 | 306 | 272 | 12 | 48 |
| 12 | 48 | 798 | 763 | 798 | 832 | 867 | 821 | 821 | 820 | 820 | 820 | 179 | 179 | 180 | 180 | 180 | 272 | 237 | 202 | 168 | 132 | 8 | 47 |
| 13 | 52 | * 887 | 902 | 936 | 971 | 005 | 820 | 819 | 819 | 819 | 819 | 180 | 181 | 181 | 181 | 181 | * 133 | 098 | 084 | 029 | 995 | 4 | 48 |
| 14 | 56 | 8.96 005 | 040 | 074 | 108 | 143 | 819 | 818 | 818 | 818 | 817 | 181 | 189 | 182 | 182 | 183 | 1.03 925 | 980 | 926 | 892 | 857 | 39. 0 | 45 |
| 15 | 21. 0 | 8.96 143 | 177 | 912 | 246 | 280 | 9.99 817 | 817 | 817 | 817 | 816 | 0.00 183 | 183 | 183 | 183 | 184 | 1.03 857 | 823 | 788 | 754 | 720 | 56 | 44 |
| 16 | 4 | 280 | 314 | 349 | 383 | 417 | 816 | 816 | 818 | 815 | 815 | 184 | 184 | 184 | 185 | 185 | 720 | 086 | 651 | 617 | 583 | 52 | 43 |
| 17 | 8 | 417 | 451 | 485 | 519 | 553 | 815 | 815 | 815 | 814 | 814 | 185 | 185 | 185 | 186 | 186 | 583 | 049 | 515 | 481 | 447 | 48 | 42 |
| 18 | 19 | 553 | 587 | 621 | 655 | 689 | 814 | 814 | 813 | 813 | 813 | 186 | 186 | 187 | 157 | 187 | 447 | 413 | 379 | 345 | 311 | 44 | 41 |
| 19 | 12 | 689 | 723 | 757 | 791 | 825 | 813 | 813 | 812 | 812 | 812 | 187 | 187 | 188 | 188 | 188 | 311 | 277 | 943 | 909 | 170 | 38. 40 | 40 |
| 20 | 21. 20 | 8.96 825 | 859 | 899 | 928 | 960 | 2.99 819 | 811 | 811 | 811 | 810 | 0.00 188 | 189 | 189 | 189 | 120 | 1.03 175 | 141 | 108 | 074 | 040 | 36 | 39 |
| 21 | 24 | * 260 | 994 | 827 | 061 | 095 | 810 | 010 | 810 | 810 | 802 | 190 | 190 | 120 | 190 | 191 | * 040 | 006 | 973 | 939 | 905 | 39 | 38 |
| 22 | 28 | 8.97 095 | 198 | 129 | 195 | 299 | 809 | 809 | 809 | 508 | 808 | 191 | 191 | 191 | 192 | 199 | 1.22 905 | 879 | 838 | 805 | 771 | 28 | 37 |
| 23 | 32 | 229 | 262 | 296 | 399 | 363 | 808 | 808 | 807 | 807 | 807 | 192 | 192 | 193 | 193 | 193 | 771 | 738 | 704 | 871 | 637 | 24 | 32 |
| 24 | 36 | 363 | 398 | 430 | 463 | 496 | 807 | 807 | 806 | 806 | 806 | 193 | 193 | 194 | 194 | 194 | ·637 | 604 | 570 | 537 | 504 | 38. 20 | 35 |
| 25 | 21. 40 | 8.97 496 | 530 | 563 | 596 | 822 | 9.99 806 | 805 | 805 | 805 | 804 | 0.00 194 | 195 | 195 | 195 | 196 | 1.02 504 | 470 | 437 | 404 | 371 | 16 | 34 |
| 26 | 44 | 829 | 662 | 696 | 729 | 762 | 804 | 804 | 804 | 804 | 803 | 198 | 198 | 196 | 126 | 197 | 371 | 338 | 301 | 271 | 232 | 12 | 33 |
| 27 | 48 | 762 | 795 | 828 | 881 | 891 | 803 | 803 | 803 | 802 | 802 | 197 | 197 | 197 | 198 | 198 | 238 | 205 | 172 | 139 | 106 | 8 | 32 |
| 28 | 59 | * 891 | 927 | 960 | 993 | 026 | 802 | 802 | 801 | 801 | 801 | 198 | 198 | 192 | 199 | 199 | * 106 | 073 | 040 | 007 | 974 | 4 | 31 |
| 29 | 56 | 8.98 026 | 059 | 092 | 124 | 157 | 801 | 801 | 800 | 800 | 800 | 199 | 199 | 200 | 200 | 200 | 1.21 974 | 941 | 908 | 872 | 843 | 38. 0 | 30 |
| 30 | 22. 0 | 8.98 157 | 190 | 223 | 256 | 288 | 9.99 800 | 799 | 792 | 792 | 798 | 0.00 900 | 201 | 901 | 201 | 202 | 1.01 843 | 810 | 777 | 744 | 712 | 56 | 29 |
| 31 | 4 | 288 | 321 | 354 | 386 | 419 | 798 | 798 | 798 | 797 | 797 | 202 | 202 | 202 | 203 | 203 | 712 | 679 | 646 | 614 | 581 | 52 | 28 |
| 32 | 8 | 419 | 401 | 484 | 517 | 512 | 797 | 797 | 797 | 796 | 790 | 203 | 203 | 203 | 204 | 204 | 581 | 549 | 516 | 483 | 451 | 48 | 27 |
| 33 | 12 | 549 | 582 | 614 | 646 | 279 | 796 | 796 | 795 | 795 | 795 | 204 | 204 | 205 | 205 | 205 | 451 | 418 | 386 | 354 | 391 | 44 | 26 |
| 34 | 18 | 679 | 711 | 744 | 776 | 808 | 795 | 794 | 794 | 794 | 794 | 205 | 206 | 906 | 206 | 206 | 321 | 989 | 956 | 224 | 192 | 37. 40 | 25 |
| 35 | 92. 20 | 8.98 808 | 841 | 873 | 905 | 937 | 9.99 794 | 793 | 723 | 793 | 722 | 0.00 206 | 207 | 907 | 207 | 208 | 1.01 199 | 159 | 127 | 095 | 063 | 36 | 24 |
| 36 | 24 | * 937 | 970 | 002 | 034 | 066 | 792 | 792 | 792 | 791 | 791 | 208 | 908 | 908 | 909 | 202 | * 063 | 030 | 998 | 966 | 934 | 32 | 23 |
| 37 | 28 | 8.99 066 | 098 | 130 | 182 | 194 | 791 | 790 | 790 | 790 | 790 | 909 | 210 | 210 | 210 | 210 | 1.90 934 | 902 | 870 | 838 | 806 | 28 | 22 |
| 38 | 39 | 194 | 126 | 258 | 290 | 322 | 790 | 789 | 789 | 789 | 788 | 210 | 211 | 211 | 211 | 212 | 806 | 774 | 749 | 710 | 678 | 21 | 21 |
| 39 | 30 | 322 | 354 | 386 | 418 | 450 | 788 | 788 | 788 | 787 | 787 | 212 | 212 | 219 | 213 | 213 | 678 | 646 | 614 | 582 | 552 | 37. 20 | 28 |
| 40 | 22. 40 | 8.99 450 | 481 | 513 | 545 | 577 | 9.99 787 | 787 | 786 | 786 | 786 | 0.00 213 | 213 | 214 | 214 | 214 | 1.00 550 | 519 | 487 | 455 | 423 | 16 | 19 |
| 41 | 44 | 577 | 009 | 640 | 672 | 704 | 786 | 786 | 785 | 785 | 785 | 214 | 214 | 215 | 215 | 215 | 423 | 391 | 360 | 398 | 296 | 12 | 12 |
| 42 | 48 | 704 | 735 | 707 | 798 | 830 | 785 | 784 | 784 | 784 | 783 | 215 | 216 | 216 | 216 | 917 | 296 | 965 | 933 | 202 | 170 | 8 | 17 |
| 43 | 52 | 230 | 861 | 893 | 924 | 956 | 783 | 783 | 783 | 783 | 789 | 217 | 917 | 217 | 217 | 918 | 270 | 139 | 107 | 076 | 044 | 4 | 12 |
| 44 | 56 | * 952 | 987 | 019 | 050 | 082 | 702 | 782 | 782 | 781 | 761 | 218 | 218 | 218 | 219 | 919 | * 044 | 013 | 981 | 250 | 212 | 37. 0 | 15 |
| 45 | 23. 0 | 9.00 082 | 113 | 144 | 178 | 907 | 9.92 781 | 781 | 780 | 780 | 780 | 0.00 219 | 219 | 920 | 920 | 220 | 0.99 918 | 887 | 856 | 894 | 793 | 56 | 14 |
| 46 | 4 | 207 | 938 | 269 | 301 | 332 | 780 | 779 | 779 | 779 | 778 | 290 | 291 | 221 | 221 | 222 | 793 | 762 | 731 | 699 | 668 | 52 | 13 |
| 47 | 8 | 339 | 363 | 394 | 425 | 456 | 778 | 778 | 777 | 777 | 777 | 222 | 222 | 923 | 223 | 923 | 668 | 637 | 606 | 575 | 544 | 48 | 12 |
| 48 | 12 | 456 | 487 | 518 | 550 | 581 | 777 | 777 | 776 | 776 | 776 | 223 | 293 | 224 | 224 | 924 | 544 | 513 | 482 | 450 | 419 | 44 | 11 |
| 49 | 12 | 581 | 619 | 642 | 673 | 704 | 776 | 775 | 775 | 775 | 775 | 221 | 925 | 295 | 225 | 225 | 419 | 388 | 358 | 327 | 296 | 36. 40 | 19 |
| 50 | 23. 20 | 9.00 704 | 735 | 766 | 797 | 898 | 9.92 775 | 774 | 774 | 774 | 773 | 9.00 225 | 226 | 996 | 226 | 297 | 0.99 296 | 265 | 234 | 903 | 172 | 30 | 9 |
| 51 | 24 | 298 | 859 | 889 | 990 | 951 | 773 | 773 | 773 | 772 | 772 | 227 | 227 | 297 | 228 | 228 | 172 | 141 | 111 | 080 | 049 | 32 | 8 |
| 52 | 28 | * 951 | 982 | 019 | 043 | 274 | 772 | 779 | 771 | 771 | 771 | 298 | 228 | 299 | 229 | 222 | * 049 | 018 | 988 | 957 | 926 | 28 | 7 |
| 53 | 39 | 9.01 074 | 104 | 135 | 186 | 196 | 771 | 770 | 772 | 770 | 769 | 299 | 232 | 230 | 230 | 231 | 0.98 926 | 896 | 865 | 834 | 804 | 24 | 6 |
| 54 | 36 | 196 | 227 | 257 | 988 | 318 | 769 | 769 | 769 | 768 | 768 | 231 | 231 | 231 | 232 | 232 | 804 | 773 | 743 | 712 | 689 | 36. 20 | 5 |
| 55 | 23. 40 | 9.01 318 | 349 | 379 | 410 | 440 | 9.99 768 | 768 | 767 | 767 | 787 | 2.05 932 | 239 | 233 | 233 | 933 | 0.98 682 | 651 | 621 | 590 | 560 | 10 | 4 |
| 56 | 44 | 440 | 170 | 501 | 531 | 561 | 767 | 766 | 766 | 766 | 785 | 233 | 234 | 234 | 234 | 235 | 560 | 530 | 499 | 489 | 439 | 19 | 3 |
| 57 | 48 | 562 | 592 | 692 | 652 | 682 | 765 | 765 | 765 | 764 | 764 | 235 | 235 | 235 | 936 | 236 | 439 | 408 | 378 | 348 | 318 | 8 | 2 |
| 58 | 52 | 682 | 713 | 743 | 773 | 803 | 761 | 784 | 763 | 763 | 763 | 236 | 236 | 237 | 237 | 237 | 318 | 287 | 957 | 227 | 197 | 4 | 1 |
| 59 | 56 | 803 | 833 | 863 | 893 | 923 | 763 | 762 | 762 | 762 | 781 | 238 | 238 | 238 | 238 | 239 | 197 | 127 | 137 | 107 | 077 | 36. 0 | 2 |
| | | 4° 80" | 3° 15" | 2° 30" | 1° 15" | 5° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 80" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 174° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 84° |

## Talba XVI. Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 5° / 95° | 0h / 6h | Verso / Coverso | | | | | Coverso / Subverso | | | | | Subverso / Subcoverso | | | | | Subcoverso / Verso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 80″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 9° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 9° | 46″ 3° | 60″ 4° | | |
| 0 | 28. 8 | 7.27 *936 | 008 | 080 | 153 | 225 | 9.65 937 | 933 | 930 | 926 | 923 | 9.99 917 | 917 | 917 | 917 | 917 | 9.73 626 | 629 | 632 | 535 | 538 | 88 | 69 |
| 1 | 4 | 7.28 225 | 297 | 369 | 441 | 513 | 923 | 919 | 916 | 913 | 909 | 917 | 917 | 917 | 916 | 916 | 638 | 641 | 544 | 546 | 549 | 62 | 58 |
| 2 | 9 | 613 | 584 | 656 | 728 | 800 | 909 | 906 | 902 | 899 | 895 | 916 | 916 | 916 | 916 | 916 | 549 | 552 | 655 | 558 | 561 | 48 | 67 |
| 3 | 12 | * 800 | 871 | 943 | 014 | 086 | 895 | 892 | 888 | 883 | 881 | 916 | 916 | 916 | 915 | 915 | 561 | 664 | 567 | 569 | 572 | 44 | 56 |
| 4 | 16 | 7.29 086 | 157 | 228 | 300 | 371 | 881 | 877 | 874 | 871 | 868 | 915 | 915 | 915 | 915 | 915 | 572 | 575 | 678 | 581 | 584 | 39. 40 | 55 |
| 5 | 20. 20 | 7.29 871 | 442 | 513 | 584 | 655 | 9.66 868 | 864 | 861 | 857 | 854 | 9.99 914 | 914 | 914 | 914 | 914 | 9.73 584 | 587 | 590 | 593 | 596 | 36 | 54 |
| 6 | 24 | 655 | 726 | 797 | 067 | 938 | 854 | 850 | 847 | 844 | 840 | 914 | 914 | 914 | 914 | 914 | 696 | 598 | 601 | 604 | 607 | 32 | 53 |
| 7 | 20 | * 938 | 009 | 079 | 150 | 220 | 840 | 837 | 834 | 830 | 826 | 913 | 913 | 913 | 913 | 91. | 607 | 610 | 613 | 616 | 619 | 28 | 52 |
| 8 | 32 | 7.36 220 | 291 | 361 | 431 | 501 | 826 | 823 | 819 | 816 | 812 | 913 | 913 | 913 | 912 | 912 | 619 | 622 | 624 | 627 | 630 | 24 | 61 |
| 9 | 86 | 601 | 571 | 642 | 712 | 782 | 812 | 809 | 806 | 802 | 799 | 912 | 912 | 912 | 912 | 912 | 630 | 633 | 636 | 639 | 642 | 39. 20 | 60 |
| 10 | 20. 40 | * 782 | 852 | 922 | 992 | 062 | 9.65 799 | 795 | 792 | 788 | 785 | 9.99 912 | 912 | 912 | 911 | 911 | 9.73 642 | 645 | 648 | 650 | 653 | 16 | 49 |
| 11 | 44 | 7.31 862 | 131 | 201 | 271 | 340 | 785 | 781 | 778 | 774 | 771 | 911 | 911 | 911 | 911 | 911 | 663 | 656 | 659 | 662 | 665 | 12 | 48 |
| 12 | 48 | 840 | 410 | 479 | 549 | 618 | 771 | 767 | 764 | 761 | 757 | 911 | 911 | 910 | 910 | 910 | 665 | 668 | 671 | 673 | 676 | 8 | 47 |
| 13 | 62 | 818 | 687 | 767 | 826 | 895 | 757 | 754 | 750 | 747 | 743 | 910 | 910 | 910 | 910 | 909 | 676 | 679 | 682 | 665 | 688 | 4 | 46 |
| 14 | 86 | * 895 | 964 | 033 | 102 | 171 | 743 | 740 | 736 | 733 | 729 | 909 | 909 | 909 | 909 | 909 | 888 | 691 | 694 | 697 | 699 | 89. 0 | 45 |
| 15 | 21. 0 | 7.32 171 | 240 | 309 | 377 | 446 | 9.65 729 | 726 | 722 | 719 | 716 | 9.99 909 | 909 | 909 | 908 | 908 | 9.78 699 | 702 | 705 | 708 | 711 | 56 | 44 |
| 16 | 4 | 446 | 515 | 583 | 652 | 720 | 716 | 712 | 709 | 705 | 702 | 908 | 908 | 908 | 908 | 90. | 711 | 714 | 717 | 720 | 722 | 52 | 43 |
| 17 | 9 | 720 | 789 | 857 | 925 | 994 | 709 | 698 | 695 | 691 | 688 | 908 | 908 | 907 | 907 | 907 | 722 | 725 | 728 | 731 | 734 | 48 | 42 |
| 18 | 12 | * 994 | 062 | 130 | 198 | 266 | 688 | 681 | 681 | 677 | 674 | 907 | 907 | 907 | 907 | 906 | 734 | 737 | 740 | 743 | 746 | 44 | 41 |
| 19 | 16 | 7.33 268 | 334 | 402 | 470 | 538 | 674 | 671 | 667 | 664 | 660 | 906 | 906 | 906 | 906 | 906 | 746 | 748 | 751 | 754 | 757 | 36. 40 | 40 |
| 20 | 21. 20 | 7.33 538 | 606 | 673 | 741 | 809 | 9.65. 660 | 657 | 653 | 650 | 646 | 9.99 906 | 906 | 906 | 905 | 905 | 9.73 757 | 760 | 763 | 766 | 769 | 36 | 39 |
| 21 | 24 | * 809 | 876 | 944 | 011 | 079 | 646 | 643 | 639 | 636 | 632 | 905 | 905 | 905 | 905 | 905 | 769 | 771 | 774 | 777 | 780 | 32 | 38 |
| 22 | 28 | 7.34 079 | 146 | 213 | 281 | 348 | 632 | 629 | 625 | 622 | 618 | 905 | 905 | 904 | 901 | 90. | 780 | 783 | 786 | 789 | 792 | 28 | 37 |
| 23 | 32 | 348 | 415 | 482 | 549 | 616 | 818 | 615 | 612 | 608 | 605 | 904 | 904 | 904 | 904 | 904 | 792 | 794 | 797 | 800 | 803 | 24 | 36 |
| 24 | 88 | 616 | 683 | 750 | 817 | 884 | 605 | 601 | 598 | 594 | 591 | 904 | 903 | 903 | 903 | 90. | 803 | 806 | 809 | 812 | 815 | 38. 20 | 35 |
| 25 | 21. 40 | * 884 | 950 | 017 | 084 | 150 | 9.65 591 | 587 | 584 | 580 | 577 | 9.99 903 | 903 | 903 | 902 | 902 | 9.73 815 | 817 | 820 | 823 | 826 | 16 | 34 |
| 26 | 44 | 7.38 130 | 217 | 283 | 350 | 416 | 577 | 573 | 570 | 566 | 563 | 902 | 902 | 902 | 902 | 902 | 826 | 829 | 832 | 835 | 837 | 12 | 33 |
| 27 | 48 | 418 | 482 | 549 | 615 | 681 | 663 | 559 | 556 | 553 | 519 | 902 | 902 | 901 | 901 | 901 | 837 | 840 | 843 | 846 | 849 | 8 | 32 |
| 28 | 62 | 681 | 747 | 813 | 879 | 945 | 549 | 546 | 542 | 539 | 535 | 901 | 901 | 901 | 901 | 901 | 849 | 852 | 855 | 858 | 860 | 4 | 31 |
| 29 | 66 | * 945 | 011 | 077 | 143 | 209 | 835 | 532 | 528 | 525 | 521 | 901 | 901 | 900 | 900 | 900 | 860 | 863 | 866 | 869 | 872 | 38. 0 | 30 |
| 30 | 22. 0 | 7.36 269 | 274 | 340 | 406 | 471 | 9.65 521 | 518 | 514 | 511 | 507 | 9.99 900 | 900 | 900 | 900 | 899 | 9.73 872 | 875 | 878 | 881 | 883 | 86 | 29 |
| 81 | 4 | 471 | 537 | 602 | 668 | 733 | 607 | 504 | 500 | 497 | 493 | 899 | 899 | 899 | 899 | 699 | 883 | 886 | 889 | 892 | 895 | 52 | 28 |
| 32 | 8 | 733 | 798 | 864 | 929 | 994 | 493 | 490 | 486 | 483 | 480 | 899 | 899 | 898 | 898 | 898 | 895 | 898 | 901 | 903 | 906 | 48 | 27 |
| 33 | 12 | * 994 | 059 | 124 | 189 | 254 | 480 | 476 | 473 | 469 | 466 | 898 | 898 | 898 | 898 | 897 | 906 | 909 | 912 | 915 | 918 | 44 | 26 |
| 84 | 16 | 7.87 254 | 319 | 384 | 449 | 51. | 466 | 462 | 459 | 455 | 452 | 897 | 897 | 897 | 897 | 897 | 918 | 921 | 924 | 926 | 929 | 37. 40 | 25 |
| 35 | 22. 20 | 7.37 514 | 579 | 643 | 708 | 772 | 9.63 452 | 448 | 445 | 441 | 438 | 9.99 897 | 897 | 897 | 896 | 896 | 9.73 929 | 932 | 935 | 938 | 941 | 36 | 24 |
| 36 | 24 | * 772 | 837 | 902 | 966 | 030 | 438 | 434 | 431 | 427 | 424 | 696 | 896 | 896 | 896 | 896 | 911 | 944 | 946 | 949 | 952 | 32 | 23 |
| 37 | 28 | 7.38 030 | 005 | 139 | 223 | 288 | 424 | 420 | 417 | 413 | 410 | 696 | 895 | 895 | 895 | 895 | 952 | 955 | 958 | 961 | 964 | 28 | 22 |
| 36 | 82 | 288 | 352 | 416 | 480 | 514 | 410 | 406 | 403 | 399 | 395 | 895 | 895 | 895 | 895 | 894 | 964 | 966 | 969 | 972 | 975 | 24 | 21 |
| 39 | 86 | 844 | 608 | 672 | 736 | 800 | 396 | 392 | 389 | 385 | 382 | 894 | 894 | 894 | 894 | 894 | 975 | 978 | 981 | 984 | 987 | 37. 20 | 20 |
| 40 | 22. 40 | * 800 | 863 | 927 | 991 | 054 | 9.65 382 | 378 | 375 | 371 | 368 | 9.99 894 | 894 | 893 | 893 | 893 | 9.73 987 | 989 | 992 | 995 | 998 | 16 | 19 |
| 41 | 44 | 7.39 054 | 118 | 182 | 215 | 309 | 868 | 365 | 361 | 358 | 354 | 893 | 893 | 893 | 893 | 892 | * 998 | 001 | 004 | 007 | 009 | 12 | 18 |
| 42 | 48 | 809 | 372 | 435 | 499 | 562 | 854 | 351 | 347 | 344 | 340 | 892 | 892 | 892 | 892 | 892 | 9.74 009 | 012 | 015 | 018 | 021 | 8 | 17 |
| 48 | 82 | 882 | 625 | 688 | 752 | 815 | 340 | 337 | 333 | 330 | 326 | 892 | 892 | 892 | 891 | 891 | 021 | 024 | 027 | 029 | 032 | 4 | 16 |
| 44 | 86 | * 815 | 878 | 941 | 004 | 067 | 326 | 323 | 319 | 316 | 312 | 891 | 891 | 891 | 891 | 891 | 032 | 036 | 038 | 041 | 044 | 37. 0 | 16 |
| 45 | 23. 0 | 7.40 067 | 129 | 192 | 255 | 318 | 9.65 312 | 309 | 305 | 302 | 298 | 9.99 891 | 890 | 890 | 890 | 890 | 9.74 044 | 047 | 049 | 052 | 055 | 66 | 14 |
| 46 | 4 | 318 | 380 | 443 | 606 | 565 | 298 | 295 | 291 | 288 | 284 | 690 | 890 | 890 | 889 | 889 | 055 | 058 | 961 | 064 | 067 | 62 | 13 |
| 47 | 8 | 568 | 831 | 692 | 756 | 618 | 284 | 281 | 277 | 274 | 270 | 889 | 889 | 889 | 889 | 889 | 067 | 069 | 072 | 075 | 078 | 48 | 12 |
| 48 | 12 | * 818 | 880 | 943 | 005 | 067 | 270 | 267 | 263 | 260 | 256 | 889 | 889 | 888 | 888 | 888 | 078 | 081 | 084 | 087 | 089 | 44 | 11 |
| 49 | 16 | 7.41 067 | 129 | 191 | 253 | 315 | 256 | 253 | 249 | 216 | 242 | 888 | 888 | 888 | 866 | 887 | 089 | 092 | 095 | 098 | 101 | 36. 40 | 16 |
| 60 | 23. 20 | 7.41 315 | 377 | 439 | 501 | 563 | 9.65 242 | 239 | 235 | 232 | 228 | 9.99 887 | 887 | 887 | 887 | 887 | 9.74 101 | 104 | 106 | 109 | 112 | 36 | 9 |
| 51 | 24 | 663 | 625 | 686 | 748 | 810 | 228 | 226 | 221 | 218 | 214 | 887 | 887 | 866 | 886 | 886 | 112 | 115 | 118 | 121 | 124 | 32 | 8 |
| 52 | 28 | * 610 | 871 | 933 | 995 | 036 | 214 | 211 | 207 | 204 | 200 | 886 | 886 | 886 | 886 | 885 | 124 | 126 | 129 | 132 | 135 | 28 | 7 |
| 83 | 82 | 7.42 036 | 117 | 179 | 240 | 301 | 200 | 197 | 193 | 190 | 186 | 885 | 885 | 885 | 885 | 885 | 133 | 138 | 141 | 144 | 146 | 21 | 6 |
| 54 | 86 | 301 | 363 | 424 | 485 | 546 | 186 | 183 | 179 | 175 | 172 | 885 | 885 | 685 | 884 | 88. | 145 | 149 | 152 | 155 | 158 | 36. 20 | 5 |
| 85 | 23. 40 | 7.42 546 | 607 | 668 | 729 | 790 | 9.65 172 | 169 | 165 | 162 | 158 | 9.99 884 | 884 | 884 | 884 | 884 | 9.74 158 | 161 | 163 | 166 | 169 | 16 | 4 |
| 56 | 44 | * 790 | 851 | 919 | 973 | 03. | 158 | 155 | 151 | 148 | 144 | 884 | 883 | 883 | 883 | 883 | 169 | 172 | 175 | 176 | 181 | 12 | 3 |
| 67 | 48 | 7.43 834 | 095 | 156 | 216 | 277 | 144 | 141 | 137 | 134 | 130 | 883 | 883 | 883 | 882 | 882 | 181 | 183 | 186 | 169 | 122 | 6 | 2 |
| 68 | 52 | 277 | 337 | 398 | 458 | 519 | 130 | 127 | 123 | 120 | 116 | 882 | 882 | 882 | 882 | 882 | 192 | 195 | 198 | 200 | 203 | 4 | 1 |
| 59 | 66 | 819 | 579 | 639 | 708 | 760 | 116 | 113 | 109 | 106 | 102 | 682 | 881 | 861 | 881 | 881 | 203 | 206 | 209 | 212 | 215 | 36. 8 | 8 |
| | | 4° 66″ | 8° 45″ | 2° 36″ | 1° 15″ | 8° 8″ | 4° 60″ | 3° 46″ | 2° 36″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 8″ | 4° 60″ | 8° 45″ | 2° 30″ | 1° 18″ | 0° 8″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 11h | 174° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 5h | 84° |

Digitized by Google

TABLA XVI. Logaritmos, Senos, Cosenos, Secantes y Cosecantes.

| 6° / 96° | 0h / 6h | Seno / Coseno | | | | | Coseno / Seno | | | | | Secante / Cosecante | | | | | Cosecante / Secante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 24. 0 | 9.01*923 | 954 | 984 | 014 | 043 | 9.99 761 | 761 | 761 | 760 | 760 | 0.00 239 | 239 | 239 | 240 | 240 | 0.98*077 | 046 | 016 | 986 | 957 | 56 | 59 |
| 1 | 4 | 9.02 043 | 073 | 103 | 133 | 163 | 760 | 760 | 759 | 759 | 759 | 240 | 240 | 241 | 241 | 241 | 0.97 957 | 927 | 897 | 867 | 837 | 52 | 58 |
| 2 | 8 | 163 | 193 | 223 | 253 | 283 | 759 | 758 | 758 | 758 | 757 | 241 | 242 | 242 | 242 | 243 | 837 | 807 | 777 | 747 | 717 | 48 | 57 |
| 3 | 12 | 283 | 312 | 342 | 372 | 402 | 757 | 757 | 757 | 756 | 756 | 243 | 243 | 243 | 244 | 244 | 717 | 688 | 658 | 628 | 598 | 44 | 56 |
| 4 | 16 | 402 | 431 | 461 | 491 | 520 | 756 | 756 | 755 | 755 | 755 | 244 | 244 | 245 | 245 | 245 | 598 | 569 | 539 | 509 | 480 | 35. 40 | 55 |
| 5 | 24. 20 | 9.02 520 | 550 | 579 | 609 | 639 | 9.99 755 | 754 | 754 | 754 | 753 | 0.00 245 | 246 | 246 | 246 | 247 | 0.97 480 | 450 | 421 | 391 | 361 | 36 | 54 |
| 6 | 24 | 639 | 668 | 698 | 727 | 757 | 753 | 753 | 753 | 752 | 752 | 247 | 247 | 247 | 248 | 248 | 361 | 332 | 302 | 273 | 243 | 32 | 53 |
| 7 | 28 | 757 | 786 | 816 | 845 | 874 | 752 | 752 | 751 | 751 | 751 | 248 | 248 | 249 | 249 | 249 | 243 | 214 | 184 | 155 | 126 | 28 | 52 |
| 8 | 32 | 874 | 904 | 933 | 962 | 992 | 751 | 750 | 750 | 750 | 749 | 249 | 250 | 250 | 250 | 251 | 126 | 096 | 067 | 038 | 008 | 24 | 51 |
| 9 | 36 | * 992 | 021 | 050 | 080 | 109 | 749 | 749 | 749 | 748 | 748 | 251 | 251 | 251 | 252 | 252 | * 008 | 979 | 950 | 920 | 891 | 35. 20 | 50 |
| 10 | 24. 40 | 9.03 109 | 138 | 167 | 197 | 226 | 9.99 748 | 748 | 747 | 747 | 747 | 0.00 252 | 252 | 253 | 253 | 253 | 0.96 891 | 862 | 833 | 803 | 774 | 16 | 49 |
| 11 | 44 | 226 | 255 | 284 | 313 | 342 | 747 | 746 | 746 | 746 | 745 | 253 | 254 | 254 | 254 | 255 | 774 | 745 | 716 | 687 | 658 | 12 | 48 |
| 12 | 48 | 342 | 371 | 400 | 429 | 458 | 745 | 745 | 745 | 744 | 744 | 255 | 255 | 255 | 256 | 256 | 658 | 629 | 600 | 571 | 542 | 8 | 47 |
| 13 | 52 | 458 | 487 | 516 | 545 | 574 | 744 | 744 | 743 | 743 | 742 | 256 | 256 | 257 | 257 | 258 | 542 | 513 | 484 | 455 | 426 | 4 | 46 |
| 14 | 56 | 574 | 603 | 632 | 661 | 690 | 742 | 742 | 742 | 741 | 741 | 258 | 258 | 258 | 259 | 259 | 426 | 397 | 368 | 339 | 310 | 35. 0 | 45 |
| 15 | 25. 0 | 9.03 690 | 718 | 747 | 776 | 805 | 9.99 741 | 741 | 740 | 740 | 740 | 0.00 259 | 259 | 260 | 260 | 260 | 0.96 310 | 282 | 253 | 224 | 195 | 56 | 44 |
| 16 | 4 | 805 | 834 | 862 | 891 | 920 | 740 | 739 | 739 | 739 | 738 | 260 | 261 | 261 | 261 | 262 | 195 | 166 | 138 | 109 | 080 | 52 | 43 |
| 17 | 8 | * 920 | 949 | 977 | 006 | 034 | 738 | 738 | 738 | 737 | 737 | 262 | 262 | 262 | 263 | 263 | * 080 | 052 | 023 | 994 | 966 | 48 | 42 |
| 18 | 12 | 9.04 034 | 063 | 091 | 120 | 149 | 737 | 737 | 736 | 736 | 736 | 263 | 263 | 264 | 264 | 264 | 0.95 966 | 937 | 909 | 880 | 851 | 44 | 41 |
| 19 | 16 | 149 | 177 | 206 | 234 | 262 | 736 | 735 | 735 | 734 | 734 | 264 | 265 | 265 | 266 | 266 | 851 | 823 | 794 | 766 | 738 | 34. 40 | 40 |
| 20 | 25. 20 | 9.04 262 | 291 | 319 | 348 | 376 | 9.99 734 | 734 | 733 | 733 | 733 | 0.00 266 | 266 | 267 | 267 | 267 | 0.95 738 | 709 | 681 | 652 | 624 | 36 | 39 |
| 21 | 24 | 376 | 405 | 433 | 461 | 490 | 733 | 732 | 732 | 732 | 731 | 267 | 268 | 268 | 268 | 269 | 624 | 595 | 567 | 539 | 510 | 32 | 38 |
| 22 | 28 | 490 | 518 | 546 | 574 | 603 | 731 | 731 | 730 | 730 | 730 | 269 | 269 | 270 | 270 | 270 | 510 | 482 | 454 | 426 | 397 | 28 | 37 |
| 23 | 32 | 603 | 631 | 659 | 687 | 715 | 730 | 730 | 729 | 729 | 728 | 270 | 270 | 271 | 271 | 272 | 397 | 369 | 341 | 313 | 285 | 24 | 36 |
| 24 | 36 | 715 | 744 | 772 | 800 | 828 | 728 | 728 | 728 | 727 | 727 | 272 | 272 | 272 | 273 | 273 | 285 | 256 | 228 | 200 | 172 | 34. 20 | 35 |
| 25 | 25. 40 | 9.04 828 | 856 | 884 | 912 | 940 | 9.99 727 | 727 | 726 | 726 | 726 | 0.00 273 | 273 | 274 | 274 | 274 | 0.95 172 | 144 | 116 | 088 | 060 | 16 | 34 |
| 26 | 44 | * 940 | 968 | 996 | 024 | 052 | 726 | 725 | 725 | 725 | 724 | 274 | 275 | 275 | 275 | 276 | * 060 | 032 | 004 | 976 | 948 | 12 | 33 |
| 27 | 48 | 9.05 052 | 080 | 108 | 136 | 164 | 724 | 724 | 724 | 723 | 723 | 276 | 276 | 276 | 277 | 277 | 0.94 948 | 920 | 892 | 864 | 836 | 8 | 32 |
| 28 | 52 | 164 | 191 | 219 | 247 | 275 | 723 | 722 | 722 | 722 | 721 | 277 | 278 | 278 | 278 | 279 | 836 | 809 | 781 | 753 | 725 | 4 | 31 |
| 29 | 56 | 275 | 303 | 330 | 358 | 386 | 721 | 721 | 721 | 720 | 720 | 279 | 279 | 279 | 280 | 280 | 725 | 697 | 670 | 642 | 614 | 34. 0 | 30 |
| 30 | 26. 0 | 9.05 386 | 414 | 441 | 469 | 497 | 9.99 720 | 720 | 719 | 719 | 718 | 0.00 280 | 280 | 281 | 281 | 282 | 0.94 614 | 586 | 559 | 531 | 503 | 56 | 29 |
| 31 | 4 | 497 | 524 | 552 | 579 | 607 | 718 | 718 | 718 | 717 | 717 | 282 | 282 | 282 | 283 | 283 | 503 | 476 | 448 | 421 | 393 | 52 | 28 |
| 32 | 8 | 607 | 635 | 662 | 690 | 717 | 717 | 717 | 716 | 716 | 716 | 283 | 283 | 284 | 284 | 284 | 393 | 365 | 338 | 310 | 283 | 48 | 27 |
| 33 | 12 | 717 | 745 | 772 | 800 | 827 | 716 | 715 | 715 | 714 | 714 | 284 | 285 | 285 | 286 | 286 | 283 | 255 | 228 | 200 | 173 | 44 | 26 |
| 34 | 16 | 827 | 855 | 882 | 909 | 937 | 714 | 714 | 713 | 713 | 713 | 286 | 286 | 287 | 287 | 287 | 173 | 145 | 118 | 091 | 063 | 33. 40 | 25 |
| 35 | 26. 20 | * 937 | 964 | 991 | 019 | 046 | 9.99 713 | 712 | 712 | 712 | 711 | 0.00 287 | 288 | 288 | 288 | 289 | * 063 | 036 | 009 | 981 | 954 | 36 | 24 |
| 36 | 24 | 9.06 046 | 073 | 101 | 128 | 155 | 711 | 711 | 710 | 710 | 710 | 289 | 289 | 290 | 290 | 290 | 0.93 954 | 927 | 899 | 872 | 845 | 32 | 23 |
| 37 | 28 | 155 | 182 | 210 | 237 | 264 | 710 | 709 | 709 | 709 | 708 | 290 | 291 | 291 | 291 | 292 | 845 | 818 | 790 | 763 | 736 | 28 | 22 |
| 38 | 32 | 264 | 291 | 318 | 345 | 372 | 708 | 708 | 708 | 707 | 707 | 292 | 292 | 292 | 293 | 293 | 736 | 709 | 682 | 655 | 628 | 24 | 21 |
| 39 | 36 | 372 | 399 | 426 | 454 | 481 | 707 | 706 | 706 | 706 | 705 | 293 | 294 | 294 | 294 | 295 | 628 | 601 | 574 | 546 | 519 | 33. 20 | 20 |
| 40 | 26. 40 | 9.06 481 | 508 | 535 | 562 | 589 | 9.99 705 | 705 | 705 | 704 | 704 | 0.00 295 | 295 | 295 | 296 | 296 | 0.93 519 | 492 | 465 | 438 | 411 | 16 | 19 |
| 41 | 44 | 589 | 615 | 642 | 669 | 696 | 704 | 703 | 703 | 703 | 702 | 296 | 297 | 297 | 297 | 298 | 411 | 385 | 358 | 331 | 304 | 12 | 18 |
| 42 | 48 | 696 | 723 | 750 | 777 | 804 | 702 | 702 | 702 | 701 | 701 | 298 | 298 | 298 | 299 | 299 | 304 | 277 | 250 | 223 | 196 | 8 | 17 |
| 43 | 52 | 804 | 830 | 857 | 884 | 911 | 701 | 701 | 700 | 700 | 699 | 299 | 299 | 300 | 300 | 301 | 196 | 170 | 143 | 116 | 089 | 4 | 16 |
| 44 | 56 | * 911 | 937 | 964 | 991 | 018 | 699 | 699 | 699 | 698 | 698 | 301 | 301 | 301 | 302 | 302 | * 089 | 063 | 036 | 009 | 982 | 33. 0 | 15 |
| 45 | 27. 0 | 9.07 018 | 044 | 071 | 098 | 124 | 9.99 698 | 697 | 697 | 697 | 696 | 0.00 302 | 303 | 303 | 303 | 304 | 0.92 982 | 956 | 929 | 902 | 876 | 56 | 14 |
| 46 | 4 | 124 | 151 | 177 | 204 | 231 | 696 | 696 | 696 | 695 | 695 | 304 | 304 | 304 | 305 | 305 | 876 | 849 | 823 | 796 | 769 | 52 | 13 |
| 47 | 8 | 231 | 257 | 284 | 310 | 337 | 695 | 695 | 694 | 694 | 693 | 305 | 305 | 306 | 306 | 307 | 769 | 743 | 716 | 690 | 663 | 48 | 12 |
| 48 | 12 | 337 | 363 | 390 | 416 | 442 | 693 | 693 | 693 | 692 | 692 | 307 | 307 | 307 | 308 | 308 | 663 | 637 | 610 | 584 | 558 | 44 | 11 |
| 49 | 16 | 442 | 469 | 495 | 522 | 548 | 692 | 692 | 691 | 691 | 690 | 308 | 308 | 309 | 309 | 310 | 558 | 531 | 505 | 479 | 452 | 32. 40 | 10 |
| 50 | 27. 20 | 9.07 548 | 574 | 601 | 627 | 653 | 9.99 690 | 690 | 690 | 689 | 689 | 0.00 310 | 310 | 310 | 311 | 311 | 0.92 452 | 426 | 399 | 373 | 347 | 36 | 9 |
| 51 | 24 | 653 | 680 | 706 | 732 | 758 | 689 | 688 | 688 | 688 | 687 | 311 | 312 | 312 | 312 | 313 | 347 | 320 | 294 | 268 | 242 | 32 | 8 |
| 52 | 28 | 758 | 785 | 811 | 837 | 863 | 687 | 687 | 687 | 686 | 686 | 313 | 313 | 313 | 314 | 314 | 242 | 215 | 189 | 163 | 137 | 28 | 7 |
| 53 | 32 | 863 | 889 | 915 | 942 | 968 | 686 | 685 | 685 | 685 | 684 | 314 | 315 | 315 | 315 | 316 | 137 | 111 | 085 | 058 | 032 | 24 | 6 |
| 54 | 36 | * 968 | 994 | 020 | 046 | 072 | 684 | 684 | 684 | 683 | 683 | 316 | 316 | 316 | 317 | 317 | * 032 | 006 | 980 | 954 | 928 | 32. 20 | 5 |
| 55 | 27. 40 | 9.08 072 | 098 | 124 | 150 | 176 | 9.99 683 | 682 | 682 | 682 | 681 | 0.00 317 | 318 | 318 | 318 | 319 | 0.91 928 | 902 | 876 | 850 | 824 | 16 | 4 |
| 56 | 44 | 176 | 202 | 228 | 254 | 280 | 681 | 681 | 680 | 680 | 680 | 319 | 319 | 320 | 320 | 320 | 824 | 798 | 772 | 746 | 720 | 12 | 3 |
| 57 | 48 | 280 | 306 | 331 | 357 | 383 | 680 | 679 | 679 | 679 | 678 | 320 | 321 | 321 | 321 | 322 | 720 | 694 | 669 | 643 | 617 | 8 | 2 |
| 58 | 52 | 383 | 409 | 435 | 461 | 486 | 678 | 678 | 677 | 677 | 677 | 322 | 322 | 323 | 323 | 323 | 617 | 591 | 565 | 539 | 514 | 4 | 1 |
| 59 | 56 | 486 | 512 | 538 | 564 | 589 | 677 | 676 | 676 | 675 | 675 | 323 | 324 | 324 | 325 | 325 | 514 | 488 | 462 | 436 | 411 | 32. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno / Coseno | | | | | Coseno / Seno | | | | | Secante / Cosecante | | | | | Cosecante / Secante | | | | | 11h / 5h | 173° / 83° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 6° / 96° | 0h / 6h | Verso / Coverso | | | | | Coverso / Subverso | | | | | Subverso / Subcoverso | | | | | Subcoverso / Verso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | m s | 0″ 0° | 15″ 1° | 50″ 2° | 45″ 3° | 60′ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 8° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 24. 0 | 7.45*760 | 820 | 880 | 941 | 001 | 9.65 102 | 099 | 095 | 092 | 088 | 9.99 881 | 881 | 881 | 881 | 880 | 9.74 215 | 218 | 220 | 223 | 226 | 86 | 89 |
| 1 | 4 | 7.44 001 | 061 | 121 | 181 | 241 | 088 | 085 | 081 | 078 | 074 | 880 | 880 | 880 | 880 | 880 | 226 | 229 | 232 | 255 | 238 | 52 | 58 |
| 2 | 8 | 211 | 501 | 361 | 420 | 480 | 074 | 071 | 067 | 064 | 060 | 880 | 879 | 879 | 879 | 879 | 238 | 240 | 243 | 246 | 249 | 48 | 57 |
| 3 | 12 | 480 | 540 | 600 | 659 | 719 | 060 | 057 | 053 | 050 | 046 | 879 | 879 | 879 | 878 | 878 | 249 | 252 | 254 | 257 | 260 | 44 | 56 |
| 4 | 16 | 719 | 779 | 838 | 898 | 957 | 046 | 043 | 039 | 055 | 032 | 878 | 878 | 878 | 878 | 878 | 260 | 263 | 266 | 269 | 272 | 35. 40 | 55 |
| 5 | 24. 20 | * 957 | 016 | 076 | 135 | 194 | 9.65 032 | 028 | 025 | 021 | 018 | 9.99 878 | 877 | 877 | 877 | 877 | 9.74 272 | 274 | 277 | 280 | 283 | 36 | 54 |
| 8 | 24 | 7.45 194 | 254 | 313 | 372 | 451 | 818 | 014 | 011 | 007 | 004 | 877 | 877 | 877 | 877 | 876 | 283 | 286 | 288 | 291 | 224 | 32 | 63 |
| 7 | 28 | 431 | 490 | 549 | 608 | 667 | * 004 | 000 | 997 | 993 | 990 | 876 | 876 | 876 | 876 | 876 | 291 | 297 | 500 | 503 | 306 | 28 | 52 |
| 8 | 32 | 667 | 726 | 785 | 844 | 903 | 9.64 220 | 906 | 983 | 979 | 276 | 876 | 875 | 875 | 875 | 875 | 306 | 308 | 511 | 514 | 317 | 24 | 61 |
| 2 | 36 | * 203 | 962 | 020 | 079 | 158 | 976 | 972 | 969 | 965 | 262 | 875 | 875 | 874 | 874 | 874 | 317 | 520 | 323 | 325 | 328 | 35. 20 | 60 |
| 10 | 24. 40 | 7.46 138 | 196 | 255 | 313 | 372 | 9.64 962 | 958 | 955 | 951 | 948 | 9.99 874 | 874 | 874 | 874 | 873 | 9.74 328 | 531 | 331 | 557 | 340 | 16 | 49 |
| 11 | 44 | 372 | 430 | 489 | 547 | 605 | 248 | 944 | 941 | 937 | 934 | 873 | 873 | 873 | 873 | 873 | 340 | 542 | 545 | 348 | 351 | 12 | 48 |
| 12 | 48 | 605 | 661 | 722 | 780 | 838 | 954 | 930 | 926 | 923 | 919 | 873 | 073 | 872 | 872 | 872 | 351 | 354 | 557 | 359 | 362 | 8 | 47 |
| 13 | 52 | * 838 | 897 | 955 | 015 | 071 | 219 | 916 | 912 | 909 | 905 | 872 | 872 | 872 | 872 | 871 | 362 | 365 | 368 | 371 | 374 | 4 | 46 |
| 14 | 56 | 7.47 071 | 129 | 187 | 244 | 502 | 903 | 902 | 898 | 825 | 891 | 871 | 871 | 871 | 871 | 871 | 374 | 376 | 579 | 382 | 585 | 35. 8 | 45 |
| 15 | 25. 0 | 7.47 302 | 360 | 418 | 476 | 533 | 9.64 821 | 888 | 884 | 881 | 877 | 9.99 871 | 871 | 870 | 870 | 870 | 8.74 385 | 388 | 391 | 393 | 396 | 56 | 44 |
| 16 | 4 | 553 | 591 | 849 | 706 | 764 | 877 | 873 | 870 | 867 | 865 | 870 | 870 | 870 | 870 | 869 | 396 | 599 | 402 | 405 | 408 | 52 | 43 |
| 17 | 8 | 764 | 821 | 879 | 936 | 994 | 865 | 860 | 856 | 852 | 849 | 869 | 869 | 869 | 862 | 869 | 408 | 410 | 413 | 416 | 419 | 48 | 42 |
| 18 | 12 | * 294 | 051 | 102 | 166 | 223 | 849 | 845 | 842 | 838 | 855 | 869 | 868 | 868 | 868 | 868 | 419 | 422 | 425 | 427 | 450 | 44 | 41 |
| 19 | 16 | 7.40 223 | 280 | 337 | 395 | 452 | 835 | 851 | 820 | 824 | 821 | 868 | 868 | 868 | 867 | 867 | 430 | 433 | 436 | 439 | 442 | 34. 48 | 48 |
| 20 | 25. 20 | 7.48 452 | 509 | 366 | 625 | 680 | 9.64 821 | 817 | 814 | 810 | 807 | 2.99 867 | 867 | 867 | 867 | 867 | 9.74 442 | 444 | 447 | 450 | 455 | 36 | 39 |
| 21 | 24 | 680 | 757 | 794 | 850 | 907 | 807 | 805 | 722 | 796 | 793 | 867 | 866 | 866 | 866 | 866 | 453 | 456 | 458 | 461 | 464 | 32 | 38 |
| 22 | 28 | * 907 | 964 | 021 | 077 | 154 | 793 | 789 | 785 | 782 | 778 | 866 | 868 | 866 | 865 | 865 | 464 | 467 | 470 | 473 | 475 | 28 | 37 |
| 23 | 32 | 7.49 154 | 191 | 217 | 304 | 360 | 778 | 775 | 771 | 768 | 764 | 865 | 865 | 865 | 865 | 864 | 475 | 478 | 481 | 484 | 487 | 24 | 36 |
| 24 | 36 | 360 | 417 | 473 | 530 | 506 | 761 | 761 | 757 | 754 | 750 | 864 | 864 | 864 | 864 | 864 | 487 | 498 | 492 | 495 | 498 | 34. 20 | 35 |
| 25 | 25. 40 | 7.49 586 | 642 | 699 | 755 | 811 | 9.64 750 | 747 | 745 | 740 | 756 | 9.99 864 | 864 | 865 | 865 | 863 | 9.74 498 | 501 | 584 | 506 | 509 | 18 | 34 |
| 26 | 44 | * 811 | 867 | 925 | 979 | 056 | 736 | 732 | 729 | 725 | 722 | 885 | 863 | 863 | 863 | 862 | 589 | 512 | 515 | 518 | 521 | 12 | 33 |
| 27 | 48 | 7.58 056 | 092 | 148 | 204 | 252 | 722 | 718 | 715 | 711 | 788 | 862 | 862 | 862 | 862 | 862 | 521 | 523 | 520 | 529 | 532 | 8 | 32 |
| 28 | 52 | 259 | 515 | 571 | 427 | 483 | 708 | 704 | 701 | 697 | 694 | 862 | 861 | 861 | 861 | 861 | 532 | 535 | 538 | 540 | 545 | 4 | 31 |
| 29 | 56 | 483 | 539 | 594 | 650 | 706 | 694 | 690 | 686 | 603 | 679 | 881 | 861 | 861 | 860 | 860 | 545 | 546 | 549 | 552 | 554 | 34. 0 | 30 |
| 30 | 26. 0 | 7.50 706 | 761 | 817 | 872 | 928 | 9.64 679 | 676 | 672 | 669 | 665 | 9.99 860 | 860 | 860 | 860 | 859 | 9.74 554 | 557 | 560 | 565 | 566 | 56 | 29 |
| 31 | 4 | * 928 | 983 | 039 | 094 | 149 | 665 | 662 | 638 | 655 | 651 | 859 | 859 | 832 | 859 | 859 | 866 | 569 | 571 | 574 | 577 | 52 | 28 |
| 32 | 8 | 7.51 149 | 205 | 280 | 315 | 370 | 651 | 648 | 644 | 640 | 637 | 859 | 859 | 858 | 858 | 858 | 577 | 580 | 583 | 585 | 588 | 48 | 27 |
| 33 | 12 | 370 | 426 | 481 | 536 | 591 | 657 | 633 | 650 | 626 | 623 | 858 | 858 | 858 | 857 | 857 | 888 | 591 | 594 | 597 | 600 | 44 | 26 |
| 34 | 16 | 591 | 648 | 701 | 758 | 811 | 623 | 619 | 616 | 612 | 609 | 857 | 857 | 857 | 857 | 857 | 800 | 602 | 605 | 608 | 611 | 33. 40 | 25 |
| 35 | 26. 20 | * 811 | 866 | 921 | 975 | 030 | 9.84 609 | 605 | 601 | 598 | 594 | 9.99 857 | 856 | 856 | 856 | 856 | 9.74 611 | 614 | 616 | 619 | 622 | 36 | 24 |
| 36 | 24 | 7.52 050 | 085 | 140 | 194 | 249 | 524 | 591 | 587 | 584 | 580 | 856 | 858 | 855 | 855 | 855 | 822 | 625 | 628 | 630 | 635 | 32 | 23 |
| 37 | 28 | 242 | 304 | 558 | 115 | 467 | 580 | 577 | 573 | 570 | 566 | 855 | 855 | 855 | 855 | 854 | 635 | 636 | 639 | 642 | 645 | 28 | 22 |
| 38 | 32 | 467 | 522 | 576 | 631 | 685 | 566 | 562 | 559 | 555 | 552 | 854 | 854 | 854 | 854 | 854 | 645 | 617 | 650 | 653 | 656 | 24 | 21 |
| 39 | 36 | 685 | 759 | 794 | 848 | 902 | 559 | 548 | 545 | 541 | 538 | 854 | 854 | 053 | 853 | 853 | 656 | 659 | 661 | 664 | 667 | 33. 20 | 28 |
| 40 | 26. 40 | * 902 | 956 | 011 | 065 | 119 | 9.64 538 | 534 | 551 | 527 | 523 | 9.99 855 | 853 | 853 | 852 | 852 | 9.74 667 | 670 | 673 | 678 | 678 | 16 | 19 |
| 41 | 44 | 7.83 119 | 175 | 227 | 281 | 353 | 623 | 520 | 516 | 513 | 509 | 852 | 852 | 852 | 852 | 881 | 678 | 681 | 684 | 687 | 690 | 12 | 18 |
| 42 | 48 | 335 | 389 | 443 | 497 | 350 | 809 | 506 | 502 | 499 | 495 | 851 | 851 | 851 | 851 | 851 | 690 | 692 | 695 | 698 | 701 | 8 | 17 |
| 43 | 52 | 550 | 604 | 658 | 712 | 766 | 495 | 491 | 488 | 484 | 481 | 851 | 851 | 850 | 850 | 850 | 701 | 704 | 706 | 709 | 712 | 4 | 16 |
| 44 | 56 | 766 | 819 | 873 | 926 | 980 | 481 | 477 | 474 | 470 | 467 | 850 | 850 | 850 | 849 | 849 | 712 | 715 | 718 | 720 | 723 | 33. 0 | 15 |
| 45 | 27. 0 | * 980 | 034 | 087 | 141 | 194 | 9.64 467 | 463 | 460 | 456 | 452 | 9.99 849 | 842 | 849 | 849 | 848 | 9.74 723 | 726 | 729 | 732 | 734 | 56 | 14 |
| 46 | 4 | 7.84 194 | 247 | 501 | 334 | 407 | 452 | 449 | 445 | 442 | 458 | 848 | 848 | 848 | 848 | 848 | 734 | 737 | 740 | 743 | 748 | 32 | 13 |
| 47 | 8 | 407 | 461 | 514 | 567 | 620 | 438 | 435 | 431 | 428 | 424 | 848 | 818 | 847 | 847 | 847 | 746 | 748 | 751 | 754 | 757 | 48 | 12 |
| 48 | 12 | 620 | 673 | 727 | 780 | 833 | 424 | 421 | 417 | 413 | 410 | 847 | 847 | 847 | 846 | 846 | 757 | 760 | 762 | 765 | 768 | 44 | 11 |
| 49 | 16 | * 833 | 886 | 959 | 992 | 045 | 418 | 406 | 403 | 399 | 395 | 846 | 846 | 848 | 848 | 845 | 768 | 771 | 774 | 776 | 779 | 32. 40 | 10 |
| 80 | 27. 20 | 7.55 645 | 097 | 150 | 203 | 256 | 9.64 395 | 592 | 388 | 385 | 381 | 9.99 845 | 845 | 866 | 845 | 845 | 9.74 779 | 782 | 785 | 788 | 790 | 36 | 9 |
| 81 | 21 | 256 | 308 | 361 | 414 | 467 | 381 | 378 | 374 | 371 | 387 | 845 | 845 | 844 | 844 | 841 | 790 | 793 | 796 | 799 | 802 | 32 | 8 |
| 52 | 28 | 467 | 519 | 572 | 624 | 677 | 367 | 363 | 368 | 358 | 353 | 844 | 844 | 844 | 843 | 843 | 802 | 805 | 807 | 810 | 813 | 28 | 7 |
| 53 | 32 | 677 | 729 | 782 | 834 | 887 | 353 | 349 | 346 | 542 | 332 | 843 | 843 | 843 | 843 | 842 | 813 | 816 | 818 | 821 | 824 | 24 | 6 |
| 84 | 36 | * 887 | 939 | 992 | 044 | 096 | 339 | 335 | 331 | 328 | 324 | 842 | 842 | 842 | 842 | 842 | 824 | 827 | 850 | 832 | 835 | 32. 20 | 8 |
| 85 | 27. 40 | 7.58 096 | 148 | 201 | 253 | 305 | 9.64 524 | 321 | 317 | 314 | 310 | 9.99 842 | 841 | 841 | 841 | 841 | 9.74 835 | 838 | 841 | 844 | 846 | 18 | 4 |
| 86 | 44 | 305 | 357 | 409 | 461 | 513 | 310 | 387 | 303 | 299 | 296 | 841 | 841 | 841 | 840 | 849 | 846 | 849 | 852 | 855 | 858 | 12 | 3 |
| 87 | 48 | 513 | 565 | 617 | 669 | 721 | 296 | 292 | 289 | 285 | 281 | 840 | 840 | 840 | 848 | 839 | 858 | 868 | 863 | 866 | 862 | 8 | 2 |
| 58 | 52 | 721 | 773 | 825 | 876 | 928 | 281 | 278 | 274 | 271 | 267 | 839 | 839 | 832 | 839 | 839 | 869 | 872 | 874 | 877 | 880 | 4 | 1 |
| 52 | 86 | *(7.57)928 | 900 | 052 | 083 | 135 | 267 | 264 | 260 | 256 | 253 | 839 | 838 | 838 | 838 | 830 | 880 | 883 | 886 | 888 | 891 | 32. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 18″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 46″ | 2° 38″ | 1° 15″ | 8° 0″ | 4° 68″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 11h / 5h | 173° / 83° |

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**Tabla XVI.** Logaritmos Senoo, Cosenos, Secantes y Cosecantes.

| 7° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 2° | 60″ 4° | 6″ 0° | 10″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 28. 0 | 9.08 589 | 616 | 641 | 667 | 692 | 9.29 675 | 675 | 674 | 674 | 674 | 0.00 325 | 325 | 326 | 326 | 326 | 0.91 411 | 385 | 350 | 333 | 308 | 56 | 59 |
| 1 | 4 | 692 | 718 | 744 | 762 | 795 | 674 | 673 | 673 | 672 | 672 | 396 | 327 | 327 | 328 | 398 | 300 | 282 | 957 | 231 | 205 | 02 | 68 |
| 9 | 8 | 795 | 820 | 846 | 871 | 097 | 672 | 672 | 671 | 671 | 670 | 328 | 328 | 329 | 329 | 330 | 205 | 180 | 154 | 129 | 103 | 48 | 67 |
| 3 | 12 | 897 | 923 | 948 | 974 | 929 | 670 | 676 | 670 | 669 | 669 | 330 | 330 | 330 | 331 | 331 | 163 | 677 | 052 | 026 | 001 | 44 | 06 |
| 4 | 16 | * 999 | 025 | 050 | 076 | 101 | 669 | 668 | 668 | 668 | 667 | 331 | 332 | 332 | 332 | 333 | * 061 | 976 | 950 | 924 | 892 | 31. 40 | 55 |
| 0 | 98. 20 | 9.09 101 | 126 | 152 | 177 | 202 | 0.92 667 | 667 | 666 | 666 | 666 | 0.00 333 | 333 | 334 | 334 | 334 | 0.20 699 | 874 | 848 | 893 | 798 | 36 | 54 |
| 6 | 24 | 262 | 928 | 253 | 278 | 304 | 666 | 666 | 665 | 665 | 664 | 334 | 335 | 335 | 335 | 336 | 798 | 772 | 747 | 722 | 696 | 32 | 63 |
| 7 | 28 | 364 | 329 | 354 | 379 | 405 | 664 | 664 | 663 | 663 | 663 | 336 | 336 | 337 | 337 | 337 | 696 | 671 | 646 | 621 | 595 | 28 | 52 |
| 8 | 32 | 405 | 430 | 455 | 486 | 506 | 663 | 662 | 662 | 661 | 661 | 337 | 338 | 338 | 339 | 339 | 695 | 570 | 545 | 520 | 494 | 24 | 01 |
| 9 | 36 | 006 | 531 | 556 | 581 | 606 | 661 | 661 | 666 | 660 | 659 | 339 | 339 | 340 | 340 | 341 | 494 | 469 | 444 | 419 | 394 | 31. 26 | 50 |
| 10 | 28. 46 | 9.09 666 | 631 | 656 | 681 | 707 | 0.29 659 | 659 | 659 | 658 | 658 | 0.00 341 | 341 | 341 | 349 | 342 | 0.90 391 | 369 | 344 | 319 | 293 | 16 | 49 |
| 11 | 44 | 707 | 732 | 737 | 782 | 807 | 658 | 657 | 657 | 657 | 656 | 349 | 343 | 343 | 343 | 344 | 293 | 268 | 243 | 218 | 123 | 12 | 48 |
| 12 | 48 | 007 | 832 | 857 | 882 | 907 | 656 | 656 | 655 | 655 | 655 | 344 | 344 | 345 | 345 | 345 | 123 | 168 | 143 | 118 | 093 | 8 | 47 |
| 13 | 52 | * 967 | 931 | 956 | 901 | 606 | 655 | 654 | 654 | 653 | 653 | 345 | 346 | 346 | 347 | 347 | * 093 | 069 | 044 | 019 | 994 | 4 | 46 |
| 14 | 56 | 9.10 006 | 031 | 656 | 081 | 106 | 653 | 653 | 652 | 652 | 651 | 347 | 347 | 348 | 348 | 349 | 0.89 924 | 969 | 944 | 919 | 894 | 31. 0 | 45 |
| 15 | 29. 0 | 9.10 106 | 130 | 155 | 186 | 205 | 0.29 651 | 651 | 651 | 650 | 650 | 0.00 349 | 349 | 349 | 356 | 350 | 0.89 894 | 870 | 845 | 890 | 795 | 56 | 44 |
| 16 | 4 | 205 | 236 | 254 | 279 | 304 | 650 | 649 | 649 | 649 | 648 | 350 | 351 | 351 | 351 | 352 | 725 | 770 | 746 | 721 | 696 | 52 | 43 |
| 17 | 8 | 364 | 328 | 353 | 378 | 402 | 648 | 648 | 647 | 647 | 647 | 352 | 352 | 353 | 353 | 353 | 696 | 671 | 647 | 622 | 598 | 48 | 42 |
| 18 | 19 | 402 | 427 | 452 | 476 | 501 | 647 | 646 | 646 | 645 | 645 | 353 | 354 | 354 | 355 | 355 | 098 | 578 | 548 | 524 | 499 | 44 | 41 |
| 19 | 16 | 061 | 526 | 550 | 575 | 599 | 645 | 645 | 644 | 644 | 643 | 355 | 355 | 356 | 356 | 357 | 499 | 474 | 450 | 495 | 401 | 30. 40 | 40 |
| 20 | 29. 20 | 0.10 099 | 624 | 648 | 673 | 697 | 9.90 643 | 643 | 642 | 642 | 642 | 0.00 357 | 357 | 358 | 358 | 358 | 0.89 401 | 376 | 352 | 327 | 303 | 36 | 39 |
| 91 | 24 | 697 | 792 | 746 | 771 | 795 | 642 | 641 | 641 | 640 | 640 | 358 | 359 | 359 | 360 | 360 | 303 | 278 | 254 | 299 | 205 | 39 | 38 |
| 22 | 20 | 795 | 826 | 844 | 868 | 893 | 640 | 640 | 639 | 639 | 638 | 360 | 360 | 361 | 361 | 362 | 205 | 100 | 156 | 132 | 107 | 28 | 37 |
| 23 | 32 | 093 | 917 | 941 | 966 | 990 | 638 | 638 | 638 | 637 | 637 | 362 | 362 | 362 | 363 | 363 | 107 | 083 | 059 | 034 | 010 | 24 | 36 |
| 24 | 36 | * 090 | 014 | 039 | 063 | 087 | 637 | 636 | 636 | 636 | 635 | 363 | 364 | 364 | 364 | 365 | * 010 | 986 | 961 | 937 | 913 | 30. 20 | 35 |
| 25 | 29. 40 | 9.11 087 | 112 | 136 | 160 | 184 | 9.09 635 | 635 | 634 | 634 | 633 | 6.00 365 | 365 | 366 | 366 | 367 | 0.88 913 | 888 | 864 | 840 | 816 | 16 | 34 |
| 26 | 44 | 184 | 208 | 233 | 257 | 281 | 633 | 633 | 633 | 632 | 632 | 367 | 367 | 367 | 368 | 368 | 816 | 792 | 767 | 743 | 719 | 12 | 33 |
| 27 | 48 | 281 | 305 | 329 | 353 | 377 | 632 | 631 | 631 | 631 | 630 | 368 | 369 | 369 | 369 | 376 | 719 | 695 | 671 | 647 | 623 | 8 | 32 |
| 28 | 52 | 377 | 402 | 426 | 456 | 474 | 630 | 630 | 699 | 629 | 629 | 370 | 370 | 371 | 371 | 371 | 693 | 598 | 574 | 550 | 526 | 4 | 31 |
| 29 | 56 | 474 | 428 | 599 | 546 | 070 | 629 | 628 | 628 | 627 | 627 | 371 | 372 | 372 | 373 | 373 | 026 | 502 | 478 | 454 | 430 | 30. 0 | 30 |
| 30 | 30. 0 | 9.11 570 | 594 | 618 | 642 | 666 | 9.92 627 | 626 | 626 | 626 | 625 | 0.66 373 | 374 | 374 | 374 | 375 | 0.88 436 | 406 | 382 | 358 | 334 | 56 | 20 |
| 31 | 4 | 666 | 696 | 713 | 737 | 761 | 625 | 625 | 624 | 694 | 624 | 375 | 375 | 376 | 376 | 376 | 334 | 310 | 287 | 263 | 239 | 52 | 28 |
| 32 | 8 | 761 | 785 | 809 | 833 | 857 | 694 | 623 | 623 | 622 | 622 | 376 | 377 | 377 | 378 | 378 | 239 | 215 | 191 | 167 | 143 | 48 | 27 |
| 33 | 12 | 857 | 881 | 264 | 928 | 952 | 622 | 621 | 621 | 621 | 620 | 378 | 379 | 379 | 379 | 380 | 143 | 120 | 026 | 072 | 048 | 44 | 26 |
| 34 | 10 | * 952 | 276 | 999 | 023 | 047 | 620 | 620 | 619 | 619 | 618 | 380 | 380 | 381 | 381 | 382 | * 048 | 624 | 001 | 077 | 953 | 29. 46 | 25 |
| 30 | 30. 20 | 9.12 047 | 671 | 094 | 118 | 142 | 9.99 618 | 618 | 618 | 517 | 617 | 0.60 382 | 389 | 382 | 383 | 383 | 0.87 953 | 929 | 906 | 882 | 858 | 36 | 24 |
| 36 | 24 | 149 | 165 | 189 | 213 | 236 | 617 | 616 | 616 | 616 | 615 | 383 | 384 | 384 | 384 | 385 | 858 | 835 | 811 | 787 | 764 | 32 | 23 |
| 37 | 28 | 936 | 260 | 283 | 307 | 331 | 615 | 515 | 614 | 614 | 613 | 385 | 385 | 386 | 386 | 387 | 764 | 740 | 717 | 693 | 669 | 28 | 22 |
| 38 | 32 | 331 | 354 | 378 | 401 | 495 | 613 | 613 | 613 | 612 | 612 | 387 | 387 | 387 | 388 | 388 | 669 | 646 | 692 | 528 | 575 | 24 | 21 |
| 39 | 36 | 425 | 448 | 472 | 495 | 519 | 612 | 611 | 611 | 610 | 610 | 388 | 389 | 389 | 390 | 390 | 575 | 552 | 028 | 505 | 461 | 29. 26 | 20 |
| 40 | 30. 40 | 0.12 519 | 542 | 566 | 589 | 612 | 9.99 610 | 610 | 609 | 609 | 608 | 0.60 390 | 390 | 391 | 391 | 392 | 0.87 481 | 458 | 434 | 411 | 388 | 16 | 12 |
| 41 | .44 | 612 | 636 | 659 | 683 | 706 | 600 | 668 | 607 | 607 | 607 | 399 | 392 | 393 | 393 | 393 | 388 | 364 | 341 | 317 | 294 | 12 | 18 |
| 42 | 48 | 706 | 729 | 753 | 776 | 799 | 607 | 606 | 606 | 605 | 605 | 393 | 394 | 394 | 395 | 395 | 294 | 971 | 247 | 224 | 201 | 8 | 17 |
| 43 | 02 | 799 | 893 | 846 | 869 | 892 | 605 | 664 | 604 | 604 | 603 | 395 | 326 | 396 | 396 | 397 | 201 | 177 | 154 | 131 | 108 | 4 | 16 |
| 44 | 58 | 892 | 916 | 939 | 962 | 285 | 603 | 603 | 602 | 662 | 601 | 397 | 397 | 398 | 398 | 399 | 108 | 684 | 061 | 038 | 015 | 29. 0 | 10 |
| 40 | 31. 0 | * 985 | 009 | 032 | 055 | 078 | 9.99 601 | 661 | 601 | 600 | 600 | 0.00 399 | 399 | 399 | 460 | 400 | * 015 | 991 | 968 | 945 | 922 | 56 | 14 |
| 46 | 4 | 9.13 078 | 161 | 124 | 148 | 171 | 606 | 592 | 599 | 590 | 598 | 400 | 401 | 461 | 409 | 402 | 0.86 929 | 899 | 876 | 852 | 829 | 59 | 13 |
| 47 | 8 | 171 | 194 | 217 | 240 | 263 | 098 | 598 | 597 | 597 | 596 | 462 | 482 | 463 | 403 | 404 | 829 | 806 | 783 | 766 | 737 | 48 | 12 |
| 48 | 12 | 263 | 286 | 309 | 332 | 355 | 096 | 596 | 595 | 595 | 595 | 404 | 404 | 405 | 405 | 405 | 737 | 714 | 691 | 668 | 645 | 44 | 11 |
| 49 | 16 | 355 | 378 | 401 | 494 | 447 | 595 | 594 | 594 | 593 | 593 | 405 | 406 | 466 | 467 | 407 | 645 | 622 | 599 | 576 | 553 | 98. 40 | 10 |
| 50 | 31. 20 | 0.13 447 | 470 | 493 | 516 | 532 | 2.99 093 | 599 | 522 | 599 | 591 | 0.00 407 | 408 | 468 | 408 | 409 | 0.86 553 | 530 | 507 | 484 | 461 | 36 | 9 |
| 51 | 24 | 539 | 562 | 585 | 607 | 630 | 091 | 591 | 590 | 520 | 589 | 409 | 409 | 416 | 410 | 411 | 461 | 438 | 415 | 393 | 376 | 32 | 8 |
| 52 | 28 | 630 | 653 | 676 | 699 | 722 | 689 | 589 | 588 | 588 | 588 | 411 | 411 | 412 | 412 | 412 | 376 | 347 | 324 | 301 | 278 | 28 | 7 |
| 53 | 32 | 729 | 744 | 767 | 796 | 813 | 588 | 587 | 587 | 586 | 586 | 419 | 413 | 413 | 414 | 414 | 278 | 256 | 233 | 210 | 187 | 24 | 6 |
| 04 | 36 | 813 | 836 | 858 | 881 | 904 | 586 | 583 | 585 | 585 | 584 | 414 | 415 | 415 | 416 | 416 | 187 | 164 | 142 | 119 | 096 | 98. 26 | 8 |
| 65 | 31. 46 | 9.13 904 | 996 | 949 | 972 | 294 | 9.99 584 | 584 | 083 | 583 | 582 | 0.00 416 | 416 | 417 | 417 | 418 | 0.86 096 | 074 | 051 | 628 | 006 | 16 | 4 |
| 66 | 44 | * 924 | 617 | 040 | 069 | 085 | 589 | 582 | 581 | 581 | 081 | 418 | 418 | 419 | 412 | 419 | * 006 | 983 | 960 | 938 | 915 | 12 | 3 |
| 07 | 48 | 9.14 085 | 108 | 136 | 153 | 175 | 581 | 586 | 580 | 579 | 579 | 412 | 420 | 426 | 421 | 491 | 0.85 916 | 892 | 870 | 847 | 825 | 8 | 9 |
| 08 | 52 | 175 | 108 | 226 | 243 | 266 | 579 | 578 | 578 | 577 | 577 | 421 | 422 | 422 | 493 | 423 | 895 | 802 | 780 | 757 | 734 | 4 | 1 |
| 09 | 06 | 266 | 288 | 311 | 333 | 356 | 677 | 077 | 576 | 576 | 075 | 423 | 423 | 424 | 424 | 425 | 734 | 712 | 682 | 667 | 644 | 28. 0 | 0 |
| | | 4° 60″ | 3° 40″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 0° 45″ | 2° 30″ | 1° 10″ | 0° 0″ | 4° 60″ | 3° 40″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 172° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 82° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 7° | 1h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97° | 6h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | | 0″ 5° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 00″ 4° | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 26. 5 | 7. 57 | 135 | 167 | 238 | 229 | 311 | 9. 54 | 253 | 249 | 245 | 242 | 239 | 2. 99 | 838 | 838 | 837 | 837 | 837 | 9. 74 | 521 | 594 | 827 | 965 | 262 | 56 | 59 |
| 1 | 4 | | 341 | 393 | 444 | 196 | 547 | | 239 | 235 | 231 | 228 | 224 | | 837 | 837 | 837 | 836 | 836 | | 902 | 205 | 998 | 911 | 914 | 52 | 66 |
| 2 | 8 | | 547 | 599 | 650 | 701 | 752 | | 224 | 221 | 217 | 214 | 210 | | 838 | 836 | 836 | 036 | 030 | | 914 | 910 | 919 | 922 | 925 | 48 | 67 |
| 3 | 12 | | 752 | 804 | 855 | 906 | 957 | | 210 | 207 | 203 | 199 | 196 | | 836 | 835 | 835 | 835 | 035 | | 925 | 928 | 230 | 933 | 936 | 44 | 56 |
| 4 | 16 | * | 957 | 000 | 000 | 111 | 162 | | 126 | 192 | 189 | 185 | 181 | | 635 | 835 | 834 | 834 | 824 | | 930 | 932 | 941 | 944 | 947 | 31. 40 | 55 |
| 5 | 28. 20 | 7. 58 | 152 | 213 | 261 | 315 | 366 | 2. 84 | 181 | 178 | 174 | 171 | 167 | 2. 22 | 831 | 834 | 834 | 833 | 833 | 2. 74 | 947 | 950 | 953 | 955 | 958 | 36 | 54 |
| 5 | 21 | | 360 | 116 | 467 | 518 | 369 | | 107 | 104 | 100 | 150 | 153 | | 833 | 833 | 833 | 833 | 632 | | 230 | 981 | 961 | 967 | 962 | 32 | 53 |
| 7 | 28 | | 569 | 620 | 679 | 721 | 772 | | 153 | 149 | 146 | 142 | 132 | | 832 | 832 | 832 | 832 | 832 | | 969 | 272 | 975 | 278 | 261 | 20 | 52 |
| 6 | 32 | | 772 | 823 | 873 | 224 | 274 | | 132 | 135 | 131 | 120 | 124 | | 032 | 831 | 831 | 831 | 831 | | 281 | 903 | 986 | 989 | 292 | 24 | 51 |
| 2 | 35 | * | 974 | 025 | 675 | 126 | 176 | | 124 | 121 | 117 | 113 | 110 | | 831 | 031 | 830 | 830 | 830 | * | 992 | 994 | 997 | 595 | 003 | 31. 20 | 55 |
| 19 | 28. 40 | 7. 59 | 170 | 227 | 277 | 327 | 378 | 2. 64 | 110 | 106 | 103 | 099 | 026 | 2. 29 | 830 | 830 | 830 | 822 | 829 | 9. 75 | 003 | 906 | 008 | 911 | 014 | 16 | 42 |
| 11 | 44 | | 378 | 428 | 478 | 522 | 572 | | 590 | 092 | 088 | 085 | 061 | | 822 | 829 | 829 | 829 | 828 | | 611 | 017 | 020 | 022 | 525 | 12 | 48 |
| 12 | 48 | | 572 | 629 | 679 | 729 | 772 | | 051 | 978 | 074 | 071 | 967 | | 028 | 828 | 828 | 828 | 828 | | 025 | 028 | 031 | 033 | 030 | 5 | 47 |
| 13 | 52 | | 779 | 829 | 872 | 922 | 970 | | 007 | 063 | 060 | 056 | 953 | | 828 | 827 | 627 | 827 | 827 | | 036 | 039 | 042 | 545 | 547 | 4 | 48 |
| 14 | 56 | * | 972 | 029 | 079 | 129 | 172 | | 053 | 019 | 945 | 042 | 038 | | 827 | 027 | 826 | 826 | 826 | | 047 | 060 | 053 | 950 | 059 | 31. 6 | 45 |
| 15 | 29. 0 | 7. 60 | 172 | 229 | 279 | 322 | 378 | 2. 64 | 038 | 035 | 931 | 027 | 924 | 9. 99 | 020 | 826 | 826 | 825 | 625 | 9. 75 | 059 | 901 | 061 | 067 | 070 | 50 | 44 |
| 16 | 4 | | 378 | 428 | 478 | 527 | 577 | | 024 | 020 | 017 | 013 | 910 | | 025 | 025 | 825 | 825 | 024 | | 079 | 572 | 075 | 976 | 081 | 52 | 43 |
| 17 | 6 | | 577 | 627 | 676 | 726 | 775 | * | 010 | 006 | 002 | 999 | 925 | | 824 | 821 | 824 | 624 | 524 | | 551 | 084 | 006 | 089 | 022 | 48 | 42 |
| 16 | 12 | | 775 | 625 | 874 | 924 | 973 | 2. 53 | 995 | 992 | 988 | 985 | 281 | | 821 | 623 | 823 | 823 | 823 | | 022 | 595 | 097 | 100 | 103 | 44 | 41 |
| 19 | 15 | * | 972 | 922 | 071 | 121 | 170 | | 981 | 977 | 274 | 970 | 966 | | 823 | 823 | 822 | 822 | 022 | | 103 | 106 | 109 | 111 | 114 | 36. 49 | 40 |
| 20 | 29. 20 | 7. 51 | 170 | 220 | 269 | 318 | 357 | 2. 53 | 966 | 963 | 959 | 956 | 952 | 9. 99 | 822 | 822 | 822 | 821 | 821 | 9. 75 | 114 | 117 | 120 | 122 | 125 | 36 | 39 |
| 21 | 21 | | 367 | 417 | 466 | 515 | 364 | | 952 | 919 | 945 | 941 | 938 | | 521 | 821 | 621 | 021 | 820 | | 125 | 128 | 131 | 133 | 136 | 32 | 38 |
| 22 | 20 | | 564 | 613 | 662 | 711 | 760 | | 938 | 934 | 931 | 927 | 923 | | 529 | 626 | 820 | 620 | 826 | | 136 | 139 | 142 | 145 | 147 | 20 | 37 |
| 23 | 32 | | 760 | 802 | 858 | 907 | 955 | | 923 | 929 | 916 | 913 | 909 | | 020 | 819 | 819 | 619 | 612 | | 147 | 150 | 153 | 156 | 159 | 24 | 36 |
| 24 | 36 | * | 955 | 994 | 053 | 102 | 151 | | 909 | 905 | 902 | 828 | 895 | | 819 | 619 | 816 | 518 | 618 | | 152 | 161 | 181 | 157 | 170 | 30. 29 | 35 |
| 25 | 29. 40 | 7. 02 | 151 | 199 | 248 | 397 | 345 | 9. 63 | 825 | 891 | 807 | 884 | 080 | 9. 99 | 518 | 818 | 818 | 817 | 817 | 9. 75 | 170 | 172 | 175 | 176 | 161 | 15 | 34 |
| 26 | 44 | | 345 | 394 | 442 | 491 | 540 | | 589 | 877 | 873 | 869 | 866 | | 517 | 617 | 017 | 017 | 815 | | 151 | 183 | 186 | 169 | 122 | 12 | 33 |
| 27 | 46 | | 540 | 588 | 036 | 685 | 733 | | 866 | 862 | 852 | 865 | 851 | | 516 | 016 | 010 | 516 | 815 | | 122 | 126 | 127 | 250 | 203 | 5 | 32 |
| 28 | 52 | | 733 | 782 | 830 | 878 | 927 | | 651 | 848 | 844 | 841 | 837 | | 515 | 815 | 815 | 816 | 815 | | 203 | 206 | 208 | 211 | 214 | 4 | 31 |
| 29 | 56 | * | 227 | 975 | 923 | 972 | 120 | | 837 | 833 | 830 | 026 | 023 | | 815 | 014 | 814 | 014 | 811 | | 214 | 217 | 220 | 222 | 225 | 36. 6 | 36 |
| 30 | 30. 0 | 7. 63 | 120 | 168 | 216 | 264 | 312 | 9. 63 | 823 | 819 | 815 | 812 | 008 | 9. 22 | 811 | 814 | 813 | 013 | 813 | 2. 75 | 225 | 228 | 231 | 233 | 236 | . 56 | 22 |
| 31 | 4 | | 312 | 360 | 408 | 456 | 504 | | 800 | 805 | 801 | 727 | 794 | | 813 | 813 | 813 | 812 | 812 | | 236 | 239 | 242 | 244 | 247 | 52 | 28 |
| 32 | 6 | | 604 | 552 | 690 | 618 | 696 | | 794 | 790 | 757 | 753 | 772 | | 512 | 612 | 612 | 812 | 811 | | 247 | 250 | 253 | 256 | 258 | 48 | 27 |
| 33 | 12 | | 596 | 744 | 792 | 039 | 887 | | 772 | 778 | 772 | 762 | 785 | | 511 | 611 | 611 | 811 | 810 | | 250 | 261 | 264 | 267 | 262 | 44 | 26 |
| 34 | 16 | * | 567 | 235 | 283 | 039 | 078 | | 755 | 761 | 756 | 754 | 751 | | 515 | 010 | 815 | 610 | 810 | | 209 | 272 | 275 | 278 | 280 | 29. 40 | 25 |
| 35 | 39. 20 | 7. 64 | 078 | 126 | 173 | 221 | 269 | 9. 53 | 751 | 747 | 743 | 740 | 738 | 9. 29 | 510 | 809 | 509 | 809 | 809 | 9. 75 | 269 | 283 | 286 | 289 | 291 | 36 | 24 |
| 36 | 24 | | 252 | 316 | 364 | 411 | 458 | | 736 | 733 | 729 | 725 | 722 | | 509 | 609 | 809 | 808 | 308 | | 221 | 294 | 297 | 306 | 303 | 32 | 23 |
| 37 | 28 | | 458 | 595 | 553 | 661 | 648 | | 722 | 718 | 715 | 711 | 707 | | 508 | 000 | 805 | 507 | 607 | | 303 | 305 | 308 | 311 | 314 | 26 | 22 |
| 38 | 32 | | 540 | 695 | 743 | 790 | 037 | | 707 | 704 | 700 | 696 | 623 | | 807 | 807 | 507 | 597 | 806 | | 314 | 316 | 319 | 322 | 325 | 24 | 21 |
| 32 | 38 | * | 037 | 084 | 932 | 279 | 926 | | 523 | 682 | 086 | 682 | 678 | | 806 | 666 | 608 | 806 | 895 | | 325 | 327 | 330 | 333 | 336 | 22. 20 | 20 |
| 40 | 30. 40 | 7. 65 | 026 | 973 | 129 | 157 | 214 | 9. 53 | 678 | 675 | 671 | 888 | 664 | 9. 99 | 895 | 605 | 805 | 805 | 805 | 9. 75 | 336 | 338 | 341 | 344 | 347 | 16 | 19 |
| 41 | 44 | | 214 | 261 | 308 | 355 | 452 | | 864 | 665 | 657 | 553 | 649 | | 695 | 694 | 891 | 804 | 894 | | 347 | 349 | 352 | 355 | 356 | 12 | 18 |
| 42 | 48 | | 492 | 449 | 426 | 543 | 520 | | 549 | 640 | 042 | 632 | 535 | | 804 | 804 | 803 | 803 | 893 | | 356 | 361 | 363 | 366 | 369 | 8 | 17 |
| 43 | 52 | | 590 | 637 | 683 | 730 | 777 | | 635 | 031 | 620 | 624 | 521 | | 503 | 803 | 852 | 552 | 002 | | 369 | 372 | 374 | 377 | 380 | 4 | 15 |
| 44 | 56 | | 777 | 624 | 879 | 917 | 964 | | 621 | 617 | 613 | 610 | 506 | | 002 | 802 | 002 | 001 | 801 | | 350 | 383 | 365 | 388 | 321 | 29. 5 | 15 |
| 45 | 31. 0 | * | 964 | 010 | 057 | 103 | 150 | 2. 63 | 606 | 602 | 522 | 595 | 592 | 2. 99 | 891 | 801 | 801 | 891 | 000 | 9. 75 | 391 | 394 | 396 | 322 | 402 | 56 | 14 |
| 45 | 4 | 7. 68 | 150 | 196 | 243 | 289 | 336 | | 592 | 580 | 501 | 501 | 577 | | 800 | 890 | 800 | 800 | 799 | | 402 | 405 | 407 | 410 | 113 | 52 | 13 |
| 47 | 6 | | 336 | 382 | 429 | 475 | 521 | | 577 | 574 | 570 | 556 | 553 | | 799 | 799 | 799 | 799 | 799 | | 413 | 418 | 418 | 421 | 424 | 48 | 12 |
| 46 | 12 | | 521 | 568 | 614 | 669 | 706 | | 563 | 559 | 555 | 552 | 548 | | 799 | 728 | 798 | 798 | 798 | | 424 | 427 | 422 | 432 | 435 | 44 | 11 |
| 49 | 16 | | 706 | 753 | 799 | 845 | 891 | | 548 | 545 | 541 | 537 | 534 | | 798 | 798 | 797 | 797 | 797 | | 435 | 438 | 449 | 443 | 446 | 28. 40 | 10 |
| 50 | 31. 20 | * | 891 | 937 | 983 | 029 | 075 | 2. 63 | 534 | 530 | 526 | 523 | 519 | 9. 99 | 797 | 797 | 796 | 796 | 796 | 9. 75 | 446 | 449 | 451 | 454 | 457 | 36 | 9 |
| 51 | 21 | 7. 57 | 675 | 121 | 167 | 213 | 259 | | 512 | 516 | 512 | 508 | 505 | | 796 | 796 | 796 | 725 | 795 | | 457 | 466 | 463 | 455 | 468 | 32 | 8 |
| 52 | 28 | | 252 | 305 | 351 | 397 | 443 | | 505 | 501 | 497 | 494 | 420 | | 725 | 725 | 795 | 795 | 794 | | 468 | 471 | 474 | 470 | 479 | 25 | 7 |
| 83 | 32 | | 443 | 489 | 535 | 580 | 526 | | 490 | 107 | 463 | 472 | 470 | | 794 | 794 | 724 | 794 | 723 | | 472 | 402 | 455 | 407 | 490 | 24 | 8 |
| 54 | 36 | | 626 | 672 | 717 | 763 | 809 | | 476 | 472 | 160 | 465 | 461 | | 723 | 793 | 793 | 793 | 723 | | 490 | 493 | 495 | 496 | 561 | 28. 20 | 5 |
| 55 | 31. 40 | | 809 | 854 | 900 | 246 | 991 | 9. 53 | 451 | 450 | 454 | 450 | 447 | 9. 92 | 723 | 722 | 722 | 792 | 792 | 9. 75 | 591 | 594 | 507 | 502 | 512 | 16 | 4 |
| 55 | 44 | * | 991 | 037 | 062 | 120 | 173 | | 447 | 443 | 432 | 436 | 432 | | 792 | 721 | 721 | 791 | 791 | | 512 | 515 | 518 | 520 | 523 | 12 | 3 |
| 57 | 48 | 7. 65 | 173 | 219 | 264 | 302 | 355 | | 432 | 429 | 425 | 421 | 418 | | 721 | 721 | 720 | 799 | 790 | | 523 | 528 | 526 | 531 | 534 | 8 | 2 |
| 58 | 52 | | 355 | 409 | 445 | 491 | 536 | | 418 | 114 | 410 | 497 | 493 | | 720 | 720 | 769 | 789 | 789 | | 531 | 537 | 539 | 542 | 545 | 4 | 1 |
| 52 | 55 | | 536 | 561 | 627 | 672 | 717 | | 403 | 329 | 396 | 322 | 389 | | 789 | 782 | 782 | 758 | 708 | | 545 | 546 | 559 | 553 | 556 | 28. 0 | 0 |
| | | | 4° 60″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 0″ | | 4° 50″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 80″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 5″ | | 4° 80″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 5″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 11h | 172° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 5h | 82° |

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**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 8° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 6" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 5" 0° | 15" 1° | 30" 2° | 45" 3° | 50" 4° | | |
| 9 | 32. 0 | 9.14 356 | 378 | 408 | 493 | 445 | 9,99 575 | 575 | 574 | 574 | 574 | 0.09 425 | 425 | 426 | 429 | 426 | 9.85 644 | 622 | 600 | 577 | 999 | 56 | 59 |
| 1 | 4 | 445 | 168 | 490 | 513 | 535 | 674 | 573 | 573 | 572 | 572 | 426 | 427 | 427 | 428 | 428 | 655 | 632 | 615 | 487 | 465 | 92 | 55 |
| 9 | 8 | 635 | 557 | 580 | 602 | 624 | 572 | 571 | 571 | 570 | 570 | 428 | 429 | 429 | 430 | 430 | 465 | 443 | 429 | 398 | 379 | 48 | 57 |
| 3 | 12 | 624 | 647 | 869 | 691 | 714 | 570 | 559 | 569 | 569 | 568 | 430 | 431 | 431 | 431 | 432 | 376 | 353 | 331 | 309 | 286 | 44 | 59 |
| 4 | 16 | 714 | 736 | 758 | 780 | 853 | 668 | 568 | 567 | 567 | 566 | 432 | 432 | 433 | 433 | 434 | 286 | 264 | 249 | 220 | 197 | 27. 40 | 95 |
| 9 | 32. 20 | 9.14 803 | 825 | 847 | 869 | 891 | 9.99 566 | 566 | 565 | 565 | 565 | 9.08 434 | 434 | 435 | 435 | 435 | 9.86 197 | 175 | 153 | 131 | 109 | 36 | 54 |
| 6 | 24 | 891 | 914 | 936 | 958 | 960 | 565 | 564 | 564 | 563 | 563 | 435 | 435 | 436 | 437 | 437 | 109 | 086 | 064 | 842 | 020 | 32 | 53 |
| 7 | 28 | * 985 | 002 | 024 | 847 | 069 | 963 | 562 | 562 | 561 | 561 | 437 | 438 | 438 | 439 | 439 | * 820 | 998 | 976 | 953 | 931 | 98 | 52 |
| 8 | 32 | 9.16 869 | 091 | 113 | 135 | 157 | 661 | 561 | 560 | 550 | 559 | 439 | 439 | 440 | 440 | 441 | 0.84 931 | 909 | 887 | 865 | 843 | 94 | 51 |
| 9 | 36 | 167 | 179 | 281 | 223 | 245 | 559 | 559 | 558 | 568 | 557 | 441 | 441 | 442 | 449 | 443 | 843 | 821 | 799 | 777 | 765 | 27. 20 | 59 |
| 10 | 32. 40 | 9.15 245 | 267 | 289 | 311 | 333 | 9.99 557 | 557 | 556 | 556 | 556 | 8.08 443 | 443 | 444 | 444 | 444 | 8.84 755 | 733 | 711 | 689 | 667 | 16 | 49 |
| 11 | 44 | 333 | 355 | 377 | 399 | 421 | 556 | 555 | 555 | 554 | 564 | 444 | 445 | 445 | 446 | 446 | 667 | 645 | 623 | 601 | 579 | 12 | 48 |
| 12 | 48 | 421 | 443 | 465 | 486 | 508 | 654 | 553 | 653 | 652 | 562 | 446 | 447 | 447 | 448 | 448 | 679 | 557 | 535 | 514 | 499 | 8 | 47 |
| 13 | 62 | 608 | 530 | 552 | 574 | 596 | 552 | 551 | 551 | 651 | 550 | 448 | 449 | 449 | 449 | 450 | 492 | 475 | 448 | 426 | 454 | 4 | 46 |
| 14 | 66 | 996 | 618 | 639 | 661 | 683 | 550 | 550 | 549 | 549 | 548 | 460 | 450 | 451 | 451 | 452 | 404 | 382 | 361 | 339 | 317 | 27. 0 | 45 |
| 15 | 33. 0 | 9.15 683 | 705 | 727 | 748 | 770 | 9.99 548 | 548 | 547 | 547 | 546 | 0.00 452 | 452 | 453 | 453 | 451 | 8.84 317 | 295 | 274 | 252 | 930 | 56 | 44 |
| 16 | 4 | 770 | 792 | 813 | 835 | 857 | 546 | 546 | 546 | 545 | 545 | 454 | 454 | 455 | 455 | 455 | 930 | 208 | 187 | 165 | 143 | 52 | 43 |
| 17 | 8 | 857 | 879 | 900 | 922 | 944 | 545 | 544 | 544 | 543 | 543 | 455 | 456 | 456 | 457 | 457 | 143 | 121 | 100 | 078 | 056 | 48 | 49 |
| 18 | 12 | * 914 | 966 | 987 | 008 | 030 | 543 | 542 | 542 | 541 | 541 | 457 | 458 | 458 | 459 | 459 | * 059 | 035 | 813 | 992 | 970 | 44 | 41 |
| 19 | 16 | 9.18 030 | 052 | 973 | 095 | 116 | 541 | 540 | 540 | 539 | 539 | 469 | 460 | 460 | 461 | 461 | 8.83 970 | 948 | 927 | 905 | 884 | 26. 40 | 49 |
| 90 | 33. 20 | 9.19 116 | 138 | 159 | 181 | 203 | 9.99 539 | 539 | 538 | 530 | 537 | 0.00 461 | 461 | 462 | 462 | 463 | 9.83 884 | 862 | 041 | 819 | 797 | 36 | 39 |
| 91 | 24 | 903 | 224 | 246 | 267 | 289 | 537 | 537 | 536 | 536 | 535 | 463 | 463 | 464 | 464 | 465 | 797 | 776 | 754 | 733 | 711 | 32 | 39 |
| 92 | 28 | 989 | 310 | 331 | 353 | 374 | 535 | 535 | 534 | 534 | 533 | 465 | 465 | 466 | 466 | 467 | 711 | 690 | 669 | 647 | 626 | 28 | 37 |
| 93 | 32 | 374 | 396 | 417 | 439 | 460 | 533 | 533 | 533 | 532 | 532 | 467 | 467 | 467 | 468 | 468 | 626 | 604 | 583 | 561 | 540 | 24 | 39 |
| 94 | 36 | 460 | 481 | 503 | 524 | 545 | 532 | 531 | 531 | 530 | 530 | 468 | 469 | 469 | 470 | 475 | 540 | 519 | 497 | 476 | 455 | 26. 28 | 35 |
| 25 | 33. 40 | 9.16 545 | 567 | 588 | 609 | 631 | 9.99 530 | 529 | 529 | 528 | 528 | 0.00 470 | 471 | 471 | 472 | 472 | 8.83 455 | 433 | 412 | 391 | 369 | 16 | 34 |
| 98 | 41 | 631 | 652 | 673 | 695 | 716 | 528 | 527 | 527 | 526 | 526 | 472 | 473 | 473 | 474 | 474 | 369 | 348 | 327 | 385 | 284 | 12 | 33 |
| 27 | 48 | 716 | 737 | 758 | 780 | 801 | 526 | 526 | 525 | 625 | 624 | 474 | 474 | 475 | 475 | 476 | 984 | 263 | 242 | 220 | 199 | 8 | 32 |
| 28 | 52 | 801 | 822 | 843 | 864 | 806 | 524 | 524 | 523 | 623 | 522 | 476 | 476 | 477 | 477 | 478 | 199 | 178 | 157 | 136 | 114 | 4 | 31 |
| 99 | 56 | 886 | 907 | 928 | 949 | 970 | 522 | 522 | 521 | 521 | 520 | 478 | 478 | 479 | 479 | 480 | 114 | 093 | 879 | 851 | 839 | 26. 0 | 38 |
| 38 | 34. 8 | * 970 | 991 | 012 | 034 | 055 | 9.99 525 | 520 | 519 | 519 | 518 | 0.50 480 | 480 | 481 | 481 | 482 | * 030 | 009 | 988 | 966 | 945 | 56 | 29 |
| 31 | 4 | 9.17 055 | 076 | 597 | 118 | 139 | 518 | 518 | 517 | 517 | 517 | 482 | 482 | 483 | 483 | 483 | 0.92 945 | 924 | 903 | 882 | 861 | 52 | 28 |
| 32 | 9 | 139 | 160 | 181 | 202 | 923 | 517 | 516 | 516 | 515 | 515 | 483 | 484 | 484 | 485 | 485 | 861 | 840 | 919 | 798 | 777 | 48 | 97 |
| 33 | 12 | 223 | 244 | 265 | 286 | 307 | 515 | 514 | 514 | 513 | 513 | 485 | 486 | 486 | 487 | 487 | 777 | 756 | 735 | 714 | 693 | 44 | 26 |
| 34 | 16 | 307 | 328 | 349 | 370 | 391 | 513 | 519 | 612 | 611 | 511 | 487 | 488 | 488 | 489 | 489 | 693 | 672 | 651 | 630 | 609 | 99. 40 | 25 |
| 35 | 34. 20 | 9.17 391 | 412 | 433 | 454 | 474 | 9.99 611 | 510 | 610 | 509 | 509 | 0.00 489 | 490 | 490 | 491 | 491 | 8.82 909 | 588 | 667 | 547 | 926 | 56 | 24 |
| 36 | 91 | 474 | 496 | 516 | 537 | 658 | 909 | 506 | 508 | 507 | 507 | 491 | 492 | 492 | 493 | 493 | 526 | 505 | 484 | 463 | 442 | 32 | 23 |
| 37 | 98 | 558 | 579 | 600 | 620 | 641 | 507 | 507 | 506 | 506 | 505 | 493 | 493 | 494 | 494 | 495 | 442 | 421 | 481 | 388 | 359 | 28 | 22 |
| 38 | 32 | 641 | 662 | 083 | 703 | 724 | 905 | 505 | 504 | 504 | 583 | 495 | 495 | 496 | 496 | 497 | 359 | 338 | 317 | 297 | 276 | 24 | 91 |
| 39 | 36 | 724 | 745 | 766 | 786 | 807 | 903 | 503 | 599 | 502 | 581 | 497 | 497 | 498 | 498 | 499 | 276 | 255 | 234 | 214 | 193 | 25. 20 | 29 |
| 40 | 34. 40 | 9.17 807 | 828 | 849 | 869 | 890 | 9.99 501 | 501 | 600 | 500 | 499 | 0.00 499 | 499 | 500 | 508 | 501 | 0.82 193 | 172 | 151 | 131 | 110 | 16 | 19 |
| 41 | 44 | 890 | 911 | 931 | 952 | 973 | 499 | 499 | 498 | 498 | 497 | 501 | 601 | 582 | 502 | 503 | 110 | 089 | 069 | 048 | 027 | 12 | 18 |
| 42 | 48 | * 973 | 993 | 014 | 035 | 055 | 497 | 497 | 496 | 496 | 495 | 503 | 503 | 504 | 554 | 505 | * 027 | 007 | 909 | 965 | 945 | 9 | 17 |
| 43 | 52 | 9.19 055 | 076 | 096 | 117 | 137 | 495 | 495 | 494 | 494 | 494 | 505 | 505 | 556 | 506 | 606 | 0.81 945 | 924 | 904 | 883 | 863 | 4 | 16 |
| 44 | 56 | 137 | 158 | 179 | 199 | 220 | 494 | 493 | 493 | 492 | 492 | 906 | 507 | 507 | 508 | 608 | 963 | 042 | 821 | 801 | 780 | 25. 0 | 19 |
| 45 | 35. 0 | 9.18 220 | 240 | 261 | 281 | 302 | 9.99 492 | 491 | 491 | 490 | 490 | 8.00 508 | 509 | 509 | 510 | 510 | 0.81 780 | 760 | 739 | 719 | 698 | 96 | 14 |
| 46 | 4 | 382 | 323 | 343 | 363 | 383 | 490 | 489 | 489 | 488 | 488 | 510 | 511 | 511 | 512 | 512 | 698 | 678 | 657 | 637 | 617 | 92 | 13 |
| 47 | 8 | 383 | 484 | 424 | 445 | 465 | 488 | 487 | 487 | 486 | 486 | 512 | 513 | 613 | 514 | 314 | 617 | 596 | 576 | 555 | 535 | 48 | 19 |
| 48 | 12 | 465 | 486 | 506 | 526 | 547 | 486 | 485 | 485 | 484 | 484 | 514 | 515 | 515 | 516 | 515 | 535 | 514 | 494 | 474 | 453 | 44 | 11 |
| 49 | 16 | 947 | 567 | 587 | 608 | 628 | 484 | 483 | 483 | 482 | 482 | 516 | 517 | 517 | 518 | 518 | 453 | 433 | 413 | 392 | 379 | 24. 48 | 15 |
| 99 | 35. 20 | 9.18 628 | 648 | 669 | 609 | 709 | 9.99 482 | 481 | 481 | 480 | 480 | 8.00 918 | 519 | 519 | 525 | 520 | 9.81 372 | 352 | 331 | 311 | 291 | 36 | 9 |
| 91 | 94 | 709 | 730 | 750 | 778 | 790 | 480 | 479 | 479 | 478 | 478 | 520 | 521 | 521 | 522 | 522 | 291 | 270 | 950 | 230 | 210 | 32 | 8 |
| 52 | 28 | 790 | 811 | 831 | 851 | 871 | 478 | 477 | 477 | 476 | 476 | 522 | 623 | 523 | 524 | 524 | 210 | 189 | 169 | 149 | 129 | 98 | 7 |
| 93 | 32 | 871 | 891 | 912 | 932 | 952 | 476 | 475 | 475 | 474 | 474 | 994 | 525 | 525 | 526 | 526 | 129 | 109 | 888 | 068 | 048 | 91 | 9 |
| 54 | 36 | * 952 | 972 | 992 | 019 | 033 | 474 | 473 | 473 | 472 | 472 | 926 | 527 | 527 | 528 | 528 | * 048 | 828 | 008 | 988 | 967 | 94. 20 | 9 |
| 59 | 35. 40 | 9.19 033 | 053 | 573 | 093 | 113 | 9.99 472 | 471 | 471 | 470 | 470 | 0.09 528 | 529 | 529 | 530 | 530 | 0.80 967 | 947 | 927 | 907 | 887 | 16 | 4 |
| 99 | 44 | 113 | 133 | 153 | 173 | 193 | 470 | 469 | 469 | 468 | 468 | 930 | 531 | 531 | 532 | 532 | 887 | 867 | 847 | 827 | 807 | 12 | 3 |
| 67 | 48 | 193 | 213 | 233 | 253 | 973 | 468 | 467 | 467 | 466 | 466 | 932 | 533 | 533 | 534 | 534 | 807 | 787 | 767 | 747 | 727 | 8 | 9 |
| 58 | 92 | 973 | 293 | 313 | 333 | 353 | 466 | 465 | 465 | 464 | 464 | 534 | 535 | 535 | 536 | 535 | 727 | 757 | 687 | 667 | 647 | 4 | 1 |
| 99 | 96 | 353 | 373 | 393 | 413 | 433 | 464 | 463 | 463 | 462 | 462 | 536 | 537 | 537 | 538 | 538 | 947 | 627 | 607 | 587 | 567 | 24. 5 | 9 |
| | | 4° 90" | 3° 45" | 2° 35" | 1° 15" | 0° 9" | 4° 90" | 3° 45" | 2° 30" | 1° 15" | 0° 9" | 4° 90" | 3° 45" | 2° 38" | 1° 15" | 0° 6" | 4° 60" | 3° 45" | 9° 38" | 1° 15" | 0° 8" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 171° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 81° |

TABLA XVI. Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 8° | 0h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 32. 0 | 7.68 717 | 762 | 807 | 852 | 897 | 9.63 389 | 385 | 381 | 378 | 374 | 9.99 788 | 788 | 788 | 787 | 787 | 9.75 556 | 559 | 561 | 564 | 567 | 56 | 59 |
| 1 | 4 | * 897 | 942 | 987 | 032 | 077 | 374 | 370 | 367 | 363 | 359 | 787 | 787 | 787 | 787 | 786 | 567 | 570 | 572 | 575 | 578 | 52 | 58 |
| 2 | 8 | 7.69 077 | 122 | 167 | 212 | 257 | 359 | 356 | 352 | 349 | 345 | 786 | 786 | 786 | 786 | 785 | 578 | 581 | 583 | 586 | 589 | 48 | 57 |
| 3 | 12 | 257 | 302 | 347 | 392 | 437 | 345 | 341 | 338 | 334 | 330 | 785 | 785 | 785 | 785 | 785 | 589 | 592 | 594 | 597 | 600 | 44 | 56 |
| 4 | 16 | 437 | 481 | 526 | 571 | 616 | 330 | 327 | 323 | 319 | 316 | 785 | 784 | 784 | 784 | 784 | 600 | 603 | 605 | 608 | 611 | 27. 40 | 55 |
| 5 | 32. 20 | 7.69 616 | 660 | 705 | 750 | 794 | 9.63 316 | 312 | 309 | 305 | 301 | 9.99 784 | 783 | 783 | 783 | 783 | 9.75 611 | 614 | 616 | 619 | 622 | 36 | 54 |
| 6 | 24 | 794 | 839 | 883 | 928 | 972 | 301 | 298 | 294 | 290 | 287 | 783 | 783 | 782 | 782 | 782 | 622 | 625 | 627 | 630 | 633 | 32 | 53 |
| 7 | 28 | * 972 | 017 | 061 | 106 | 150 | 287 | 283 | 279 | 276 | 272 | 782 | 782 | 781 | 781 | 781 | 633 | 635 | 638 | 641 | 644 | 28 | 52 |
| 8 | 32 | 7.70 150 | 195 | 239 | 283 | 328 | 272 | 269 | 265 | 261 | 258 | 781 | 781 | 781 | 780 | 780 | 644 | 646 | 649 | 652 | 655 | 24 | 51 |
| 9 | 36 | 328 | 372 | 416 | 461 | 505 | 258 | 254 | 250 | 247 | 243 | 780 | 780 | 780 | 779 | 779 | 655 | 657 | 660 | 663 | 666 | 27. 20 | 50 |
| 10 | 32. 40 | 7.70 505 | 549 | 593 | 638 | 682 | 9.63 243 | 239 | 236 | 232 | 228 | 9.99 779 | 779 | 779 | 778 | 778 | 9.75 666 | 668 | 671 | 674 | 677 | 16 | 49 |
| 11 | 44 | 682 | 726 | 770 | 814 | 858 | 228 | 225 | 221 | 218 | 214 | 778 | 778 | 778 | 777 | 777 | 677 | 679 | 682 | 685 | 688 | 12 | 48 |
| 12 | 48 | * 858 | 902 | 946 | 990 | 034 | 214 | 210 | 207 | 203 | 199 | 777 | 777 | 777 | 777 | 777 | 688 | 690 | 693 | 696 | 698 | 8 | 47 |
| 13 | 52 | 7.71 034 | 078 | 122 | 166 | 210 | 199 | 196 | 192 | 188 | 185 | 777 | 776 | 776 | 776 | 776 | 698 | 701 | 704 | 707 | 709 | 4 | 46 |
| 14 | 56 | 210 | 254 | 298 | 341 | 385 | 185 | 181 | 177 | 174 | 170 | 776 | 775 | 775 | 775 | 775 | 709 | 712 | 715 | 718 | 720 | 27. 0 | 45 |
| 15 | 33. 0 | 7.71 385 | 429 | 473 | 516 | 560 | 9.63 170 | 166 | 163 | 159 | 156 | 9.99 775 | 774 | 774 | 774 | 774 | 9.75 720 | 723 | 726 | 729 | 731 | 56 | 44 |
| 16 | 4 | 560 | 604 | 648 | 691 | 735 | 156 | 152 | 148 | 145 | 141 | 774 | 774 | 773 | 773 | 773 | 731 | 734 | 737 | 739 | 742 | 52 | 43 |
| 17 | 8 | 735 | 778 | 822 | 866 | 909 | 141 | 137 | 134 | 130 | 126 | 773 | 773 | 772 | 772 | 772 | 742 | 745 | 748 | 750 | 753 | 48 | 42 |
| 18 | 12 | * 909 | 953 | 996 | 040 | 083 | 126 | 123 | 119 | 115 | 112 | 772 | 772 | 771 | 771 | 771 | 753 | 756 | 759 | 761 | 764 | 44 | 41 |
| 19 | 16 | 7.72 083 | 126 | 170 | 213 | 257 | 112 | 108 | 104 | 101 | 097 | 771 | 771 | 771 | 770 | 770 | 764 | 767 | 769 | 772 | 775 | 26. 40 | 40 |
| 20 | 33. 20 | 7.72 257 | 300 | 343 | 387 | 430 | 9.63 097 | 093 | 090 | 086 | 082 | 9.99 770 | 770 | 770 | 769 | 769 | 9.75 775 | 778 | 780 | 783 | 786 | 36 | 39 |
| 21 | 24 | 430 | 473 | 516 | 560 | 603 | 082 | 079 | 075 | 071 | 068 | 769 | 769 | 769 | 769 | 768 | 786 | 789 | 791 | 794 | 797 | 32 | 38 |
| 22 | 28 | 603 | 646 | 689 | 732 | 775 | 068 | 064 | 061 | 057 | 053 | 768 | 768 | 768 | 768 | 767 | 797 | 800 | 802 | 805 | 808 | 28 | 37 |
| 23 | 32 | 775 | 818 | 861 | 904 | 947 | 053 | 050 | 046 | 042 | 039 | 767 | 767 | 767 | 767 | 766 | 808 | 810 | 813 | 816 | 819 | 24 | 36 |
| 24 | 36 | * 947 | 990 | 033 | 076 | 119 | 039 | 035 | 031 | 028 | 024 | 766 | 766 | 766 | 766 | 765 | 819 | 821 | 824 | 827 | 830 | 26. 20 | 35 |
| 25 | 33. 40 | 7.73 119 | 162 | 205 | 248 | 291 | 9.63 024 | 020 | 017 | 013 | 009 | 9.99 765 | 765 | 765 | 765 | 765 | 9.75 830 | 832 | 835 | 838 | 840 | 16 | 34 |
| 26 | 44 | 291 | 334 | 377 | 419 | 462 | * 009 | 006 | 002 | 998 | 995 | 765 | 764 | 764 | 764 | 764 | 840 | 843 | 846 | 849 | 851 | 12 | 33 |
| 27 | 48 | 462 | 505 | 548 | 590 | 633 | 9.62 995 | 991 | 987 | 984 | 980 | 764 | 763 | 763 | 763 | 763 | 851 | 854 | 857 | 859 | 862 | 8 | 32 |
| 28 | 52 | 633 | 675 | 718 | 760 | 803 | 980 | 976 | 973 | 969 | 965 | 763 | 762 | 762 | 762 | 762 | 862 | 865 | 868 | 870 | 873 | 4 | 31 |
| 29 | 56 | 803 | 846 | 889 | 931 | 974 | 965 | 962 | 958 | 954 | 951 | 762 | 762 | 761 | 761 | 761 | 873 | 876 | 879 | 881 | 884 | 26. 0 | 30 |
| 30 | 34. 0 | * 974 | 016 | 059 | 101 | 143 | 9.62 951 | 947 | 943 | 940 | 936 | 9.99 761 | 761 | 760 | 760 | 760 | 9.75 884 | 887 | 889 | 892 | 895 | 56 | 29 |
| 31 | 4 | 7.74 143 | 186 | 228 | 271 | 313 | 936 | 932 | 929 | 925 | 921 | 760 | 760 | 759 | 759 | 759 | 895 | 898 | 900 | 903 | 906 | 52 | 28 |
| 32 | 8 | 313 | 355 | 398 | 440 | 482 | 921 | 918 | 914 | 910 | 907 | 759 | 759 | 758 | 758 | 758 | 906 | 908 | 911 | 914 | 917 | 48 | 27 |
| 33 | 12 | 482 | 524 | 567 | 609 | 651 | 907 | 903 | 899 | 896 | 892 | 758 | 758 | 758 | 757 | 757 | 917 | 919 | 922 | 925 | 927 | 44 | 26 |
| 34 | 16 | 651 | 693 | 735 | 777 | 819 | 892 | 888 | 885 | 881 | 877 | 757 | 757 | 757 | 756 | 756 | 927 | 930 | 933 | 936 | 938 | 25. 40 | 25 |
| 35 | 34. 20 | 7.74 819 | 862 | 904 | 946 | 988 | 9.62 877 | 874 | 870 | 866 | 863 | 9.99 756 | 756 | 756 | 755 | 755 | 9.75 938 | 941 | 944 | 947 | 949 | 36 | 24 |
| 36 | 24 | * 988 | 030 | 072 | 114 | 155 | 863 | 859 | 855 | 852 | 848 | 755 | 755 | 755 | 754 | 754 | 949 | 952 | 955 | 957 | 960 | 32 | 23 |
| 37 | 28 | 7.75 155 | 197 | 239 | 281 | 323 | 848 | 844 | 841 | 837 | 833 | 754 | 754 | 754 | 753 | 753 | 960 | 963 | 966 | 968 | 971 | 28 | 22 |
| 38 | 32 | 323 | 365 | 407 | 448 | 490 | 833 | 830 | 826 | 822 | 819 | 753 | 753 | 753 | 753 | 752 | 971 | 974 | 976 | 979 | 982 | 24 | 21 |
| 39 | 36 | 490 | 532 | 574 | 615 | 657 | 819 | 815 | 811 | 808 | 804 | 752 | 752 | 752 | 752 | 751 | 982 | 985 | 987 | 990 | 993 | 25. 20 | 20 |
| 40 | 34. 40 | 7.75 657 | 699 | 740 | 782 | 824 | 9.62 804 | 800 | 796 | 793 | 789 | 9.99 751 | 751 | 751 | 751 | 750 | * 993 | 995 | 998 | 001 | 004 | 16 | 19 |
| 41 | 44 | 824 | 865 | 907 | 948 | 990 | 789 | 785 | 782 | 778 | 774 | 750 | 750 | 750 | 750 | 749 | 9.76 004 | 006 | 009 | 012 | 014 | 12 | 18 |
| 42 | 48 | * 990 | 031 | 073 | 114 | 156 | 774 | 771 | 767 | 763 | 760 | 749 | 749 | 749 | 749 | 748 | 014 | 017 | 020 | 022 | 025 | 8 | 17 |
| 43 | 52 | 7.76 156 | 197 | 239 | 280 | 321 | 760 | 756 | 752 | 749 | 745 | 748 | 748 | 748 | 748 | 747 | 025 | 028 | 031 | 033 | 036 | 4 | 16 |
| 44 | 56 | 321 | 363 | 404 | 445 | 487 | 745 | 741 | 738 | 734 | 730 | 747 | 747 | 747 | 747 | 747 | 036 | 039 | 041 | 044 | 047 | 25. 0 | 15 |
| 45 | 35. 0 | 7.76 487 | 528 | 569 | 610 | 652 | 9.62 730 | 727 | 723 | 719 | 715 | 9.99 747 | 746 | 746 | 746 | 746 | 9.76 047 | 050 | 052 | 055 | 058 | 56 | 14 |
| 46 | 4 | 652 | 693 | 734 | 775 | 816 | 715 | 712 | 708 | 704 | 701 | 746 | 745 | 745 | 745 | 745 | 058 | 060 | 063 | 066 | 069 | 52 | 13 |
| 47 | 8 | 816 | 857 | 898 | 940 | 981 | 701 | 697 | 693 | 690 | 686 | 745 | 744 | 744 | 744 | 744 | 069 | 071 | 074 | 077 | 079 | 48 | 12 |
| 48 | 12 | * 981 | 022 | 063 | 104 | 145 | 686 | 682 | 679 | 675 | 671 | 744 | 743 | 743 | 743 | 743 | 079 | 082 | 085 | 088 | 090 | 44 | 11 |
| 49 | 16 | 7.77 145 | 186 | 227 | 267 | 308 | 671 | 668 | 664 | 660 | 657 | 743 | 742 | 742 | 742 | 742 | 090 | 093 | 096 | 098 | 101 | 24. 40 | 10 |
| 50 | 35. 20 | 7.77 308 | 349 | 390 | 431 | 472 | 9.62 657 | 653 | 649 | 646 | 642 | 9.99 742 | 741 | 741 | 741 | 741 | 9.76 101 | 104 | 106 | 109 | 112 | 36 | 9 |
| 51 | 24 | 472 | 513 | 553 | 594 | 635 | 642 | 638 | 635 | 631 | 627 | 741 | 740 | 740 | 740 | 740 | 112 | 115 | 117 | 120 | 123 | 32 | 8 |
| 52 | 28 | 635 | 676 | 716 | 757 | 798 | 627 | 623 | 620 | 616 | 612 | 740 | 739 | 739 | 739 | 739 | 123 | 125 | 128 | 131 | 133 | 28 | 7 |
| 53 | 32 | 798 | 838 | 879 | 920 | 960 | 612 | 609 | 605 | 601 | 598 | 739 | 738 | 738 | 738 | 738 | 133 | 136 | 139 | 142 | 144 | 24 | 6 |
| 54 | 36 | * 960 | 001 | 041 | 082 | 122 | 598 | 594 | 590 | 586 | 583 | 738 | 738 | 737 | 737 | 737 | 144 | 147 | 150 | 152 | 155 | 24. 20 | 5 |
| 55 | 35. 40 | 7.78 122 | 163 | 203 | 244 | 284 | 9.62 583 | 579 | 575 | 572 | 568 | 9.99 737 | 737 | 736 | 736 | 736 | 9.76 155 | 158 | 161 | 163 | 166 | 16 | 4 |
| 56 | 44 | 284 | 325 | 365 | 405 | 446 | 568 | 564 | 561 | 557 | 553 | 736 | 736 | 735 | 735 | 735 | 166 | 169 | 171 | 174 | 177 | 12 | 3 |
| 57 | 48 | 446 | 486 | 526 | 567 | 607 | 553 | 550 | 546 | 542 | 538 | 735 | 735 | 734 | 734 | 734 | 177 | 179 | 182 | 185 | 188 | 8 | 2 |
| 58 | 52 | 607 | 647 | 688 | 728 | 768 | 538 | 535 | 531 | 527 | 524 | 734 | 734 | 733 | 733 | 733 | 188 | 190 | 193 | 196 | 198 | 4 | 1 |
| 59 | 56 | 768 | 808 | 848 | 889 | 929 | 524 | 520 | 516 | 513 | 509 | 733 | 733 | 732 | 732 | 732 | 198 | 201 | 204 | 206 | 209 | 24. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 44h | 171° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 5h | 81° |

Digitized by Google

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 9° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 99° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 16″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 36. 6 | 9.19 433 | 453 | 473 | 493 | 513 | 9.99 462 | 461 | 461 | 460 | 460 | 0.00 538 | 539 | 539 | 548 | 540 | 9.80 567 | 547 | 627 | 507 | 487 | 56 | 59 |
| 1 | 4 | 613 | 533 | 553 | 573 | 522 | 460 | 452 | 459 | 458 | 458 | 540 | 541 | 541 | 542 | 542 | 487 | 467 | 447 | 427 | 406 | 52 | 58 |
| 2 | 8 | 592 | 612 | 632 | 652 | 672 | 458 | 457 | 457 | 456 | 456 | 542 | 543 | 543 | 544 | 544 | 408 | 388 | 368 | 348 | 326 | 48 | 57 |
| 3 | 12 | 672 | 622 | 712 | 731 | 751 | 456 | 455 | 455 | 454 | 454 | 544 | 545 | 545 | 546 | 546 | 328 | 306 | 289 | 269 | 249 | 44 | 56 |
| 4 | 16 | 751 | 771 | 791 | 816 | 830 | 454 | 453 | 453 | 452 | 452 | 646 | 547 | 547 | 546 | 648 | 249 | 229 | 209 | 196 | 178 | 23. 46 | 55 |
| 5 | 36. 20 | 9.19 530 | 850 | 870 | 889 | 909 | 9.99 452 | 451 | 451 | 450 | 450 | 0.00 648 | 549 | 549 | 550 | 550 | 0.80 176 | 150 | 130 | 111 | 091 | 36 | 64 |
| 6 | 24 | 909 | 229 | 949 | 968 | 988 | 450 | 449 | 449 | 448 | 448 | 650 | 551 | 551 | 552 | 552 | 091 | 071 | 051 | 032 | 812 | 32 | 53 |
| 7 | 28 | * 988 | 608 | 627 | 647 | 067 | 448 | 447 | 447 | 446 | 446 | 552 | 553 | 553 | 554 | 554 | * 612 | 992 | 973 | 953 | 933 | 28 | 52 |
| 8 | 32 | 9.20 667 | 086 | 106 | 125 | 145 | 446 | 445 | 445 | 444 | 444 | 554 | 655 | 555 | 556 | 556 | 0.79 933 | 914 | 894 | 675 | 856 | 24 | 51 |
| 9 | 36 | 145 | 165 | 184 | 204 | 223 | 444 | 443 | 443 | 442 | 442 | 656 | 557 | 567 | 558 | 558 | 855 | 035 | 816 | 796 | 777 | 23. 20 | 50 |
| 10 | 36. 40 | 9.20 223 | 243 | 263 | 282 | 362 | 9.99 442 | 441 | 441 | 446 | 440 | 0.00 658 | 559 | 559 | 560 | 560 | 9.79 777 | 757 | 737 | 718 | 698 | 16 | 49 |
| 11 | 44 | 362 | 321 | 341 | 366 | 386 | 440 | 439 | 439 | 438 | 438 | 566 | 561 | 561 | 562 | 562 | 598 | 679 | 659 | 640 | 620 | 12 | 48 |
| 12 | 48 | 386 | 399 | 412 | 438 | 458 | 438 | 437 | 437 | 436 | 436 | 562 | 563 | 563 | 564 | 564 | 528 | 661 | 581 | 562 | 542 | 8 | 47 |
| 13 | 52 | 458 | 477 | 497 | 516 | 535 | 436 | 435 | 435 | 434 | 434 | 564 | 565 | 565 | 566 | 566 | 542 | 523 | 503 | 484 | 465 | 4 | 46 |
| 14 | 56 | 635 | 555 | 574 | 594 | 613 | 434 | 433 | 433 | 432 | 432 | 566 | 567 | 567 | 568 | 568 | 465 | 446 | 426 | 406 | 387 | 23. 0 | 45 |
| 15 | 37. 0 | 9.26 613 | 632 | 652 | 671 | 691 | 9.99 432 | 431 | 431 | 436 | 430 | 0.00 568 | 569 | 569 | 576 | 576 | 0.79 387 | 368 | 348 | 329 | 309 | 56 | 44 |
| 16 | 4 | 691 | 710 | 729 | 749 | 768 | 430 | 429 | 428 | 428 | 427 | 570 | 571 | 572 | 572 | 573 | 369 | 290 | 271 | 251 | 232 | 52 | 43 |
| 17 | 8 | 768 | 787 | 807 | 626 | 845 | 427 | 427 | 426 | 426 | 425 | 673 | 573 | 574 | 574 | 575 | 232 | 213 | 193 | 174 | 155 | 46 | 42 |
| 19 | 12 | 846 | 864 | 881 | 903 | 922 | 425 | 425 | 424 | 424 | 423 | 575 | 575 | 576 | 576 | 577 | 155 | 136 | 116 | 097 | 076 | 44 | 41 |
| 19 | 16 | 922 | 941 | 961 | 986 | 999 | 423 | 423 | 422 | 422 | 421 | 577 | 577 | 578 | 578 | 579 | 078 | 059 | 039 | 620 | 001 | 22. 40 | 40 |
| 26 | 37. 26 | * 999 | 618 | 038 | 657 | 076 | 9.99 421 | 421 | 420 | 426 | 419 | 0.00 579 | 579 | 580 | 580 | 581 | * 001 | 982 | 962 | 243 | 924 | 36 | 39 |
| 21 | 21 | 9.21 076 | 695 | 114 | 133 | 153 | 419 | 419 | 416 | 418 | 417 | 581 | 581 | 582 | 582 | 583 | 0.78 924 | 905 | 886 | 867 | 847 | 32 | 38 |
| 22 | 28 | 153 | 172 | 191 | 216 | 229 | 417 | 417 | 416 | 416 | 415 | 583 | 583 | 584 | 584 | 585 | 847 | 828 | 802 | 790 | 771 | 28 | 37 |
| 23 | 32 | 229 | 248 | 267 | 286 | 306 | 415 | 414 | 414 | 413 | 413 | 585 | 586 | 586 | 687 | 587 | 771 | 752 | 733 | 714 | 694 | 24 | 36 |
| 24 | 36 | 366 | 325 | 344 | 363 | 382 | 413 | 412 | 412 | 411 | 411 | 587 | 588 | 588 | 589 | 589 | 694 | 675 | 656 | 637 | 618 | 22. 20 | 35 |
| 25 | 37. 46 | 9.21 382 | 401 | 426 | 439 | 458 | 9.99 411 | 416 | 410 | 409 | 409 | 0.00 689 | 596 | 596 | 591 | 591 | 0.78 618 | 599 | 580 | 561 | 542 | 16 | 34 |
| 26 | 44 | 458 | 477 | 496 | 516 | 534 | 409 | 408 | 468 | 467 | 467 | 591 | 592 | 592 | 593 | 593 | 542 | 523 | 504 | 485 | 466 | 12 | 33 |
| 27 | 46 | 634 | 553 | 572 | 591 | 610 | 407 | 406 | 466 | 465 | 464 | 593 | 524 | 594 | 595 | 596 | 466 | 447 | 428 | 409 | 396 | 8 | 32 |
| 28 | 62 | 610 | 629 | 646 | 666 | 685 | 464 | 464 | 403 | 403 | 462 | 596 | 526 | 597 | 597 | 598 | 320 | 371 | 352 | 334 | 315 | 4 | 31 |
| 29 | 56 | 685 | 704 | 723 | 742 | 761 | 402 | 402 | 461 | 401 | 400 | 598 | 598 | 529 | 599 | 660 | 315 | 296 | 277 | 258 | 239 | 22. 6 | 30 |
| 36 | 38. 6 | 9.21 761 | 786 | 799 | 818 | 836 | 9.99 406 | 100 | 329 | 399 | 398 | 0.00 560 | 606 | 601 | 601 | 602 | 0.78 239 | 220 | 201 | 183 | 164 | 66 | 29 |
| 31 | 4 | 636 | 855 | 874 | 893 | 912 | 398 | 398 | 397 | 397 | 396 | 602 | 602 | 603 | 503 | 604 | 164 | 145 | 126 | 167 | 088 | 52 | 28 |
| 32 | 8 | 912 | 936 | 949 | 968 | 987 | 396 | 396 | 326 | 324 | 394 | 604 | 664 | 605 | 606 | 666 | 088 | 070 | 051 | 632 | 013 | 48 | 27 |
| 33 | 12 | * 907 | 066 | 624 | 043 | 062 | 394 | 393 | 393 | 322 | 392 | 606 | 607 | 607 | 608 | 608 | * 013 | 994 | 976 | 237 | 938 | 44 | 26 |
| 34 | 16 | 9.22 062 | 081 | 099 | 118 | 137 | 392 | 391 | 391 | 396 | 390 | 608 | 609 | 609 | 616 | 610 | 0.77 938 | 919 | 961 | 882 | 863 | 21. 40 | 25 |
| 35 | 38. 20 | 9.22 137 | 155 | 174 | 193 | 211 | 9.99 390 | 389 | 389 | 388 | 388 | 0.60 610 | 611 | 611 | 612 | 612 | 6.77 863 | 844 | 826 | 867 | 789 | 36 | 24 |
| 36 | 24 | 211 | 230 | 249 | 267 | 266 | 388 | 387 | 386 | 386 | 385 | 612 | 613 | 614 | 614 | 615 | 789 | 770 | 751 | 733 | 714 | 32 | 23 |
| 37 | 28 | 286 | 305 | 323 | 342 | 361 | 385 | 385 | 384 | 384 | 383 | 615 | 615 | 616 | 616 | 617 | 714 | 695 | 677 | 658 | 639 | 28 | 22 |
| 38 | 32 | 361 | 379 | 398 | 416 | 435 | 383 | 383 | 382 | 382 | 381 | 617 | 617 | 618 | 618 | 619 | 639 | 621 | 662 | 584 | 565 | 24 | 21 |
| 39 | 36 | 435 | 454 | 472 | 491 | 509 | 381 | 381 | 366 | 379 | 379 | 619 | 619 | 520 | 621 | 621 | 565 | 646 | 528 | 569 | 491 | 21. 20 | 20 |
| 46 | 38. 40 | 9.22 669 | 520 | 546 | 565 | 583 | 9.99 379 | 378 | 378 | 377 | 377 | 0.00 621 | 622 | 622 | 623 | 623 | 0.77 491 | 472 | 454 | 435 | 417 | 16 | 19 |
| 41 | 44 | 583 | 662 | 626 | 639 | 657 | 377 | 376 | 376 | 376 | 375 | 623 | 624 | 624 | 625 | 625 | 417 | 328 | 380 | 361 | 343 | 12 | 18 |
| 42 | 48 | 657 | 676 | 694 | 713 | 731 | 375 | 374 | 374 | 373 | 372 | 625 | 626 | 626 | 627 | 628 | 343 | 324 | 366 | 287 | 269 | 8 | 17 |
| 43 | 62 | 731 | 756 | 768 | 786 | 865 | 372 | 372 | 371 | 371 | 370 | 628 | 628 | 629 | 629 | 630 | 269 | 256 | 232 | 214 | 195 | 4 | 16 |
| 44 | 56 | 805 | 823 | 842 | 866 | 878 | 370 | 376 | 362 | 369 | 368 | 630 | 630 | 631 | 631 | 632 | 195 | 177 | 158 | 146 | 122 | 21. 0 | 15 |
| 45 | 39. 6 | 9.22 878 | 897 | 915 | 934 | 952 | 9.99 368 | 368 | 367 | 367 | 366 | 0.00 632 | 632 | 633 | 633 | 634 | 0.77 122 | 103 | 085 | 067 | 048 | 56 | 14 |
| 46 | 4 | * 952 | 970 | 969 | 067 | 025 | 366 | 365 | 365 | 364 | 364 | 631 | 635 | 635 | 636 | 636 | * 048 | 030 | 011 | 293 | 976 | 52 | 13 |
| 47 | 8 | 9.23 025 | 643 | 062 | 680 | 098 | 364 | 363 | 363 | 362 | 362 | 636 | 637 | 637 | 638 | 638 | 0.76 975 | 957 | 938 | 926 | 902 | 48 | 12 |
| 48 | 12 | 098 | 117 | 135 | 163 | 171 | 362 | 361 | 361 | 360 | 352 | 638 | 639 | 639 | 640 | 641 | 902 | 883 | 865 | 847 | 829 | 44 | 11 |
| 49 | 16 | 171 | 190 | 268 | 226 | 244 | 359 | 359 | 358 | 368 | 357 | 541 | 641 | 642 | 642 | 643 | 829 | 816 | 792 | 774 | 756 | 26. 40 | 10 |
| 68 | 39. 20 | 9.23 244 | 263 | 281 | 299 | 317 | 9.99 357 | 357 | 356 | 356 | 355 | 0.00 543 | 643 | 644 | 644 | 645 | 0.76 756 | 737 | 719 | 761 | 683 | 36 | 9 |
| 51 | 24 | 317 | 335 | 354 | 372 | 390 | 355 | 354 | 354 | 353 | 353 | 646 | 646 | 646 | 647 | 647 | 683 | 665 | 646 | 628 | 610 | 32 | 8 |
| 52 | 28 | 390 | 468 | 426 | 444 | 462 | 353 | 352 | 352 | 351 | 351 | 647 | 648 | 648 | 649 | 642 | 610 | 592 | 574 | 556 | 538 | 28 | 7 |
| 53 | 32 | 462 | 461 | 499 | 517 | 535 | 351 | 356 | 350 | 349 | 348 | 649 | 650 | 656 | 651 | 652 | 538 | 519 | 501 | 483 | 465 | 24 | 6 |
| 54 | 36 | 535 | 553 | 571 | 689 | 607 | 348 | 348 | 347 | 347 | 346 | 652 | 662 | 653 | 653 | 654 | 465 | 447 | 429 | 411 | 393 | 20. 26 | 5 |
| 55 | 39. 40 | 9.23 667 | 625 | 643 | 661 | 679 | 9.99 346 | 346 | 345 | 345 | 344 | 0.06 654 | 654 | 655 | 685 | 656 | 0.76 393 | 375 | 357 | 339 | 321 | 16 | 4 |
| 66 | 44 | 679 | 697 | 716 | 734 | 752 | 344 | 343 | 343 | 342 | 342 | 656 | 657 | 657 | 658 | 658 | 321 | 303 | 284 | 266 | 218 | 12 | 3 |
| 67 | 48 | 752 | 776 | 788 | 866 | 823 | 342 | 341 | 341 | 346 | 340 | 658 | 659 | 659 | 660 | 660 | 248 | 236 | 212 | 194 | 177 | 8 | 2 |
| 68 | 52 | 823 | 841 | 859 | 877 | 895 | 340 | 339 | 338 | 336 | 337 | 666 | 661 | 662 | 662 | 663 | 177 | 159 | 141 | 123 | 105 | 4 | 1 |
| 69 | 56 | 895 | 913 | 931 | 949 | 967 | 337 | 337 | 336 | 336 | 335 | 663 | 663 | 664 | 664 | 665 | 105 | 087 | 069 | 051 | 033 | 20. 8 | 9 |
| | | 4° 60″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 8° 0″ | 4° 60″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 170° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 80° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 9° / 99° | 0h / 6h | Verso / Coverso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Coverso / Subverso 0″ 0° | 15″ 1° | 30″ 2° | 45′ 3° | 60″ 4° | Subverso / Subcoverso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Subcoverso / Verso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 6° | 60″ 4° | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 36. 0 | 7.78*929 | 969 | 009 | 049 | 089 | 9.62 589 | 505 | 501 | 498 | 495 | 9.99 732 | 732 | 731 | 731 | 731 | 9.75 209 | 212 | 214 | 217 | 220 | 56 | 59 |
| 1 | 4 | 7.72 089 | 129 | 169 | 209 | 249 | 494 | 490 | 487 | 483 | 479 | 731 | 731 | 730 | 730 | 730 | 220 | 223 | 225 | 228 | 231 | 52 | 58 |
| 2 | 8 | 249 | 289 | 329 | 369 | 409 | 479 | 476 | 472 | 468 | 464 | 730 | 730 | 729 | 729 | 729 | 231 | 233 | 236 | 239 | 241 | 48 | 57 |
| 6 | 12 | 409 | 449 | 489 | 529 | 568 | 464 | 461 | 437 | 453 | 450 | 729 | 729 | 728 | 728 | 728 | 241 | 214 | 947 | 250 | 252 | 44 | 56 |
| 4 | 16 | 568 | 608 | 648 | 688 | 728 | 450 | 446 | 442 | 439 | 435 | 728 | 728 | 727 | 727 | 727 | 252 | 255 | 258 | 260 | 263 | 23. 40 | 55 |
| 5 | 36. 20 | 7.79 728 | 767 | 807 | 847 | 886 | 9.62 435 | 431 | 427 | 424 | 428 | 9.99 727 | 727 | 726 | 726 | 726 | 9.75 263 | 266 | 268 | 271 | 274 | 36 | 54 |
| 6 | 24 | * 886 | 926 | 966 | 005 | 045 | 420 | 416 | 413 | 409 | 405 | 726 | 726 | 725 | 725 | 725 | 274 | 276 | 279 | 282 | 285 | 32 | 53 |
| 7 | 28 | 7.80 045 | 085 | 124 | 164 | 203 | 405 | 402 | 398 | 394 | 398 | 725 | 725 | 724 | 724 | 724 | 285 | 287 | 290 | 293 | 295 | 28 | 52 |
| 8 | 32 | 203 | 243 | 282 | 322 | 361 | 390 | 387 | 383 | 379 | 376 | 724 | 724 | 723 | 723 | 723 | 295 | 298 | 301 | 383 | 306 | 24 | 51 |
| 2 | 36 | 361 | 401 | 440 | 480 | 519 | 376 | 372 | 368 | 364 | 361 | 723 | 723 | 722 | 722 | 722 | 306 | 309 | 311 | 314 | 317 | 23. 20 | 50 |
| 18 | 36. 40 | 7.80 319 | 558 | 598 | 637 | 677 | 9.62 361 | 357 | 353 | 350 | 346 | 9.29 722 | 722 | 721 | 721 | 721 | 9.76 317 | 320 | 322 | 325 | 328 | 16 | 49 |
| 11 | 44 | 677 | 716 | 755 | 794 | 834 | 346 | 342 | 338 | 335 | 331 | 721 | 721 | 720 | 720 | 720 | 328 | 330 | 333 | 336 | 338 | 12 | 48 |
| 12 | 48 | 834 | 873 | 912 | 951 | 991 | 331 | 327 | 324 | 320 | 316 | 720 | 720 | 719 | 719 | 719 | 338 | 341 | 344 | 346 | 349 | 8 | 47 |
| 13 | 52 | * 991 | 030 | 069 | 108 | 147 | 316 | 313 | 389 | 305 | 381 | 719 | 718 | 718 | 718 | 718 | 319 | 352 | 354 | 357 | 360 | 4 | 46 |
| 14 | 56 | 7.81 147 | 186 | 225 | 264 | 303 | 301 | 298 | 294 | 290 | 287 | 718 | 717 | 717 | 717 | 717 | 360 | 363 | 365 | 368 | 371 | 23. 0 | 45 |
| 15 | 37. 0 | 7.81 303 | 342 | 382 | 421 | 459 | 2.62 287 | 283 | 279 | 275 | 272 | 9.99 717 | 716 | 716 | 716 | 716 | 9.70 371 | 373 | 376 | 379 | 381 | 56 | 44 |
| 16 | 4 | 459 | 498 | 537 | 576 | 615 | 272 | 268 | 254 | 261 | 257 | 716 | 715 | 715 | 715 | 715 | 381 | 384 | 387 | 389 | 392 | 62 | 43 |
| 17 | 8 | 615 | 654 | 693 | 732 | 771 | 257 | 253 | 249 | 246 | 242 | 715 | 714 | 714 | 714 | 714 | 392 | 395 | 397 | 400 | 103 | 48 | 42 |
| 16 | 12 | 771 | 809 | 848 | 887 | 926 | 242 | 238 | 234 | 231 | 227 | 714 | 713 | 713 | 713 | 713 | 403 | 405 | 408 | 411 | 114 | 44 | 41 |
| 19 | 16 | * 926 | 963 | 003 | 042 | 081 | 227 | 223 | 219 | 216 | 212 | 713 | 712 | 712 | 712 | 712 | 414 | 416 | 419 | 422 | 424 | 22. 40 | 40 |
| 28 | 37. 20 | 7.82 081 | 119 | 158 | 197 | 235 | 9.62 212 | 208 | 205 | 201 | 107 | 9.99 712 | 711 | 711 | 711 | 711 | 2.76 421 | 427 | 430 | 432 | 435 | 36 | 39 |
| 21 | 24 | 235 | 274 | 313 | 351 | 390 | 197 | 194 | 190 | 186 | 182 | 711 | 710 | 710 | 710 | 709 | 435 | 438 | 440 | 443 | 446 | 32 | 38 |
| 22 | 28 | 390 | 428 | 467 | 505 | 544 | 182 | 179 | 175 | 171 | 168 | 709 | 709 | 709 | 709 | 708 | 446 | 448 | 451 | 454 | 456 | 28 | 37 |
| 23 | 32 | 644 | 582 | 621 | 659 | 698 | 168 | 164 | 160 | 156 | 153 | 708 | 708 | 708 | 708 | 707 | 436 | 459 | 462 | 464 | 467 | 24 | 36 |
| 24 | 36 | 698 | 736 | 774 | 813 | 851 | 153 | 149 | 145 | 141 | 138 | 707 | 707 | 707 | 707 | 706 | 467 | 470 | 472 | 475 | 478 | 22. 20 | 35 |
| 25 | 37. 40 | * 851 | 889 | 928 | 966 | 004 | 9.62 138 | 134 | 130 | 127 | 123 | 9.99 786 | 706 | 706 | 706 | 705 | 9.76 478 | 481 | 483 | 486 | 189 | 16 | 34 |
| 26 | 41 | 7.83 004 | 843 | 084 | 119 | 157 | 123 | 119 | 115 | 112 | 108 | 705 | 705 | 705 | 705 | 704 | 489 | 191 | 494 | 497 | 499 | 12 | 33 |
| 27 | 48 | 157 | 196 | 234 | 272 | 310 | 108 | 104 | 180 | 097 | 093 | 704 | 704 | 704 | 704 | 703 | 499 | 502 | 505 | 507 | 510 | 8 | 32 |
| 28 | 52 | 318 | 348 | 386 | 424 | 462 | 093 | 089 | 086 | 082 | 078 | 703 | 703 | 703 | 703 | 702 | 510 | 513 | 515 | 518 | 521 | 4 | 31 |
| 29 | 56 | 462 | 501 | 539 | 577 | 615 | 078 | 074 | 871 | 067 | 063 | 702 | 702 | 702 | 701 | 701 | 621 | 523 | 526 | 529 | 531 | 22. 0 | 30 |
| 60 | 38. 0 | 7.83 545 | 633 | 691 | 729 | 767 | 9.62 063 | 059 | 056 | 052 | 048 | 9.99 701 | 701 | 701 | 700 | 700 | 9.76 531 | 534 | 537 | 539 | 542 | 56 | 29 |
| 31 | 4 | 767 | 804 | 842 | 880 | 918 | 018 | 045 | 041 | 037 | 833 | 700 | 700 | 700 | 699 | 699 | 542 | 545 | 547 | 550 | 553 | 52 | 28 |
| 32 | 8 | * 918 | 956 | 994 | 032 | 070 | 033 | 830 | 026 | 022 | 818 | 699 | 699 | 699 | 698 | 698 | 553 | 555 | 558 | 561 | 563 | 48 | 27 |
| 33 | 12 | 7.84 078 | 107 | 145 | 183 | 221 | 018 | 015 | 011 | 007 | 803 | 698 | 698 | 697 | 697 | 697 | 563 | 566 | 669 | 571 | 574 | 44 | 25 |
| 34 | 16 | 221 | 258 | 296 | 334 | 372 | * 083 | 000 | 996 | 992 | 988 | 697 | 697 | 696 | 696 | 696 | 674 | 577 | 579 | 582 | 585 | 21. 40 | 25 |
| 35 | 38. 20 | 7.84 372 | 409 | 447 | 484 | 522 | 9.61 988 | 985 | 981 | 977 | 974 | 9.99 696 | 696 | 695 | 695 | 695 | 9.75 585 | 587 | 590 | 593 | 595 | 36 | 24 |
| 36 | 24 | 622 | 580 | 597 | 635 | 672 | 974 | 970 | 966 | 962 | 959 | 693 | 695 | 694 | 694 | 594 | 595 | 598 | 601 | 603 | 606 | 32 | 23 |
| 37 | 28 | 672 | 710 | 747 | 785 | 822 | 959 | 955 | 951 | 947 | 944 | 694 | 691 | 693 | 693 | 693 | 686 | 609 | 611 | 614 | 617 | 28 | 22 |
| 38 | 32 | 822 | 860 | 897 | 935 | 972 | 944 | 940 | 936 | 932 | 929 | 693 | 692 | 692 | 692 | 692 | 617 | 612 | 622 | 625 | 627 | 24 | 21 |
| 32 | 36 | * 972 | 010 | 047 | 084 | 122 | 929 | 925 | 921 | 917 | 914 | 692 | 691 | 691 | 691 | 691 | 627 | 630 | 533 | 635 | 638 | 21. 20 | 20 |
| 40 | 38. 40 | 7.85 122 | 159 | 196 | 234 | 271 | 9.61 914 | 910 | 906 | 902 | 899 | 9.99 691 | 690 | 690 | 690 | 690 | 9.76 638 | 641 | 643 | 645 | 649 | 16 | 19 |
| 41 | 44 | 271 | 308 | 346 | 383 | 420 | 899 | 895 | 891 | 888 | 884 | 690 | 689 | 689 | 689 | 688 | 649 | 651 | 654 | 657 | 659 | 12 | 18 |
| 42 | 48 | 420 | 437 | 494 | 632 | 569 | 884 | 880 | 875 | 873 | 869 | 688 | 688 | 688 | 688 | 687 | 659 | 662 | 663 | 667 | 670 | 8 | 17 |
| 43 | 52 | 569 | 606 | 643 | 680 | 717 | 869 | 865 | 861 | 858 | 854 | 687 | 687 | 687 | 687 | 686 | 670 | 673 | 675 | 678 | 681 | 4 | 16 |
| 44 | 56 | 717 | 754 | 791 | 829 | 866 | 854 | 850 | 846 | 843 | 839 | 686 | 686 | 686 | 685 | 685 | 681 | 683 | 686 | 689 | 691 | 21. 0 | 15 |
| 45 | 39. 0 | * 866 | 903 | 940 | 977 | 014 | 9.61 839 | 835 | 831 | 828 | 824 | 9.99 685 | 685 | 685 | 684 | 684 | 9.76 691 | 694 | 697 | 699 | 702 | 56 | 14 |
| 46 | 4 | 7.66 014 | 050 | 087 | 124 | 161 | 824 | 820 | 816 | 813 | 809 | 684 | 684 | 684 | 683 | 683 | 702 | 705 | 707 | 710 | 713 | 52 | 13 |
| 47 | 6 | 161 | 198 | 235 | 272 | 309 | 809 | 805 | 801 | 798 | 794 | 683 | 683 | 683 | 682 | 582 | 713 | 715 | 718 | 721 | 723 | 48 | 12 |
| 48 | 12 | 309 | 346 | 382 | 419 | 456 | 794 | 790 | 786 | 783 | 779 | 662 | 682 | 661 | 681 | 681 | 723 | 726 | 729 | 731 | 734 | 44 | 11 |
| 42 | 16 | 456 | 493 | 530 | 566 | 603 | 779 | 775 | 771 | 768 | 764 | 681 | 681 | 580 | 680 | 680 | 734 | 737 | 739 | 742 | 745 | 20. 40 | 10 |
| 50 | 39. 20 | 7.86 603 | 640 | 676 | 713 | 750 | 9.61 764 | 760 | 756 | 752 | 749 | 2.99 680 | 680 | 679 | 679 | 579 | 9.76 745 | 747 | 750 | 753 | 755 | 36 | 2 |
| 51 | 24 | 750 | 786 | 823 | 860 | 896 | 749 | 745 | 741 | 738 | 734 | 679 | 678 | 678 | 678 | 678 | 735 | 758 | 761 | 763 | 766 | 32 | 8 |
| 52 | 28 | * 896 | 933 | 969 | 006 | 042 | 734 | 730 | 726 | 723 | 719 | 678 | 677 | 577 | 677 | 577 | 766 | 769 | 771 | 774 | 777 | 28 | 7 |
| 53 | 32 | 7.87 042 | 079 | 115 | 152 | 188 | 719 | 716 | 711 | 708 | 704 | 677 | 676 | 676 | 676 | 675 | 777 | 779 | 782 | 784 | 787 | 24 | 6 |
| 54 | 36 | 188 | 225 | 261 | 298 | 334 | 704 | 700 | 696 | 692 | 689 | 675 | 675 | 676 | 676 | 674 | 787 | 790 | 792 | 795 | 798 | 20. 20 | 5 |
| 55 | 39. 40 | 7.87 334 | 371 | 407 | 443 | 480 | 9.61 689 | 685 | 681 | 677 | 674 | 2.99 674 | 674 | 674 | 574 | 573 | 9.76 798 | 800 | 803 | 806 | 808 | 16 | 4 |
| 55 | 44 | 480 | 516 | 552 | 589 | 625 | 674 | 670 | 666 | 662 | 639 | 673 | 673 | 673 | 572 | 572 | 808 | 811 | 814 | 816 | 819 | 12 | 3 |
| 57 | 48 | 625 | 661 | 697 | 734 | 770 | 659 | 655 | 651 | 647 | 644 | 572 | 572 | 672 | 571 | 671 | 819 | 822 | 824 | 827 | 830 | 8 | 2 |
| 58 | 52 | 770 | 806 | 842 | 878 | 915 | 644 | 640 | 636 | 632 | 629 | 671 | 671 | 578 | 570 | 570 | 830 | 832 | 835 | 838 | 840 | 4 | 1 |
| 59 | 56 | 915 | 951 | 987 | 023 | 059 | 629 | 625 | 621 | 617 | 613 | 570 | 670 | 669 | 569 | 569 | 840 | 843 | 845 | 848 | 851 | 20. 0 | 0 |
| | | 4° 50″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 50″ | 3° 45″ | 2° 60″ | 1° 15″ | 0° 0″ | 4° 68″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 11h / 5h | 170° / 80° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 10° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 8″ 9° | 15″ 1° | 20″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 40″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 46. 0 | 9. 23*967 | 985 | 003 | 021 | 639 | 9. 99 335 | 335 | 334 | 333 | 333 | 6. 68 665 | 685 | 606 | 667 | 667 | 0. 76*033 | 016 | 997 | 979 | 961 | 66 | 59 |
| 1 | 4 | 9. 24 039 | 050 | 074 | 092 | 110 | 333 | 332 | 332 | 331 | 331 | 667 | 660 | 668 | 669 | 669 | 3. 75 961 | 944 | 926 | 908 | 890 | 62 | 08 |
| 2 | 9 | 110 | 128 | 146 | 164 | 181 | 331 | 330 | 330 | 329 | 328 | 669 | 670 | 670 | 671 | 672 | 890 | 872 | 854 | 036 | 819 | 48 | 67 |
| 3 | 19 | 181 | 169 | 217 | 235 | 953 | 328 | 328 | 327 | 327 | 326 | 672 | 672 | 673 | 673 | 674 | 619 | 801 | 783 | 765 | 747 | 44 | 66 |
| 4 | 16 | 253 | 270 | 298 | 306 | 324 | 326 | 326 | 325 | 320 | 324 | 674 | 674 | 670 | 670 | 676 | 747 | 730 | 712 | 694 | 676 | 19. 40 | 66 |
| 5 | 40. 20 | 9. 24 324 | 341 | 352 | 377 | 395 | 2. 99 324 | 323 | 323 | 322 | 322 | 0. 80 676 | 677 | 077 | 678 | 678 | 0. 70 676 | 659 | 641 | 623 | 605 | 36 | 04 |
| 6 | 24 | 395 | 412 | 430 | 448 | 466 | 322 | 321 | 321 | 320 | 319 | 678 | 679 | 679 | 680 | 681 | 805 | 500 | 570 | 552 | 534 | 32 | 63 |
| 7 | 28 | 466 | 483 | 501 | 519 | 036 | 319 | 319 | 310 | 318 | 317 | 681 | 681 | 632 | 682 | 683 | 534 | 517 | 499 | 401 | 464 | 28 | 62 |
| 8 | 32 | 536 | 554 | 572 | 589 | 607 | 317 | 317 | 316 | 316 | 315 | 683 | 683 | 634 | 684 | 685 | 464 | 446 | 420 | 411 | 393 | 24 | 61 |
| 9 | 36 | 607 | 625 | 042 | 660 | 677 | 310 | 314 | 314 | 313 | 313 | 685 | 686 | 686 | 687 | 087 | 393 | 375 | 358 | 346 | 323 | 19. 20 | 56 |
| 18 | 40. 40 | 9. 24 577 | 695 | 713 | 730 | 748 | 9. 99 313 | 312 | 312 | 311 | 310 | 8. 30 687 | 688 | 688 | 089 | 690 | 8. 75 323 | 385 | 287 | 270 | 252 | 16 | 49 |
| 11 | 44 | 749 | 765 | 783 | 801 | 818 | 310 | 310 | 309 | 309 | 308 | 690 | 890 | 691 | 691 | 692 | 252 | 235 | 217 | 199 | 182 | 12 | 49 |
| 12 | 46 | 318 | 838 | 853 | 071 | 888 | 308 | 308 | 307 | 308 | 306 | 692 | 692 | 693 | 694 | 694 | 182 | 164 | 147 | 129 | 112 | 8 | 47 |
| 13 | 52 | 889 | 906 | 923 | 941 | 950 | 366 | 305 | 306 | 304 | 304 | 694 | 895 | 695 | 696 | 690 | 112 | 094 | 077 | 859 | 042 | 4 | 46 |
| 14 | 56 | * 958 | 976 | 993 | 611 | 828 | 304 | 303 | 302 | 362 | 301 | 626 | 027 | 628 | 593 | 699 | * 342 | 024 | 087 | 989 | 972 | 19. 0 | 45 |
| 15 | 41. 0 | 9. 25 828 | 046 | 063 | 081 | 023 | 9. 99 301 | 301 | 300 | 300 | 299 | 9. 69 699 | 899 | 700 | 708 | 731 | 0. 74 972 | 954 | 937 | 919 | 902 | 56 | 44 |
| 16 | 4 | 398 | 115 | 133 | 150 | 168 | 299 | 223 | 298 | 297 | 267 | 701 | 702 | 702 | 703 | 703 | 902 | 885 | 867 | 850 | 832 | 62 | 43 |
| 17 | 9 | 168 | 185 | 203 | 220 | 237 | 297 | 296 | 296 | 295 | 294 | 703 | 704 | 704 | 700 | 736 | 832 | 815 | 797 | 788 | 763 | 48 | 42 |
| 18 | 12 | 237 | 255 | 272 | 289 | 307 | 294 | 294 | 223 | 293 | 292 | 706 | 708 | 707 | 737 | 708 | 783 | 745 | 723 | 711 | 693 | 44 | 41 |
| 19 | 16 | 307 | 324 | 341 | 359 | 370 | 292 | 292 | 291 | 293 | 290 | 708 | 708 | 709 | 718 | 710 | 593 | 676 | 659 | 641 | 624 | 18. 40 | 40 |
| 20 | 41. 20 | 9. 25 376 | 393 | 411 | 428 | 445 | 9. 99 296 | 209 | 289 | 288 | 288 | 9. 09 710 | 711 | 711 | 712 | 712 | 3. 74 524 | 507 | 589 | 572 | 555 | 36 | 39 |
| 21 | 24 | 445 | 463 | 480 | 467 | 514 | 288 | 287 | 286 | 266 | 295 | 712 | 713 | 714 | 714 | 715 | 555 | 537 | 520 | 503 | 496 | 32 | 38 |
| 22 | 28 | 514 | 532 | 549 | 566 | 583 | 285 | 285 | 284 | 283 | 283 | 715 | 716 | 716 | 717 | 717 | 486 | 468 | 451 | 434 | 417 | 23 | 37 |
| 23 | 32 | 603 | 601 | 618 | 635 | 652 | 283 | 282 | 262 | 231 | 281 | 717 | 718 | 716 | 719 | 719 | 417 | 399 | 382 | 365 | 348 | 24 | 36 |
| 24 | 36 | 859 | 676 | 687 | 764 | 721 | 281 | 280 | 279 | 279 | 278 | 719 | 720 | 721 | 721 | 722 | 348 | 338 | 313 | 268 | 279 | 18. 20 | 35 |
| 25 | 41. 40 | 9. 25 721 | 738 | 755 | 773 | 790 | 9. 99 270 | 270 | 277 | 277 | 276 | 0. 30 722 | 722 | 723 | 723 | 724 | 9. 74 279 | 282 | 245 | 227 | 210 | 16 | 34 |
| 26 | 44 | 790 | 807 | 024 | 841 | 058 | 276 | 275 | 275 | 274 | 274 | 724 | 725 | 725 | 726 | 726 | 218 | 193 | 176 | 159 | 142 | 12 | 33 |
| 27 | 48 | 858 | 875 | 393 | 918 | 927 | 274 | 273 | 272 | 272 | 271 | 726 | 727 | 728 | 720 | 729 | 142 | 125 | 107 | 090 | 073 | 9 | 32 |
| 28 | 62 | 927 | 944 | 961 | 973 | 995 | 271 | 271 | 270 | 278 | 269 | 729 | 729 | 730 | 730 | 731 | 073 | 058 | 039 | 022 | 005 | 4 | 31 |
| 29 | 56 | * 995 | 012 | 829 | 046 | 063 | 269 | 968 | 208 | 267 | 267 | 731 | 732 | 732 | 733 | 733 | * 805 | 988 | 971 | 954 | 237 | 18. 6 | 38 |
| 30 | 42. 0 | 9. 26 063 | 080 | 097 | 114 | 131 | 9. 99 267 | 266 | 265 | 265 | 264 | 8. 08 733 | 734 | 735 | 735 | 736 | 8. 75 937 | 920 | 903 | 888 | 882 | 56 | 29 |
| 31 | 4 | 131 | 148 | 165 | 192 | 192 | 264 | 264 | 263 | 263 | 262 | 736 | 736 | 737 | 737 | 738 | 869 | 852 | 835 | 818 | 881 | 52 | 23 |
| 32 | 9 | 199 | 216 | 233 | 250 | 267 | 262 | 261 | 261 | 280 | 260 | 738 | 739 | 739 | 740 | 740 | 801 | 784 | 787 | 760 | 733 | 43 | 27 |
| 33 | 12 | 267 | 984 | 301 | 318 | 335 | 268 | 259 | 258 | 258 | 257 | 740 | 741 | 742 | 742 | 743 | 733 | 716 | 899 | 682 | 665 | 44 | 26 |
| 34 | 16 | 335 | 352 | 369 | 386 | 403 | 257 | 257 | 256 | 255 | 255 | 743 | 743 | 744 | 745 | 745 | 665 | 646 | 631 | 614 | 597 | 17. 46 | 25 |
| 35 | 42. 20 | 9. 26 403 | 420 | 437 | 453 | 470 | 9. 99 255 | 254 | 254 | 253 | 253 | 3. 88 745 | 746 | 746 | 747 | 747 | 3. 75 567 | 580 | 083 | 047 | 530 | 36 | 24 |
| 36 | 24 | 470 | 487 | 504 | 521 | 538 | 253 | 252 | 251 | 251 | 250 | 747 | 748 | 749 | 749 | 750 | 530 | 513 | 496 | 479 | 462 | 32 | 23 |
| 37 | 23 | 538 | 555 | 371 | 588 | 805 | 250 | 250 | 249 | 248 | 248 | 750 | 750 | 751 | 752 | 752 | 462 | 445 | 429 | 412 | 395 | 28 | 22 |
| 38 | 32 | 505 | 622 | 639 | 656 | 672 | 248 | 247 | 247 | 248 | 245 | 759 | 753 | 753 | 754 | 755 | 395 | 370 | 381 | 344 | 328 | 24 | 21 |
| 39 | 36 | 672 | 689 | 706 | 723 | 739 | 245 | 245 | 244 | 244 | 943 | 755 | 755 | 756 | 758 | 757 | 328 | 311 | 294 | 277 | 261 | 17. 20 | 29 |
| 40 | 42. 46 | 9. 26 739 | 758 | 773 | 798 | 806 | 9. 99 243 | 242 | 242 | 241 | 241 | 0. 80 757 | 758 | 758 | 759 | 759 | 9. 73 261 | 944 | 227 | 210 | 194 | 16 | 19 |
| 41 | 44 | 806 | 823 | 840 | 857 | 873 | 241 | 240 | 239 | 239 | 238 | 759 | 760 | 761 | 761 | 782 | 194 | 177 | 160 | 143 | 127 | 19 | 19 |
| 42 | 48 | 873 | 890 | 907 | 924 | 940 | 238 | 238 | 237 | 238 | 936 | 762 | 762 | 763 | 764 | 784 | 127 | 116 | 093 | 876 | 860 | 8 | 17 |
| 43 | 52 | * 910 | 957 | 974 | 990 | 007 | 236 | 235 | 235 | 234 | 233 | 764 | 765 | 765 | 766 | 787 | * 860 | 843 | 026 | 310 | 993 | 4 | 16 |
| 44 | 66 | 9. 27 987 | 024 | 040 | 057 | 073 | 233 | 233 | 232 | 232 | 231 | 767 | 767 | 768 | 768 | 769 | 8. 72 993 | 976 | 968 | 943 | 927 | 17. 9 | 15 |
| 45 | 43. 3 | 9. 27 873 | 090 | 107 | 123 | 140 | 9. 99 231 | 230 | 230 | 229 | 229 | 8. 86 769 | 770 | 770 | 771 | 771 | 8. 72 997 | 910 | 893 | 877 | 863 | 50 | 14 |
| 46 | 4 | 140 | 157 | 173 | 190 | 206 | 229 | 228 | 227 | 227 | 226 | 771 | 772 | 773 | 773 | 774 | 860 | 043 | 827 | 916 | 724 | 52 | 13 |
| 47 | 8 | 206 | 223 | 948 | 256 | 273 | 296 | 226 | 995 | 224 | 224 | 774 | 774 | 775 | 770 | 776 | 794 | 777 | 760 | 744 | 727 | 48 | 12 |
| 48 | 12 | 273 | 289 | 306 | 322 | 339 | 224 | 223 | 223 | 222 | 221 | 776 | 777 | 777 | 778 | 779 | 727 | 711 | 694 | 678 | 661 | 44 | 11 |
| 42 | 16 | 339 | 355 | 372 | 388 | 435 | 221 | 221 | 226 | 220 | 219 | 779 | 779 | 780 | 790 | 781 | 661 | 645 | 828 | 812 | 595 | 16. 40 | 16 |
| 56 | 43. 20 | 9. 27 405 | 421 | 438 | 454 | 471 | 9. 99 219 | 218 | 216 | 217 | 217 | 6. 86 781 | 732 | 782 | 783 | 783 | 0. 72 595 | 579 | 562 | 548 | 529 | 36 | 9 |
| 61 | 24 | 471 | 497 | 504 | 520 | 537 | 217 | 216 | 215 | 215 | 214 | 783 | 784 | 785 | 785 | 786 | 529 | 513 | 496 | 480 | 463 | 32 | 8 |
| 62 | 28 | 537 | 553 | 578 | 586 | 602 | 214 | 214 | 213 | 212 | 212 | 786 | 786 | 797 | 738 | 788 | 483 | 447 | 430 | 414 | 398 | 28 | 7 |
| 63 | 32 | 602 | 619 | 635 | 652 | 668 | 212 | 211 | 211 | 210 | 289 | 788 | 789 | 789 | 766 | 761 | 398 | 381 | 365 | 348 | 332 | 24 | 6 |
| 64 | 36 | 668 | 885 | 781 | 717 | 734 | 209 | 209 | 208 | 208 | 987 | 791 | 791 | 792 | 792 | 793 | 339 | 316 | 299 | 283 | 266 | 16. 20 | 5 |
| 55 | 43. 48 | 9. 27 734 | 750 | 766 | 783 | 799 | 9. 99 287 | 200 | 208 | 208 | 204 | 3. 60 793 | 794 | 794 | 795 | 798 | 3. 72 266 | 950 | 234 | 217 | 201 | 16 | 4 |
| 56 | 44 | 796 | 816 | 832 | 848 | 864 | 204 | 284 | 203 | 203 | 202 | 796 | 796 | 727 | 797 | 798 | 281 | 185 | 168 | 152 | 136 | 12 | 3 |
| 67 | 48 | 964 | 981 | 897 | 913 | 930 | 202 | 201 | 201 | 200 | 200 | 798 | 799 | 799 | 808 | 880 | 136 | 119 | 183 | 887 | 070 | 8 | 2 |
| 09 | 62 | 983 | 946 | 662 | 979 | 996 | 208 | 199 | 198 | 198 | 197 | 800 | 801 | 802 | 882 | 883 | 876 | 054 | 038 | 021 | 005 | 4 | 1 |
| 69 | 68 | *(9. 28)995 | 011 | 027 | 044 | 068 | 197 | 197 | 196 | 195 | 195 | 803 | 803 | 804 | 805 | 385 | *(3. 71)085 | 989 | 973 | 956 | 940 | 16. 8 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 33″ | 1° 16″ | 6° 9″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 3″ | 4° 60″ | 3° 45″ | 2° 33″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 3° 6″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 169° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 6h | 79° |

**TABLA XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 10° | 0h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 40. 0 | 7.88 052 | 085 | 131 | 187 | 203 | 9.81 613 | 610 | 668 | 602 | 598 | 9 99 609 | 852 | 668 | 858 | 668 | 9.75 851 | 883 | 856 | 858 | 861 | 88 | 89 |
| 1 | 4 | 203 | 240 | 276 | 312 | 348 | 098 | 595 | 591 | 587 | 583 | 860 | 867 | 667 | 067 | 667 | 861 | 664 | 867 | 868 | 872 | 02 | 88 |
| 2 | 8 | 346 | 363 | 412 | 455 | 421 | 583 | 580 | 576 | 572 | 568 | 667 | 666 | 066 | 866 | 866 | 872 | 675 | 677 | 888 | 683 | 46 | 07 |
| 3 | 12 | 481 | 027 | 503 | 589 | 035 | 508 | 565 | 561 | 557 | 553 | 866 | 680 | 665 | 065 | 684 | 883 | 885 | 686 | 891 | 893 | 44 | 86 |
| 4 | 16 | 835 | 671 | 707 | 742 | 778 | 553 | 549 | 540 | 542 | 538 | 664 | 684 | 684 | 864 | 683 | 823 | 886 | 898 | 861 | 904 | 18. 48 | 55 |
| 5 | 40. 20 | 7.88 779 | 014 | 850 | 868 | 221 | 9.61 538 | 534 | 531 | 527 | 523 | 9.99 583 | 683 | 663 | 602 | 662 | 2.78 904 | 906 | 909 | 912 | 914 | 30 | 64 |
| 6 | 24 | * 221 | 957 | 893 | 028 | 064 | 923 | 519 | 510 | 812 | 508 | 802 | 602 | 662 | 681 | 661 | 214 | 217 | 926 | 922 | 925 | 82 | 83 |
| 7 | 28 | 7.89 984 | 100 | 135 | 171 | 207 | 808 | 504 | 500 | 487 | 483 | 881 | 681 | 666 | 660 | 666 | 925 | 928 | 930 | 933 | 935 | 26 | 02 |
| 8 | 32 | 267 | 242 | 278 | 314 | 349 | 493 | 488 | 485 | 482 | 478 | 688 | 680 | 659 | 659 | 659 | 935 | 936 | 941 | 943 | 940 | 24 | 51 |
| 9 | 88 | 340 | 365 | 426 | 456 | 401 | 478 | 474 | 470 | 466 | 483 | 659 | 559 | 656 | 658 | 656 | 946 | 849 | 951 | 954 | 957 | 19. 20 | 50 |
| 10 | 40. 46 | 7.89 491 | 027 | 562 | 528 | 633 | 8.81 463 | 459 | 455 | 451 | 448 | 9.99 658 | 687 | 657 | 657 | 657 | 8.76 957 | 952 | 902 | 865 | 987 | 16 | 49 |
| 11 | 44 | 833 | 580 | 704 | 740 | 779 | 446 | 444 | 440 | 436 | 433 | 057 | 658 | 556 | 656 | 655 | 987 | 870 | 872 | 975 | 878 | 12 | 46 |
| 12 | 46 | 775 | 610 | 846 | 661 | 918 | 433 | 429 | 425 | 421 | 417 | 855 | 655 | 655 | 655 | 654 | 278 | 890 | 983 | 986 | 966 | 8 | 47 |
| 13 | 52 | * 910 | 952 | 987 | 022 | 057 | 417 | 414 | 418 | 400 | 402 | 854 | 654 | 854 | 653 | 853 | 888 | 991 | 984 | 996 | 999 | 4 | 48 |
| 14 | 08 | 7.90 057 | 093 | 128 | 183 | 120 | 462 | 398 | 395 | 381 | 367 | 853 | 653 | 653 | 652 | 652 | * 999 | 092 | 004 | 907 | 969 | 19. 0 | 48 |
| 15 | 41. 6 | 7.80 196 | 934 | 209 | 304 | 339 | 9.81 387 | 383 | 380 | 376 | 372 | 9.99 052 | 652 | 851 | 651 | 051 | 2.77 009 | 612 | 015 | 017 | 020 | 66 | 44 |
| 16 | 4 | 339 | 374 | 409 | 444 | 460 | 372 | 386 | 364 | 361 | 357 | 851 | 601 | 656 | 650 | 650 | 829 | 928 | 025 | 096 | 031 | 82 | 43 |
| 17 | 6 | 480 | 515 | 550 | 585 | 620 | 857 | 353 | 349 | 348 | 342 | 650 | 649 | 649 | 649 | 649 | 831 | 033 | 036 | 038 | 841 | 46 | 42 |
| 18 | 12 | 820 | 005 | 696 | 725 | 760 | 342 | 336 | 334 | 330 | 327 | 649 | 646 | 648 | 646 | 640 | 041 | 644 | 946 | 948 | 952 | 44 | 41 |
| 19 | 16 | 760 | 725 | 836 | 865 | 900 | 327 | 323 | 319 | 315 | 311 | 646 | 647 | 647 | 647 | 646 | 952 | 954 | 057 | 069 | 062 | 18. 40 | 49 |
| 20 | 41. 20 | * 900 | 935 | 970 | 004 | 039 | 9.81 311 | 308 | 304 | 300 | 296 | 2.99 646 | 646 | 646 | 645 | 645 | 9.77 062 | 065 | 067 | 070 | 073 | 36 | 39 |
| 21 | 24 | 7 91 039 | 074 | 109 | 144 | 179 | 296 | 293 | 260 | 265 | 281 | 645 | 645 | 644 | 644 | 644 | 073 | 075 | 078 | 081 | 083 | 32 | 38 |
| 22 | 28 | 179 | 214 | 249 | 283 | 318 | 281 | 277 | 274 | 270 | 266 | 844 | 644 | 643 | 843 | 643 | 083 | 066 | 989 | 091 | 094 | 26 | 37 |
| 23 | 82 | 316 | 353 | 387 | 422 | 457 | 266 | 282 | 258 | 255 | 251 | 043 | 643 | 042 | 642 | 642 | 094 | 928 | 098 | 192 | 194 | 24 | 36 |
| 24 | 36 | 457 | 422 | 526 | 561 | 596 | 251 | 247 | 243 | 240 | 236 | 842 | 641 | 641 | 841 | 641 | 104 | 167 | 110 | 112 | 115 | 18. 20 | 35 |
| 25 | 41. 40 | 7.81 596 | 630 | 665 | 699 | 734 | 9.61 236 | 232 | 228 | 224 | 221 | 9.99 641 | 640 | 640 | 640 | 639 | 2.77 115 | 117 | 120 | 123 | 125 | 16 | 34 |
| 26 | 44 | 734 | 769 | 603 | 836 | 672 | 221 | 217 | 213 | 209 | 205 | 632 | 632 | 639 | 839 | 638 | 125 | 196 | 131 | 133 | 136 | 12 | 33 |
| 27 | 46 | * 872 | 907 | 941 | 976 | 010 | 205 | 202 | 198 | 194 | 190 | 636 | 638 | 630 | 837 | 037 | 136 | 126 | 141 | 144 | 146 | 8 | 32 |
| 28 | 82 | 7.82 018 | 045 | 079 | 114 | 146 | 180 | 186 | 183 | 179 | 175 | 637 | 037 | 637 | 636 | 636 | 148 | 149 | 162 | 154 | 157 | 4 | 31 |
| 29 | 86 | 148 | 183 | 217 | 251 | 286 | 175 | 171 | 167 | 164 | 100 | 636 | 636 | 635 | 635 | 035 | 157 | 169 | 162 | 160 | 167 | 18. 0 | 30 |
| 30 | 42. 0 | 7.92 286 | 320 | 354 | 382 | 423 | 9.61 169 | 156 | 152 | 148 | 145 | 9.99 635 | 635 | 634 | 034 | 634 | 9.77 167 | 170 | 173 | 175 | 176 | 56 | 29 |
| 31 | 4 | 423 | 457 | 492 | 520 | 560 | 145 | 141 | 137 | 133 | 129 | 634 | 633 | 633 | 033 | 033 | 170 | 181 | 183 | 166 | 166 | 52 | 26 |
| 32 | 8 | 868 | 595 | 628 | 863 | 897 | 129 | 126 | 122 | 116 | 114 | 633 | 632 | 832 | 032 | 631 | 186 | 191 | 194 | 196 | 199 | 40 | 27 |
| 33 | 12 | 097 | 781 | 766 | 800 | 834 | 114 | 110 | 107 | 103 | 029 | 631 | 631 | 031 | 830 | 630 | 199 | 202 | 204 | 297 | 209 | 44 | 26 |
| 34 | 16 | 634 | 868 | 902 | 236 | 970 | 099 | 095 | 091 | 088 | 064 | 639 | 630 | 636 | 829 | 629 | 269 | 212 | 218 | 217 | 226 | 17. 40 | 25 |
| 35 | 42. 20 | * 979 | 605 | 039 | 073 | 107 | 9.61 681 | 080 | 076 | 072 | 069 | 2.98 629 | 629 | 626 | 626 | 628 | 8.77 220 | 223 | 225 | 226 | 230 | 36 | 24 |
| 36 | 24 | 7.93 187 | 141 | 175 | 299 | 243 | 069 | 065 | 061 | 057 | 053 | 626 | 628 | 827 | 827 | 627 | 230 | 233 | 236 | 238 | 241 | 32 | 23 |
| 37 | 28 | 243 | 277 | 311 | 345 | 379 | 053 | 050 | 046 | 042 | 038 | 627 | 626 | 626 | 826 | 626 | 241 | 243 | 246 | 249 | 251 | 28 | 22 |
| 38 | 32 | 379 | 413 | 447 | 480 | 514 | 030 | 034 | 031 | 027 | 023 | 626 | 625 | 025 | 825 | 624 | 251 | 254 | 257 | 259 | 262 | 24 | 21 |
| 39 | 86 | 514 | 548 | 582 | 616 | 650 | 023 | 019 | 015 | 012 | 008 | 624 | 624 | 824 | 623 | 623 | 262 | 204 | 267 | 276 | 272 | 17. 20 | 20 |
| 40 | 42. 40 | 7.83 659 | 684 | 717 | 751 | 765 | * 006 | 604 | 000 | 996 | 992 | 8.99 623 | 023 | 623 | 622 | 622 | 9.77 272 | 275 | 278 | 266 | 263 | 16 | 19 |
| 41 | 44 | 785 | 819 | 652 | 686 | 920 | 9.69 992 | 980 | 265 | 981 | 977 | 622 | 622 | 621 | 621 | 621 | 263 | 980 | 268 | 291 | 293 | 12 | 16 |
| 42 | 46 | * 928 | 954 | 987 | 021 | 055 | 977 | 873 | 979 | 266 | 962 | 621 | 620 | 620 | 620 | 620 | 293 | 296 | 288 | 301 | 364 | 8 | 17 |
| 43 | 52 | 7.94 055 | 068 | 129 | 156 | 189 | 962 | 956 | 954 | 851 | 947 | 620 | 619 | 619 | 619 | 618 | 304 | 306 | 309 | 312 | 314 | 4 | 16 |
| 44 | 86 | 169 | 223 | 257 | 290 | 324 | 947 | 243 | 239 | 935 | 931 | 618 | 618 | 618 | 618 | 617 | 314 | 317 | 319 | 322 | 325 | 17. 0 | 15 |
| 45 | 43. 0 | 7.94 324 | 357 | 391 | 424 | 458 | 9.60 831 | 928 | 924 | 920 | 916 | 9.99 617 | 617 | 817 | 618 | 616 | 9.77 825 | 327 | 339 | 332 | 335 | 60 | 14 |
| 46 | 4 | 458 | 491 | 525 | 558 | 592 | 916 | 912 | 909 | 905 | 901 | 616 | 616 | 615 | 615 | 615 | 335 | 336 | 346 | 343 | 348 | 52 | 13 |
| 47 | 8 | 582 | 625 | 658 | 892 | 796 | 901 | 897 | 893 | 889 | 886 | 615 | 615 | 614 | 614 | 614 | 346 | 346 | 351 | 353 | 356 | 46 | 12 |
| 48 | 12 | 728 | 759 | 792 | 826 | 659 | 866 | 862 | 676 | 674 | 870 | 614 | 613 | 813 | 613 | 612 | 856 | 359 | 361 | 364 | 366 | 44 | 11 |
| 49 | 18 | 559 | 892 | 920 | 989 | 992 | 870 | 867 | 863 | 659 | 855 | 612 | 612 | 612 | 612 | 611 | 866 | 369 | 372 | 374 | 377 | 16. 49 | 19 |
| 50 | 43. 20 | * 999 | 026 | 059 | 092 | 126 | 9.60 855 | 851 | 847 | 644 | 846 | 9.99 611 | 611 | 811 | 610 | 610 | 9.77 377 | 380 | 302 | 385 | 387 | 36 | 9 |
| 51 | 24 | 7.95 126 | 159 | 192 | 225 | 259 | 849 | 836 | 632 | 028 | 825 | 610 | 618 | 609 | 608 | 609 | 387 | 390 | 393 | 395 | 380 | 32 | 8 |
| 52 | 28 | 259 | 299 | 325 | 358 | 381 | 825 | 821 | 817 | 813 | 609 | 609 | 608 | 808 | 608 | 608 | 398 | 400 | 403 | 496 | 406 | 26 | 7 |
| 53 | 82 | 391 | 424 | 458 | 491 | 524 | 809 | 805 | 899 | 798 | 794 | 608 | 607 | 807 | 607 | 606 | 406 | 411 | 413 | 416 | 419 | 24 | 6 |
| 54 | 36 | 524 | 557 | 590 | 623 | 656 | 794 | 799 | 786 | 782 | 779 | 696 | 606 | 606 | 606 | 695 | 419 | 421 | 424 | 426 | 429 | 16. 20 | 5 |
| 55 | 43. 40 | 7.95 656 | 689 | 722 | 755 | 766 | 9.60 779 | 775 | 771 | 767 | 763 | 9.99 605 | 605 | 605 | 604 | 604 | 9.77 429 | 432 | 434 | 437 | 440 | 16 | 4 |
| 56 | 44 | 788 | 621 | 834 | 687 | 920 | 763 | 760 | 756 | 752 | 748 | 604 | 604 | 603 | 603 | 603 | 446 | 442 | 445 | 447 | 459 | 12 | 3 |
| 57 | 40 | * 920 | 953 | 986 | 918 | 052 | 748 | 744 | 740 | 737 | 733 | 603 | 603 | 602 | 692 | 609 | 450 | 453 | 455 | 456 | 460 | 8 | 2 |
| 58 | 82 | 7.96 059 | 085 | 116 | 150 | 163 | 733 | 799 | 725 | 721 | 717 | 502 | 601 | 601 | 601 | 600 | 460 | 463 | 466 | 466 | 471 | 4 | 1 |
| 59 | 56 | 183 | 216 | 249 | 282 | 315 | 717 | 714 | 710 | 706 | 792 | 699 | 600 | 699 | 599 | 599 | 471 | 473 | 476 | 479 | 461 | 16. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 69″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 11h | 169° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 5h | 79° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 11° | 0ʰ | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101° | 6ʰ | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | | |
| ′ | m s | 0″ 0ˢ | | 15″ 1ˢ | 30″ 2ˢ | 45″ 3ˢ | 60″ 4ˢ | 0″ 0ˢ | | 15″ 1ˢ | 30″ 2ˢ | 45″ 3ˢ | 60″ 4ˢ | 0″ 0ˢ | | 15″ 1ˢ | 30″ 2ˢ | 45″ 3ˢ | 60″ 4ˢ | 0″ 0ˢ | | 15″ 1ˢ | 30″ 2ˢ | 45″ 3ˢ | 60″ 4ˢ | | ′ |
| 0 | 44. 0 | 9.28 | 060 | 070 | 092 | 100 | 125 | 0.90 | 105 | 194 | 193 | 193 | 192 | 0.00 | 805 | 806 | 807 | 807 | 808 | 0.71 | 940 | 921 | 908 | 891 | 875 | 30 | 59 |
| 1 | 4 | | 125 | 141 | 157 | 173 | 190 | | 192 | 192 | 191 | 190 | 190 | | 808 | 808 | 809 | 810 | 010 | | 875 | 859 | 843 | 827 | 810 | 52 | 58 |
| 2 | 8 | | 120 | 206 | 222 | 238 | 254 | | 190 | 189 | 189 | 148 | 187 | | 810 | 811 | 811 | 812 | 813 | | 010 | 794 | 778 | 762 | 746 | 48 | 57 |
| 3 | 12 | | 254 | 271 | 287 | 303 | 319 | | 187 | 187 | 186 | 185 | 105 | | 813 | 813 | 814 | 815 | 815 | | 746 | 729 | 713 | 697 | 681 | 44 | 56 |
| 4 | 16 | | 319 | 335 | 351 | 367 | 384 | | 185 | 184 | 181 | 183 | 182 | | 815 | 018 | 016 | 817 | 818 | | 681 | 665 | 649 | 633 | 616 | 15. 40 | 55 |
| 5 | 44. 20 | 0.28 | 384 | 400 | 416 | 432 | 448 | 9.99 | 182 | 182 | 181 | 180 | 180 | 0.00 | 818 | 818 | 819 | 820 | 820 | 0.71 | 616 | 600 | 584 | 568 | 552 | 36 | 54 |
| 6 | 21 | | 448 | 164 | 480 | 496 | 512 | | 180 | 179 | 179 | 178 | 177 | | 820 | 821 | 821 | 822 | 823 | | 552 | 536 | 520 | 504 | 488 | 32 | 53 |
| 7 | 28 | | 512 | 528 | 545 | 561 | 577 | | 177 | 177 | 176 | 176 | 175 | | 823 | 823 | 824 | 824 | 825 | | 488 | 472 | 458 | 439 | 423 | 28 | 52 |
| 8 | 32 | | 377 | 593 | 609 | 625 | 841 | | 175 | 174 | 174 | 173 | 172 | | 825 | 826 | 826 | 827 | 828 | | 423 | 407 | 391 | 376 | 359 | 24 | 51 |
| 9 | 36 | | 641 | 657 | 673 | 689 | 705 | | 172 | 172 | 171 | 171 | 170 | | 828 | 828 | 829 | 829 | 830 | | 359 | 343 | 327 | 311 | 225 | 15. 20 | 50 |
| 10 | 44. 40 | 9.28 | 705 | 721 | 737 | 753 | 769 | 9.99 | 170 | 169 | 169 | 168 | 167 | 0.00 | 830 | 831 | 831 | 832 | 833 | 0.71 | 295 | 279 | 263 | 247 | 231 | 16 | 49 |
| 11 | 44 | | 769 | 785 | 801 | 817 | 033 | | 167 | 167 | 166 | 166 | 165 | | 033 | 833 | 834 | 834 | 835 | | 231 | 215 | 199 | 183 | 187 | 12 | 48 |
| 12 | 48 | | 833 | 849 | 864 | 860 | 096 | | 165 | 164 | 164 | 163 | 162 | | 835 | 836 | 836 | 837 | 838 | | 107 | 151 | 136 | 120 | 104 | 8 | 47 |
| 13 | 32 | | 896 | 912 | 928 | 944 | 960 | | 162 | 162 | 161 | 161 | 160 | | 838 | 838 | 039 | 839 | 840 | | 104 | 088 | 172 | 056 | 040 | 4 | 46 |
| 14 | 66 | * | 980 | 978 | 992 | 008 | 024 | | 160 | 159 | 159 | 158 | 157 | | 840 | 841 | 841 | 842 | 843 | * | 040 | 024 | 008 | 992 | 976 | 15. 0 | 43 |
| 15 | 45. 0 | 9.29 | 024 | 039 | 055 | 071 | 087 | 0.99 | 157 | 157 | 156 | 156 | 155 | 0.00 | 843 | 843 | 844 | 844 | 845 | 0.70 | 276 | 961 | 915 | 929 | 913 | 56 | 44 |
| 16 | 4 | | 087 | 103 | 119 | 135 | 150 | | 153 | 154 | 154 | 153 | 152 | | 845 | 846 | 846 | 847 | 848 | | 013 | 697 | 881 | 865 | 850 | 32 | 43 |
| 17 | 8 | | 150 | 166 | 182 | 198 | 214 | | 132 | 152 | 151 | 150 | 150 | | 640 | 818 | 849 | 850 | 850 | | 850 | 634 | 818 | 802 | 786 | 48 | 42 |
| 18 | 12 | | 214 | 229 | 245 | 261 | 277 | | 150 | 149 | 149 | 148 | 147 | | 650 | 851 | 651 | 852 | 853 | | 786 | 771 | 755 | 739 | 723 | 44 | 41 |
| 19 | 16 | | 277 | 293 | 308 | 324 | 340 | | 147 | 147 | 146 | 145 | 145 | | 653 | 853 | 854 | 855 | 855 | | 723 | 707 | 892 | 876 | 660 | 14. 40 | 40 |
| 20 | 45. 20 | 9.29 | 310 | 356 | 371 | 387 | 403 | 0.99 | 145 | 144 | 144 | 143 | 142 | 0.00 | 855 | 856 | 856 | 857 | 858 | 0.70 | 660 | 644 | 622 | 613 | 597 | 36 | 30 |
| 21 | 24 | | 403 | 419 | 134 | 450 | 466 | | 142 | 142 | 141 | 140 | 140 | | 858 | 858 | 859 | 860 | 860 | | 397 | 581 | 566 | 550 | 534 | 32 | 38 |
| 22 | 28 | | 466 | 482 | 497 | 513 | 529 | | 140 | 139 | 138 | 138 | 137 | | 660 | 881 | 862 | 862 | 863 | | 534 | 518 | 503 | 487 | 471 | 28 | 37 |
| 23 | 32 | | 329 | 544 | 560 | 576 | 591 | | 137 | 137 | 136 | 135 | 135 | | 863 | 863 | 864 | 865 | 865 | | 471 | 456 | 140 | 124 | 409 | 24 | 36 |
| 24 | 36 | | 691 | 607 | 623 | 638 | 654 | | 135 | 134 | 133 | 133 | 132 | | 865 | 866 | 867 | 867 | 868 | | 409 | 393 | 377 | 362 | 346 | 14. 20 | 35 |
| 25 | 45. 40 | 9.29 | 651 | 670 | 685 | 701 | 716 | 9.99 | 132 | 131 | 131 | 130 | 130 | 0.00 | 868 | 869 | 869 | 870 | 870 | 0.70 | 346 | 330 | 315 | 299 | 284 | 16 | 34 |
| 26 | 44 | | 710 | 732 | 748 | 763 | 779 | | 130 | 129 | 128 | 128 | 127 | | 670 | 871 | 672 | 872 | 873 | | 284 | 268 | 252 | 237 | 221 | 12 | 33 |
| 27 | 48 | | 779 | 794 | 810 | 826 | 841 | | 127 | 126 | 126 | 125 | 124 | | 873 | 874 | 874 | 875 | 876 | | 221 | 206 | 190 | 174 | 159 | 8 | 32 |
| 28 | 62 | | 841 | 857 | 872 | 888 | 903 | | 124 | 124 | 123 | 122 | 122 | | 876 | 870 | 877 | 878 | 878 | | 159 | 143 | 128 | 112 | 097 | 4 | 31 |
| 29 | 66 | | 903 | 919 | 934 | 950 | 966 | | 122 | 121 | 121 | 120 | 119 | | 878 | 872 | 879 | 880 | 881 | | 097 | 081 | 066 | 050 | 034 | 14. 0 | 30 |
| 30 | 46. 0 | * | 966 | 981 | 997 | 012 | 028 | 0.99 | 119 | 112 | 118 | 117 | 117 | 0.00 | 881 | 881 | 882 | 883 | 883 | * | 034 | 019 | 003 | 988 | 972 | 56 | 29 |
| 31 | 4 | 9.30 | 028 | 043 | 059 | 074 | 090 | | 117 | 116 | 115 | 115 | 114 | | 883 | 884 | 885 | 885 | 866 | 0.09 | 072 | 957 | 941 | 926 | 910 | 52 | 28 |
| 32 | 8 | | 090 | 105 | 120 | 136 | 151 | | 114 | 113 | 113 | 112 | 112 | | 886 | 687 | 887 | 888 | 868 | | 910 | 695 | 880 | 864 | 819 | 48 | 27 |
| 33 | 12 | | 151 | 167 | 182 | 198 | 213 | | 112 | 111 | 110 | 110 | 109 | | 888 | 889 | 890 | 890 | 891 | | 849 | 833 | 818 | 802 | 787 | 44 | 26 |
| 34 | 16 | | 213 | 229 | 244 | 259 | 275 | | 109 | 106 | 108 | 107 | 106 | | 891 | 892 | 892 | 893 | 894 | | 787 | 771 | 756 | 741 | 725 | 13. 40 | 25 |
| 35 | 46 20 | 0.30 | 275 | 290 | 308 | 321 | 336 | 9.99 | 106 | 106 | 105 | 104 | 104 | 0.00 | 894 | 894 | 895 | 896 | 896 | 0.69 | 725 | 710 | 694 | 679 | 664 | 36 | 24 |
| 36 | 24 | | 336 | 352 | 367 | 383 | 398 | | 104 | 103 | 102 | 102 | 101 | | 890 | 897 | 898 | 898 | 899 | | 664 | 648 | 633 | 617 | 602 | 32 | 23 |
| 37 | 28 | | 398 | 413 | 429 | 444 | 459 | | 101 | 101 | 100 | 099 | 099 | | 899 | 899 | 900 | 901 | 901 | | 602 | 587 | 571 | 556 | 541 | 28 | 22 |
| 38 | 32 | | 459 | 475 | 490 | 505 | 521 | | 099 | 098 | 097 | 097 | 096 | | 901 | 902 | 903 | 903 | 904 | | 541 | 525 | 510 | 495 | 479 | 24 | 21 |
| 39 | 36 | | 621 | 536 | 551 | 667 | 582 | | 096 | 095 | 095 | 094 | 093 | | 904 | 905 | 905 | 906 | 907 | | 479 | 464 | 449 | 433 | 416 | 13. 20 | 20 |
| 40 | 46. 40 | 9.30 | 582 | 507 | 612 | 628 | 043 | 9.99 | 093 | 093 | 092 | 091 | 091 | 0.00 | 907 | 907 | 908 | 909 | 909 | 0.69 | 418 | 403 | 388 | 372 | 357 | 16 | 19 |
| 41 | 44 | | 643 | 658 | 674 | 689 | 704 | | 091 | 090 | 089 | 089 | 088 | | 909 | 910 | 911 | 911 | 912 | | 357 | 342 | 326 | 311 | 296 | 12 | 18 |
| 42 | 48 | | 704 | 719 | 735 | 750 | 765 | | 088 | 088 | 087 | 086 | 086 | | 912 | 912 | 913 | 914 | 914 | | 296 | 261 | 265 | 250 | 235 | 6 | 17 |
| 43 | 32 | | 765 | 780 | 795 | 811 | 626 | | 086 | 085 | 084 | 084 | 083 | | 914 | 915 | 916 | 916 | 917 | | 235 | 220 | 205 | 189 | 174 | 4 | 10 |
| 44 | 56 | | 826 | 841 | 856 | 872 | 887 | | 063 | 082 | 082 | 081 | 080 | | 917 | 918 | 918 | 919 | 920 | | 174 | 159 | 144 | 129 | 113 | 13. 0 | 15 |
| 43 | 47. 0 | 9.30 | 887 | 902 | 917 | 932 | 947 | 0.99 | 080 | 080 | 079 | 078 | 078 | 0.00 | 920 | 920 | 921 | 922 | 922 | 0.62 | 113 | 098 | 083 | 088 | 053 | 36 | 14 |
| 46 | 4 | * | 947 | 963 | 978 | 993 | 008 | | 076 | 077 | 076 | 076 | 075 | | 922 | 923 | 924 | 924 | 925 | * | 053 | 037 | 022 | 007 | 992 | 32 | 13 |
| 47 | 6 | 9.31 | 008 | 023 | 036 | 053 | 068 | | 075 | 074 | 074 | 073 | 072 | | 925 | 926 | 926 | 927 | 928 | 0.68 | 992 | 977 | 962 | 947 | 932 | 48 | 12 |
| 48 | 12 | | 068 | 084 | 099 | 114 | 129 | | 072 | 072 | 071 | 070 | 070 | | 928 | 928 | 929 | 930 | 930 | | 032 | 916 | 901 | 886 | 871 | 44 | 11 |
| 49 | 16 | | 129 | 144 | 159 | 174 | 189 | | 070 | 069 | 068 | 068 | 067 | | 930 | 931 | 932 | 932 | 933 | | 871 | 656 | 841 | 826 | 811 | 12. 40 | 10 |
| 50 | 47. 20 | 9.31 | 189 | 204 | 219 | 234 | 250 | 9.99 | 067 | 066 | 066 | 065 | 064 | 0.00 | 233 | 934 | 934 | 935 | 936 | 0.08 | 811 | 796 | 781 | 766 | 750 | 36 | 0 |
| 51 | 24 | | 250 | 265 | 280 | 295 | 310 | | 064 | 064 | 063 | 062 | 062 | | 936 | 936 | 937 | 938 | 938 | | 750 | 735 | 720 | 705 | 890 | 32 | 6 |
| 52 | 28 | | 310 | 325 | 340 | 355 | 370 | | 062 | 061 | 060 | 060 | 059 | | 938 | 939 | 940 | 940 | 941 | | 690 | 675 | 660 | 645 | 630 | 28 | 7 |
| 33 | 32 | | 370 | 385 | 400 | 415 | 430 | | 059 | 058 | 058 | 057 | 056 | | 941 | 942 | 942 | 943 | 944 | | 030 | 615 | 600 | 585 | 570 | 24 | 6 |
| 54 | 36 | | 430 | 445 | 460 | 475 | 490 | | 056 | 056 | 055 | 034 | 054 | | 044 | 944 | 945 | 946 | 946 | | 570 | 555 | 540 | 525 | 510 | 12. 20 | 3 |
| 55 | 47. 40 | 9.31 | 490 | 505 | 520 | 535 | 549 | 0.99 | 054 | 053 | 052 | 052 | 051 | 0.00 | 946 | 947 | 948 | 948 | 949 | 0.68 | 510 | 495 | 480 | 465 | 451 | 16 | 4 |
| 56 | 44 | | 549 | 564 | 579 | 594 | 609 | | 051 | 050 | 050 | 049 | 048 | | 940 | 950 | 950 | 951 | 952 | | 451 | 436 | 421 | 406 | 391 | 12 | 3 |
| 57 | 48 | | 609 | 624 | 639 | 654 | 809 | | 048 | 048 | 047 | 046 | 046 | | 952 | 952 | 953 | 954 | 954 | | 391 | 376 | 381 | 346 | 331 | 8 | 2 |
| 38 | 52 | | 669 | 884 | 699 | 714 | 728 | | 046 | 045 | 044 | 044 | 043 | | 954 | 955 | 950 | 956 | 957 | | 331 | 316 | 301 | 286 | 272 | 4 | 1 |
| 30 | 56 | | 720 | 743 | 738 | 773 | 766 | | 043 | 042 | 042 | 041 | 040 | | 957 | 958 | 958 | 959 | 980 | | 272 | 257 | 242 | 227 | 212 | 12. 0 | 0 |
| | | 4ˢ 60″ | | 3ˢ 45″ | 2ˢ 30″ | 1ˢ 15″ | 0ˢ 0″ | 4ˢ 60″ | | 3ˢ 45″ | 2ˢ 30″ | 1ˢ 15″ | 0ˢ 0″ | 4ˢ 60″ | | 3ˢ 45″ | 2ˢ 30″ | 1ˢ 15″ | 0ˢ 0″ | 4ˢ 60″ | | 3ˢ 45″ | 2ˢ 30″ | 1ˢ 15″ | 0ˢ 0″ | m s | ′ |
| | | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | 11ʰ | 166° |
| | | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | 5ʰ | 78° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 11° | 0h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101° | 6h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 6s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 0 | 44. 0 | 7.96 | 315 | 347 | 380 | 413 | 446 | 9.60 | 702 | 698 | 694 | 691 | 687 | 9.99 | 599 | 599 | 599 | 598 | 598 | 9.77 | 481 | 184 | 486 | 489 | 492 | 56 | 59 |
| 1 | 4 | | 446 | 478 | 511 | 544 | 577 | | 687 | 683 | 679 | 675 | 671 | | 598 | 598 | 597 | 597 | 597 | | 499 | 494 | 497 | 499 | 509 | 59 | 58 |
| 2 | 8 | | 577 | 609 | 649 | 675 | 707 | | 671 | 668 | 664 | 660 | 656 | | 597 | 596 | 596 | 596 | 596 | | 502 | 505 | 587 | 510 | 519 | 48 | 57 |
| 3 | 12 | | 707 | 740 | 773 | 885 | 838 | | 656 | 652 | 648 | 645 | 541 | | 596 | 595 | 595 | 595 | 594 | | 612 | 515 | 518 | 528 | 523 | 44 | 56 |
| 4 | 16 | | 838 | 870 | 903 | 936 | 968 | | 641 | 637 | 633 | 699 | 625 | | 594 | 594 | 594 | 593 | 593 | | 523 | 525 | 528 | 531 | 533 | 15. 40 | 55 |
| 5 | 14. 20 | * | 968 | 001 | 033 | 066 | 098 | 9.60 | 625 | 622 | 618 | 614 | 618 | 9.99 | 593 | 593 | 599 | 599 | 592 | 9.77 | 533 | 536 | 538 | 541 | 544 | 36 | 54 |
| 6 | 24 | 7.97 | 098 | 131 | 163 | 196 | 998 | | 610 | 686 | 682 | 599 | 595 | | 592 | 592 | 591 | 591 | 591 | | 544 | 546 | 549 | 551 | 554 | 32 | 53 |
| 7 | 28 | | 298 | 961 | 993 | 325 | 358 | | 595 | 591 | 587 | 583 | 579 | | 591 | 590 | 590 | 590 | 589 | | 654 | 557 | 559 | 569 | 564 | 28 | 52 |
| 8 | 32 | | 358 | 398 | 423 | 455 | 487 | | 579 | 576 | 572 | 568 | 564 | | 589 | 589 | 589 | 588 | 588 | | 564 | 567 | 570 | 572 | 575 | 24 | 51 |
| 9 | 36 | | 487 | 528 | 552 | 584 | 617 | | 564 | 560 | 536 | 559 | 549 | | 688 | 588 | 588 | 587 | 587 | | 575 | 577 | 580 | 583 | 585 | 16. 20 | 50 |
| 10 | 44. 46 | 7.97 | 617 | 649 | 681 | 714 | 746 | 9.60 | 549 | 545 | 541 | 537 | 533 | 9.99 | 587 | 587 | 586 | 586 | 586 | 9.77 | 585 | 588 | 590 | 593 | 596 | 16 | 49 |
| 11 | 44 | | 746 | 778 | 818 | 843 | 875 | | 533 | 529 | 596 | 522 | 518 | | 586 | 585 | 585 | 585 | 584 | | 596 | 598 | 601 | 683 | 606 | 19 | 48 |
| 12 | 48 | * | 875 | 907 | 939 | 971 | 003 | | 518 | 514 | 518 | 506 | 502 | | 584 | 584 | 584 | 584 | 583 | | 606 | 609 | 611 | 614 | 616 | 8 | 47 |
| 13 | 52 | 7.98 | 003 | 036 | 068 | 100 | 139 | | 502 | 499 | 493 | 491 | 487 | | 583 | 583 | 583 | 582 | 582 | | 616 | 619 | 692 | 624 | 627 | 4 | 46 |
| 14 | 56 | | 139 | 164 | 196 | 228 | 260 | | 487 | 483 | 479 | 476 | 472 | | 582 | 582 | 581 | 581 | 581 | | 627 | 629 | 632 | 634 | 637 | 16. 0 | 45 |
| 15 | 45. 0 | 7.98 | 260 | 299 | 325 | 357 | 389 | 9.60 | 479 | 468 | 464 | 468 | 456 | 9.99 | 581 | 580 | 580 | 580 | 579 | 9.77 | 637 | 640 | 642 | 645 | 647 | 56 | 44 |
| 16 | 4 | | 389 | 421 | 453 | 485 | 517 | | 456 | 452 | 449 | 445 | 441 | | 579 | 579 | 579 | 579 | 578 | | 647 | 650 | 653 | 655 | 658 | 52 | 43 |
| 17 | 8 | | 617 | 549 | 580 | 612 | 644 | | 441 | 437 | 433 | 429 | 426 | | 578 | 578 | 578 | 577 | 577 | | 658 | 660 | 663 | 666 | 668 | 48 | 42 |
| 18 | 12 | | 644 | 676 | 708 | 740 | 772 | | 426 | 422 | 418 | 414 | 410 | | 577 | 577 | 576 | 576 | 576 | | 668 | 671 | 673 | 676 | 679 | 44 | 41 |
| 19 | 16 | | 772 | 804 | 836 | 868 | 899 | | 410 | 486 | 482 | 399 | 395 | | 576 | 575 | 575 | 575 | 574 | | 679 | 681 | 684 | 686 | 689 | 14. 40 | 40 |
| 28 | 45. 20 | * | 899 | 931 | 963 | 995 | 027 | 9.60 | 395 | 391 | 387 | 383 | 379 | 9.99 | 574 | 574 | 574 | 574 | 573 | 9.77 | 689 | 691 | 694 | 697 | 699 | 36 | 39 |
| 21 | 24 | 7.99 | 027 | 058 | 090 | 122 | 154 | | 379 | 375 | 372 | 368 | 364 | | 573 | 573 | 573 | 572 | 572 | | 699 | 702 | 704 | 787 | 710 | 39 | 38 |
| 22 | 28 | | 154 | 185 | 217 | 249 | 280 | | 364 | 368 | 356 | 352 | 348 | | 572 | 572 | 571 | 571 | 571 | | 718 | 712 | 715 | 717 | 790 | 28 | 37 |
| 23 | 32 | | 280 | 312 | 344 | 375 | 407 | | 348 | 345 | 341 | 337 | 333 | | 571 | 570 | 570 | 570 | 569 | | 720 | 723 | 725 | 728 | 730 | 24 | 36 |
| 24 | 36 | | 407 | 439 | 470 | 502 | 534 | | 333 | 329 | 395 | 321 | 318 | | 669 | 569 | 569 | 569 | 568 | | 730 | 733 | 735 | 738 | 741 | 14. 28 | 35 |
| 25 | 45. 40 | 7.99 | 534 | 565 | 597 | 628 | 660 | 9.60 | 318 | 314 | 310 | 306 | 302 | 9.99 | 568 | 568 | 568 | 567 | 567 | 9.77 | 741 | 743 | 746 | 748 | 751 | 16 | 34 |
| 26 | 44 | | 660 | 691 | 793 | 754 | 786 | | 302 | 298 | 294 | 291 | 987 | | 567 | 567 | 566 | 566 | 566 | | 751 | 754 | 756 | 758 | 761 | 12 | 33 |
| 27 | 48 | | 786 | 817 | 849 | 880 | 912 | | 287 | 283 | 279 | 275 | 271 | | 566 | 565 | 565 | 565 | 564 | | 761 | 764 | 766 | 769 | 772 | 8 | 32 |
| 28 | 62 | * | 919 | 943 | 975 | 000 | 038 | | 271 | 267 | 263 | 260 | 256 | | 564 | 564 | 564 | 563 | 563 | | 772 | 774 | 777 | 779 | 782 | 4 | 31 |
| 29 | 56 | 8.00 | 038 | 069 | 100 | 152 | 163 | | 256 | 252 | 248 | 244 | 240 | | 563 | 563 | 562 | 562 | 562 | | 782 | 784 | 787 | 798 | 792 | 14. 8 | 30 |
| 30 | 46. 0 | 8.00 | 163 | 195 | 296 | 258 | 289 | 9.60 | 240 | 236 | 233 | 929 | 225 | 9.99 | 569 | 562 | 561 | 561 | 561 | 9.77 | 792 | 795 | 797 | 800 | 803 | 56 | 29 |
| 31 | 4 | | 289 | 398 | 351 | 382 | 414 | | 225 | 221 | 217 | 913 | 289 | | 661 | 568 | 560 | 568 | 559 | | 803 | 805 | 808 | 810 | 813 | 62 | 28 |
| 32 | 8 | | 414 | 445 | 476 | 508 | 539 | | 209 | 205 | 209 | 198 | 194 | | 559 | 559 | 559 | 558 | 558 | | 813 | 815 | 818 | 891 | 823 | 48 | 27 |
| 33 | 12 | | 539 | 570 | 601 | 632 | 664 | | 194 | 190 | 186 | 182 | 178 | | 558 | 558 | 557 | 557 | 557 | | 893 | 826 | 898 | 831 | 834 | 44 | 26 |
| 34 | 16 | | 664 | 695 | 726 | 757 | 788 | | 178 | 176 | 171 | 167 | 163 | | 657 | 556 | 556 | 556 | 555 | | 834 | 836 | 839 | 841 | 844 | 13. 48 | 25 |
| 35 | 46. 20 | 8.00 | 788 | 819 | 850 | 882 | 913 | 9.60 | 165 | 159 | 155 | 151 | 147 | 9.99 | 555 | 555 | 555 | 555 | 564 | 9.77 | 844 | 846 | 849 | 852 | 851 | 36 | 24 |
| 36 | 24 | * | 913 | 944 | 975 | 006 | 037 | | 147 | 144 | 140 | 136 | 132 | | 554 | 554 | 554 | 553 | 553 | | 854 | 857 | 859 | 862 | 864 | 32 | 23 |
| 37 | 28 | 8.01 | 037 | 068 | 099 | 130 | 161 | | 132 | 128 | 124 | 120 | 116 | | 653 | 553 | 552 | 552 | 552 | | 864 | 867 | 870 | 879 | 875 | 28 | 22 |
| 38 | 32 | | 161 | 192 | 223 | 254 | 985 | | 116 | 113 | 109 | 105 | 101 | | 552 | 551 | 551 | 551 | 550 | | 875 | 877 | 080 | 882 | 885 | 24 | 21 |
| 39 | 36 | | 285 | 316 | 347 | 378 | 489 | | 101 | 097 | 093 | 089 | 085 | | 658 | 550 | 550 | 549 | 549 | | 885 | 888 | 890 | 893 | 895 | 13. 20 | 20 |
| 40 | 46. 48 | 8.01 | 409 | 440 | 471 | 501 | 532 | 9.60 | 085 | 082 | 078 | 874 | 070 | 9.99 | 549 | 549 | 548 | 548 | 548 | 9.77 | 895 | 898 | 980 | 903 | 906 | 16 | 19 |
| 41 | 44 | | 532 | 563 | 594 | 625 | 656 | | 070 | 066 | 069 | 058 | 054 | | 548 | 547 | 547 | 547 | 546 | | 906 | 988 | 911 | 913 | 916 | 12 | 18 |
| 42 | 48 | | 656 | 686 | 717 | 748 | 779 | | 054 | 051 | 047 | 843 | 039 | | 646 | 546 | 546 | 545 | 545 | | 916 | 918 | 921 | 994 | 996 | 8 | 17 |
| 43 | 52 | | 779 | 810 | 840 | 871 | 902 | | 039 | 035 | 031 | 827 | 023 | | 545 | 545 | 645 | 544 | 544 | | 926 | 929 | 931 | 934 | 936 | 4 | 16 |
| 44 | 56 | * | 902 | 933 | 963 | 994 | 025 | | 023 | 019 | 016 | 012 | 808 | | 544 | 544 | 643 | 543 | 543 | | 936 | 939 | 949 | 944 | 947 | 13. 0 | 15 |
| 45 | 47. 0 | 8.02 | 095 | 055 | 086 | 117 | 147 | * | 008 | 004 | 000 | 996 | 992 | 9.99 | 543 | 542 | 542 | 542 | 541 | 9.77 | 947 | 949 | 952 | 954 | 957 | 56 | 14 |
| 46 | 4 | | 147 | 178 | 209 | 239 | 270 | 9.59 | 992 | 988 | 985 | 981 | 977 | | 641 | 541 | 541 | 540 | 540 | | 957 | 960 | 962 | 965 | 967 | 62 | 13 |
| 47 | 8 | | 278 | 381 | 331 | 362 | 392 | | 977 | 973 | 969 | 965 | 961 | | 540 | 540 | 539 | 539 | 539 | | 967 | 970 | 972 | 975 | 978 | 48 | 12 |
| 48 | 12 | | 392 | 423 | 453 | 484 | 514 | | 961 | 957 | 953 | 958 | 946 | | 539 | 538 | 538 | 538 | 537 | | 978 | 988 | 983 | 985 | 988 | 41 | 11 |
| 49 | 16 | | 514 | 545 | 575 | 606 | 636 | | 946 | 942 | 938 | 934 | 930 | | 537 | 537 | 537 | 536 | 536 | | 988 | 990 | 993 | 995 | 998 | 12. 40 | 10 |
| 60 | 47. 20 | 8.02 | 636 | 667 | 697 | 728 | 758 | 9.59 | 930 | 926 | 922 | 918 | 915 | 9.99 | 536 | 536 | 535 | 535 | 535 | * | 998 | 001 | 003 | 006 | 008 | 36 | 9 |
| 61 | 24 | | 758 | 789 | 819 | 858 | 880 | | 915 | 911 | 907 | 903 | 899 | | 635 | 534 | 534 | 534 | 533 | 9.78 | 008 | 011 | 013 | 016 | 019 | 32 | 8 |
| 62 | 28 | * | 888 | 910 | 941 | 971 | 001 | | 899 | 895 | 891 | 887 | 883 | | 533 | 533 | 533 | 532 | 532 | | 019 | 021 | 024 | 026 | 029 | 28 | 7 |
| 63 | 32 | 8.03 | 001 | 039 | 862 | 092 | 123 | | 883 | 880 | 876 | 879 | 868 | | 532 | 539 | 531 | 531 | 531 | | 029 | 831 | 034 | 037 | 039 | 24 | 6 |
| 54 | 36 | | 123 | 153 | 183 | 214 | 244 | | 868 | 864 | 868 | 856 | 859 | | 631 | 530 | 530 | 530 | 529 | | 039 | 842 | 044 | 047 | 049 | 12. 20 | 6 |
| 65 | 47. 40 | 8.03 | 244 | 274 | 304 | 335 | 365 | 9.59 | 852 | 848 | 845 | 841 | 837 | 9.99 | 529 | 629 | 529 | 528 | 528 | 9.78 | 849 | 052 | 854 | 057 | 060 | 16 | 4 |
| 56 | 44 | | 365 | 395 | 495 | 455 | 486 | | 837 | 833 | 829 | 825 | 821 | | 528 | 528 | 627 | 597 | 527 | | 068 | 862 | 065 | 067 | 070 | 12 | 3 |
| 57 | 48 | | 486 | 516 | 546 | 576 | 606 | | 821 | 817 | 813 | 809 | 806 | | 527 | 527 | 526 | 596 | 526 | | 070 | 079 | 075 | 077 | 080 | 8 | 2 |
| 68 | 62 | | 686 | 636 | 666 | 697 | 727 | | 806 | 802 | 798 | 794 | 790 | | 626 | 525 | 595 | 525 | 524 | | 080 | 083 | 085 | 088 | 090 | 4 | 1 |
| 69 | 56 | | 797 | 757 | 787 | 817 | 847 | | 790 | 786 | 782 | 778 | 774 | | 624 | 524 | 594 | 523 | 523 | | 090 | 093 | 095 | 098 | 101 | 12. 0 | 0 |
| | | 4s 60″ | | 3s 45″ | 2s 38″ | 1s 15″ | 0s 0″ | 4s 60″ | | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 11h | 168° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 5h | 78° |

**TABLA XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 12° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 2″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 12″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 8 | 48. 0 | 9.31 788 | 803 | 618 | 832 | 847 | 9.99 010 | 840 | 039 | 238 | 038 | 9.82 960 | 960 | 961 | 262 | 962 | 2.68 912 | 197 | 182 | 168 | 153 | 56 | 59 |
| 1 | 4 | 847 | 222 | 277 | 892 | 907 | 038 | 037 | 036 | 032 | 035 | 262 | 903 | 054 | 224 | 025 | 153 | 138 | 123 | 108 | 093 | 52 | 58 |
| 9 | 8 | 907 | 921 | 936 | 951 | 966 | 235 | 034 | 033 | 033 | 032 | 225 | 966 | 967 | 967 | 968 | 293 | 079 | 064 | 049 | 034 | 48 | 57 |
| 3 | 19 | * 922 | 981 | 993 | 010 | 025 | 232 | 232 | 031 | 030 | 030 | 268 | 968 | 969 | 970 | 970 | * 234 | 219 | 025 | 920 | 275 | 44 | 56 |
| 4 | 16 | 9.39 825 | 040 | 054 | 069 | 084 | 230 | 029 | 022 | 028 | 027 | 972 | 271 | 972 | 979 | 973 | 0.67 975 | 260 | 946 | 931 | 912 | 11. 40 | 55 |
| 0 | 48. 20 | 9.32 084 | 099 | 114 | 128 | 143 | 9.99 027 | 026 | 025 | 025 | 024 | 0.00 973 | 274 | 975 | 075 | 976 | 0.67 912 | 001 | 887 | 872 | 857 | 36 | 54 |
| 6 | 24 | 143 | 158 | 172 | 187 | 202 | 024 | 024 | 023 | 022 | 022 | 272 | 272 | 977 | 978 | 978 | 857 | 242 | 828 | 213 | 798 | 32 | 23 |
| 7 | 28 | 902 | 217 | 931 | 946 | 261 | 822 | 021 | 222 | 090 | 019 | 278 | 279 | 980 | 280 | 981 | 798 | 783 | 760 | 754 | 739 | 98 | 02 |
| 5 | 32 | 961 | 275 | 990 | 305 | 319 | 819 | 012 | 217 | 217 | 016 | 981 | 289 | 983 | 983 | 984 | 732 | 723 | 718 | 695 | 681 | 94 | 51 |
| 9 | 36 | 319 | 334 | 349 | 363 | 378 | 016 | 212 | 215 | 214 | 213 | 984 | 985 | 985 | 988 | 987 | 681 | 665 | 651 | 237 | 622 | 11. 20 | 50 |
| 10 | 48. 40 | 9.32 378 | 393 | 427 | 422 | 437 | 9.99 013 | 013 | 012 | 211 | 011 | 0.02 287 | 987 | 988 | 982 | 989 | 0.67 622 | 607 | 593 | 372 | 563 | 12 | 49 |
| 11 | 44 | 437 | 431 | 466 | 480 | 495 | 011 | 010 | 009 | 209 | 008 | 289 | 290 | 921 | 991 | 992 | 063 | 549 | 534 | 320 | 305 | 12 | 48 |
| 12 | 48 | 493 | 510 | 524 | 539 | 553 | 008 | 027 | 006 | 206 | 005 | 992 | 993 | 294 | 994 | 995 | 203 | 490 | 476 | 461 | 447 | 8 | 47 |
| 13 | 22 | 653 | 568 | 383 | 597 | 612 | 005 | 223 | 004 | 203 | 002 | 995 | 295 | 996 | 997 | 998 | 447 | 432 | 417 | 403 | 388 | 4 | 46 |
| 14 | 56 | 612 | 696 | 641 | 653 | 870 | 002 | 002 | 001 | 000 | 000 | * 998 | 998 | 999 | 000 | 000 | 388 | 374 | 332 | 345 | 330 | 11. 2 | 43 |
| 10 | 49. 0 | 9.39 670 | 685 | 699 | 714 | 728 | * 000 | 999 | 998 | 298 | 997 | 8.01 200 | 001 | 202 | 002 | 003 | 2.67 330 | 315 | 301 | 286 | 272 | 66 | 44 |
| 16 | 4 | 728 | 743 | 727 | 772 | 786 | 9.96 997 | 992 | 993 | 295 | 994 | 203 | 004 | 005 | 005 | 206 | 979 | 237 | 243 | 228 | 214 | 22 | 43 |
| 17 | 6 | 726 | 821 | 815 | 830 | 844 | 994 | 994 | 993 | 992 | 921 | 202 | 206 | 007 | 008 | 009 | 914 | 199 | 183 | 170 | 126 | 48 | 42 |
| 16 | 12 | 844 | 059 | 873 | 888 | 902 | 991 | 991 | 990 | 989 | 989 | 009 | 209 | 012 | 011 | 011 | 130 | 141 | 127 | 112 | 098 | 44 | 41 |
| 19 | 16 | 902 | 917 | 931 | 945 | 960 | 989 | 988 | 987 | 987 | 986 | 211 | 012 | 213 | 013 | 014 | 098 | 283 | 009 | 255 | 040 | 16. 40 | 42 |
| 20 | 49. 20 | * 960 | 274 | 989 | 023 | 018 | 9.98 986 | 985 | 985 | 984 | 983 | 0.21 214 | 212 | 015 | 016 | 017 | * 240 | 026 | 011 | 997 | 282 | 35 | 39 |
| 21 | 24 | 9.33 218 | 032 | 046 | 061 | 275 | 983 | 983 | 082 | 981 | 980 | 217 | 017 | 018 | 019 | 090 | 0.66 982 | 968 | 951 | 939 | 925 | 32 | 38 |
| 92 | 28 | 075 | 090 | 104 | 118 | 133 | 980 | 980 | 079 | 976 | 978 | 092 | 221 | 021 | 022 | 292 | 923 | 012 | 896 | 822 | 067 | 28 | 37 |
| 93 | 32 | 133 | 147 | 162 | 176 | 190 | 978 | 977 | 076 | 976 | 975 | 022 | 023 | 024 | 024 | 023 | 867 | 833 | 838 | 824 | 810 | 24 | 36 |
| 24 | 36 | 190 | 205 | 219 | 233 | 248 | 975 | 974 | 973 | 973 | 972 | 025 | 026 | 027 | 027 | 028 | 818 | 703 | 781 | 767 | 702 | 10. 20 | 36 |
| 90 | 49. 40 | 9.33 948 | 262 | 276 | 291 | 305 | 9.96 972 | 971 | 970 | 970 | 929 | 0.21 098 | 029 | 030 | 030 | 031 | 6.66 759 | 738 | 724 | 709 | 895 | 12 | 34 |
| 26 | 44 | 305 | 319 | 334 | 348 | 362 | 089 | 969 | 928 | 067 | 967 | 031 | 031 | 032 | 033 | 033 | 695 | 281 | 682 | 252 | 638 | 12 | 33 |
| 97 | 48 | 362 | 377 | 391 | 405 | 490 | 987 | 966 | 965 | 964 | 961 | 033 | 034 | 033 | 036 | 036 | 638 | 623 | 609 | 595 | 580 | 8 | 32 |
| 28 | 62 | 420 | 434 | 448 | 462 | 477 | 964 | 963 | 962 | 962 | 961 | 036 | 037 | 838 | 038 | 039 | 680 | 566 | 352 | 238 | 523 | 4 | 31 |
| 29 | 66 | 477 | 491 | 505 | 519 | 534 | 961 | 962 | 959 | 950 | 958 | 039 | 040 | 041 | 041 | 042 | 023 | 509 | 493 | 481 | 466 | 10. 0 | 30 |
| 30 | 50. 8 | 9.33 034 | 548 | 569 | 578 | 591 | 9.98 938 | 957 | 037 | 056 | 955 | 0.01 042 | 043 | 043 | 044 | 045 | 0.66 466 | 452 | 438 | 424 | 409 | 56 | 29 |
| 31 | 4 | 501 | 603 | 619 | 633 | 647 | 055 | 955 | 954 | 953 | 953 | 046 | 045 | 018 | 047 | 047 | 400 | 305 | 381 | 387 | 353 | 02 | 28 |
| 32 | 6 | 647 | 662 | 876 | 690 | 704 | 933 | 932 | 951 | 050 | 950 | 047 | 048 | 040 | 052 | 050 | 353 | 338 | 324 | 310 | 992 | 48 | 97 |
| 33 | 12 | 704 | 718 | 733 | 747 | 761 | 930 | 949 | 948 | 948 | 947 | 050 | 031 | 032 | 052 | 053 | 996 | 282 | 267 | 253 | 239 | 44 | 96 |
| 34 | 16 | 761 | 775 | 780 | 803 | 818 | 947 | 046 | 043 | 943 | 944 | 853 | 034 | 050 | 055 | 056 | 939 | 225 | 211 | 197 | 182 | 9. 40 | 93 |
| 35 | 60. 20 | 9.33 818 | 232 | 846 | 860 | 874 | 9.90 944 | 943 | 042 | 942 | 241 | 0.01 036 | 057 | 058 | 258 | 039 | 8.66 182 | 168 | 134 | 140 | 126 | 36 | 94 |
| 38 | 24 | 874 | 688 | 002 | 917 | 931 | 941 | 941 | 940 | 030 | 938 | 050 | 050 | 060 | 061 | 062 | 126 | 112 | 098 | 083 | 069 | 39 | 23 |
| 37 | 28 | 931 | 945 | 950 | 973 | 987 | 938 | 938 | 037 | 936 | 936 | 062 | 062 | 063 | 084 | 084 | 060 | 055 | 841 | 097 | 013 | 28 | 29 |
| 38 | 32 | * 987 | 001 | 013 | 029 | 043 | 936 | 935 | 034 | 934 | 933 | 064 | 063 | 066 | 066 | 067 | * 613 | 999 | 985 | 971 | 957 | 94 | 21 |
| 39 | 36 | 9.34 243 | 057 | 872 | 088 | 100 | 933 | 932 | 931 | 931 | 930 | 867 | 068 | 069 | 069 | 070 | 0.65 937 | 943 | 928 | 914 | 902 | 9. 20 | 28 |
| 40 | 50. 40 | 9.34 100 | 114 | 128 | 142 | 156 | 9.96 930 | 090 | 929 | 928 | 927 | 0.01 070 | 071 | 071 | 079 | 073 | 0.66 920 | 886 | 872 | 058 | 844 | 16 | 19 |
| 41 | 44 | 156 | 170 | 184 | 198 | 212 | 927 | 926 | 026 | 995 | 924 | 073 | 074 | 074 | 075 | 076 | 844 | 830 | 818 | 202 | 788 | 12 | 18 |
| 42 | 48 | 912 | 226 | 240 | 254 | 268 | 994 | 924 | 923 | 922 | 921 | 076 | 078 | 077 | 078 | 079 | 788 | 774 | 768 | 746 | 732 | 8 | 17 |
| 43 | 62 | 968 | 289 | 296 | 310 | 324 | 921 | 921 | 920 | 910 | 919 | 079 | 079 | 082 | 061 | 281 | 732 | 718 | 724 | 690 | 676 | 4 | 16 |
| 44 | 56 | 324 | 338 | 352 | 366 | 380 | 919 | 918 | 917 | 916 | 916 | 061 | 082 | 083 | 084 | 084 | 676 | 682 | 648 | 634 | 620 | 9. 8 | 15 |
| 45 | 21. 0 | 9.34 380 | 394 | 408 | 422 | 438 | 9.98 916 | 915 | 914 | 014 | 013 | 0.01 084 | 085 | 086 | 086 | 087 | 0.65 620 | 806 | 592 | 578 | 584 | 68 | 14 |
| 46 | 4 | 436 | 449 | 463 | 477 | 491 | 913 | 912 | 011 | 911 | 910 | 087 | 088 | 289 | 089 | 290 | 064 | 551 | 537 | 523 | 300 | 22 | 13 |
| 47 | 8 | 401 | 383 | 519 | 333 | 547 | 910 | 909 | 909 | 908 | 907 | 002 | 091 | 291 | 092 | 093 | 009 | 495 | 481 | 487 | 453 | 48 | 12 |
| 48 | 12 | 647 | 561 | 575 | 580 | 602 | 907 | 906 | 006 | 905 | 904 | 093 | 094 | 094 | 293 | 096 | 433 | 439 | 425 | 411 | 398 | 44 | 11 |
| 49 | 16 | 682 | 616 | 630 | 644 | 638 | 984 | 904 | 903 | 902 | 901 | 896 | 096 | 097 | 008 | 229 | 398 | 384 | 372 | 352 | 342 | 8. 40 | 10 |
| 60 | 51. 90 | 9.34 638 | 679 | 686 | 700 | 713 | 9.98 901 | 901 | 902 | 899 | 808 | 8.01 099 | 099 | 100 | 101 | 102 | 0.66 342 | 328 | 314 | 302 | 287 | 36 | 9 |
| 61 | 94 | 713 | 797 | 741 | 725 | 769 | 898 | 898 | 897 | 806 | 896 | 122 | 122 | 123 | 104 | 124 | 287 | 273 | 259 | 242 | 231 | 32 | 6 |
| 09 | 28 | 769 | 783 | 796 | 818 | 824 | 896 | 805 | 894 | 893 | 893 | 104 | 105 | 106 | 107 | 127 | 231 | 217 | 204 | 190 | 176 | 98 | 7 |
| 63 | 32 | 824 | 838 | 859 | 863 | 879 | 893 | 892 | 891 | 091 | 090 | 107 | 106 | 102 | 109 | 110 | 176 | 182 | 148 | 135 | 121 | 24 | 6 |
| 54 | 36 | 679 | 893 | 987 | 991 | 934 | 890 | 680 | 608 | 888 | 687 | 112 | 111 | 112 | 112 | 113 | 121 | 187 | 003 | 079 | 028 | 8. 20 | 6 |
| 60 | 61. 42 | 9.34 934 | 948 | 062 | 976 | 989 | 9.96 887 | 886 | 885 | 885 | 884 | 0.61 113 | 114 | 115 | 115 | 116 | 0.63 066 | 022 | 038 | 024 | 011 | 12 | 4 |
| 56 | 44 | * 989 | 003 | 017 | 031 | 044 | 684 | 883 | 883 | 882 | 881 | 116 | 117 | 117 | 118 | 119 | * 011 | 927 | 983 | 969 | 936 | 12 | 3 |
| 67 | 48 | 9.35 044 | 058 | 072 | 066 | 290 | 881 | 880 | 800 | 879 | 878 | 119 | 120 | 120 | 121 | 122 | 8.64 958 | 949 | 928 | 910 | 921 | 8 | 9 |
| 68 | 02 | 099 | 113 | 127 | 140 | 104 | 878 | 877 | 877 | 876 | 875 | 192 | 123 | 123 | 124 | 125 | 901 | 887 | 873 | 860 | 846 | 4 | 1 |
| 69 | 66 | 154 | 168 | 181 | 193 | 202 | 873 | 870 | 674 | 072 | 872 | 125 | 123 | 196 | 197 | 128 | 842 | 632 | 619 | 805 | 791 | 5. 0 | 0 |
| | | 4s 60″ | 3s 46″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 46″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 40″ | 2s 30″ | 1s 10″ | 0s 0″ | 4s 60″ | 3s 40″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 167° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 77° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversoo.**

| 19° | 9h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 5" 0° | 15' 1° | 30" 2° | 45" 3° | 60' 4° | 0" 0° | 10" 1° | 30" 2° | 46' 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 48. 0 | 8.83 047 | 077 | 907 | 937 | 967 | 9.59 774 | 770 | 767 | 703 | 759 | 9.99 023 | 523 | 522 | 522 | 522 | 9.78 101 | 183 | 186 | 180 | 111 | 56 | 59 |
| 1 | 4 | * 967 | 997 | 027 | 057 | 087 | 759 | 755 | 751 | 747 | 743 | 522 | 521 | 521 | 521 | 590 | 111 | 113 | 110 | 118 | 121 | 59 | 08 |
| 2 | 8 | 8.94 887 | 117 | 147 | 177 | 207 | 743 | 739 | 735 | 731 | 728 | 520 | 520 | 520 | 519 | 519 | 121 | 124 | 126 | 129 | 131 | 48 | 67 |
| 3 | 12 | 207 | 237 | 267 | 297 | 326 | 728 | 724 | 790 | 716 | 712 | 519 | 519 | 518 | 518 | 518 | 131 | 134 | 136 | 132 | 141 | 44 | 56 |
| 4 | 16 | 396 | 356 | 386 | 416 | 446 | 712 | 708 | 704 | 700 | 626 | 518 | 517 | 517 | 517 | 516 | 141 | 144 | 147 | 142 | 152 | 11.40 | 55 |
| 6 | 48.20 | 8.04 446 | 476 | 505 | 535 | 565 | 9.59 696 | 692 | 088 | 085 | 681 | 9.99 516 | 516 | 516 | 515 | 515 | 9.78 152 | 154 | 157 | 159 | 162 | 36 | 54 |
| 6 | 24 | 565 | 595 | 025 | 654 | 684 | 601 | 677 | 673 | 669 | 605 | 515 | 515 | 514 | 514 | 514 | 152 | 164 | 167 | 178 | 172 | 32 | 53 |
| 7 | 98 | 684 | 714 | 744 | 773 | 803 | 565 | 661 | 657 | 653 | 549 | 014 | 513 | 513 | 513 | 512 | 172 | 175 | 177 | 180 | 182 | 20 | 52 |
| 8 | 32 | 803 | 833 | 063 | 822 | 922 | 649 | 645 | 042 | 638 | 634 | 512 | 512 | 512 | 511 | 511 | 182 | 105 | 187 | 190 | 192 | 94 | 51 |
| 9 | 36 | * 922 | 952 | 981 | 011 | 041 | 634 | 630 | 626 | 622 | 618 | 511 | 011 | 510 | 510 | 509 | 192 | 195 | 190 | 200 | 203 | 11.20 | 50 |
| 10 | 48.40 | 8.85 041 | 070 | 100 | 122 | 159 | 9.59 618 | 614 | 610 | 606 | 602 | 9.99 509 | 502 | 509 | 508 | 508 | 9.78 203 | 205 | 208 | 210 | 213 | 16 | 49 |
| 11 | 44 | 159 | 189 | 218 | 248 | 277 | 502 | 599 | 095 | 591 | 587 | 088 | 508 | 507 | 507 | 507 | 213 | 210 | 218 | 221 | 223 | 12 | 40 |
| 19 | 40 | 977 | 387 | 336 | 366 | 395 | 587 | 583 | 579 | 575 | 571 | 507 | 586 | 506 | 500 | 505 | 223 | 226 | 220 | 231 | 233 | 8 | 47 |
| 13 | 52 | 395 | 425 | 454 | 484 | 513 | 571 | 567 | 563 | 559 | 555 | 505 | 505 | 505 | 604 | 504 | 233 | 236 | 238 | 241 | 243 | 4 | 46 |
| 14 | 56 | 513 | 543 | 572 | 602 | 631 | 555 | 551 | 547 | 544 | 548 | 504 | 504 | 503 | 503 | 503 | 243 | 246 | 249 | 261 | 254 | 11. 0 | 45 |
| 15 | 49. 0 | 8.05 631 | 661 | 620 | 712 | 749 | 9.59 540 | 530 | 532 | 520 | 524 | 9.29 503 | 502 | 582 | 502 | 501 | 9.78 254 | 256 | 259 | 261 | 264 | 56 | 44 |
| 16 | 4 | 749 | 778 | 800 | 537 | 866 | 524 | 520 | 516 | 512 | 508 | 501 | 501 | 501 | 500 | 500 | 964 | 206 | 269 | 271 | 274 | 52 | 43 |
| 17 | 8 | 066 | 096 | 225 | 955 | 984 | 500 | 505 | 501 | 497 | 493 | 500 | 500 | 499 | 499 | 499 | 274 | 277 | 279 | 282 | 284 | 48 | 42 |
| 18 | 12 | * 904 | 013 | 042 | 072 | 101 | 493 | 489 | 485 | 401 | 477 | 499 | 420 | 490 | 495 | 497 | 904 | 287 | 289 | 299 | 294 | 44 | 41 |
| 19 | 16 | 8.06 181 | 138 | 160 | 189 | 218 | 477 | 473 | 469 | 455 | 461 | 497 | 497 | 497 | 496 | 496 | 294 | 297 | 299 | 302 | 305 | 10.40 | 40 |
| 98 | 49.90 | 8.06 218 | 247 | 276 | 305 | 335 | 9.59 461 | 457 | 454 | 450 | 446 | 9.99 496 | 495 | 495 | 495 | 495 | 9.75 305 | 307 | 318 | 312 | 315 | 56 | 39 |
| 91 | 24 | 535 | 364 | 393 | 422 | 451 | 446 | 442 | 438 | 434 | 430 | 495 | 494 | 494 | 494 | 493 | 315 | 317 | 320 | 322 | 325 | 32 | 30 |
| 99 | 28 | 451 | 400 | 510 | 539 | 560 | 430 | 426 | 422 | 418 | 414 | 493 | 493 | 493 | 492 | 492 | 395 | 327 | 330 | 332 | 335 | 95 | 37 |
| 23 | 32 | 568 | 597 | 626 | 655 | 684 | 414 | 410 | 406 | 403 | 399 | 492 | 491 | 491 | 491 | 490 | 335 | 338 | 340 | 343 | 345 | 24 | 36 |
| 94 | 36 | 684 | 713 | 742 | 771 | 800 | 399 | 395 | 391 | 307 | 383 | 490 | 490 | 490 | 482 | 489 | 346 | 340 | 350 | 353 | 355 | 18.28 | 35 |
| 95 | 49.40 | 8.86 800 | 829 | 858 | 887 | 916 | 9.59 303 | 379 | 375 | 371 | 367 | 9.99 489 | 489 | 488 | 488 | 488 | 9.78 355 | 358 | 360 | 363 | 365 | 16 | 34 |
| 96 | 44 | * 916 | 945 | 974 | 003 | 032 | 367 | 363 | 359 | 355 | 351 | 488 | 407 | 487 | 487 | 486 | 365 | 368 | 371 | 373 | 376 | 12 | 33 |
| 97 | 48 | 8.97 032 | 001 | 898 | 119 | 148 | 351 | 340 | 314 | 340 | 336 | 406 | 486 | 486 | 405 | 485 | 376 | 378 | 381 | 383 | 386 | 8 | 32 |
| 98 | 52 | 148 | 177 | 206 | 235 | 264 | 336 | 332 | 320 | 324 | 320 | 485 | 485 | 484 | 484 | 494 | 306 | 388 | 391 | 393 | 326 | 4 | 31 |
| 29 | 56 | 264 | 293 | 321 | 358 | 379 | 398 | 316 | 312 | 388 | 304 | 484 | 483 | 483 | 483 | 482 | 396 | 398 | 401 | 404 | 486 | 10. 0 | 30 |
| 30 | 50. 8 | 8.07 379 | 408 | 437 | 465 | 494 | 9.59 504 | 300 | 296 | 292 | 288 | 2.99 482 | 482 | 481 | 481 | 481 | 9.78 406 | 489 | 411 | 414 | 416 | 56 | 29 |
| 31 | 4 | 494 | 523 | 552 | 581 | 618 | 908 | 205 | 281 | 277 | 273 | 481 | 488 | 400 | 480 | 479 | 416 | 412 | 421 | 424 | 426 | 52 | 28 |
| 32 | 8 | 618 | 638 | 667 | 696 | 725 | 973 | 269 | 265 | 261 | 257 | 479 | 479 | 479 | 470 | 478 | 496 | 429 | 431 | 434 | 430 | 48 | 27 |
| 53 | 12 | 725 | 753 | 782 | 811 | 832 | 957 | 253 | 249 | 245 | 241 | 478 | 478 | 477 | 477 | 477 | 436 | 432 | 442 | 444 | 447 | 44 | 96 |
| 34 | 16 | 832 | 068 | 897 | 925 | 954 | 241 | 237 | 233 | 299 | 225 | 477 | 476 | 476 | 475 | 475 | 447 | 449 | 452 | 454 | 457 | 9.48 | 25 |
| 35 | 58.20 | * 954 | 983 | 011 | 840 | 060 | 9.59 925 | 222 | 218 | 914 | 210 | 9.99 475 | 475 | 475 | 474 | 474 | 9.78 457 | 459 | 462 | 464 | 467 | 36 | 24 |
| 36 | 24 | 9.98 868 | 097 | 126 | 154 | 183 | 210 | 200 | 902 | 198 | 194 | 474 | 474 | 473 | 473 | 472 | 467 | 469 | 472 | 474 | 477 | 32 | 23 |
| 37 | 28 | 183 | 211 | 240 | 269 | 297 | 194 | 190 | 106 | 102 | 178 | 472 | 472 | 472 | 471 | 471 | 477 | 479 | 482 | 484 | 487 | 28 | 22 |
| 38 | 32 | 297 | 326 | 354 | 383 | 411 | 178 | 174 | 170 | 166 | 152 | 471 | 471 | 470 | 470 | 470 | 487 | 490 | 492 | 495 | 497 | 94 | 21 |
| 39 | 36 | 411 | 440 | 468 | 497 | 525 | 102 | 158 | 154 | 151 | 147 | 470 | 469 | 469 | 469 | 468 | 497 | 500 | 502 | 505 | 507 | 9.20 | 20 |
| 40 | 58.40 | 8.08 525 | 553 | 502 | 610 | 539 | 9.09 147 | 143 | 139 | 135 | 131 | 9.99 468 | 468 | 460 | 467 | 467 | 9.78 507 | 510 | 519 | 515 | 517 | 16 | 19 |
| 41 | 44 | 639 | 667 | 696 | 724 | 752 | 131 | 197 | 123 | 119 | 115 | 467 | 467 | 466 | 466 | 465 | 517 | 520 | 529 | 525 | 528 | 12 | 18 |
| 42 | 48 | 752 | 781 | 809 | 037 | 066 | 115 | 111 | 107 | 103 | 099 | 465 | 465 | 465 | 464 | 464 | 528 | 530 | 533 | 535 | 530 | 8 | 17 |
| 43 | 52 | 866 | 894 | 922 | 951 | 979 | 099 | 095 | 091 | 087 | 003 | 464 | 464 | 463 | 463 | 463 | 530 | 540 | 543 | 545 | 548 | 4 | 16 |
| 44 | 56 | * 979 | 007 | 036 | 064 | 092 | 803 | 879 | 076 | 079 | 068 | 463 | 462 | 462 | 462 | 461 | 540 | 550 | 553 | 555 | 550 | 9. 0 | 15 |
| 45 | 51. 5 | 8.09 092 | 120 | 149 | 177 | 205 | 9.59 068 | 064 | 060 | 856 | 052 | 9.99 461 | 461 | 461 | 460 | 460 | 9.70 550 | 508 | 563 | 565 | 568 | 06 | 14 |
| 46 | 4 | 905 | 233 | 262 | 990 | 318 | 052 | 048 | 041 | 040 | 836 | 460 | 459 | 459 | 459 | 458 | 568 | 578 | 573 | 575 | 578 | 52 | 13 |
| 47 | 8 | 518 | 346 | 374 | 403 | 431 | 036 | 039 | 028 | 024 | 020 | 458 | 458 | 458 | 457 | 457 | 578 | 501 | 503 | 585 | 580 | 48 | 12 |
| 45 | 12 | 431 | 459 | 407 | 515 | 543 | 520 | 010 | 019 | 000 | 004 | 457 | 457 | 456 | 456 | 456 | 588 | 591 | 593 | 590 | 598 | 44 | 11 |
| 49 | 16 | 543 | 571 | 600 | 628 | 656 | * 004 | 800 | 996 | 992 | 988 | 456 | 455 | 455 | 455 | 454 | 598 | 601 | 603 | 686 | 608 | 8.40 | 18 |
| 50 | 51.28 | 8.09 656 | 684 | 712 | 740 | 768 | 9.58 988 | 985 | 901 | 977 | 973 | 9.99 454 | 454 | 453 | 452 | 453 | 2.78 608 | 611 | 613 | 616 | 618 | 36 | 9 |
| 51 | 24 | 768 | 796 | 024 | 052 | 080 | 973 | 969 | 985 | 961 | 957 | 453 | 452 | 452 | 452 | 451 | 618 | 621 | 623 | 626 | 628 | 32 | 8 |
| 59 | 28 | 880 | 900 | 936 | 964 | 999 | 957 | 953 | 949 | 940 | 941 | 451 | 451 | 451 | 460 | 450 | 628 | 631 | 633 | 636 | 638 | 20 | 7 |
| 53 | 32 | * 992 | 020 | 048 | 076 | 104 | 941 | 937 | 933 | 922 | 925 | 450 | 450 | 449 | 449 | 448 | 638 | 641 | 643 | 646 | 649 | 94 | 6 |
| 54 | 36 | 8.10 104 | 132 | 160 | 188 | 216 | 925 | 921 | 917 | 913 | 909 | 448 | 448 | 448 | 447 | 447 | 649 | 651 | 654 | 656 | 659 | 8.20 | 5 |
| 55 | 51.40 | 9.18 916 | 243 | 271 | 229 | 327 | 9.58 909 | 905 | 981 | 897 | 023 | 9.99 447 | 447 | 446 | 446 | 446 | 9.78 659 | 661 | 664 | 666 | 669 | 16 | 4 |
| 95 | 44 | 327 | 355 | 383 | 411 | 438 | 893 | 889 | 885 | 881 | 878 | 446 | 445 | 445 | 445 | 444 | 669 | 671 | 674 | 676 | 679 | 12 | 3 |
| 97 | 48 | 438 | 466 | 494 | 522 | 550 | 878 | 074 | 870 | 866 | 062 | 444 | 444 | 443 | 443 | 443 | 679 | 681 | 684 | 656 | 689 | 8 | 9 |
| 99 | 52 | 550 | 577 | 605 | 633 | 661 | 862 | 858 | 854 | 050 | 846 | 443 | 442 | 442 | 442 | 441 | 609 | 691 | 694 | 696 | 699 | 4 | 1 |
| 99 | 56 | 661 | 689 | 716 | 744 | 772 | 846 | 842 | 838 | 834 | 030 | 441 | 441 | 441 | 440 | 440 | 699 | 781 | 784 | 786 | 789 | 9. 0 | 0 |
| | | 4° 60" | 3° 45" | 9° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 9° 30" | 1° 15" | 0° 8" | 4° 60" | 3° 45" | 9° 30' | 1° 15" | 0° 0' | 4° 50" | 3° 48" | 2° 30" | 1° 15" | 0° 8" | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 11h | 167° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 5h | 77° |

TABLA XVI. **Logaritmos, Senos, Cosenos, Secantes y Cosecantes.**

| 13° | 0h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103° | 6h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 3 | 52. 0 | 9 35 209 | 222 | 236 | 250 | 263 | 9. 98 872 | 872 | 871 | 870 | 869 | 0. 01 128 | 128 | 129 | 130 | 131 | 0. 64 791 | 778 | 761 | 750 | 737 | 56 | 52 |
| 1 | 4 | 263 | 277 | 291 | 304 | 318 | 869 | 869 | 868 | 867 | 867 | 131 | 131 | 132 | 133 | 133 | 737 | 723 | 709 | 696 | 682 | 52 | 58 |
| 2 | 8 | 318 | 332 | 345 | 359 | 373 | 867 | 866 | 865 | 864 | 864 | 133 | 134 | 135 | 136 | 136 | 682 | 668 | 665 | 641 | 627 | 48 | 57 |
| 3 | 12 | 373 | 386 | 400 | 413 | 427 | 864 | 863 | 862 | 861 | 861 | 136 | 137 | 138 | 139 | 139 | 627 | 614 | 600 | 587 | 573 | 44 | 56 |
| 4 | 16 | 427 | 441 | 454 | 468 | 482 | 861 | 860 | 859 | 859 | 858 | 139 | 140 | 141 | 141 | 142 | 573 | 559 | 546 | 532 | 519 | 7. 40 | 55 |
| 5 | 52. 20 | 9. 35 482 | 495 | 509 | 522 | 536 | 9. 98 858 | 857 | 856 | 856 | 855 | 0. 01 142 | 143 | 144 | 144 | 145 | 0. 64 519 | 505 | 491 | 478 | 464 | 36 | 54 |
| 6 | 24 | 536 | 549 | 563 | 577 | 590 | 855 | 854 | 853 | 853 | 852 | 145 | 146 | 147 | 147 | 148 | 464 | 451 | 437 | 424 | 410 | 32 | 53 |
| 7 | 28 | 390 | 604 | 617 | 631 | 644 | 852 | 851 | 858 | 853 | 849 | 148 | 149 | 150 | 150 | 151 | 410 | 396 | 383 | 369 | 356 | 28 | 52 |
| 8 | 32 | 644 | 658 | 671 | 685 | 698 | 849 | 818 | 847 | 847 | 846 | 151 | 152 | 153 | 153 | 154 | 356 | 312 | 329 | 316 | 302 | 24 | 51 |
| 9 | 36 | 698 | 712 | 725 | 739 | 752 | 846 | 845 | 845 | 844 | 843 | 154 | 155 | 155 | 156 | 157 | 302 | 288 | 275 | 261 | 248 | 7. 20 | 50 |
| 10 | 52. 40 | 9. 35 752 | 766 | 779 | 793 | 806 | 9. 98 843 | 842 | 842 | 841 | 840 | 0. 01 157 | 158 | 158 | 159 | 160 | 0. 64 248 | 234 | 221 | 207 | 194 | 16 | 49 |
| 11 | 44 | 806 | 820 | 833 | 847 | 860 | 843 | 839 | 839 | 838 | 837 | 160 | 161 | 161 | 162 | 163 | 194 | 180 | 167 | 153 | 140 | 12 | 48 |
| 12 | 48 | 860 | 874 | 887 | 901 | 911 | 837 | 836 | 836 | 835 | 831 | 163 | 164 | 164 | 165 | 166 | 140 | 126 | 113 | 099 | 086 | 8 | 47 |
| 13 | 52 | 914 | 928 | 911 | 954 | 968 | 834 | 833 | 833 | 832 | 831 | 166 | 167 | 167 | 168 | 169 | 086 | 072 | 059 | 046 | 032 | 4 | 46 |
| 14 | 36 | * 968 | 981 | 995 | 008 | 022 | 831 | 830 | 830 | 829 | 828 | 162 | 170 | 178 | 171 | 172 | * 032 | 019 | 005 | 992 | 978 | 7. 3 | 45 |
| 16 | 53. 0 | 2. 36 022 | 035 | 048 | 062 | 075 | 9. 98 828 | 827 | 827 | 826 | 825 | 0. 01 172 | 173 | 173 | 174 | 175 | 0. 63 978 | 965 | 952 | 938 | 925 | 56 | 44 |
| 16 | 4 | 075 | 089 | 102 | 115 | 129 | 825 | 824 | 824 | 823 | 822 | 175 | 176 | 176 | 177 | 178 | 925 | 911 | 898 | 885 | 871 | 52 | 43 |
| 17 | 8 | 129 | 142 | 155 | 169 | 182 | 822 | 822 | 821 | 820 | 819 | 178 | 178 | 179 | 180 | 181 | 871 | 858 | 845 | 831 | 818 | 48 | 42 |
| 18 | 12 | 182 | 196 | 209 | 222 | 236 | 819 | 819 | 818 | 817 | 816 | 181 | 181 | 182 | 183 | 184 | 818 | 804 | 791 | 778 | 764 | 44 | 41 |
| 19 | 16 | 236 | 249 | 262 | 276 | 289 | 816 | 816 | 815 | 814 | 813 | 184 | 184 | 185 | 186 | 187 | 764 | 751 | 738 | 724 | 711 | 6 40 | 40 |
| 20 | 53. 20 | 2. 36 289 | 302 | 316 | 329 | 342 | 9. 98 813 | 813 | 812 | 811 | 810 | 0. 31 187 | 187 | 188 | 189 | 190 | 0. 63 711 | 698 | 684 | 671 | 658 | 36 | 39 |
| 21 | 24 | 342 | 355 | 369 | 382 | 395 | 810 | 810 | 809 | 808 | 807 | 190 | 190 | 191 | 192 | 193 | 658 | 645 | 631 | 618 | 625 | 32 | 38 |
| 22 | 28 | 395 | 409 | 422 | 435 | 449 | 807 | 807 | 806 | 805 | 804 | 123 | 193 | 194 | 195 | 196 | 605 | 591 | 578 | 565 | 551 | 28 | 37 |
| 23 | 32 | 449 | 462 | 475 | 488 | 502 | 804 | 801 | 803 | 802 | 801 | 196 | 196 | 197 | 198 | 199 | 351 | 538 | 525 | 512 | 498 | 24 | 36 |
| 24 | 36 | 502 | 515 | 528 | 541 | 555 | 801 | 801 | 800 | 799 | 798 | 199 | 199 | 200 | 201 | 202 | 498 | 485 | 472 | 459 | 445 | 6. 20 | 35 |
| 25 | 53. 40 | 9. 36 555 | 568 | 581 | 594 | 608 | 9. 98 798 | 798 | 797 | 796 | 795 | 0. 01 202 | 202 | 203 | 204 | 205 | 8. 63 445 | 432 | 419 | 406 | 393 | 16 | 34 |
| 26 | 44 | 608 | 621 | 634 | 647 | 660 | 795 | 795 | 794 | 793 | 792 | 205 | 205 | 206 | 207 | 208 | 393 | 379 | 366 | 353 | 340 | 12 | 33 |
| 27 | 48 | 660 | 674 | 687 | 703 | 713 | 792 | 721 | 791 | 790 | 789 | 208 | 209 | 209 | 210 | 211 | 340 | 326 | 313 | 300 | 287 | 8 | 32 |
| 28 | 32 | 713 | 726 | 740 | 753 | 766 | 789 | 788 | 788 | 787 | 786 | 211 | 212 | 212 | 213 | 214 | 287 | 274 | 260 | 247 | 234 | 4 | 31 |
| 29 | 36 | 766 | 779 | 792 | 805 | 819 | 786 | 785 | 785 | 784 | 783 | 214 | 215 | 215 | 216 | 217 | 234 | 221 | 208 | 195 | 181 | 6. 0 | 30 |
| 30 | 54. 0 | 2. 36 819 | 832 | 845 | 858 | 871 | 9. 98 783 | 782 | 782 | 781 | 780 | 0. 01 217 | 218 | 218 | 219 | 220 | 0. 63 181 | 168 | 155 | 142 | 129 | 56 | 22 |
| 31 | 4 | 871 | 884 | 897 | 911 | 924 | 780 | 779 | 779 | 778 | 777 | 220 | 221 | 221 | 222 | 223 | 129 | 116 | 103 | 089 | 076 | 32 | 28 |
| 32 | 8 | 924 | 937 | 950 | 963 | 976 | 777 | 776 | 776 | 775 | 774 | 223 | 224 | 224 | 225 | 226 | 076 | 063 | 050 | 037 | 024 | 48 | 27 |
| 33 | 12 | * 976 | 989 | 002 | 815 | 028 | 774 | 773 | 773 | 772 | 771 | 226 | 227 | 227 | 228 | 229 | * 024 | 011 | 998 | 985 | 972 | 44 | 26 |
| 34 | 16 | 9. 37 328 | 842 | 855 | 068 | 081 | 771 | 770 | 769 | 762 | 768 | 229 | 238 | 231 | 231 | 232 | 0. 62 972 | 958 | 945 | 932 | 919 | 5. 40 | 25 |
| 35 | 54. 20 | 9. 37 081 | 094 | 107 | 120 | 133 | 9. 98 768 | 767 | 766 | 766 | 765 | 0. 01 232 | 233 | 234 | 234 | 235 | 0. 62 919 | 906 | 893 | 880 | 867 | 36 | 24 |
| 36 | 24 | 133 | 146 | 159 | 172 | 185 | 765 | 764 | 763 | 763 | 762 | 235 | 236 | 237 | 237 | 238 | 867 | 854 | 841 | 828 | 815 | 32 | 23 |
| 37 | 28 | 185 | 198 | 211 | 224 | 237 | 762 | 761 | 760 | 760 | 759 | 238 | 239 | 240 | 240 | 241 | 815 | 802 | 789 | 776 | 763 | 28 | 22 |
| 38 | 32 | 237 | 250 | 263 | 276 | 289 | 759 | 758 | 757 | 756 | 756 | 241 | 242 | 243 | 241 | 244 | 763 | 750 | 737 | 724 | 711 | 24 | 21 |
| 39 | 36 | 289 | 302 | 315 | 328 | 341 | 756 | 755 | 754 | 753 | 753 | 244 | 245 | 246 | 247 | 247 | 711 | 698 | 685 | 672 | 659 | 6. 20 | 20 |
| 40 | 64. 40 | 9. 37 341 | 354 | 367 | 380 | 393 | 9. 98 753 | 752 | 751 | 750 | 750 | 0. 01 247 | 248 | 249 | 250 | 250 | 0. 62 659 | 646 | 633 | 620 | 607 | 16 | 12 |
| 41 | 44 | 393 | 406 | 419 | 432 | 445 | 750 | 749 | 748 | 747 | 746 | 250 | 251 | 252 | 253 | 254 | 607 | 594 | 581 | 568 | 555 | 12 | 13 |
| 42 | 48 | 445 | 458 | 471 | 484 | 497 | 746 | 746 | 745 | 744 | 743 | 251 | 254 | 255 | 256 | 257 | 355 | 542 | 529 | 516 | 503 | 8 | 17 |
| 43 | 32 | 497 | 510 | 523 | 536 | 549 | 743 | 743 | 742 | 741 | 740 | 257 | 257 | 258 | 259 | 260 | 503 | 490 | 477 | 464 | 451 | 4 | 16 |
| 44 | 36 | 549 | 562 | 575 | 687 | 600 | 740 | 740 | 739 | 738 | 737 | 260 | 260 | 261 | 262 | 263 | 451 | 438 | 425 | 413 | 400 | 6. 0 | 15 |
| 45 | 55. 0 | 9. 37 600 | 613 | 626 | 639 | 652 | 9. 98 737 | 736 | 736 | 735 | 731 | 0. 01 263 | 264 | 264 | 265 | 266 | 0. 62 400 | 387 | 374 | 361 | 348 | 66 | 14 |
| 46 | 4 | 652 | 665 | 678 | 691 | 703 | 734 | 733 | 733 | 732 | 731 | 260 | 267 | 267 | 268 | 269 | 348 | 335 | 322 | 309 | 297 | 62 | 13 |
| 47 | 8 | 703 | 716 | 729 | 742 | 755 | 731 | 730 | 729 | 729 | 728 | 269 | 273 | 271 | 271 | 272 | 297 | 284 | 271 | 258 | 245 | 48 | 12 |
| 48 | 22 | 755 | 768 | 781 | 793 | 886 | 728 | 727 | 726 | 726 | 725 | 272 | 273 | 274 | 274 | 275 | 246 | 232 | 219 | 207 | 194 | 44 | 11 |
| 49 | 16 | 806 | 819 | 832 | 845 | 858 | 725 | 724 | 723 | 722 | 722 | 275 | 276 | 277 | 278 | 278 | 191 | 181 | 168 | 155 | 142 | 4. 40 | 10 |
| 60 | 55. 20 | 9. 37 858 | 870 | 883 | 896 | 909 | 2. 98 722 | 721 | 720 | 719 | 719 | 3. 01 278 | 279 | 280 | 281 | 281 | 0. 62 142 | 130 | 117 | 104 | 891 | 36 | 9 |
| 61 | 24 | 909 | 922 | 935 | 947 | 960 | 719 | 718 | 717 | 716 | 715 | 281 | 282 | 283 | 284 | 285 | 091 | 078 | 065 | 053 | 040 | 32 | 8 |
| 52 | 28 | * 960 | 973 | 986 | 999 | 011 | 715 | 715 | 714 | 713 | 712 | 285 | 285 | 286 | 287 | 288 | * 040 | 027 | 014 | 001 | 989 | 28 | 7 |
| 63 | 32 | 9.38 011 | 024 | 037 | 050 | 062 | 712 | 712 | 711 | 710 | 709 | 288 | 288 | 289 | 290 | 291 | 0. 61 989 | 976 | 963 | 950 | 938 | 24 | 6 |
| 64 | 36 | 062 | 075 | 088 | 101 | 113 | 709 | 708 | 708 | 707 | 706 | 291 | 292 | 292 | 293 | 294 | 938 | 925 | 912 | 899 | 887 | 4. 20 | 5 |
| 55 | 55. 40 | 9. 38 113 | 126 | 139 | 152 | 164 | 2. 20 706 | 705 | 705 | 704 | 703 | 0. 31 294 | 295 | 295 | 296 | 297 | 0. 61 887 | 874 | 861 | 848 | 836 | 16 | 4 |
| 56 | 44 | 164 | 177 | 190 | 203 | 215 | 703 | 702 | 701 | 701 | 700 | 297 | 298 | 299 | 299 | 300 | 836 | 823 | 813 | 797 | 785 | 12 | 3 |
| 67 | 48 | 215 | 228 | 241 | 253 | 266 | 780 | 699 | 698 | 697 | 697 | 308 | 301 | 302 | 303 | 303 | 785 | 772 | 759 | 747 | 734 | 8 | 2 |
| 68 | 32 | 266 | 279 | 291 | 304 | 317 | 697 | 696 | 695 | 694 | 694 | 303 | 304 | 385 | 306 | 306 | 731 | 721 | 709 | 696 | 683 | 4 | 1 |
| 59 | 36 | 317 | 330 | 342 | 355 | 368 | 694 | 693 | 692 | 691 | 690 | 306 | 307 | 308 | 309 | 310 | 683 | 671 | 658 | 645 | 632 | 4. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 46″ | 2° 30″ | 1° 15″ | 0° 3″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 68″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 11h | 166° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 5h | 75° |

Digitized by Google

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 13° | 0h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103° | 6h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 52. 6 | 8.16 772 | 799 | 027 | 855 | 883 | 9.58 830 | 826 | 822 | 018 | 814 | 9.99 440 | 440 | 439 | 439 | 438 | 9.78 709 | 711 | 714 | 716 | 719 | 56 | 59 |
| 1 | 4 | 883 | 910 | 938 | 966 | 993 | 014 | 810 | 806 | 802 | 798 | 438 | 438 | 438 | 437 | 437 | 719 | 721 | 724 | 796 | 729 | 59 | 58 |
| 2 | 8 | * 993 | 021 | 048 | 076 | 104 | 798 | 794 | 790 | 786 | 782 | 437 | 437 | 436 | 436 | 436 | 729 | 731 | 734 | 736 | 739 | 48 | 57 |
| 3 | 12 | 8.11 104 | 131 | 159 | 187 | 914 | 782 | 778 | 774 | 770 | 766 | 436 | 435 | 435 | 434 | 434 | 739 | 742 | 744 | 747 | 749 | 44 | 56 |
| 4 | 16 | 214 | 242 | 269 | 297 | 324 | 766 | 762 | 758 | 754 | 750 | 434 | 434 | 433 | 433 | 433 | 749 | 752 | 754 | 757 | 759 | 7. 40 | 55 |
| 5 | 52. 20 | 8.11 324 | 352 | 379 | 407 | 434 | 9.58 750 | 746 | 742 | 739 | 735 | 9.99 433 | 439 | 432 | 432 | 431 | 9.78 759 | 762 | 761 | 767 | 769 | 36 | 54 |
| 6 | 24 | 434 | 462 | 489 | 517 | 544 | 735 | 731 | 727 | 723 | 719 | 431 | 431 | 430 | 430 | 430 | 769 | 772 | 774 | 777 | 779 | 39 | 53 |
| 7 | 28 | 544 | 572 | 599 | 627 | 654 | 719 | 715 | 711 | 707 | 703 | 430 | 429 | 499 | 429 | 198 | 779 | 782 | 781 | 787 | 709 | 28 | 52 |
| 8 | 32 | 654 | 689 | 709 | 736 | 764 | 703 | 699 | 695 | 691 | 687 | 428 | 428 | 498 | 427 | 427 | 789 | 799 | 794 | 797 | 799 | 24 | 51 |
| 9 | 36 | 764 | 791 | 819 | 846 | 873 | 687 | 683 | 679 | 675 | 671 | 427 | 496 | 426 | 426 | 425 | 799 | 802 | 804 | 807 | 809 | 7. 20 | 50 |
| 10 | 52. 40 | 8.11 873 | 901 | 928 | 955 | 983 | 9.58 671 | 667 | 663 | 659 | 655 | 9.99 425 | 425 | 425 | 494 | 424 | 9.78 809 | 812 | 814 | 817 | 819 | 16 | 49 |
| 11 | 44 | * 983 | 010 | 037 | 065 | 092 | 655 | 651 | 647 | 643 | 639 | 424 | 424 | 423 | 493 | 492 | 819 | 829 | 824 | 827 | 829 | 19 | 48 |
| 12 | 48 | 8.12 092 | 119 | 147 | 174 | 201 | 639 | 635 | 631 | 627 | 623 | 492 | 429 | 422 | 491 | 421 | 829 | 839 | 834 | 837 | 839 | 8 | 47 |
| 13 | 52 | 201 | 228 | 256 | 283 | 310 | 623 | 619 | 615 | 611 | 607 | 421 | 421 | 420 | 490 | 420 | 839 | 842 | 844 | 847 | 849 | 4 | 46 |
| 14 | 56 | 310 | 337 | 365 | 392 | 419 | 607 | 603 | 599 | 595 | 591 | 420 | 419 | 419 | 418 | 418 | 849 | 852 | 854 | 857 | 859 | 7. 0 | 45 |
| 15 | 53. 0 | 8.12 419 | 446 | 473 | 501 | 598 | 9.50 591 | 587 | 583 | 579 | 575 | 9.99 416 | 418 | 417 | 417 | 417 | 9.78 859 | 862 | 864 | 867 | 869 | 56 | 44 |
| 16 | 4 | 528 | 555 | 582 | 609 | 636 | 575 | 571 | 567 | 563 | 559 | 417 | 416 | 416 | 415 | 415 | 869 | 872 | 874 | 877 | 879 | 59 | 43 |
| 17 | 8 | 636 | 663 | 691 | 718 | 745 | 559 | 555 | 551 | 547 | 543 | 415 | 415 | 414 | 414 | 414 | 879 | 882 | 884 | 887 | 889 | 48 | 42 |
| 18 | 12 | 745 | 772 | 799 | 896 | 853 | 543 | 539 | 535 | 531 | 597 | 414 | 413 | 413 | 413 | 412 | 889 | 892 | 894 | 897 | 899 | 44 | 41 |
| 19 | 16 | 853 | 880 | 907 | 934 | 961 | 527 | 523 | 519 | 515 | 511 | 412 | 412 | 411 | 411 | 411 | 899 | 909 | 904 | 907 | 909 | 6. 40 | 40 |
| 20 | 53. 20 | * 961 | 988 | 015 | 042 | 069 | 9.58 511 | 507 | 503 | 499 | 495 | 9.99 411 | 410 | 410 | 410 | 409 | 9.78 909 | 912 | 914 | 917 | 919 | 36 | 39 |
| 21 | 24 | 8.13 069 | 096 | 193 | 150 | 177 | 495 | 491 | 487 | 483 | 479 | 409 | 409 | 408 | 408 | 408 | 919 | 992 | 924 | 997 | 999 | 39 | 38 |
| 22 | 28 | 177 | 204 | 231 | 958 | 285 | 479 | 475 | 471 | 467 | 463 | 408 | 407 | 407 | 407 | 406 | 929 | 932 | 934 | 937 | 939 | 28 | 37 |
| 23 | 32 | 285 | 312 | 339 | 366 | 392 | 463 | 459 | 455 | 451 | 447 | 406 | 406 | 406 | 405 | 405 | 939 | 942 | 944 | 947 | 949 | 24 | 36 |
| 24 | 36 | 392 | 419 | 446 | 473 | 500 | 447 | 443 | 439 | 435 | 431 | 405 | 404 | 404 | 404 | 403 | 949 | 952 | 954 | 957 | 959 | 6. 20 | 35 |
| 25 | 53. 40 | 8.13 500 | 527 | 554 | 580 | 607 | 9.58 431 | 427 | 423 | 419 | 415 | 9.99 403 | 403 | 403 | 409 | 402 | 9.78 959 | 962 | 964 | 967 | 969 | 16 | 34 |
| 26 | 44 | 607 | 634 | 661 | 608 | 714 | 415 | 411 | 407 | 403 | 399 | 409 | 401 | 401 | 401 | 400 | 969 | 972 | 974 | 977 | 979 | 19 | 33 |
| 27 | 48 | 714 | 741 | 768 | 795 | 821 | 399 | 395 | 391 | 387 | 383 | 400 | 400 | 400 | 399 | 399 | 979 | 982 | 984 | 987 | 989 | 8 | 32 |
| 28 | 59 | 891 | 848 | 875 | 902 | 928 | 383 | 379 | 375 | 371 | 367 | 399 | 398 | 398 | 398 | 397 | 989 | 992 | 994 | 997 | 999 | 4 | 31 |
| 29 | 56 | * 928 | 955 | 982 | 009 | 035 | 367 | 363 | 359 | 355 | 351 | 397 | 397 | 397 | 396 | 396 | * 999 | 002 | 001 | 006 | 009 | 6. 0 | 30 |
| 30 | 54. 0 | 8.14 035 | 062 | 089 | 115 | 142 | 9.58 351 | 347 | 343 | 339 | 335 | 9.99 396 | 395 | 395 | 395 | 394 | 9.79 009 | 011 | 014 | 016 | 019 | 56 | 29 |
| 31 | 4 | 142 | 169 | 195 | 922 | 948 | 335 | 331 | 327 | 323 | 319 | 394 | 394 | 394 | 393 | 393 | 019 | 021 | 024 | 026 | 029 | 59 | 28 |
| 32 | 8 | 248 | 975 | 302 | 398 | 355 | 319 | 315 | 311 | 307 | 303 | 393 | 392 | 392 | 399 | 391 | 029 | 031 | 834 | 036 | 039 | 48 | 27 |
| 33 | 12 | 355 | 381 | 408 | 434 | 461 | 303 | 299 | 995 | 291 | 267 | 391 | 391 | 391 | 390 | 390 | 039 | 041 | 044 | 046 | 049 | 44 | 26 |
| 34 | 16 | 461 | 488 | 514 | 541 | 567 | 287 | 283 | 279 | 275 | 271 | 390 | 389 | 389 | 389 | 388 | 049 | 051 | 054 | 056 | 059 | 5. 40 | 25 |
| 35 | 54. 20 | 8.14 567 | 594 | 620 | 647 | 673 | 9.58 271 | 267 | 263 | 959 | 255 | 9.99 388 | 388 | 388 | 387 | 387 | 9.79 059 | 061 | 061 | 066 | 069 | 36 | 24 |
| 36 | 24 | 673 | 700 | 726 | 753 | 779 | 255 | 251 | 247 | 243 | 239 | 387 | 386 | 366 | 366 | 365 | 069 | 071 | 074 | 076 | 079 | 32 | 23 |
| 37 | 28 | 779 | 806 | 832 | 850 | 885 | 239 | 235 | 931 | 227 | 993 | 385 | 385 | 385 | 384 | 384 | 079 | 081 | 084 | 086 | 089 | 28 | 22 |
| 30 | 32 | 885 | 911 | 936 | 964 | 990 | 223 | 219 | 915 | 211 | 207 | 384 | 383 | 383 | 383 | 382 | 089 | 091 | 094 | 096 | 098 | 24 | 21 |
| 39 | 36 | • 990 | 017 | 043 | 070 | 096 | 207 | 203 | 199 | 195 | 191 | 382 | 382 | 382 | 381 | 381 | 098 | 101 | 103 | 106 | 100 | 5. 20 | 20 |
| 40 | 54. 40 | 8.15 096 | 122 | 149 | 175 | 201 | 9.58 191 | 187 | 183 | 179 | 175 | 9.99 381 | 380 | 380 | 380 | 379 | 9.79 108 | 111 | 113 | 116 | 118 | 16 | 19 |
| 41 | 44 | 201 | 228 | 254 | 280 | 307 | 175 | 171 | 167 | 163 | 159 | 379 | 379 | 379 | 378 | 378 | 118 | 191 | 123 | 126 | 128 | 12 | 18 |
| 42 | 48 | 307 | 333 | 359 | 385 | 419 | 159 | 155 | 151 | 147 | 143 | 378 | 377 | 377 | 377 | 376 | 128 | 131 | 133 | 136 | 138 | 8 | 17 |
| 43 | 52 | 412 | 438 | 464 | 499 | 517 | 143 | 139 | 135 | 131 | 126 | 376 | 376 | 375 | 375 | 375 | 138 | 141 | 143 | 146 | 148 | 4 | 16 |
| 44 | 56 | 517 | 543 | 569 | 595 | 621 | 126 | 122 | 118 | 114 | 110 | 375 | 374 | 374 | 374 | 373 | 148 | 151 | 153 | 156 | 156 | 5. 0 | 15 |
| 45 | 55. 0 | 8.15 621 | 648 | 674 | 700 | 726 | 9.58 110 | 106 | 102 | 098 | 094 | 9.99 373 | 373 | 379 | 372 | 372 | 9.79 158 | 161 | 163 | 165 | 168 | 56 | 14 |
| 46 | 4 | 726 | 752 | 779 | 005 | 831 | 094 | 090 | 086 | 082 | 078 | 372 | 371 | 371 | 371 | 370 | 168 | 170 | 173 | 175 | 178 | 52 | 13 |
| 47 | 0 | 631 | 857 | 883 | 909 | 935 | 078 | 074 | 070 | 066 | 062 | 370 | 370 | 369 | 369 | 369 | 178 | 100 | 183 | 185 | 160 | 48 | 12 |
| 48 | 12 | * 935 | 961 | 987 | 013 | 040 | 062 | 058 | 054 | 050 | 046 | 369 | 360 | 368 | 367 | 367 | 188 | 190 | 193 | 195 | 198 | 44 | 11 |
| 49 | 16 | 8.16 040 | 066 | 092 | 110 | 144 | 046 | 042 | 038 | 034 | 030 | 367 | 367 | 366 | 366 | 366 | 198 | 900 | 903 | 905 | 208 | 4. 40 | 10 |
| 50 | 55. 20 | 8.16 144 | 170 | 196 | 222 | 248 | 9.58 030 | 026 | 022 | 010 | 014 | 9.99 366 | 365 | 365 | 364 | 364 | 9.79 208 | 210 | 213 | 915 | 217 | 36 | 9 |
| 51 | 24 | 248 | 974 | 300 | 326 | 352 | * 014 | 010 | 006 | 002 | 998 | 364 | 364 | 363 | 363 | 362 | 217 | 920 | 222 | 295 | 227 | 39 | 8 |
| 52 | 28 | 352 | 376 | 404 | 430 | 456 | 9.57 998 | 994 | 990 | 985 | 981 | 362 | 362 | 362 | 361 | 361 | 227 | 930 | 239 | 235 | 237 | 28 | 7 |
| 53 | 32 | 456 | 482 | 507 | 533 | 559 | 981 | 977 | 973 | 969 | 965 | 361 | 361 | 360 | 360 | 359 | 237 | 240 | 949 | 245 | 247 | 24 | 6 |
| 54 | 36 | 559 | 585 | 611 | 637 | 663 | 965 | 961 | 957 | 953 | 949 | 359 | 359 | 359 | 358 | 358 | 247 | 950 | 252 | 255 | 257 | 4. 20 | 5 |
| 55 | 55. 40 | 8.16 663 | 689 | 715 | 740 | 766 | 9.57 949 | 945 | 941 | 937 | 933 | 9.99 356 | 357 | 357 | 357 | 356 | 9.79 257 | 260 | 262 | 264 | 267 | 16 | 4 |
| 56 | 44 | 766 | 792 | 818 | 844 | 870 | 933 | 929 | 925 | 991 | 917 | 356 | 356 | 356 | 355 | 355 | 267 | 269 | 272 | 274 | 277 | 12 | 3 |
| 57 | 48 | 070 | 895 | 921 | 947 | 973 | 917 | 913 | 909 | 905 | 901 | 355 | 354 | 354 | 354 | 353 | 277 | 279 | 282 | 284 | 287 | 8 | 2 |
| 58 | 52 | • 973 | 999 | 024 | 050 | 076 | 901 | 897 | 893 | 089 | 885 | 353 | 353 | 352 | 352 | 359 | 207 | 289 | 292 | 294 | 997 | 4 | 1 |
| 59 | 56 | 8.17 076 | 102 | 127 | 153 | 179 | 885 | 861 | 876 | 072 | 868 | 352 | 351 | 351 | 351 | 350 | 297 | 299 | 301 | 304 | 306 | 4. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 11h | 166° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 5h | 76° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 14° | 0h | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104° | 6h | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | | |
| ' | m s | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 56. 9 | 9.38 | 368 | 380 | 393 | 405 | 418 | 9.98 | 690 | 690 | 689 | 689 | 687 | 0.91 | 310 | 310 | 311 | 312 | 313 | 9.61 | 632 | 629 | 607 | 595 | 582 | 56 | 59 |
| 1 | 4 | | 418 | 431 | 443 | 456 | 469 | | 687 | 686 | 686 | 686 | 684 | | 313 | 314 | 314 | 315 | 316 | | 582 | 569 | 557 | 044 | 631 | 52 | 58 |
| 2 | 8 | | 469 | 481 | 494 | 507 | 519 | | 684 | 683 | 683 | 682 | 681 | | 316 | 317 | 317 | 318 | 319 | | 531 | 519 | 506 | 493 | 481 | 48 | 57 |
| 3 | 12 | | 519 | 532 | 544 | 567 | 570 | | 081 | 680 | 679 | 679 | 678 | | 319 | 320 | 321 | 321 | 322 | | 481 | 468 | 456 | 443 | 430 | 44 | 56 |
| 4 | 16 | | 570 | 582 | 595 | 607 | 020 | | 678 | 677 | 076 | 675 | 675 | | 322 | 323 | 324 | 325 | 325 | | 430 | 418 | 405 | 323 | 380 | 3.40 | 55 |
| 5 | 56. 20 | 9.38 | 620 | 633 | 645 | 658 | 070 | 9.98 | 075 | 674 | 673 | 672 | 071 | 9.01 | 325 | 326 | 327 | 328 | 329 | 9.61 | 380 | 367 | 355 | 342 | 330 | 36 | 54 |
| 6 | 24 | | 670 | 683 | 690 | 708 | 721 | | 071 | 671 | 670 | 669 | 668 | | 329 | 329 | 330 | 331 | 332 | | 330 | 317 | 304 | 292 | 279 | 32 | 53 |
| 7 | 28 | | 721 | 733 | 746 | 758 | 771 | | 668 | 067 | 067 | 666 | 665 | | 332 | 333 | 333 | 334 | 335 | | 279 | 267 | 254 | 242 | 229 | 28 | 52 |
| 8 | 32 | | 771 | 783 | 796 | 808 | 821 | | 665 | 664 | 604 | 663 | 662 | | 335 | 336 | 336 | 337 | 338 | | 222 | 217 | 204 | 192 | 179 | 24 | 51 |
| 9 | 36 | | 821 | 834 | 846 | 859 | 871 | | 662 | 661 | 660 | 660 | 659 | | 338 | 339 | 340 | 340 | 341 | | 179 | 166 | 154 | 141 | 129 | 3.20 | 50 |
| 10 | 56. 40 | 9.38 | 871 | 884 | 896 | 909 | 921 | 9.98 | 659 | 658 | 657 | 056 | 656 | 0.51 | 341 | 342 | 343 | 344 | 344 | 0.61 | 129 | 110 | 104 | 091 | 079 | 16 | 49 |
| 11 | 44 | | 921 | 934 | 946 | 959 | 971 | | 650 | 655 | 654 | 653 | 652 | | 344 | 345 | 346 | 347 | 348 | | 079 | 060 | 054 | 041 | 029 | 12 | 48 |
| 12 | 48 | * | 971 | 984 | 996 | 008 | 021 | | 652 | 652 | 651 | 650 | 649 | | 348 | 348 | 349 | 350 | 351 | * | 029 | 016 | 001 | 992 | 979 | 8 | 47 |
| 13 | 52 | 9.39 | 921 | 033 | 046 | 058 | 071 | | 649 | 648 | 618 | 647 | 646 | | 351 | 352 | 352 | 353 | 354 | 5.60 | 979 | 967 | 954 | 942 | 929 | 4 | 46 |
| 14 | 56 | | 871 | 083 | 096 | 108 | 121 | | 646 | 645 | 644 | 644 | 643 | | 354 | 355 | 356 | 356 | 357 | | 929 | 917 | 904 | 892 | 579 | 3. 0 | 45 |
| 15 | 57. 0 | 9.39 | 121 | 133 | 145 | 158 | 170 | 2.98 | 043 | 642 | 641 | 640 | 640 | 8.01 | 357 | 358 | 359 | 360 | 360 | 5.60 | 879 | 807 | 855 | 842 | 830 | 56 | 44 |
| 16 | 4 | | 170 | 183 | 195 | 208 | 220 | | 610 | 639 | 638 | 637 | 636 | | 360 | 361 | 362 | 363 | 364 | | 830 | 817 | 805 | 792 | 780 | 52 | 43 |
| 17 | 8 | | 229 | 232 | 245 | 257 | 270 | | 636 | 635 | 635 | 634 | 533 | | 364 | 364 | 365 | 366 | 367 | | 780 | 768 | 755 | 743 | 738 | 48 | 42 |
| 18 | 12 | | 270 | 282 | 294 | 307 | 319 | | 633 | 832 | 631 | 831 | 630 | | 367 | 368 | 389 | 369 | 370 | | 730 | 718 | 706 | 693 | 081 | 44 | 41 |
| 19 | 16 | | 319 | 331 | 314 | 356 | 369 | | 630 | 629 | 628 | 827 | 627 | | 370 | 371 | 372 | 373 | 373 | | 631 | 869 | 056 | 644 | 831 | 2.40 | 40 |
| 20 | 57. 20 | 9.39 | 369 | 381 | 393 | 406 | 418 | 9.98 | 627 | 626 | 625 | 524 | 823 | 0.01 | 373 | 374 | 376 | 376 | 377 | 0.60 | 631 | 619 | 087 | 594 | 582 | 36 | 39 |
| 21 | 24 | | 418 | 430 | 443 | 455 | 467 | | 623 | 623 | 622 | 821 | 620 | | 377 | 377 | 370 | 379 | 380 | | 582 | 570 | 557 | 545 | 533 | 32 | 38 |
| 22 | 28 | | 467 | 480 | 492 | 504 | 517 | | 620 | 619 | 619 | 618 | 617 | | 380 | 391 | 381 | 382 | 383 | | 533 | 520 | 508 | 498 | 483 | 28 | 37 |
| 23 | 32 | | 517 | 529 | 541 | 634 | 566 | | 617 | 616 | 615 | 613 | 614 | | 383 | 384 | 385 | 385 | 386 | | 483 | 471 | 459 | 446 | 434 | 24 | 36 |
| 24 | 36 | | 566 | 578 | 590 | 603 | 615 | | 614 | 513 | 612 | 511 | 610 | | 386 | 387 | 388 | 389 | 390 | | 434 | 422 | 410 | 397 | 385 | 2.20 | 35 |
| 25 | 57. 40 | 9.39 | 615 | 627 | 640 | 652 | 864 | 2.99 | 610 | 610 | 609 | 608 | 807 | 9.91 | 390 | 390 | 391 | 392 | 393 | 5.60 | 385 | 373 | 360 | 348 | 336 | 16 | 34 |
| 26 | 44 | | 664 | 678 | 699 | 701 | 713 | | 687 | 608 | 606 | 605 | 684 | | 393 | 394 | 394 | 395 | 396 | | 336 | 324 | 311 | 299 | 287 | 12 | 33 |
| 27 | 48 | | 713 | 725 | 738 | 750 | 762 | | 604 | 683 | 602 | 602 | 601 | | 396 | 397 | 398 | 398 | 399 | | 287 | 275 | 262 | 250 | 238 | 9 | 32 |
| 28 | 52 | | 762 | 774 | 787 | 799 | 911 | | 601 | 680 | 699 | 598 | 597 | | 399 | 400 | 401 | 402 | 403 | | 238 | 226 | 213 | 201 | 182 | 4 | 31 |
| 29 | 56 | | 811 | 923 | 936 | 848 | 860 | | 597 | 597 | 696 | 595 | 594 | | 403 | 403 | 404 | 405 | 406 | | 189 | 177 | 164 | 152 | 140 | 2. 5 | 30 |
| 30 | 58. 8 | 9.39 | 860 | 872 | 884 | 897 | 909 | 9.98 | 594 | 593 | 593 | 592 | 591 | 5.81 | 406 | 407 | 407 | 408 | 489 | 5.58 | 140 | 128 | 116 | 103 | 091 | 56 | 29 |
| 31 | 4 | | 909 | 921 | 933 | 945 | 958 | | 591 | 590 | 689 | 588 | 588 | | 409 | 410 | 411 | 412 | 412 | | 891 | 079 | 087 | 855 | 042 | 52 | 28 |
| 32 | 8 | * | 959 | 979 | 982 | 994 | 006 | | 588 | 587 | 585 | 585 | 584 | | 412 | 413 | 414 | 415 | 416 | * | 842 | 039 | 015 | 806 | 994 | 48 | 27 |
| 33 | 12 | 9.49 | 006 | 018 | 031 | 043 | 055 | | 584 | 584 | 583 | 582 | 581 | | 416 | 416 | 417 | 418 | 419 | 0.59 | 994 | 992 | 969 | 957 | 945 | 44 | 26 |
| 34 | 16 | | 955 | 987 | 579 | 091 | 193 | | 581 | 580 | 572 | 579 | 578 | | 419 | 420 | 421 | 421 | 422 | | 945 | 933 | 221 | 909 | 897 | 1.40 | 25 |
| 35 | 58. 20 | 9.40 | 103 | 116 | 128 | 140 | 152 | 9.99 | 578 | 577 | 578 | 575 | 574 | 5.51 | 422 | 423 | 424 | 425 | 426 | 9.59 | 897 | 884 | 572 | 860 | 848 | 36 | 24 |
| 36 | 24 | | 162 | 164 | 176 | 188 | 200 | | 574 | 574 | 573 | 572 | 571 | | 426 | 420 | 427 | 428 | 429 | | 848 | 835 | 924 | 812 | 800 | 32 | 23 |
| 37 | 28 | | 200 | 213 | 225 | 237 | 249 | | 571 | 570 | 578 | 569 | 568 | | 429 | 430 | 430 | 431 | 432 | | 500 | 787 | 775 | 763 | 751 | 28 | 22 |
| 38 | 32 | | 219 | 261 | 273 | 285 | 297 | | 568 | 557 | 566 | 563 | 565 | | 432 | 433 | 434 | 435 | 435 | | 751 | 739 | 727 | 715 | 703 | 24 | 21 |
| 39 | 36 | | 297 | 309 | 321 | 333 | 346 | | 565 | 564 | 063 | 562 | 561 | | 435 | 436 | 437 | 438 | 439 | | 703 | 691 | 572 | 867 | 854 | 1.20 | 20 |
| 40 | 58. 40 | 9.49 | 346 | 358 | 370 | 382 | 394 | 9.99 | 561 | 660 | 569 | 559 | 558 | 5.01 | 439 | 440 | 440 | 441 | 442 | 0.59 | 554 | 842 | 638 | 818 | 606 | 16 | 19 |
| 41 | 44 | | 394 | 406 | 418 | 430 | 442 | | 558 | 557 | 556 | 656 | 005 | | 442 | 443 | 444 | 444 | 445 | | 606 | 594 | 592 | 570 | 558 | 12 | 18 |
| 42 | 48 | | 442 | 454 | 486 | 478 | 491 | | 555 | 554 | 553 | 552 | 551 | | 445 | 445 | 447 | 448 | 449 | | 558 | 546 | 534 | 522 | 510 | 8 | 17 |
| 43 | 52 | | 490 | 502 | 514 | 526 | 538 | | 551 | 551 | 550 | 549 | 548 | | 449 | 449 | 450 | 451 | 452 | | 510 | 498 | 488 | 474 | 462 | 4 | 16 |
| 44 | 56 | | 535 | 530 | 562 | 574 | 586 | | 548 | 547 | 546 | 546 | 545 | | 452 | 463 | 454 | 454 | 455 | | 462 | 460 | 439 | 426 | 414 | 1. 8 | 15 |
| 45 | 59. 8 | 9.40 | 588 | 598 | 610 | 622 | 634 | 9.98 | 045 | 544 | 543 | 542 | 541 | 5.01 | 455 | 450 | 457 | 450 | 459 | 9.59 | 414 | 402 | 390 | 378 | 386 | 56 | 14 |
| 46 | 4 | | 534 | 646 | 658 | 670 | 692 | | 541 | 541 | 540 | 539 | 538 | | 452 | 459 | 460 | 461 | 462 | | 365 | 354 | 342 | 330 | 318 | 52 | 13 |
| 47 | 8 | | 582 | 694 | 706 | 718 | 730 | | 538 | 537 | 535 | 536 | 535 | | 462 | 463 | 464 | 464 | 465 | | 318 | 308 | 294 | 282 | 270 | 48 | 12 |
| 48 | 12 | | 730 | 742 | 754 | 766 | 778 | | 536 | 534 | 533 | 532 | 531 | | 465 | 466 | 467 | 468 | 469 | | 270 | 258 | 246 | 234 | 222 | 44 | 11 |
| 49 | 16 | | 778 | 799 | 592 | 813 | 825 | | 531 | 531 | 538 | 529 | 528 | | 469 | 469 | 470 | 471 | 472 | | 222 | 218 | 190 | 187 | 175 | 5.40 | 10 |
| 50 | 59. 20 | 9.48 | 823 | 937 | 919 | 881 | 873 | 9.90 | 520 | 527 | 526 | 528 | 525 | 5.01 | 472 | 473 | 474 | 474 | 475 | 9.59 | 175 | 163 | 151 | 139 | 127 | 36 | 9 |
| 51 | 24 | | 873 | 885 | 897 | 909 | 921 | | 523 | 524 | 523 | 522 | 521 | | 475 | 476 | 477 | 478 | 479 | | 127 | 110 | 103 | 091 | 079 | 32 | 8 |
| 52 | 28 | | 921 | 233 | 944 | 956 | 968 | | 521 | 529 | 528 | 519 | 518 | | 479 | 480 | 480 | 481 | 482 | | 079 | 867 | 855 | 044 | 032 | 28 | 7 |
| 53 | 32 | * | 968 | 980 | 992 | 804 | 016 | | 519 | 517 | 516 | 516 | 515 | | 482 | 483 | 484 | 484 | 485 | * | 832 | 020 | 008 | 996 | 984 | 24 | 6 |
| 54 | 36 | 9.41 | 016 | 829 | 939 | 051 | 063 | | 515 | 514 | 513 | 512 | 511 | | 485 | 486 | 487 | 488 | 489 | 0.58 | 984 | 972 | 981 | 949 | 937 | 0.20 | 5 |
| 55 | 59. 40 | 2.41 | 063 | 075 | 007 | 999 | 111 | 9.95 | 511 | 510 | 519 | 589 | 508 | 8.01 | 482 | 490 | 490 | 491 | 492 | 0.58 | 937 | 925 | 913 | 901 | 889 | 16 | 4 |
| 56 | 44 | | 111 | 122 | 134 | 146 | 158 | | 508 | 507 | 596 | 505 | 505 | | 492 | 493 | 494 | 495 | 495 | | 809 | 878 | 866 | 854 | 842 | 12 | 3 |
| 57 | 48 | | 159 | 175 | 182 | 193 | 285 | | 505 | 504 | 503 | 502 | 501 | | 495 | 496 | 427 | 498 | 499 | | 842 | 839 | 518 | 807 | 795 | 8 | 2 |
| 58 | 52 | | 205 | 217 | 229 | 241 | 252 | | 601 | 500 | 499 | 499 | 498 | | 492 | 500 | 501 | 501 | 502 | | 795 | 783 | 771 | 759 | 745 | 4 | 1 |
| 59 | 56 | | 252 | 264 | 276 | 288 | 300 | | 498 | 497 | 495 | 495 | 494 | | 502 | 503 | 504 | 505 | 606 | | 748 | 736 | 724 | 712 | 700 | 0. 0 | 0 |
| | | 4° 60" | | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | | 3° 45" | 2° 35" | 1° 15" | 0° 0" | 4° 60" | | 3° 45" | 2° 38" | 1° 16" | 0° 0" | 4° 60" | | 3° 45" | 2° 30" | 1° 15" | 0° 5" | m s | ' |
| | | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | 11h | 165° |
| | | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | 5h | 75° |

**Tabla XVI.** Logaritmos Versos, Coversos, Sobversos y Subcoversos.

| 14° | 0h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 104° | 6h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 36. 0 | 8.17 | 179 | 205 | 230 | 256 | 282 | 9.57 | 868 | 864 | 860 | 856 | 852 | 9.99 | 350 | 350 | 349 | 349 | 349 | 9.79 | 306 | 309 | 311 | 314 | 318 | 56 | 39 |
| 1 | 4 | | 282 | 307 | 333 | 352 | 384 | | 852 | 848 | 844 | 840 | 836 | | 349 | 348 | 348 | 347 | 347 | | 316 | 319 | 321 | 324 | 326 | 52 | 58 |
| 2 | 8 | | 384 | 410 | 436 | 462 | 487 | | 836 | 832 | 828 | 824 | 820 | | 347 | 347 | 346 | 346 | 345 | | 326 | 329 | 331 | 334 | 336 | 48 | 37 |
| 3 | 12 | | 487 | 513 | 538 | 564 | 589 | | 820 | 816 | 812 | 808 | 804 | | 315 | 345 | 345 | 344 | 344 | | 336 | 338 | 311 | 343 | 346 | 44 | 36 |
| 4 | 16 | | 589 | 615 | 641 | 666 | 692 | | 804 | 800 | 796 | 792 | 787 | | 344 | 344 | 343 | 343 | 342 | | 316 | 318 | 351 | 353 | 356 | 3. 40 | 55 |
| 5 | 55. 20 | 8.17 | 692 | 717 | 743 | 768 | 794 | 9.57 | 787 | 783 | 779 | 775 | 771 | 9.99 | 342 | 342 | 342 | 341 | 341 | 9.79 | 356 | 358 | 361 | 363 | 366 | 36 | 54 |
| 6 | 21 | | 794 | 820 | 845 | 871 | 896 | | 771 | 767 | 763 | 759 | 755 | | 341 | 340 | 340 | 340 | 339 | | 366 | 368 | 371 | 373 | 375 | 32 | 53 |
| 7 | 28 | | 896 | 922 | 917 | 973 | 998 | | 755 | 751 | 747 | 743 | 739 | | 339 | 339 | 338 | 338 | 338 | | 375 | 378 | 380 | 383 | 385 | 28 | 52 |
| 8 | 32 | * | 998 | 024 | 049 | 074 | 100 | | 739 | 735 | 731 | 727 | 723 | | 338 | 337 | 337 | 336 | 336 | | 385 | 388 | 390 | 393 | 395 | 24 | 31 |
| 9 | 36 | 8.13 | 100 | 125 | 151 | 176 | 202 | | 723 | 719 | 715 | 711 | 706 | | 336 | 336 | 335 | 335 | 335 | | 395 | 398 | 400 | 403 | 405 | 3. 20 | 30 |
| 10 | 56. 40 | 8.18 | 202 | 227 | 252 | 278 | 303 | 9.57 | 706 | 702 | 698 | 694 | 690 | 9.92 | 335 | 334 | 334 | 333 | 333 | 9.79 | 403 | 407 | 410 | 412 | 415 | 16 | 49 |
| 11 | 44 | | 303 | 329 | 354 | 372 | 405 | | 690 | 686 | 682 | 678 | 674 | | 333 | 333 | 332 | 332 | 331 | | 415 | 417 | 420 | 422 | 425 | 12 | 48 |
| 12 | 48 | | 405 | 430 | 455 | 481 | 506 | | 674 | 670 | 666 | 662 | 658 | | 331 | 331 | 331 | 330 | 330 | | 425 | 427 | 430 | 432 | 434 | 8 | 47 |
| 13 | 52 | | 506 | 531 | 557 | 582 | 607 | | 658 | 654 | 650 | 646 | 642 | | 330 | 329 | 329 | 329 | 328 | | 434 | 437 | 439 | 442 | 444 | 4 | 43 |
| 14 | 56 | | 607 | 633 | 658 | 683 | 708 | | 642 | 637 | 633 | 629 | 625 | | 328 | 328 | 327 | 327 | 327 | | 444 | 447 | 449 | 452 | 454 | 3. 0 | 45 |
| 15 | 57. 0 | 8.18 | 708 | 734 | 752 | 784 | 809 | 9.57 | 625 | 621 | 617 | 613 | 609 | 9.99 | 327 | 326 | 326 | 325 | 325 | 9.79 | 454 | 457 | 459 | 462 | 464 | 56 | 44 |
| 16 | 4 | | 809 | 835 | 860 | 885 | 910 | | 609 | 605 | 601 | 597 | 593 | | 325 | 325 | 324 | 324 | 323 | | 464 | 466 | 469 | 471 | 474 | 52 | 43 |
| 17 | 8 | * | 910 | 936 | 961 | 986 | 011 | | 593 | 589 | 585 | 581 | 577 | | 323 | 323 | 323 | 322 | 322 | | 474 | 476 | 479 | 481 | 484 | 48 | 42 |
| 18 | 12 | 8.19 | 011 | 036 | 061 | 087 | 112 | | 377 | 572 | 568 | 564 | 560 | | 322 | 322 | 321 | 321 | 320 | | 484 | 486 | 482 | 491 | 493 | 44 | 41 |
| 19 | 16 | | 112 | 137 | 162 | 187 | 212 | | 560 | 556 | 552 | 548 | 544 | | 320 | 320 | 320 | 319 | 319 | | 493 | 496 | 498 | 501 | 503 | 2. 40 | 40 |
| 20 | 57. 20 | 8.19 | 212 | 237 | 263 | 288 | 313 | 9.37 | 544 | 540 | 536 | 532 | 528 | 9.29 | 319 | 318 | 318 | 318 | 317 | 9.79 | 503 | 506 | 508 | 511 | 513 | 36 | 39 |
| 21 | 24 | | 313 | 338 | 363 | 388 | 413 | | 528 | 524 | 520 | 516 | 511 | | 317 | 317 | 316 | 316 | 316 | | 513 | 515 | 518 | 520 | 523 | 32 | 38 |
| 22 | 28 | | 413 | 438 | 463 | 488 | 513 | | 311 | 507 | 503 | 499 | 495 | | 316 | 315 | 315 | 314 | 314 | | 523 | 525 | 528 | 530 | 533 | 28 | 37 |
| 23 | 32 | | 613 | 338 | 563 | 388 | 613 | | 495 | 421 | 487 | 483 | 479 | | 314 | 314 | 312 | 313 | 312 | | 633 | 535 | 538 | 540 | 542 | 24 | 36 |
| 24 | 36 | | 613 | 638 | 363 | 688 | 713 | | 479 | 475 | 471 | 467 | 463 | | 312 | 312 | 312 | 311 | 311 | | 542 | 545 | 547 | 330 | 552 | 2. 20 | 35 |
| 25 | 57. 40 | 8.19 | 713 | 738 | 763 | 788 | 813 | 3.57 | 463 | 459 | 451 | 430 | 446 | 9.99 | 311 | 310 | 310 | 310 | 309 | 9.79 | 552 | 553 | 557 | 560 | 562 | 16 | 34 |
| 26 | 44 | | 813 | 838 | 863 | 888 | 913 | | 446 | 442 | 438 | 434 | 430 | | 309 | 309 | 308 | 308 | 308 | | 562 | 564 | 567 | 569 | 572 | 12 | 33 |
| 27 | 48 | * | 913 | 938 | 963 | 987 | 012 | | 430 | 426 | 422 | 418 | 414 | | 308 | 307 | 307 | 306 | 306 | | 672 | 574 | 577 | 572 | 582 | 8 | 32 |
| 28 | 32 | 8.20 | 012 | 037 | 062 | 087 | 112 | | 414 | 410 | 406 | 402 | 397 | | 306 | 306 | 305 | 305 | 304 | | 582 | 584 | 587 | 582 | 591 | 4 | 31 |
| 29 | 56 | | 112 | 137 | 161 | 186 | 211 | | 397 | 393 | 389 | 385 | 381 | | 304 | 304 | 304 | 303 | 303 | | 591 | 594 | 596 | 599 | 601 | 2. 0 | 30 |
| 30 | 58. 0 | 8.20 | 211 | 236 | 261 | 286 | 310 | 9.37 | 381 | 377 | 373 | 369 | 365 | 9.99 | 303 | 302 | 302 | 302 | 301 | 2.79 | 601 | 604 | 606 | 609 | 611 | 66 | 29 |
| 31 | 4 | | 310 | 335 | 360 | 385 | 410 | | 365 | 361 | 357 | 353 | 348 | | 301 | 301 | 300 | 300 | 300 | | 611 | 613 | 616 | 618 | 621 | 62 | 28 |
| 32 | 8 | | 410 | 434 | 452 | 481 | 509 | | 348 | 341 | 340 | 336 | 332 | | 300 | 299 | 299 | 298 | 298 | | 621 | 623 | 626 | 628 | 631 | 48 | 27 |
| 33 | 12 | | 509 | 533 | 558 | 583 | 607 | | 332 | 328 | 324 | 320 | 316 | | 228 | 228 | 297 | 297 | 296 | | 631 | 633 | 635 | 638 | 640 | 44 | 26 |
| 34 | 16 | | 607 | 632 | 657 | 682 | 706 | | 313 | 312 | 308 | 304 | 299 | | 296 | 296 | 226 | 295 | 295 | | 640 | 643 | 645 | 648 | 650 | 1. 40 | 25 |
| 35 | 58. 20 | 8.20 | 706 | 731 | 756 | 780 | 805 | 9.57 | 299 | 295 | 291 | 287 | 283 | 9.99 | 295 | 294 | 294 | 293 | 223 | 9.79 | 650 | 653 | 655 | 657 | 660 | 36 | 24 |
| 36 | 21 | | 805 | 838 | 854 | 879 | 903 | | 283 | 279 | 275 | 271 | 267 | | 293 | 293 | 292 | 292 | 291 | | 660 | 662 | 665 | 667 | 670 | 32 | 23 |
| 37 | 28 | * | 903 | 928 | 953 | 977 | 002 | | 267 | 263 | 259 | 255 | 250 | | 291 | 291 | 291 | 290 | 290 | | 670 | 672 | 674 | 677 | 679 | 28 | 22 |
| 38 | 32 | 8.21 | 002 | 026 | 051 | 076 | 100 | | 250 | 246 | 242 | 238 | 234 | | 290 | 289 | 289 | 289 | 288 | | 679 | 682 | 684 | 687 | 689 | 24 | 21 |
| 39 | 36 | | 100 | 124 | 149 | 174 | 198 | | 234 | 230 | 226 | 222 | 218 | | 288 | 288 | 287 | 287 | 287 | | 689 | 692 | 694 | 696 | 699 | 1. 20 | 20 |
| 40 | 58. 40 | 8.21 | 198 | 223 | 248 | 272 | 297 | 9.57 | 218 | 214 | 210 | 205 | 201 | 9.99 | 287 | 286 | 286 | 285 | 285 | 9.79 | 699 | 701 | 704 | 706 | 709 | 16 | 19 |
| 41 | 44 | | 297 | 321 | 346 | 370 | 395 | | 201 | 197 | 193 | 189 | 185 | | 285 | 285 | 284 | 284 | 283 | | 709 | 711 | 713 | 716 | 718 | 12 | 18 |
| 42 | 48 | | 395 | 419 | 444 | 468 | 492 | | 185 | 181 | 177 | 173 | 169 | | 283 | 283 | 283 | 282 | 282 | | 716 | 721 | 723 | 726 | 728 | 8 | 17 |
| 43 | 62 | | 492 | 518 | 511 | 566 | 590 | | 169 | 164 | 160 | 156 | 152 | | 282 | 281 | 281 | 280 | 280 | | 728 | 731 | 733 | 735 | 738 | 4 | 16 |
| 44 | 56 | | 590 | 615 | 639 | 663 | 688 | | 152 | 148 | 144 | 140 | 136 | | 280 | 280 | 279 | 279 | 278 | | 738 | 740 | 743 | 745 | 748 | 1. 0 | 13 |
| 45 | 59. 0 | 8.21 | 688 | 712 | 737 | 761 | 785 | 9.57 | 136 | 132 | 128 | 124 | 119 | 2.99 | 278 | 278 | 278 | 277 | 277 | 9.79 | 748 | 750 | 752 | 755 | 757 | 66 | 14 |
| 46 | 4 | | 785 | 810 | 834 | 859 | 883 | | 119 | 115 | 111 | 107 | 103 | | 277 | 276 | 276 | 276 | 275 | | 767 | 760 | 762 | 765 | 767 | 32 | 13 |
| 47 | 8 | | 883 | 907 | 932 | 956 | 980 | | 103 | 099 | 095 | 091 | 087 | | 275 | 275 | 274 | 274 | 274 | | 767 | 769 | 772 | 774 | 777 | 48 | 12 |
| 48 | 12 | * | 980 | 004 | 022 | 053 | 077 | | 087 | 083 | 078 | 074 | 070 | | 274 | 273 | 273 | 272 | 272 | | 777 | 779 | 782 | 784 | 787 | 44 | 11 |
| 49 | 16 | 8.22 | 077 | 102 | 126 | 150 | 175 | | 070 | 066 | 062 | 058 | 054 | | 272 | 271 | 271 | 271 | 270 | | 787 | 789 | 791 | 794 | 796 | 0.40 | 10 |
| 50 | 59. 20 | 8.22 | 175 | 192 | 223 | 247 | 272 | 9.67 | 054 | 060 | 046 | 042 | 037 | 9.99 | 270 | 270 | 269 | 269 | 269 | 9.79 | 796 | 799 | 801 | 803 | 806 | 36 | 9 |
| 31 | 24 | | 272 | 226 | 320 | 344 | 368 | | 037 | 033 | 029 | 025 | 021 | | 269 | 268 | 268 | 267 | 267 | | 806 | 808 | 811 | 813 | 816 | 32 | 8 |
| 52 | 28 | | 368 | 393 | 417 | 441 | 465 | | 021 | 017 | 013 | 009 | 005 | | 267 | 267 | 266 | 266 | 265 | | 813 | 818 | 821 | 823 | 825 | 28 | 7 |
| 33 | 32 | | 465 | 489 | 513 | 538 | 562 | * | 003 | 000 | 996 | 992 | 988 | | 265 | 265 | 264 | 264 | 264 | | 825 | 828 | 830 | 833 | 835 | 24 | 6 |
| 54 | 36 | | 562 | 586 | 610 | 634 | 658 | 9.56 | 988 | 984 | 980 | 976 | 972 | | 264 | 263 | 263 | 262 | 262 | | 835 | 838 | 840 | 842 | 845 | 0.20 | 5 |
| 35 | 59. 40 | 8.22 | 658 | 682 | 707 | 731 | 755 | 9.56 | 972 | 968 | 963 | 959 | 955 | 9.99 | 262 | 262 | 261 | 261 | 260 | 9.79 | 845 | 847 | 850 | 852 | 853 | 16 | 4 |
| 56 | 44 | | 755 | 779 | 803 | 827 | 851 | | 965 | 951 | 947 | 943 | 939 | | 260 | 260 | 260 | 259 | 259 | | 855 | 857 | 859 | 862 | 864 | 12 | 3 |
| 37 | 48 | | 851 | 875 | 899 | 923 | 947 | | 939 | 935 | 931 | 926 | 922 | | 259 | 258 | 258 | 257 | 257 | | 864 | 867 | 869 | 871 | 874 | 8 | 2 |
| 38 | 52 | * | 947 | 971 | 995 | 019 | 044 | | 922 | 918 | 914 | 910 | 906 | * | 257 | 257 | 256 | 253 | 255 | | 874 | 876 | 879 | 881 | 884 | 4 | 1 |
| 32 | 56 | 8.23 | 044 | 068 | 092 | 116 | 140 | | 906 | 902 | 898 | 894 | 889 | | 256 | 255 | 255 | 254 | 254 | | 884 | 886 | 888 | 891 | 893 | 0. 0 | 0 |
| | | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 11h | 165° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 5h | 75° |

TABLA XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 15° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 36″ 2° | 45″ 3° | 50″ 4° | 0″ 6° | 15″ 1° | 30′ 2° | 45″ 3° | 60′ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 6° | 00″ 4° | | |
| 0 | 0. 0 | 9.41 600 | 311 | 323 | 635 | 347 | 9.98 494 | 494 | 493 | 492 | 491 | 6.61 506 | 506 | 507 | 008 | 509 | 6.68 700 | 869 | 677 | 665 | 603 | 56 | 02 |
| 1 | 4 | 347 | 359 | 370 | 382 | 394 | 491 | 490 | 489 | 488 | 488 | 009 | 510 | 511 | 512 | 012 | 653 | 841 | 030 | 018 | 006 | 02 | 06 |
| 2 | 8 | 394 | 406 | 417 | 429 | 441 | 488 | 487 | 486 | 485 | 484 | 612 | 513 | 514 | 015 | 516 | 608 | 094 | 583 | 571 | 552 | 48 | 07 |
| 3 | 12 | 441 | 453 | 164 | 476 | 488 | 484 | 483 | 483 | 482 | 481 | 616 | 517 | 517 | 518 | 519 | 659 | 547 | 535 | 524 | 512 | 44 | 08 |
| 4 | 16 | 488 | 500 | 511 | 523 | 535 | 481 | 480 | 479 | 478 | 477 | 619 | 520 | 521 | 522 | 823 | 612 | 500 | 489 | 477 | 465 | 52. 40 | 65 |
| 6 | 0. 20 | 2.41 635 | 546 | 558 | 570 | 582 | 9.96 477 | 477 | 476 | 470 | 474 | 0.61 823 | 523 | 524 | 525 | 826 | 6.66 465 | 454 | 442 | 430 | 418 | 66 | 04 |
| 0 | 24 | 582 | 593 | 605 | 617 | 628 | 474 | 473 | 472 | 471 | 471 | 026 | 527 | 528 | 529 | 529 | 418 | 407 | 395 | 383 | 372 | 32 | 06 |
| 7 | 28 | 628 | 640 | 652 | 663 | 675 | 471 | 476 | 469 | 468 | 467 | 629 | 530 | 531 | 532 | 533 | 372 | 360 | 348 | 337 | 325 | 28 | 02 |
| 8 | 32 | 670 | 687 | 698 | 710 | 722 | 467 | 466 | 465 | 465 | 464 | 633 | 534 | 535 | 535 | 530 | 625 | 316 | 302 | 290 | 278 | 24 | 01 |
| 2 | 36 | 722 | 733 | 745 | 757 | 768 | 464 | 463 | 462 | 461 | 460 | 038 | 537 | 538 | 539 | 040 | 278 | 267 | 255 | 243 | 232 | 02. 20 | 60 |
| 10 | 0. 40 | 2.41 768 | 780 | 792 | 803 | 815 | 2.98 460 | 459 | 459 | 458 | 457 | 0.01 040 | 541 | 541 | 542 | 543 | 6.58 232 | 220 | 208 | 127 | 185 | 16 | 49 |
| 11 | 44 | 815 | 827 | 838 | 850 | 861 | 457 | 456 | 455 | 454 | 454 | 643 | 844 | 545 | 546 | 546 | 185 | 173 | 162 | 150 | 139 | 12 | 48 |
| 12 | 48 | 861 | 873 | 885 | 896 | 908 | 454 | 453 | 452 | 451 | 450 | 640 | 547 | 548 | 649 | 850 | 139 | 127 | 115 | 104 | 092 | 8 | 47 |
| 13 | 52 | 908 | 920 | 931 | 943 | 954 | 450 | 449 | 448 | 447 | 447 | 850 | 551 | 552 | 553 | 553 | 692 | 060 | 069 | 007 | 046 | 4 | 46 |
| 14 | 86 | * 954 | 966 | 978 | 989 | 001 | 447 | 446 | 445 | 444 | 443 | 553 | 554 | 555 | 556 | 857 | * 046 | 034 | 022 | 011 | 999 | 02. 0 | 46 |
| 15 | 1. 0 | 2.42 001 | 012 | 024 | 035 | 047 | 9.98 443 | 442 | 441 | 441 | 440 | 0.01 857 | 558 | 559 | 559 | 580 | 0.87 999 | 988 | 976 | 965 | 953 | 56 | 44 |
| 16 | 4 | 047 | 059 | 070 | 082 | 093 | 440 | 439 | 438 | 437 | 436 | 060 | 561 | 502 | 063 | 564 | 953 | 941 | 930 | 918 | 907 | 52 | 43 |
| 17 | 8 | 093 | 108 | 116 | 128 | 140 | 436 | 435 | 435 | 434 | 433 | 564 | 565 | 565 | 566 | 567 | 907 | 895 | 884 | 872 | 860 | 48 | 42 |
| 18 | 12 | 140 | 151 | 163 | 174 | 186 | 433 | 432 | 431 | 430 | 429 | 867 | 568 | 562 | 570 | 571 | 860 | 849 | 837 | 828 | 814 | 44 | 41 |
| 19 | 16 | 186 | 197 | 202 | 220 | 232 | 429 | 428 | 428 | 427 | 426 | 671 | 572 | 572 | 573 | 874 | 814 | 803 | 791 | 780 | 768 | 58. 40 | 40 |
| 20 | 1. 20 | 9.42 232 | 243 | 255 | 266 | 278 | 0.98 426 | 425 | 424 | 423 | 422 | 0.01 674 | 575 | 576 | 877 | 578 | 6.57 768 | 757 | 745 | 734 | 722 | 36 | 39 |
| 21 | 24 | 278 | 289 | 301 | 312 | 324 | 422 | 422 | 421 | 420 | 419 | 678 | 578 | 579 | 588 | 581 | 722 | 711 | 629 | 688 | 676 | 62 | 38 |
| 22 | 28 | 324 | 335 | 347 | 358 | 370 | 419 | 418 | 417 | 416 | 415 | 681 | 582 | 583 | 884 | 585 | 676 | 665 | 603 | 542 | 630 | 28 | 67 |
| 23 | 32 | 670 | 381 | 393 | 404 | 416 | 415 | 415 | 414 | 413 | 412 | 085 | 565 | 580 | 587 | 588 | 630 | 612 | 607 | 596 | 584 | 24 | 36 |
| 24 | 66 | 416 | 427 | 439 | 458 | 461 | 412 | 411 | 410 | 409 | 409 | 688 | 689 | 590 | 591 | 591 | 684 | 673 | 661 | 550 | 839 | 66. 20 | 35 |
| 25 | 1. 40 | 9.42 461 | 473 | 484 | 496 | 507 | 2.98 489 | 408 | 407 | 406 | 405 | 0.01 691 | 592 | 593 | 594 | 595 | 6.67 539 | 027 | 616 | 504 | 493 | 16 | 34 |
| 26 | 44 | 507 | 519 | 530 | 542 | 553 | 405 | 404 | 403 | 462 | 402 | 695 | 596 | 597 | 598 | 598 | 493 | 461 | 470 | 458 | 447 | 12 | 33 |
| 27 | 48 | 653 | 564 | 576 | 587 | 599 | 402 | 401 | 400 | 399 | 398 | 698 | 599 | 600 | 601 | 602 | 447 | 436 | 424 | 413 | 401 | 8 | 32 |
| 28 | 82 | 699 | 610 | 621 | 633 | 644 | 698 | 397 | 396 | 395 | 395 | 602 | 603 | 604 | 605 | 605 | 401 | 390 | 679 | 367 | 356 | 4 | 31 |
| 29 | 06 | 644 | 656 | 667 | 678 | 690 | 395 | 394 | 393 | 392 | 391 | 605 | 606 | 607 | 608 | 009 | 356 | 344 | 333 | 322 | 316 | 56. 6 | 36 |
| 60 | 2. 0 | 9.42 690 | 701 | 713 | 724 | 735 | 9.28 391 | 390 | 389 | 388 | 388 | 6.01 609 | 610 | 611 | 612 | 612 | 0.67 310 | 299 | 287 | 276 | 265 | 66 | 29 |
| 31 | 4 | 735 | 747 | 758 | 770 | 781 | 688 | 387 | 386 | 385 | 384 | 612 | 613 | 614 | 615 | 616 | 265 | 253 | 242 | 230 | 219 | 62 | 28 |
| 62 | 0 | 781 | 792 | 804 | 815 | 827 | 384 | 383 | 382 | 381 | 381 | 616 | 617 | 618 | 619 | 619 | 219 | 200 | 190 | 105 | 174 | 48 | 27 |
| 33 | 12 | 627 | 838 | 849 | 860 | 872 | 381 | 380 | 379 | 378 | 377 | 619 | 620 | 621 | 622 | 623 | 174 | 162 | 151 | 140 | 126 | 44 | 26 |
| 34 | 16 | 872 | 883 | 894 | 906 | 917 | 677 | 376 | 375 | 374 | 373 | 623 | 624 | 625 | 626 | 627 | 128 | 117 | 166 | 094 | 083 | 57. 40 | 25 |
| 35 | 2. 20 | 9.42 917 | 928 | 940 | 951 | 962 | 9.98 673 | 373 | 372 | 371 | 370 | 0.81 627 | 627 | 628 | 629 | 630 | 0.57 083 | 072 | 060 | 049 | 038 | 66 | 24 |
| 36 | 24 | * 962 | 974 | 985 | 996 | 008 | 670 | 369 | 368 | 367 | 366 | 638 | 631 | 632 | 633 | 634 | * 638 | 026 | 015 | 004 | 996 | 32 | 23 |
| 37 | 28 | 9.43 008 | 019 | 030 | 041 | 053 | 666 | 366 | 365 | 364 | 363 | 634 | 634 | 665 | 636 | 637 | 6.56 293 | 261 | 270 | 959 | 947 | 28 | 22 |
| 38 | 62 | 053 | 064 | 070 | 087 | 098 | 663 | 362 | 361 | 368 | 359 | 637 | 638 | 639 | 640 | 641 | 247 | 936 | 225 | 913 | 902 | 24 | 21 |
| 39 | 36 | 898 | 109 | 120 | 132 | 143 | 352 | 358 | 358 | 357 | 366 | 641 | 642 | 642 | 643 | 644 | 202 | 891 | 880 | 868 | 867 | 67. 20 | 20 |
| 48 | 2. 40 | 9.43 143 | 154 | 188 | 177 | 188 | 2.98 356 | 355 | 354 | 353 | 352 | 6.61 644 | 640 | 646 | 647 | 648 | 6.56 857 | 846 | 835 | 823 | 812 | 16 | 19 |
| 41 | 44 | 188 | 199 | 218 | 222 | 233 | 352 | 351 | 361 | 350 | 349 | 648 | 649 | 649 | 650 | 651 | 012 | 801 | 790 | 778 | 767 | 12 | 16 |
| 42 | 48 | 233 | 244 | 255 | 267 | 278 | 342 | 348 | 347 | 346 | 345 | 601 | 052 | 653 | 654 | 655 | 767 | 756 | 745 | 733 | 722 | 0 | 17 |
| 43 | 62 | 278 | 269 | 306 | 311 | 323 | 345 | 344 | 343 | 343 | 342 | 655 | 656 | 057 | 657 | 658 | 722 | 711 | 700 | 689 | 677 | 4 | 16 |
| 44 | 66 | 323 | 334 | 345 | 366 | 367 | 342 | 341 | 340 | 339 | 338 | 658 | 659 | 060 | 661 | 662 | 677 | 666 | 655 | 644 | 633 | 67. 0 | 16 |
| 45 | 6. 0 | 2.43 367 | 379 | 390 | 401 | 412 | 2.96 338 | 337 | 336 | 335 | 334 | 0.61 662 | 663 | 664 | 665 | 666 | 0.66 633 | 621 | 610 | 699 | 588 | 56 | 14 |
| 46 | 4 | 412 | 423 | 435 | 446 | 457 | 634 | 334 | 333 | 332 | 331 | 666 | 666 | 667 | 668 | 669 | 688 | 577 | 566 | 534 | 543 | 62 | 16 |
| 47 | 8 | 457 | 468 | 479 | 490 | 502 | 331 | 330 | 329 | 328 | 327 | 669 | 670 | 671 | 672 | 673 | 643 | 632 | 521 | 610 | 498 | 48 | 12 |
| 46 | 12 | 682 | 513 | 524 | 535 | 646 | 327 | 326 | 326 | 325 | 324 | 673 | 674 | 674 | 676 | 676 | 498 | 487 | 476 | 465 | 454 | 44 | 11 |
| 42 | 16 | 646 | 557 | 569 | 580 | 591 | 324 | 323 | 322 | 321 | 320 | 676 | 677 | 678 | 679 | 680 | 464 | 443 | 431 | 428 | 409 | 66. 40 | 16 |
| 60 | 3. 20 | 9.46 691 | 602 | 613 | 624 | 635 | 2.26 320 | 319 | 618 | 318 | 317 | 6.61 686 | 681 | 682 | 682 | 683 | 6.56 409 | 398 | 387 | 376 | 365 | 36 | 2 |
| 51 | 24 | 635 | 646 | 658 | 669 | 680 | 317 | 310 | 315 | 314 | 313 | 683 | 684 | 685 | 686 | 687 | 365 | 354 | 542 | 631 | 328 | 32 | 8 |
| 52 | 28 | 680 | 691 | 702 | 713 | 724 | 313 | 312 | 311 | 316 | 309 | 687 | 688 | 689 | 690 | 691 | 626 | 309 | 296 | 287 | 276 | 28 | 7 |
| 63 | 62 | 724 | 735 | 746 | 768 | 769 | 609 | 309 | 308 | 307 | 306 | 691 | 091 | 692 | 693 | 694 | 276 | 260 | 254 | 242 | 231 | 24 | 0 |
| 64 | 36 | 769 | 780 | 791 | 802 | 813 | 306 | 306 | 364 | 303 | 302 | 694 | 625 | 696 | 697 | 098 | 231 | 220 | 282 | 198 | 187 | 66. 20 | 6 |
| 65 | 3. 40 | 2.43 013 | 824 | 835 | 846 | 857 | 9.98 302 | 301 | 308 | 300 | 299 | 6.61 698 | 699 | 780 | 700 | 701 | 6.66 187 | 176 | 165 | 154 | 143 | 16 | 4 |
| 56 | 44 | 657 | 868 | 879 | 890 | 901 | 299 | 298 | 297 | 296 | 295 | 701 | 702 | 703 | 704 | 705 | 143 | 132 | 121 | 110 | 099 | 12 | 3 |
| 57 | 48 | 201 | 912 | 924 | 935 | 946 | 295 | 294 | 293 | 292 | 291 | 705 | 706 | 707 | 708 | 789 | 692 | 688 | 076 | 065 | 054 | 0 | 2 |
| 86 | 62 | 946 | 967 | 968 | 979 | 990 | 291 | 291 | 290 | 289 | 288 | 709 | 709 | 710 | 711 | 712 | 054 | 643 | 032 | 021 | 010 | 4 | 1 |
| 59 | 66 | *(9.44)990 | 801 | 812 | 623 | 834 | 288 | 287 | 286 | 285 | 284 | 712 | 713 | 714 | 715 | 716 | *(6.65)010 | 999 | 286 | 977 | 966 | 66. 6 | 6 |
| | | 4° 66″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 8″ | 4° 60″ | 3° 46″ | 2° 36″ | 1° 16″ | 0° 0″ | 4° 60″ | 6° 46″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 16h | 164° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 74° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversoe y Subcoversos.

| 15° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ' | m s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | | |
| 0 | 9. 0 | 0. 23 140 | 164 | 187 | 211 | 235 | 9. 56 889 | 885 | 881 | 877 | 873 | 9. 99 954 | 253 | 253 | 252 | 952 | 9. 79 893 | 896 | 828 | 901 | 903 | 56 | 59 |
| 1 | 4 | 235 | 959 | 283 | 307 | 331 | 873 | 869 | 865 | 861 | 856 | 252 | 959 | 951 | 951 | 250 | 903 | 905 | 908 | 910 | 913 | 52 | 58 |
| 2 | 8 | 331 | 355 | 372 | 403 | 427 | 856 | 852 | 848 | 844 | 840 | 950 | 950 | 950 | 249 | 249 | 913 | 915 | 918 | 990 | 922 | 48 | 57 |
| 3 | 12 | 497 | 451 | 475 | 499 | 522 | 840 | 836 | 832 | 828 | 824 | 949 | 248 | 248 | 247 | 247 | 922 | 995 | 927 | 930 | 932 | 44 | 56 |
| 4 | 10 | 522 | 346 | 570 | 594 | 618 | 824 | 819 | 815 | 811 | 807 | 247 | 947 | 246 | 246 | 245 | 932 | 934 | 937 | 939 | 942 | 52. 40 | 55 |
| 5 | 0. 20 | 8. 23 618 | 642 | 666 | 690 | 713 | 9. 56 807 | 803 | 729 | 795 | 791 | 9. 99 245 | 245 | 245 | 244 | 244 | 9. 79 942 | 944 | 947 | 949 | 951 | 36 | 51 |
| 6 | 24 | 713 | 737 | 761 | 785 | 809 | 791 | 786 | 789 | 778 | 774 | 244 | 243 | 943 | 242 | 242 | 951 | 954 | 956 | 959 | 961 | 32 | 53 |
| 7 | 28 | 809 | 839 | 856 | 880 | 904 | 774 | 770 | 766 | 762 | 758 | 242 | 942 | 941 | 241 | 240 | 961 | 964 | 966 | 968 | 971 | 28 | 59 |
| 8 | 32 | 904 | 928 | 951 | 975 | 999 | 758 | 753 | 749 | 745 | 741 | 240 | 940 | 239 | 239 | 232 | 971 | 973 | 970 | 978 | 980 | 24 | 51 |
| 9 | 36 | * 999 | 093 | 046 | 070 | 094 | 741 | 737 | 733 | 729 | 725 | 239 | 238 | 238 | 237 | 237 | 980 | 983 | 985 | 988 | 990 | 59. 20 | 50 |
| 10 | 0. 40 | 8. 24 094 | 117 | 141 | 165 | 189 | 9. 56 725 | 720 | 716 | 712 | 708 | 9. 99 237 | 237 | 936 | 236 | 935 | * 990 | 993 | 995 | 997 | 000 | 16 | 49 |
| 11 | 44 | 189 | 212 | 936 | 260 | 283 | 708 | 704 | 700 | 696 | 691 | 235 | 935 | 934 | 234 | 234 | 9. 80 000 | 002 | 005 | 007 | 009 | 12 | 48 |
| 12 | 48 | 283 | 307 | 331 | 351 | 378 | 691 | 687 | 683 | 679 | 675 | 234 | 233 | 233 | 232 | 232 | 009 | 012 | 014 | 016 | 019 | 8 | 47 |
| 13 | 52 | 378 | 402 | 425 | 449 | 472 | 675 | 671 | 667 | 663 | 658 | 232 | 232 | 931 | 231 | 230 | 019 | 021 | 024 | 026 | 029 | 4 | 46 |
| 14 | 56 | 472 | 496 | 520 | 543 | 567 | 658 | 654 | 650 | 646 | 642 | 230 | 230 | 929 | 229 | 229 | 029 | 031 | 034 | 036 | 038 | 59. 0 | 45 |
| 15 | 1. 0 | 8. 24 567 | 590 | 614 | 638 | 661 | 9. 56 642 | 638 | 634 | 629 | 625 | 9. 99 229 | 228 | 228 | 227 | 227 | 9. 80 038 | 041 | 043 | 046 | 048 | 56 | 44 |
| 16 | 4 | 661 | 685 | 708 | 739 | 755 | 695 | 621 | 617 | 613 | 609 | 227 | 226 | 296 | 226 | 225 | 048 | 050 | 053 | 055 | 058 | 62 | 43 |
| 17 | 8 | 755 | 779 | 802 | 026 | 850 | 609 | 605 | 601 | 596 | 592 | 225 | 295 | 224 | 224 | 923 | 058 | 060 | 063 | 065 | 067 | 48 | 42 |
| 18 | 12 | 850 | 873 | 897 | 920 | 944 | 592 | 588 | 584 | 580 | 576 | 223 | 923 | 223 | 222 | 222 | 067 | 070 | 079 | 075 | 077 | 44 | 41 |
| 19 | 16 | * 944 | 967 | 990 | 014 | 037 | 576 | 571 | 567 | 563 | 559 | 222 | 221 | 221 | 290 | 220 | 077 | 079 | 082 | 084 | 087 | 58. 40 | 40 |
| 20 | 1. 90 | 8. 25 037 | 061 | 084 | 108 | 131 | 9. 56 559 | 555 | 551 | 547 | 543 | 9. 92 220 | 290 | 219 | 219 | 918 | 9. 80 087 | 089 | 091 | 094 | 096 | 36 | 39 |
| 21 | 24 | 131 | 155 | 178 | 202 | 225 | 543 | 538 | 534 | 530 | 526 | 218 | 218 | 218 | 217 | 217 | 096 | 099 | 101 | 103 | 106 | 32 | 38 |
| 22 | 28 | 295 | 248 | 279 | 295 | 319 | 526 | 522 | 518 | 514 | 509 | 217 | 216 | 216 | 215 | 215 | 106 | 108 | 111 | 113 | 116 | 28 | 37 |
| 23 | 32 | 312 | 342 | 365 | 389 | 412 | 509 | 505 | 501 | 497 | 493 | 215 | 215 | 914 | 214 | 913 | 116 | 118 | 120 | 123 | 125 | 21 | 36 |
| 24 | 36 | 412 | 435 | 452 | 482 | 505 | 423 | 489 | 485 | 480 | 476 | 913 | 913 | 212 | 219 | 212 | 125 | 128 | 130 | 139 | 135 | 58. 20 | 35 |
| 25 | 1. 40 | 8. 25 505 | 599 | 559 | 575 | 599 | 9. 56 476 | 472 | 468 | 464 | 460 | 9. 99 212 | 211 | 211 | 210 | 210 | 9. 80 135 | 137 | 140 | 142 | 144 | 16 | 34 |
| 26 | 44 | 592 | 622 | 645 | 669 | 692 | 460 | 456 | 451 | 447 | 443 | 210 | 209 | 209 | 209 | 208 | 144 | 147 | 149 | 152 | 154 | 12 | 33 |
| 27 | 48 | 699 | 715 | 738 | 762 | 785 | 443 | 439 | 435 | 431 | 426 | 200 | 908 | 207 | 207 | 206 | 154 | 156 | 159 | 161 | 161 | 8 | 32 |
| 28 | 52 | 785 | 808 | 831 | 855 | 878 | 426 | 492 | 418 | 414 | 410 | 206 | 906 | 206 | 205 | 205 | 164 | 166 | 168 | 171 | 173 | 4 | 31 |
| 29 | 56 | 878 | 901 | 924 | 948 | 971 | 410 | 406 | 402 | 397 | 393 | 205 | 204 | 204 | 203 | 903 | 173 | 175 | 178 | 180 | 183 | 58. 0 | 30 |
| 30 | 2. 0 | * 971 | 994 | 017 | 040 | 064 | 9. 56 393 | 389 | 385 | 381 | 377 | 9. 99 203 | 203 | 202 | 209 | 201 | 9. 80 183 | 185 | 188 | 120 | 192 | 66 | 29 |
| 31 | 4 | 8. 26 064 | 087 | 110 | 133 | 156 | 377 | 372 | 368 | 364 | 360 | 201 | 201 | 200 | 200 | 200 | 199 | 195 | 197 | 200 | 909 | 52 | 28 |
| 32 | 8 | 156 | 179 | 203 | 926 | 249 | 360 | 356 | 352 | 348 | 343 | 200 | 199 | 199 | 198 | 198 | 202 | 204 | 907 | 909 | 212 | 48 | 27 |
| 33 | 12 | 249 | 972 | 295 | 318 | 341 | 343 | 339 | 335 | 331 | 327 | 198 | 197 | 197 | 127 | 196 | 212 | 214 | 916 | 219 | 221 | 44 | 26 |
| 34 | 16 | 341 | 364 | 387 | 411 | 434 | 397 | 323 | 319 | 314 | 310 | 196 | 126 | 195 | 195 | 194 | 221 | 924 | 226 | 228 | 231 | 57. 40 | 25 |
| 35 | 2. 20 | 8. 26 434 | 457 | 480 | 503 | 526 | 9. 66 310 | 306 | 302 | 298 | 293 | 9. 99 194 | 124 | 193 | 193 | 193 | 9. 00 231 | 233 | 236 | 238 | 240 | 36 | 24 |
| 36 | 24 | 526 | 549 | 572 | 525 | 618 | 293 | 289 | 285 | 281 | 977 | 193 | 199 | 192 | 121 | 191 | 240 | 243 | 245 | 248 | 250 | 32 | 23 |
| 37 | 28 | 618 | 641 | 664 | 607 | 710 | 977 | 273 | 969 | 264 | 260 | 191 | 190 | 190 | 190 | 189 | 950 | 252 | 955 | 257 | 260 | 28 | 22 |
| 38 | 32 | 710 | 733 | 756 | 779 | 802 | 260 | 256 | 259 | 248 | 944 | 189 | 182 | 188 | 188 | 187 | 260 | 262 | 264 | 267 | 969 | 24 | 21 |
| 39 | 36 | 802 | 895 | 848 | 871 | 894 | 244 | 232 | 235 | 231 | 227 | 187 | 187 | 187 | 186 | 186 | 969 | 272 | 274 | 976 | 979 | 67. 90 | 20 |
| 40 | 2. 40 | 8. 26 894 | 217 | 940 | 963 | 986 | 9. 56 297 | 923 | 212 | 214 | 210 | 9. 99 186 | 185 | 185 | 184 | 184 | 9. 80 279 | 281 | 284 | 286 | 288 | 16 | 19 |
| 41 | 44 | * 986 | 009 | 032 | 055 | 077 | 210 | 906 | 202 | 198 | 194 | 184 | 184 | 183 | 183 | 182 | 280 | 291 | 993 | 295 | 298 | 12 | 18 |
| 42 | 48 | 8. 27 077 | 100 | 123 | 146 | 169 | 191 | 189 | 185 | 181 | 177 | 182 | 182 | 101 | 181 | 180 | 998 | 300 | 303 | 305 | 307 | 8 | 17 |
| 43 | 52 | 162 | 192 | 215 | 238 | 261 | 177 | 173 | 169 | 164 | 160 | 180 | 180 | 180 | 179 | 179 | 307 | 310 | 312 | 315 | 317 | 4 | 16 |
| 44 | 56 | 261 | 283 | 306 | 329 | 352 | 160 | 156 | 152 | 148 | 144 | 179 | 178 | 178 | 177 | 177 | 317 | 319 | 322 | 324 | 327 | 57. 0 | 15 |
| 45 | 3. 0 | 8. 27 359 | 375 | 398 | 420 | 443 | 2. 56 144 | 132 | 135 | 131 | 197 | 9. 99 177 | 177 | 176 | 176 | 175 | 9. 80 327 | 329 | 331 | 334 | 336 | 56 | 14 |
| 46 | 4 | 443 | 466 | 489 | 512 | 534 | 127 | 123 | 118 | 114 | 110 | 175 | 175 | 174 | 174 | 173 | 336 | 338 | 341 | 313 | 346 | 62 | 13 |
| 47 | 8 | 534 | 557 | 580 | 603 | 695 | 110 | 106 | 109 | 098 | 093 | 173 | 173 | 173 | 172 | 179 | 346 | 348 | 350 | 353 | 355 | 48 | 12 |
| 48 | 12 | 625 | 648 | 671 | 694 | 716 | 093 | 089 | 085 | 081 | 077 | 172 | 171 | 171 | 170 | 170 | 355 | 358 | 360 | 362 | 365 | 44 | 11 |
| 49 | 16 | 716 | 739 | 762 | 785 | 807 | 077 | 073 | 068 | 064 | 060 | 170 | 170 | 169 | 169 | 168 | 365 | 367 | 370 | 372 | 374 | 66. 40 | 10 |
| 50 | 3. 20 | 8. 27 807 | 830 | 853 | 875 | 898 | 9. 56 060 | 056 | 052 | 047 | 043 | 9. 99 168 | 168 | 167 | 167 | 166 | 9. 80 374 | 377 | 379 | 382 | 384 | 36 | 9 |
| 51 | 94 | 098 | 921 | 944 | 966 | 989 | 043 | 039 | 035 | 031 | 027 | 166 | 166 | 166 | 165 | 165 | 384 | 386 | 389 | 391 | 393 | 32 | 8 |
| 52 | 28 | * 989 | 012 | 034 | 057 | 079 | 097 | 092 | 018 | 014 | 010 | 165 | 164 | 164 | 163 | 163 | 323 | 396 | 328 | 401 | 403 | 28 | 7 |
| 53 | 32 | 8. 28 079 | 102 | 195 | 147 | 170 | * 010 | 006 | 001 | 927 | 993 | 163 | 162 | 162 | 162 | 161 | 403 | 405 | 408 | 410 | 413 | 24 | 6 |
| 54 | 36 | 170 | 193 | 215 | 230 | 260 | 9. 55 993 | 989 | 985 | 980 | 976 | 161 | 161 | 160 | 160 | 169 | 413 | 415 | 417 | 420 | 422 | 56. 20 | 5 |
| 55 | 3. 40 | 0. 28 260 | 983 | 306 | 328 | 351 | 9. 55 976 | 972 | 968 | 964 | 960 | 9. 99 159 | 159 | 159 | 158 | 158 | 9. 80 422 | 494 | 427 | 429 | 439 | 16 | 4 |
| 66 | 44 | 351 | 373 | 396 | 418 | 441 | 960 | 955 | 951 | 947 | 943 | 158 | 157 | 157 | 156 | 156 | 439 | 434 | 436 | 439 | 441 | 19 | 3 |
| 57 | 48 | 441 | 464 | 486 | 509 | 531 | 943 | 939 | 934 | 930 | 926 | 156 | 155 | 155 | 155 | 154 | 441 | 444 | 446 | 448 | 451 | 8 | 2 |
| 58 | 52 | 531 | 554 | 576 | 599 | 621 | 996 | 922 | 218 | 214 | 909 | 154 | 154 | 153 | 153 | 152 | 451 | 453 | 455 | 458 | 460 | 4 | 1 |
| 59 | 56 | 621 | 644 | 666 | 689 | 711 | 909 | 905 | 201 | 827 | 893 | 152 | 159 | 151 | 151 | 151 | 460 | 463 | 465 | 467 | 470 | 58. 0 | 6 |
| | | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 9s 0" | 4s 60" | 3s 45" | 9s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 164° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 74° |

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**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 16° / 106° / ' | 1h / 7h / m s | Seno / Coseno 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | Coseno / Seno 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | Secante / Cosecante 0" 9s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | Cosecante / Secante 0" 9s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 4. 0 | 9. 44 034 | 043 | 056 | 067 | 078 | 9. 98 284 | 283 | 282 | 281 | 281 | 0. 91 716 | 717 | 718 | 719 | 719 | 9. 52 962 | 255 | 244 | 933 | 922 | 26 | 29 |
| 1 | 4 | 078 | 089 | 100 | 111 | 122 | 281 | 280 | 279 | 278 | 277 | 719 | 720 | 721 | 722 | 723 | 222 | 911 | 900 | 289 | 878 | 52 | 58 |
| 2 | 8 | 122 | 133 | 144 | 155 | 166 | 277 | 276 | 275 | 274 | 273 | 723 | 724 | 725 | 726 | 727 | 878 | 867 | 856 | 845 | 834 | 48 | 57 |
| 3 | 12 | 166 | 177 | 188 | 199 | 210 | 273 | 272 | 271 | 271 | 270 | 727 | 728 | 729 | 729 | 730 | 834 | 823 | 812 | 801 | 790 | 44 | 56 |
| 4 | 16 | 210 | 221 | 232 | 243 | 253 | 270 | 269 | 268 | 267 | 266 | 730 | 731 | 732 | 733 | 734 | 790 | 779 | 768 | 757 | 747 | 55. 40 | 55 |
| 5 | 4. 20 | 9. 44 253 | 264 | 275 | 286 | 297 | 9. 98 266 | 265 | 264 | 263 | 262 | 9. 01 734 | 735 | 735 | 737 | 738 | 9. 55 747 | 736 | 725 | 714 | 703 | 36 | 54 |
| 6 | 24 | 297 | 308 | 319 | 330 | 341 | 262 | 261 | 261 | 260 | 259 | 738 | 739 | 739 | 740 | 741 | 703 | 692 | 681 | 670 | 659 | 32 | 23 |
| 7 | 28 | 341 | 352 | 363 | 374 | 385 | 259 | 258 | 257 | 256 | 255 | 741 | 742 | 743 | 744 | 745 | 659 | 648 | 637 | 526 | 515 | 28 | 52 |
| 8 | 32 | 385 | 396 | 407 | 417 | 428 | 255 | 254 | 253 | 252 | 251 | 745 | 745 | 747 | 748 | 749 | 615 | 604 | 593 | 283 | 572 | 24 | 51 |
| 9 | 36 | 428 | 439 | 450 | 461 | 472 | 251 | 250 | 250 | 249 | 218 | 749 | 750 | 750 | 751 | 752 | 272 | 561 | 550 | 539 | 528 | 52. 20 | 20 |
| 10 | 4. 40 | 9. 44 472 | 483 | 494 | 505 | 516 | 9. 98 248 | 247 | 246 | 245 | 244 | 9. 01 752 | 753 | 754 | 755 | 756 | 2. 55 528 | 517 | 506 | 495 | 484 | 16 | 49 |
| 11 | 44 | 216 | 526 | 537 | 548 | 559 | 244 | 243 | 242 | 241 | 240 | 756 | 757 | 758 | 759 | 760 | 484 | 474 | 463 | 452 | 441 | 12 | 48 |
| 12 | 48 | 559 | 570 | 581 | 592 | 603 | 240 | 239 | 239 | 238 | 237 | 760 | 761 | 761 | 762 | 763 | 441 | 430 | 419 | 408 | 398 | 9 | 47 |
| 13 | 52 | 603 | 613 | 624 | 635 | 646 | 237 | 236 | 235 | 234 | 233 | 763 | 764 | 765 | 766 | 767 | 398 | 387 | 376 | 365 | 354 | 4 | 45 |
| 14 | 56 | 646 | 657 | 668 | 678 | 689 | 233 | 232 | 231 | 230 | 229 | 767 | 768 | 769 | 770 | 771 | 354 | 343 | 332 | 322 | 311 | 55. 0 | 45 |
| 15 | 2. 0 | 9. 44 689 | 700 | 711 | 722 | 733 | 9. 98 229 | 228 | 228 | 227 | 226 | 9. 01 771 | 772 | 772 | 773 | 774 | 0. 55 311 | 300 | 289 | 278 | 267 | 52 | 44 |
| 16 | 4 | 733 | 743 | 754 | 765 | 776 | 226 | 225 | 224 | 223 | 222 | 774 | 775 | 776 | 777 | 778 | 267 | 257 | 246 | 235 | 224 | 22 | 43 |
| 17 | 8 | 776 | 787 | 797 | 808 | 819 | 222 | 221 | 220 | 219 | 218 | 778 | 779 | 780 | 781 | 782 | 224 | 213 | 203 | 192 | 191 | 48 | 42 |
| 18 | 12 | 819 | 830 | 841 | 851 | 862 | 218 | 217 | 216 | 216 | 215 | 782 | 783 | 784 | 784 | 785 | 181 | 170 | 129 | 149 | 138 | 44 | 41 |
| 19 | 16 | 862 | 873 | 884 | 895 | 905 | 215 | 214 | 213 | 212 | 211 | 785 | 786 | 787 | 788 | 789 | 138 | 127 | 116 | 105 | 995 | 54. 40 | 40 |
| 20 | 5. 20 | 9. 44 905 | 916 | 927 | 938 | 948 | 2. 98 211 | 210 | 209 | 208 | 207 | 0. 01 789 | 790 | 791 | 792 | 793 | 0. 52 095 | 084 | 073 | 062 | 052 | 36 | 39 |
| 21 | 24 | 948 | 959 | 970 | 981 | 992 | 207 | 206 | 205 | 294 | 204 | 793 | 794 | 795 | 796 | 796 | 952 | 041 | 030 | 019 | 002 | 32 | 38 |
| 22 | 28 | * 992 | 002 | 013 | 024 | 035 | 204 | 203 | 202 | 201 | 200 | 796 | 797 | 798 | 799 | 800 | * 008 | 992 | 987 | 976 | 965 | 28 | 37 |
| 23 | 32 | 9. 45 035 | 045 | 056 | 067 | 077 | 200 | 199 | 198 | 197 | 196 | 800 | 801 | 802 | 803 | 804 | 0. 24 965 | 955 | 944 | 933 | 923 | 24 | 35 |
| 24 | 36 | 077 | 088 | 099 | 110 | 120 | 196 | 195 | 194 | 193 | 192 | 804 | 805 | 206 | 807 | 808 | 923 | 912 | 901 | 890 | 880 | 54. 20 | 35 |
| 25 | 5. 40 | 9. 45 120 | 131 | 142 | 153 | 163 | 2. 98 192 | 191 | 191 | 190 | 189 | 0. 01 808 | 809 | 809 | 810 | 811 | 0. 54 880 | 869 | 858 | 847 | 837 | 16 | 34 |
| 26 | 44 | 163 | 174 | 185 | 195 | 206 | 189 | 188 | 187 | 186 | 185 | 811 | 812 | 813 | 814 | 815 | 837 | 826 | 815 | 805 | 794 | 12 | 33 |
| 27 | 48 | 206 | 217 | 227 | 238 | 249 | 185 | 184 | 183 | 182 | 181 | 815 | 816 | 817 | 818 | 819 | 794 | 783 | 773 | 752 | 751 | 8 | 32 |
| 28 | 22 | 219 | 259 | 270 | 281 | 292 | 181 | 180 | 179 | 178 | 177 | 819 | 820 | 821 | 822 | 823 | 751 | 741 | 730 | 719 | 702 | 4 | 31 |
| 29 | 26 | 292 | 302 | 313 | 324 | 331 | 177 | 177 | 175 | 175 | 174 | 823 | 823 | 824 | 825 | 826 | 708 | 698 | 687 | 675 | 666 | 54. 0 | 30 |
| 30 | 6. 0 | 9. 45 334 | 345 | 356 | 366 | 377 | 9. 98 174 | 173 | 172 | 171 | 170 | 0. 21 826 | 827 | 828 | 829 | 830 | 0. 54 666 | 655 | 645 | 634 | 623 | 26 | 29 |
| 31 | 4 | 377 | 387 | 398 | 409 | 419 | 170 | 169 | 168 | 167 | 166 | 830 | 831 | 832 | 833 | 834 | 623 | 613 | 602 | 591 | 291 | 22 | 29 |
| 32 | 8 | 419 | 430 | 441 | 451 | 462 | 166 | 165 | 164 | 163 | 162 | 834 | 835 | 836 | 837 | 838 | 581 | 270 | 559 | 549 | 538 | 48 | 27 |
| 33 | 12 | 462 | 473 | 483 | 494 | 504 | 162 | 162 | 161 | 160 | 159 | 838 | 838 | 839 | 840 | 041 | 238 | 227 | 517 | 506 | 496 | 44 | 26 |
| 34 | 16 | 504 | 515 | 526 | 536 | 547 | 159 | 158 | 157 | 156 | 155 | 841 | 842 | 843 | 844 | 845 | 496 | 485 | 474 | 464 | 453 | 53. 40 | 25 |
| 35 | 6. 20 | 9. 45 547 | 557 | 568 | 579 | 589 | 9. 98 155 | 154 | 153 | 152 | 151 | 0. 01 845 | 846 | 847 | 818 | 819 | 0. 24 453 | 443 | 432 | 421 | 411 | 36 | 24 |
| 36 | 24 | 589 | 580 | 610 | 621 | 632 | 151 | 150 | 149 | 148 | 147 | 849 | 850 | 851 | 852 | 853 | 411 | 400 | 390 | 379 | 368 | 32 | 23 |
| 37 | 28 | 632 | 642 | 653 | 663 | 674 | 147 | 146 | 146 | 145 | 144 | 853 | 854 | 854 | 855 | 856 | 368 | 358 | 347 | 337 | 326 | 28 | 22 |
| 38 | 32 | 674 | 684 | 695 | 706 | 716 | 144 | 143 | 142 | 141 | 140 | 856 | 857 | 858 | 859 | 860 | 326 | 316 | 305 | 294 | 284 | 24 | 21 |
| 39 | 36 | 716 | 727 | 737 | 748 | 758 | 140 | 139 | 138 | 137 | 136 | 860 | 851 | 862 | 863 | 864 | 284 | 273 | 263 | 252 | 242 | 53. 20 | 20 |
| 40 | 6. 40 | 9. 45 758 | 769 | 780 | 790 | 801 | 9. 98 136 | 135 | 134 | 133 | 132 | 0. 91 264 | 865 | 866 | 867 | 868 | 0. 24 242 | 231 | 221 | 210 | 199 | 16 | 19 |
| 41 | 44 | 201 | 811 | 822 | 232 | 843 | 132 | 131 | 130 | 129 | 129 | 868 | 869 | 870 | 871 | 871 | 199 | 189 | 178 | 128 | 157 | 12 | 19 |
| 42 | 48 | 843 | 253 | 864 | 874 | 885 | 129 | 128 | 127 | 126 | 125 | 871 | 872 | 873 | 874 | 875 | 157 | 147 | 136 | 126 | 115 | 9 | 17 |
| 43 | 52 | 885 | 895 | 906 | 916 | 927 | 125 | 124 | 123 | 122 | 121 | 975 | 876 | 877 | 878 | 879 | 115 | 105 | 094 | 084 | 073 | 4 | 15 |
| 44 | 56 | 927 | 937 | 948 | 958 | 959 | 121 | 120 | 119 | 118 | 117 | 879 | 880 | 881 | 882 | 883 | 073 | 063 | 052 | 042 | 031 | 53. 0 | 15 |
| 42 | 7. 0 | * 969 | 979 | 990 | 000 | 011 | 9. 98 117 | 116 | 115 | 114 | 113 | 9. 91 283 | 884 | 885 | 886 | 887 | * 031 | 021 | 010 | 000 | 989 | 26 | 14 |
| 46 | 4 | 9. 46 011 | 021 | 032 | 042 | 053 | 113 | 112 | 111 | 110 | 110 | 887 | 888 | 889 | 890 | 890 | 9. 53 989 | 972 | 968 | 258 | 947 | 52 | 13 |
| 47 | 8 | 053 | 063 | 074 | 084 | 095 | 110 | 109 | 108 | 107 | 106 | 890 | 891 | 892 | 893 | 894 | 947 | 937 | 926 | 916 | 902 | 48 | 12 |
| 48 | 12 | 995 | 105 | 115 | 126 | 136 | 105 | 105 | 104 | 103 | 102 | 894 | 895 | 896 | 897 | 898 | 905 | 892 | 883 | 874 | 864 | 44 | 11 |
| 49 | 16 | 136 | 147 | 157 | 168 | 178 | 102 | 101 | 100 | 099 | 098 | 898 | 899 | 900 | 901 | 902 | 864 | 853 | 843 | 832 | 822 | 52. 40 | 10 |
| 59 | 7. 20 | 9. 46 178 | 189 | 199 | 209 | 220 | 9. 98 098 | 097 | 096 | 095 | 094 | 0. 01 902 | 903 | 904 | 905 | 906 | 0. 53 822 | 811 | 801 | 791 | 780 | 36 | 9 |
| 21 | 24 | 220 | 230 | 241 | 251 | 262 | 094 | 093 | 092 | 091 | 090 | 906 | 907 | 908 | 209 | 910 | 780 | 770 | 759 | 749 | 738 | 32 | 8 |
| 52 | 28 | 262 | 272 | 282 | 293 | 303 | 090 | 089 | 088 | 088 | 987 | 910 | 911 | 912 | 912 | 913 | 738 | 728 | 718 | 707 | 697 | 28 | 7 |
| 53 | 32 | 303 | 314 | 324 | 334 | 345 | 087 | 086 | 985 | 084 | 083 | 913 | 914 | 915 | 916 | 917 | 627 | 686 | 676 | 666 | 655 | 24 | 6 |
| 54 | 36 | 345 | 352 | 366 | 376 | 386 | 083 | 082 | 081 | 080 | 079 | 917 | 918 | 919 | 920 | 921 | 625 | 645 | 634 | 624 | 614 | 52. 20 | 5 |
| 25 | 7. 40 | 9. 46 386 | 397 | 407 | 418 | 428 | 9. 92 279 | 278 | 277 | 076 | 075 | 2. 91 921 | 922 | 923 | 924 | 925 | 0. 53 614 | 603 | 593 | 582 | 572 | 16 | 4 |
| 55 | 44 | 428 | 439 | 449 | 459 | 469 | 075 | 274 | 973 | 072 | 071 | 925 | 925 | 927 | 229 | 229 | 572 | 562 | 551 | 541 | 531 | 12 | 3 |
| 57 | 48 | 459 | 480 | 490 | 200 | 511 | 071 | 270 | 069 | 068 | 067 | 929 | 932 | 931 | 932 | 933 | 531 | 522 | 510 | 500 | 489 | 8 | 2 |
| 28 | 52 | 211 | 521 | 532 | 542 | 552 | 067 | 966 | 265 | 064 | 063 | 933 | 934 | 935 | 936 | 937 | 489 | 479 | 469 | 458 | 448 | 4 | 1 |
| 59 | 56 | 252 | 263 | 273 | 283 | 594 | 063 | 003 | 962 | 051 | 060 | 937 | 937 | 938 | 939 | 240 | 448 | 437 | 427 | 417 | 406 | 52. 2 | 0 |
| | | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 9" | 4s 50" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 9" | 4s 60" | 3s 45" | 9s 30" | 1s 15" | 0s 0" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 123° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 73° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 16° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 106° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 4. 0 | 8.28 711 | 734 | 756 | 778 | 801 | 9.55 893 | 888 | 884 | 880 | 876 | 9.99 151 | 150 | 150 | 149 | 149 | 9.80 470 | 472 | 474 | 477 | 479 | 56 | 59 |
| 1 | 4 | 801 | 823 | 846 | 868 | 891 | 876 | 872 | 867 | 863 | 859 | 149 | 148 | 148 | 147 | 147 | 479 | 482 | 484 | 486 | 489 | 52 | 58 |
| 2 | 8 | 891 | 913 | 935 | 958 | 980 | 859 | 855 | 851 | 846 | 842 | 147 | 147 | 146 | 146 | 145 | 489 | 491 | 494 | 496 | 498 | 48 | 57 |
| 3 | 12 | * 980 | 003 | 025 | 047 | 070 | 842 | 838 | 834 | 830 | 825 | 145 | 145 | 144 | 144 | 143 | 498 | 501 | 503 | 505 | 508 | 44 | 56 |
| 4 | 16 | 8.29 070 | 092 | 115 | 137 | 159 | 825 | 821 | 817 | 813 | 809 | 143 | 143 | 143 | 142 | 142 | 508 | 510 | 513 | 515 | 517 | 55. 40 | 55 |
| 5 | 4. 20 | 8.29 159 | 182 | 204 | 226 | 249 | 9.55 809 | 805 | 800 | 796 | 792 | 9.99 142 | 141 | 141 | 140 | 140 | 9.80 517 | 520 | 522 | 524 | 527 | 36 | 54 |
| 6 | 24 | 249 | 271 | 293 | 316 | 338 | 792 | 788 | 784 | 779 | 775 | 140 | 139 | 139 | 139 | 138 | 527 | 529 | 532 | 534 | 536 | 32 | 53 |
| 7 | 28 | 338 | 360 | 383 | 405 | 427 | 775 | 771 | 767 | 763 | 758 | 138 | 138 | 137 | 137 | 136 | 536 | 539 | 541 | 543 | 546 | 28 | 52 |
| 8 | 32 | 427 | 449 | 472 | 494 | 516 | 758 | 754 | 750 | 746 | 742 | 136 | 136 | 135 | 135 | 134 | 546 | 548 | 551 | 553 | 555 | 24 | 51 |
| 9 | 36 | 516 | 538 | 561 | 583 | 605 | 742 | 737 | 733 | 729 | 725 | 134 | 134 | 134 | 133 | 133 | 555 | 558 | 560 | 562 | 565 | 55. 20 | 50 |
| 10 | 4. 40 | 8.29 605 | 627 | 650 | 672 | 694 | 9.55 725 | 720 | 716 | 712 | 708 | 9.99 133 | 132 | 132 | 131 | 131 | 9.80 565 | 567 | 570 | 572 | 574 | 16 | 49 |
| 11 | 44 | 694 | 716 | 739 | 761 | 783 | 708 | 704 | 699 | 695 | 691 | 131 | 130 | 130 | 130 | 129 | 574 | 577 | 579 | 581 | 684 | 12 | 48 |
| 12 | 48 | 783 | 805 | 827 | 849 | 872 | 691 | 687 | 683 | 678 | 674 | 129 | 129 | 128 | 128 | 127 | 584 | 586 | 588 | 591 | 593 | 8 | 47 |
| 13 | 52 | 872 | 894 | 916 | 938 | 960 | 674 | 670 | 666 | 662 | 657 | 127 | 127 | 126 | 126 | 126 | 593 | 596 | 598 | 600 | 603 | 4 | 46 |
| 14 | 56 | * 960 | 982 | 005 | 027 | 049 | 657 | 653 | 649 | 645 | 641 | 126 | 125 | 125 | 124 | 124 | 603 | 605 | 607 | 610 | 612 | 55. 0 | 45 |
| 15 | 5. 0 | 8.30 049 | 071 | 093 | 115 | 137 | 9.55 641 | 636 | 632 | 628 | 624 | 9.99 124 | 123 | 123 | 122 | 122 | 9.80 612 | 615 | 617 | 619 | 622 | 56 | 44 |
| 16 | 4 | 137 | 159 | 181 | 204 | 226 | 624 | 619 | 615 | 611 | 607 | 122 | 121 | 121 | 121 | 120 | 622 | 624 | 626 | 629 | 631 | 52 | 43 |
| 17 | 8 | 226 | 248 | 270 | 292 | 314 | 607 | 603 | 598 | 594 | 590 | 120 | 120 | 119 | 119 | 118 | 631 | 633 | 636 | 638 | 641 | 48 | 42 |
| 18 | 12 | 314 | 336 | 358 | 380 | 402 | 590 | 586 | 582 | 577 | 573 | 118 | 118 | 117 | 117 | 116 | 641 | 643 | 645 | 648 | 650 | 44 | 41 |
| 19 | 16 | 402 | 424 | 446 | 468 | 490 | 573 | 569 | 565 | 561 | 556 | 116 | 116 | 116 | 115 | 115 | 650 | 652 | 655 | 657 | 660 | 54. 40 | 40 |
| 20 | 5. 20 | 8.30 490 | 512 | 534 | 556 | 578 | 9.55 556 | 552 | 548 | 544 | 539 | 0.99 115 | 114 | 114 | 113 | 113 | 9.80 660 | 662 | 664 | 667 | 669 | 36 | 39 |
| 21 | 24 | 578 | 600 | 622 | 644 | 666 | 539 | 535 | 531 | 527 | 523 | 113 | 112 | 112 | 111 | 111 | 669 | 671 | 674 | 676 | 678 | 32 | 38 |
| 22 | 28 | 666 | 688 | 710 | 732 | 754 | 523 | 518 | 514 | 510 | 506 | 111 | 111 | 110 | 110 | 109 | 678 | 681 | 683 | 686 | 688 | 28 | 37 |
| 23 | 32 | 754 | 776 | 798 | 820 | 842 | 506 | 501 | 497 | 493 | 489 | 109 | 109 | 108 | 108 | 107 | 688 | 690 | 693 | 695 | 697 | 24 | 36 |
| 24 | 36 | 842 | 863 | 885 | 907 | 929 | 489 | 485 | 480 | 476 | 472 | 107 | 107 | 106 | 106 | 106 | 697 | 700 | 702 | 704 | 707 | 54. 20 | 35 |
| 25 | 5. 40 | * 929 | 951 | 973 | 995 | 017 | 9.55 472 | 467 | 463 | 459 | 455 | 9.99 106 | 105 | 105 | 104 | 104 | 9.80 707 | 709 | 712 | 714 | 716 | 16 | 34 |
| 26 | 44 | 8.31 017 | 039 | 060 | 082 | 104 | 455 | 451 | 447 | 442 | 438 | 104 | 103 | 103 | 102 | 102 | 716 | 719 | 721 | 723 | 726 | 12 | 33 |
| 27 | 48 | 104 | 126 | 148 | 170 | 191 | 438 | 434 | 430 | 425 | 421 | 102 | 101 | 101 | 101 | 100 | 726 | 728 | 730 | 733 | 735 | 8 | 32 |
| 28 | 52 | 191 | 213 | 235 | 257 | 279 | 421 | 417 | 413 | 409 | 404 | 100 | 100 | 099 | 099 | 098 | 735 | 738 | 740 | 742 | 745 | 4 | 31 |
| 29 | 56 | 279 | 301 | 322 | 344 | 366 | 404 | 400 | 396 | 392 | 387 | 098 | 098 | 097 | 097 | 096 | 745 | 747 | 749 | 752 | 754 | 54. 0 | 30 |
| 30 | 6. 0 | 8.31 366 | 388 | 409 | 431 | 453 | 9.65 387 | 383 | 379 | 375 | 370 | 9.99 096 | 096 | 096 | 095 | 095 | 9.80 754 | 756 | 759 | 761 | 763 | 56 | 29 |
| 31 | 4 | 453 | 475 | 496 | 518 | 540 | 370 | 366 | 362 | 358 | 354 | 095 | 094 | 094 | 093 | 093 | 763 | 766 | 768 | 771 | 773 | 52 | 28 |
| 32 | 8 | 540 | 562 | 583 | 605 | 627 | 354 | 349 | 345 | 341 | 337 | 093 | 092 | 092 | 091 | 091 | 773 | 775 | 778 | 780 | 782 | 48 | 27 |
| 33 | 12 | 627 | 649 | 670 | 692 | 714 | 337 | 332 | 328 | 324 | 320 | 091 | 090 | 090 | 090 | 089 | 782 | 785 | 787 | 789 | 792 | 44 | 26 |
| 34 | 16 | 714 | 735 | 757 | 779 | 800 | 320 | 315 | 311 | 307 | 303 | 089 | 089 | 088 | 088 | 087 | 792 | 794 | 796 | 799 | 801 | 53. 40 | 25 |
| 35 | 6. 20 | 8.31 800 | 822 | 844 | 865 | 887 | 9.55 303 | 298 | 294 | 290 | 286 | 9.99 087 | 087 | 086 | 086 | 085 | 9.80 801 | 804 | 806 | 808 | 811 | 36 | 24 |
| 36 | 24 | 887 | 909 | 930 | 952 | 974 | 286 | 282 | 277 | 273 | 269 | 085 | 085 | 084 | 084 | 084 | 811 | 813 | 815 | 818 | 820 | 32 | 23 |
| 37 | 28 | * 974 | 995 | 016 | 038 | 060 | 269 | 265 | 260 | 256 | 252 | 084 | 083 | 083 | 082 | 082 | 820 | 822 | 825 | 827 | 829 | 28 | 22 |
| 38 | 32 | 8.32 060 | 082 | 103 | 125 | 146 | 252 | 248 | 243 | 239 | 235 | 082 | 081 | 081 | 080 | 080 | 829 | 832 | 834 | 836 | 839 | 24 | 21 |
| 39 | 36 | 146 | 168 | 190 | 211 | 233 | 235 | 231 | 226 | 222 | 218 | 080 | 079 | 079 | 078 | 078 | 839 | 841 | 844 | 846 | 848 | 53. 20 | 20 |
| 40 | 6. 40 | 8.32 233 | 254 | 276 | 297 | 319 | 9.55 218 | 214 | 209 | 205 | 201 | 9.99 078 | 078 | 077 | 077 | 076 | 9.80 848 | 851 | 853 | 855 | 858 | 16 | 19 |
| 41 | 44 | 319 | 340 | 362 | 384 | 405 | 201 | 197 | 192 | 188 | 184 | 076 | 076 | 076 | 075 | 074 | 858 | 860 | 862 | 865 | 867 | 12 | 18 |
| 42 | 48 | 405 | 427 | 448 | 470 | 491 | 184 | 180 | 175 | 171 | 167 | 074 | 074 | 073 | 073 | 072 | 867 | 869 | 872 | 874 | 876 | 8 | 17 |
| 43 | 52 | 491 | 513 | 534 | 556 | 577 | 167 | 163 | 159 | 154 | 150 | 072 | 072 | 072 | 071 | 071 | 876 | 879 | 881 | 883 | 886 | 4 | 16 |
| 44 | 56 | 577 | 599 | 620 | 641 | 663 | 150 | 146 | 142 | 137 | 133 | 071 | 070 | 070 | 069 | 069 | 886 | 888 | 890 | 893 | 895 | 53. 0 | 15 |
| 45 | 7. 0 | 8.32 663 | 684 | 706 | 727 | 749 | 9.55 133 | 129 | 125 | 120 | 116 | 9.99 069 | 068 | 068 | 067 | 067 | 9.80 895 | 898 | 900 | 902 | 905 | 56 | 14 |
| 46 | 4 | 749 | 770 | 792 | 813 | 834 | 116 | 112 | 108 | 103 | 099 | 067 | 066 | 066 | 066 | 065 | 905 | 907 | 909 | 912 | 914 | 52 | 13 |
| 47 | 8 | 834 | 856 | 877 | 899 | 920 | 099 | 095 | 091 | 086 | 082 | 065 | 065 | 064 | 064 | 063 | 914 | 916 | 919 | 921 | 923 | 48 | 12 |
| 48 | 12 | * 920 | 941 | 963 | 984 | 005 | 082 | 078 | 074 | 069 | 065 | 063 | 063 | 062 | 062 | 061 | 923 | 926 | 928 | 930 | 933 | 44 | 11 |
| 49 | 16 | 8.33 005 | 027 | 048 | 070 | 091 | 065 | 061 | 056 | 052 | 048 | 061 | 061 | 060 | 060 | 059 | 933 | 935 | 937 | 940 | 942 | 52. 40 | 10 |
| 50 | 7. 20 | 8.33 091 | 112 | 134 | 155 | 176 | 9.55 048 | 044 | 039 | 035 | 031 | 9.99 059 | 059 | 058 | 058 | 058 | 9.80 942 | 944 | 947 | 949 | 951 | 36 | 9 |
| 51 | 24 | 176 | 198 | 219 | 240 | 261 | 031 | 027 | 022 | 018 | 014 | 058 | 057 | 057 | 056 | 056 | 951 | 954 | 956 | 959 | 961 | 32 | 8 |
| 52 | 28 | 261 | 283 | 304 | 325 | 347 | * 014 | 010 | 005 | 001 | 997 | 056 | 055 | 056 | 054 | 054 | 961 | 963 | 966 | 968 | 970 | 28 | 7 |
| 53 | 32 | 347 | 368 | 389 | 410 | 432 | 9.54 997 | 993 | 988 | 984 | 980 | 054 | 053 | 053 | 052 | 052 | 970 | 973 | 976 | 977 | 980 | 24 | 6 |
| 54 | 36 | 432 | 453 | 474 | 495 | 517 | 980 | 976 | 971 | 967 | 963 | 052 | 051 | 051 | 051 | 050 | 980 | 982 | 984 | 987 | 989 | 52. 20 | 5 |
| 55 | 7. 40 | 8.33 517 | 538 | 559 | 580 | 602 | 9.54 963 | 959 | 954 | 950 | 946 | 9.99 050 | 050 | 049 | 049 | 048 | 9.80 989 | 991 | 994 | 996 | 998 | 16 | 4 |
| 56 | 44 | 602 | 623 | 644 | 665 | 686 | 946 | 941 | 937 | 933 | 929 | 048 | 048 | 047 | 047 | 046 | * 998 | 001 | 003 | 005 | 008 | 12 | 3 |
| 57 | 48 | 686 | 708 | 729 | 750 | 771 | 929 | 924 | 920 | 916 | 912 | 046 | 046 | 045 | 045 | 044 | 9.81 008 | 010 | 012 | 015 | 017 | 8 | 2 |
| 58 | 52 | 771 | 792 | 814 | 835 | 856 | 912 | 907 | 903 | 899 | 895 | 044 | 044 | 043 | 043 | 043 | 017 | 019 | 022 | 024 | 026 | 4 | 1 |
| 59 | 56 | 856 | 877 | 898 | 919 | 940 | 895 | 890 | 886 | 882 | 878 | 043 | 042 | 042 | 041 | 041 | 026 | 029 | 031 | 033 | 036 | 52. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 163° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 73° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 17° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 107° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0'' 0s | 15'' 1s | 30'' 2s | 45'' 3s | 60'' 4s | 0'' 0s | 15'' 1s | 30'' 2s | 45'' 3s | 60'' 4s | 0'' 0s | 15'' 1s | 30'' 2s | 45'' 3s | 60'' 4s | 0'' 0s | 15'' 1s | 30'' 2s | 45'' 3s | 60'' 4s | | |
| 0 | 8. 6 | 9.46 591 | 604 | 614 | 625 | 635 | 9.98 060 | 059 | 058 | 057 | 056 | 0.01 940 | 941 | 942 | 943 | 944 | 0.53 406 | 396 | 386 | 375 | 365 | 56 | 59 |
| 1 | 4 | 635 | 645 | 655 | 666 | 676 | 056 | 055 | 054 | 053 | 052 | 944 | 945 | 946 | 947 | 948 | 365 | 355 | 345 | 334 | 324 | 52 | 58 |
| 2 | 8 | 676 | 686 | 697 | 707 | 717 | 052 | 051 | 050 | 049 | 048 | 948 | 949 | 950 | 951 | 952 | 324 | 314 | 303 | 293 | 283 | 48 | 57 |
| 3 | 12 | 717 | 728 | 738 | 748 | 758 | 048 | 047 | 046 | 045 | 044 | 952 | 953 | 954 | 955 | 956 | 283 | 272 | 262 | 252 | 242 | 44 | 56 |
| 4 | 16 | 758 | 769 | 779 | 789 | 800 | 044 | 043 | 042 | 041 | 040 | 956 | 957 | 958 | 959 | 960 | 242 | 231 | 221 | 211 | 200 | 51. 40 | 55 |
| 5 | 8. 20 | 9.46 800 | 810 | 820 | 830 | 841 | 9.98 040 | 039 | 038 | 037 | 036 | 6.01 960 | 961 | 962 | 963 | 964 | 0.53 200 | 190 | 180 | 170 | 159 | 36 | 54 |
| 6 | 24 | 841 | 851 | 861 | 871 | 882 | 036 | 035 | 034 | 033 | 032 | 964 | 965 | 966 | 967 | 968 | 159 | 149 | 139 | 129 | 118 | 32 | 53 |
| 7 | 28 | 882 | 892 | 902 | 912 | 923 | 032 | 032 | 031 | 030 | 029 | 968 | 968 | 969 | 970 | 971 | 118 | 108 | 098 | 088 | 077 | 28 | 52 |
| 8 | 32 | 923 | 933 | 943 | 953 | 964 | 029 | 028 | 027 | 026 | 025 | 971 | 972 | 973 | 974 | 975 | 077 | 067 | 057 | 047 | 036 | 24 | 51 |
| 9 | 36 | * 964 | 974 | 984 | 994 | 005 | 025 | 024 | 023 | 022 | 021 | 975 | 976 | 977 | 978 | 979 | * 036 | 026 | 016 | 006 | 995 | 51. 20 | 50 |
| 10 | 8. 40 | 9.47 005 | 015 | 025 | 035 | 045 | 9.98 021 | 020 | 019 | 018 | 017 | 0.01 979 | 980 | 981 | 982 | 983 | 0.52 995 | 985 | 975 | 965 | 955 | 16 | 49 |
| 11 | 44 | 045 | 056 | 066 | 076 | 086 | 017 | 016 | 015 | 014 | 013 | 983 | 984 | 985 | 986 | 987 | 955 | 944 | 934 | 924 | 914 | 12 | 48 |
| 12 | 48 | 086 | 097 | 107 | 117 | 127 | 013 | 012 | 011 | 010 | 009 | 987 | 988 | 989 | 990 | 991 | 914 | 903 | 893 | 883 | 873 | 8 | 47 |
| 13 | 52 | 127 | 137 | 147 | 158 | 168 | 009 | 008 | 007 | 006 | 005 | 991 | 992 | 993 | 994 | 995 | 873 | 863 | 853 | 842 | 832 | 4 | 46 |
| 14 | 56 | 168 | 178 | 188 | 198 | 209 | 605 | 004 | 003 | 002 | 001 | 995 | 996 | 997 | 998 | 999 | 832 | 822 | 812 | 802 | 791 | 51. 0 | 45 |
| 15 | 9. 0 | 9.47 209 | 219 | 229 | 239 | 249 | * 001 | 000 | 999 | 998 | 997 | * 999 | 000 | 001 | 002 | 003 | 0.52 791 | 781 | 771 | 761 | 751 | 56 | 44 |
| 16 | 4 | 249 | 259 | 270 | 280 | 290 | 9.97 997 | 996 | 995 | 994 | 993 | 6.02 003 | 004 | 005 | 006 | 007 | 751 | 741 | 730 | 720 | 710 | 52 | 43 |
| 17 | 8 | 290 | 300 | 310 | 320 | 330 | 993 | 992 | 991 | 990 | 989 | 007 | 008 | 009 | 010 | 011 | 710 | 700 | 690 | 680 | 670 | 48 | 42 |
| 18 | 12 | 330 | 341 | 351 | 361 | 371 | 989 | 988 | 987 | 987 | 986 | 011 | 012 | 013 | 013 | 014 | 670 | 659 | 649 | 639 | 629 | 44 | 41 |
| 19 | 16 | 371 | 381 | 391 | 401 | 411 | 986 | 985 | 984 | 983 | 982 | 014 | 015 | 016 | 017 | 018 | 629 | 619 | 609 | 599 | 589 | 50. 40 | 40 |
| 20 | 9. 20 | 9.47 411 | 422 | 432 | 442 | 452 | 9.97 982 | 981 | 980 | 979 | 978 | 0.02 018 | 019 | 020 | 021 | 022 | 0.52 589 | 578 | 568 | 558 | 548 | 36 | 39 |
| 21 | 24 | 452 | 462 | 472 | 482 | 492 | 978 | 977 | 976 | 975 | 974 | 022 | 023 | 024 | 625 | 026 | 548 | 538 | 528 | 518 | 508 | 32 | 38 |
| 22 | 28 | 492 | 502 | 513 | 523 | 533 | 974 | 973 | 972 | 971 | 970 | 026 | 027 | 028 | 029 | 030 | 508 | 498 | 487 | 477 | 467 | 28 | 37 |
| 23 | 32 | 533 | 543 | 553 | 563 | 573 | 970 | 969 | 968 | 967 | 966 | 030 | 031 | 032 | 033 | 034 | 467 | 457 | 447 | 137 | 427 | 24 | 36 |
| 24 | 36 | 573 | 583 | 593 | 603 | 613 | 966 | 965 | 964 | 963 | 962 | 034 | 035 | 036 | 037 | 038 | 427 | 417 | 407 | 397 | 387 | 50. 20 | 35 |
| 25 | 9. 40 | 9.47 613 | 623 | 633 | 644 | 654 | 9.97 962 | 961 | 960 | 959 | 958 | 0.02 038 | 039 | 040 | 041 | 042 | 0.52 387 | 377 | 367 | 356 | 346 | 16 | 34 |
| 26 | 44 | 654 | 664 | 674 | 684 | 694 | 958 | 957 | 956 | 955 | 954 | 642 | 043 | 044 | 045 | 046 | 346 | 336 | 326 | 316 | 306 | 12 | 33 |
| 27 | 48 | 694 | 704 | 714 | 724 | 734 | 954 | 953 | 952 | 951 | 950 | 646 | 047 | 048 | 049 | 050 | 306 | 296 | 286 | 276 | 266 | 8 | 32 |
| 28 | 52 | 734 | 744 | 754 | 764 | 774 | 950 | 949 | 948 | 947 | 946 | 050 | 051 | 052 | 053 | 054 | 266 | 256 | 246 | 236 | 226 | 4 | 31 |
| 29 | 56 | 774 | 784 | 794 | 804 | 814 | 946 | 945 | 944 | 943 | 942 | 654 | 055 | 056 | 657 | 058 | 226 | 216 | 206 | 196 | 106 | 50. 6 | 30 |
| 30 | 10. 0 | 9.47 814 | 824 | 834 | 844 | 854 | 2.97 942 | 941 | 940 | 939 | 938 | 0.02 058 | 059 | 060 | 061 | 062 | 6.52 186 | 176 | 166 | 156 | 146 | 56 | 29 |
| 31 | 4 | 854 | 864 | 874 | 884 | 894 | 938 | 937 | 936 | 935 | 934 | 062 | 063 | 064 | 065 | 066 | 146 | 136 | 126 | 116 | 106 | 52 | 28 |
| 32 | 8 | 894 | 904 | 914 | 924 | 934 | 934 | 933 | 932 | 931 | 930 | 066 | 067 | 068 | 069 | 670 | 106 | 096 | 086 | 076 | 066 | 48 | 27 |
| 33 | 12 | 934 | 944 | 954 | 964 | 974 | 930 | 929 | 928 | 927 | 926 | 070 | 071 | 072 | 073 | 074 | 066 | 056 | 046 | 036 | 026 | 44 | 26 |
| 34 | 16 | * 974 | 984 | 994 | 004 | 014 | 926 | 925 | 924 | 923 | 922 | 074 | 075 | 076 | 077 | 078 | * 026 | 016 | 006 | 996 | 986 | 49. 40 | 25 |
| 35 | 10. 20 | 9.48 014 | 024 | 034 | 044 | 054 | 9.97 922 | 921 | 920 | 919 | 918 | 0.02 078 | 079 | 080 | 081 | 082 | 0.51 986 | 976 | 966 | 956 | 946 | 36 | 24 |
| 36 | 24 | 054 | 661 | 074 | 084 | 094 | 918 | 917 | 916 | 915 | 914 | 082 | 083 | 084 | 685 | 086 | 946 | 936 | 925 | 916 | 906 | 32 | 23 |
| 37 | 28 | 094 | 104 | 114 | 123 | 133 | 914 | 913 | 912 | 911 | 910 | 086 | 087 | 088 | 089 | 090 | 906 | 896 | 886 | 877 | 867 | 28 | 22 |
| 38 | 32 | 133 | 143 | 153 | 163 | 173 | 910 | 909 | 908 | 907 | 906 | 090 | 091 | 092 | 093 | 094 | 867 | 857 | 847 | 837 | 827 | 24 | 21 |
| 39 | 36 | 173 | 183 | 193 | 203 | 213 | 906 | 905 | 904 | 903 | 902 | 094 | 095 | 096 | 097 | 098 | 827 | 817 | 807 | 797 | 787 | 49. 20 | 20 |
| 40 | 10. 40 | 9.48 213 | 223 | 233 | 243 | 252 | 9.97 902 | 901 | 900 | 899 | 898 | 0.02 098 | 099 | 100 | 101 | 102 | 0.51 787 | 777 | 767 | 757 | 748 | 16 | 19 |
| 41 | 44 | 252 | 262 | 272 | 282 | 292 | 898 | 897 | 896 | 895 | 894 | 102 | 103 | 104 | 105 | 106 | 748 | 738 | 728 | 718 | 708 | 12 | 18 |
| 42 | 48 | 292 | 302 | 312 | 322 | 332 | 894 | 893 | 892 | 891 | 890 | 106 | 107 | 108 | 109 | 110 | 708 | 698 | 688 | 678 | 668 | 8 | 17 |
| 43 | 52 | 332 | 342 | 351 | 361 | 371 | 890 | 889 | 888 | 887 | 886 | 110 | 111 | 112 | 113 | 114 | 668 | 658 | 649 | 639 | 629 | 4 | 16 |
| 44 | 56 | 371 | 381 | 391 | 401 | 411 | 886 | 885 | 884 | 883 | 882 | 114 | 115 | 116 | 117 | 118 | 629 | 619 | 609 | 599 | 589 | 19. 0 | 15 |
| 45 | 11. 0 | 9.48 411 | 421 | 430 | 440 | 450 | 9.97 882 | 881 | 880 | 879 | 878 | 0.62 118 | 119 | 120 | 121 | 122 | 6.51 589 | 579 | 570 | 560 | 550 | 56 | 14 |
| 46 | 4 | 450 | 460 | 470 | 480 | 490 | 878 | 877 | 876 | 875 | 874 | 122 | 123 | 124 | 125 | 126 | 550 | 540 | 530 | 520 | 510 | 52 | 13 |
| 47 | 8 | 490 | 199 | 509 | 519 | 529 | 874 | 873 | 872 | 871 | 870 | 126 | 127 | 128 | 129 | 130 | 510 | 501 | 491 | 481 | 471 | 48 | 12 |
| 48 | 12 | 529 | 539 | 549 | 558 | 568 | 870 | 869 | 868 | 867 | 866 | 130 | 131 | 132 | 133 | 134 | 471 | 461 | 451 | 442 | 432 | 44 | 11 |
| 49 | 16 | 568 | 578 | 588 | 398 | 607 | 866 | 865 | 864 | 863 | 861 | 134 | 135 | 136 | 137 | 139 | 432 | 422 | 112 | 402 | 393 | 48. 46 | 16 |
| 50 | 11. 20 | 9.48 607 | 617 | 627 | 637 | 647 | 9.97 861 | 860 | 859 | 858 | 857 | 0.62 139 | 140 | 141 | 142 | 143 | 0.51 393 | 383 | 373 | 363 | 353 | 36 | 9 |
| 51 | 24 | 647 | 657 | 656 | 676 | 686 | 857 | 856 | 855 | 854 | 853 | 143 | 144 | 145 | 146 | 147 | 353 | 343 | 334 | 324 | 314 | 32 | 8 |
| 52 | 28 | 686 | 696 | 706 | 715 | 725 | 853 | 852 | 851 | 850 | 849 | 147 | 148 | 149 | 150 | 151 | 314 | 364 | 294 | 285 | 275 | 28 | 7 |
| 53 | 32 | 725 | 735 | 745 | 754 | 764 | 849 | 848 | 847 | 846 | 845 | 151 | 152 | 153 | 154 | 155 | 275 | 265 | 255 | 246 | 236 | 24 | 6 |
| 54 | 36 | 764 | 774 | 784 | 794 | 803 | 845 | 844 | 843 | 842 | 841 | 155 | 156 | 157 | 158 | 159 | 236 | 226 | 216 | 206 | 197 | 48. 26 | 5 |
| 55 | 11. 40 | 9.48 803 | 813 | 823 | 833 | 842 | 9.97 841 | 840 | 839 | 838 | 837 | 0.02 159 | 160 | 161 | 162 | 163 | 0.51 197 | 187 | 177 | 167 | 158 | 16 | 4 |
| 56 | 44 | 842 | 852 | 862 | 872 | 881 | 837 | 836 | 835 | 834 | 833 | 163 | 164 | 165 | 166 | 167 | 158 | 148 | 138 | 128 | 119 | 12 | 3 |
| 57 | 48 | 881 | 891 | 901 | 911 | 920 | 833 | 832 | 831 | 830 | 829 | 167 | 168 | 169 | 170 | 171 | 119 | 109 | 099 | 089 | 080 | 8 | 2 |
| 58 | 52 | 920 | 930 | 940 | 950 | 959 | 829 | 828 | 827 | 826 | 825 | 171 | 172 | 173 | 174 | 175 | 080 | 070 | 060 | 050 | 041 | 4 | 1 |
| 59 | 56 | 959 | 969 | 979 | 989 | 998 | 825 | 824 | 823 | 822 | 821 | 175 | 176 | 177 | 178 | 179 | 641 | 031 | 021 | 011 | 002 | 48. 6 | 0 |
| | | 4s 60'' | 3s 45'' | 2s 30'' | 1s 15'' | 0s 0'' | 4s 60'' | 3s 45'' | 2s 30'' | 1s 15'' | 0s 0'' | 4s 60'' | 3s 45'' | 2s 30'' | 1s 15'' | 0s 0'' | 4s 60'' | 3s 45'' | 2s 30'' | 1s 15'' | 0s 0'' | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 162° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 72° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 17° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 107° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 6″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 8. 0 | 8. 33*940 | 962 | 983 | 004 | 025 | 9. 54 678 | 873 | 869 | 865 | 860 | 9. 99 011 | 040 | 040 | 039 | 039 | 9. 81 036 | 038 | 040 | 043 | 045 | 56 | 59 |
| 1 | 4 | 8. 34 025 | 046 | 067 | 088 | 109 | 860 | 856 | 859 | 848 | 843 | 039 | 038 | 038 | 037 | 037 | 045 | 047 | 050 | 052 | 054 | 62 | 58 |
| 2 | 8 | 109 | 130 | 151 | 173 | 194 | 843 | 839 | 835 | 831 | 896 | 037 | 036 | 036 | 035 | 035 | 054 | 057 | 059 | 061 | 064 | 48 | 57 |
| 3 | 12 | 194 | 215 | 936 | 257 | 278 | 826 | 822 | 816 | 813 | 809 | 035 | 034 | 034 | 034 | 033 | 064 | 066 | 068 | 071 | 073 | 44 | 56 |
| 4 | 16 | 278 | 299 | 320 | 341 | 362 | 809 | 805 | 801 | 796 | 792 | 033 | 033 | 032 | 032 | 031 | 073 | 075 | 078 | 080 | 082 | 51. 40 | 55 |
| 5 | 8. 20 | 8. 34 362 | 383 | 404 | 425 | 446 | 9. 54 792 | 788 | 784 | 779 | 775 | 9. 92 031 | 031 | 030 | 030 | 029 | 9. 81 082 | 085 | 087 | 089 | 092 | 36 | 54 |
| 6 | 24 | 446 | 467 | 488 | 509 | 530 | 775 | 771 | 766 | 762 | 758 | 029 | 029 | 028 | 098 | 027 | 092 | 094 | 096 | 099 | 101 | 32 | 63 |
| 7 | 28 | 530 | 551 | 572 | 593 | 614 | 758 | 754 | 749 | 745 | 741 | 027 | 027 | 026 | 026 | 025 | 101 | 103 | 106 | 108 | 110 | 28 | 52 |
| 8 | 32 | 614 | 635 | 656 | 677 | 698 | 741 | 736 | 732 | 728 | 724 | 025 | 095 | 025 | 024 | 024 | 110 | 113 | 115 | 117 | 120 | 24 | 51 |
| 9 | 36 | 698 | 719 | 740 | 761 | 782 | 724 | 719 | 715 | 741 | 707 | 094 | 023 | 023 | 022 | 022 | 120 | 122 | 124 | 127 | 129 | 51. 20 | 50 |
| 10 | 8. 40 | 8. 34 782 | 802 | 823 | 844 | 865 | 9. 54 707 | 702 | 698 | 694 | 689 | 9. 99 022 | 021 | 021 | 020 | 020 | 9. 81 129 | 131 | 134 | 136 | 138 | 16 | 49 |
| 11 | 44 | 865 | 886 | 907 | 928 | 949 | 689 | 685 | 681 | 677 | 672 | 620 | 019 | 012 | 018 | 018 | 138 | 141 | 143 | 145 | 140 | 12 | 48 |
| 12 | 48 | * 949 | 970 | 991 | 011 | 032 | 672 | 668 | 664 | 659 | 655 | 018 | 017 | 017 | 016 | 016 | 148 | 150 | 152 | 155 | 157 | 8 | 47 |
| 13 | 52 | 8. 35 032 | 053 | 074 | 095 | 116 | 655 | 651 | 647 | 649 | 638 | 016 | 015 | 015 | 014 | 014 | 157 | 159 | 162 | 164 | 166 | 4 | 46 |
| 14 | 56 | 116 | 137 | 157 | 178 | 199 | 538 | 634 | 629 | 625 | 691 | 614 | 014 | 013 | 013 | 012 | 166 | 169 | 171 | 173 | 176 | 51. 5 | 46 |
| 15 | 9. 0 | 8. 35 199 | 220 | 941 | 961 | 282 | 9. 54 621 | 617 | 612 | 608 | 604 | 9. 99 012 | 012 | 011 | 011 | 010 | 9. 81 176 | 178 | 180 | 183 | 185 | 56 | 44 |
| 16 | 4 | 282 | 303 | 324 | 345 | 365 | 604 | 599 | 595 | 591 | 587 | 610 | 010 | 009 | 009 | 008 | 185 | 187 | 190 | 192 | 194 | 52 | 43 |
| 17 | 6 | 365 | 386 | 407 | 428 | 448 | 587 | 582 | 578 | 574 | 569 | 008 | 008 | 007 | 007 | 006 | 194 | 197 | 199 | 201 | 204 | 48 | 49 |
| 16 | 12 | 448 | 469 | 490 | 511 | 531 | 569 | 565 | 561 | 556 | 552 | 006 | 006 | 005 | 005 | 004 | 204 | 906 | 208 | 211 | 213 | 44 | 41 |
| 19 | 16 | 531 | 552 | 573 | 594 | 614 | 552 | 548 | 544 | 539 | 535 | 004 | 004 | 003 | 003 | 003 | 213 | 915 | 917 | 220 | 222 | 50. 40 | 40 |
| 26 | 9. 20 | 8. 35 614 | 635 | 656 | 677 | 697 | 9. 54 535 | 531 | 526 | 522 | 518 | 9. 99 003 | 002 | 002 | 001 | 001 | 9. 81 222 | 224 | 927 | 229 | 231 | 36 | 39 |
| 21 | 24 | 597 | 718 | 739 | 759 | 780 | 518 | 514 | 509 | 505 | 501 | * 001 | 000 | 000 | 999 | 999 | 231 | 234 | 236 | 238 | 241 | 32 | 38 |
| 22 | 28 | 780 | 801 | 821 | 842 | 863 | 501 | 496 | 492 | 488 | 403 | 9. 98 999 | 998 | 998 | 997 | 997 | 241 | 243 | 245 | 948 | 250 | 28 | 37 |
| 23 | 32 | 063 | 883 | 904 | 925 | 945 | 483 | 479 | 475 | 471 | 466 | 997 | 996 | 996 | 995 | 995 | 250 | 252 | 255 | 257 | 959 | 24 | 36 |
| 24 | 36 | * 945 | 966 | 987 | 007 | 028 | 466 | 462 | 458 | 453 | 449 | 995 | 994 | 994 | 993 | 993 | 259 | 269 | 264 | 266 | 269 | 50. 20 | 36 |
| 25 | 9. 40 | 8. 36 098 | 048 | 069 | 090 | 110 | 9. 54 449 | 445 | 440 | 436 | 432 | 9. 98 993 | 992 | 992 | 991 | 991 | 9. 81 269 | 271 | 273 | 276 | 278 | 16 | 34 |
| 26 | 44 | 110 | 131 | 151 | 179 | 123 | 432 | 428 | 423 | 419 | 415 | 991 | 990 | 990 | 989 | 989 | 278 | 200 | 202 | 285 | 287 | 12 | 33 |
| 27 | 48 | 193 | 213 | 234 | 254 | 975 | 415 | 410 | 406 | 402 | 397 | 989 | 989 | 988 | 988 | 987 | 287 | 989 | 292 | 294 | 296 | 8 | 32 |
| 26 | 52 | 276 | 295 | 316 | 337 | 357 | 397 | 393 | 389 | 385 | 380 | 987 | 987 | 986 | 986 | 985 | 296 | 999 | 301 | 303 | 306 | 4 | 31 |
| 29 | 56 | 357 | 378 | 398 | 419 | 439 | 380 | 376 | 372 | 367 | 363 | 985 | 985 | 984 | 984 | 983 | 306 | 308 | 310 | 313 | 315 | 50. 5 | 30 |
| 30 | 16. 0 | 8. 36 439 | 460 | 480 | 501 | 521 | 9. 54 363 | 359 | 354 | 350 | 346 | 9. 98 983 | 983 | 982 | 989 | 981 | 9. 81 315 | 317 | 390 | 392 | 394 | 56 | 29 |
| 31 | 4 | 521 | 542 | 562 | 583 | 603 | 346 | 341 | 337 | 333 | 329 | 981 | 981 | 980 | 980 | 979 | 324 | 326 | 329 | 331 | 333 | 52 | 20 |
| 32 | 8 | 603 | 624 | 644 | 665 | 685 | 329 | 324 | 320 | 316 | 311 | 979 | 979 | 978 | 978 | 977 | 333 | 336 | 338 | 340 | 343 | 48 | 27 |
| 33 | 12 | 685 | 706 | 796 | 746 | 767 | 311 | 307 | 303 | 290 | 994 | 977 | 977 | 976 | 976 | 975 | 343 | 345 | 347 | 350 | 359 | 44 | 26 |
| 34 | 16 | 767 | 787 | 008 | 828 | 849 | 294 | 290 | 285 | 981 | 277 | 975 | 975 | 974 | 974 | 973 | 352 | 354 | 357 | 359 | 361 | 49. 40 | 25 |
| 35 | 10. 20 | 8. 36 849 | 869 | 889 | 910 | 930 | 9. 54 277 | 972 | 268 | 964 | 260 | 9. 98 973 | 973 | 972 | 972 | 971 | 9. 81 361 | 363 | 366 | 368 | 370 | 36 | 24 |
| 36 | 24 | * 930 | 951 | 971 | 991 | 012 | 260 | 255 | 251 | 247 | 242 | 971 | 971 | 970 | 970 | 970 | 370 | 373 | 375 | 377 | 300 | 32 | 23 |
| 37 | 28 | 8. 37 512 | 032 | 053 | 073 | 093 | 242 | 238 | 234 | 229 | 295 | 970 | 969 | 969 | 968 | 968 | 380 | 382 | 384 | 387 | 389 | 28 | 22 |
| 38 | 32 | 593 | 114 | 134 | 154 | 175 | 225 | 221 | 216 | 212 | 208 | 968 | 967 | 967 | 966 | 966 | 389 | 391 | 394 | 396 | 398 | 24 | 21 |
| 39 | 36 | 175 | 195 | 215 | 936 | 256 | 208 | 903 | 192 | 195 | 190 | 966 | 965 | 965 | 964 | 964 | 398 | 400 | 403 | 405 | 407 | 49. 20 | 20 |
| 40 | 10. 40 | 8. 37 256 | 276 | 997 | 317 | 337 | 9. 54 190 | 186 | 182 | 177 | 173 | 9. 98 964 | 963 | 963 | 962 | 962 | 9. 81 407 | 410 | 412 | 414 | 417 | 16 | 19 |
| 41 | 44 | 337 | 358 | 378 | 398 | 418 | 173 | 169 | 164 | 160 | 156 | 962 | 961 | 961 | 960 | 960 | 417 | 419 | 421 | 424 | 426 | 12 | 16 |
| 42 | 48 | 418 | 439 | 452 | 479 | 500 | 156 | 159 | 147 | 143 | 139 | 960 | 959 | 959 | 958 | 958 | 426 | 428 | 430 | 433 | 435 | 8 | 17 |
| 43 | 62 | 500 | 520 | 540 | 560 | 581 | 139 | 134 | 130 | 126 | 121 | 938 | 957 | 957 | 956 | 956 | 435 | 437 | 440 | 442 | 444 | 4 | 16 |
| 44 | 56 | 581 | 661 | 621 | 641 | 669 | 121 | 117 | 113 | 108 | 104 | 956 | 955 | 955 | 954 | 254 | 444 | 447 | 449 | 451 | 454 | 49. 0 | 15 |
| 45 | 11. 6 | 8. 37 669 | 682 | 702 | 722 | 742 | 9. 54 104 | 100 | 095 | 091 | 087 | 9. 98 954 | 953 | 953 | 959 | 952 | 9. 81 454 | 456 | 458 | 460 | 463 | 56 | 14 |
| 46 | 4 | 742 | 763 | 783 | 803 | 823 | 087 | 082 | 078 | 074 | 069 | 959 | 951 | 951 | 950 | 950 | 463 | 465 | 467 | 470 | 472 | 62 | 13 |
| 47 | 8 | 823 | 043 | 864 | 884 | 904 | 069 | 065 | 061 | 056 | 052 | 950 | 949 | 949 | 948 | 948 | 472 | 474 | 477 | 479 | 401 | 48 | 12 |
| 48 | 12 | 904 | 924 | 944 | 964 | 985 | 052 | 048 | 043 | 039 | 035 | 948 | 947 | 947 | 946 | 946 | 481 | 483 | 485 | 488 | 490 | 44 | 11 |
| 49 | 16 | * 965 | 005 | 025 | 045 | 065 | 035 | 030 | 096 | 022 | 017 | 946 | 945 | 945 | 944 | 944 | 490 | 493 | 495 | 497 | 500 | 48. 40 | 10 |
| 50 | 11. 20 | 8. 38 665 | 086 | 105 | 125 | 146 | 9. 54 017 | 013 | 009 | 004 | 000 | 9. 98 944 | 943 | 943 | 942 | 942 | 9. 81 500 | 509 | 504 | 507 | 509 | 36 | 9 |
| 51 | 24 | 146 | 166 | 186 | 206 | 926 | * 000 | 996 | 991 | 987 | 983 | 942 | 941 | 941 | 940 | 940 | 509 | 511 | 513 | 516 | 518 | 39 | 8 |
| 52 | 28 | 226 | 246 | 266 | 986 | 306 | 9. 53 983 | 978 | 974 | 970 | 965 | 940 | 939 | 939 | 938 | 938 | 518 | 520 | 593 | 595 | 527 | 28 | 7 |
| 53 | 32 | 306 | 326 | 348 | 366 | 387 | 965 | 961 | 957 | 959 | 948 | 938 | 937 | 937 | 936 | 936 | 527 | 630 | 532 | 534 | 536 | 24 | 5 |
| 54 | 36 | 387 | 407 | 427 | 447 | 467 | 948 | 944 | 939 | 935 | 931 | 936 | 935 | 935 | 934 | 934 | 536 | 539 | 541 | 543 | 546 | 48. 20 | 6 |
| 55 | 11. 40 | 8. 36 467 | 487 | 507 | 527 | 547 | 9. 53 931 | 926 | 922 | 918 | 913 | 9. 98 934 | 933 | 933 | 932 | 932 | 9. 81 546 | 548 | 550 | 552 | 555 | 16 | 4 |
| 56 | 44 | 547 | 567 | 587 | 607 | 627 | 913 | 909 | 905 | 900 | 896 | 932 | 931 | 931 | 930 | 930 | 655 | 557 | 569 | 569 | 564 | 12 | 3 |
| 57 | 48 | 627 | 647 | 667 | 687 | 707 | 896 | 092 | 887 | 803 | 878 | 930 | 929 | 929 | 998 | 928 | 664 | 566 | 569 | 571 | 573 | 8 | 2 |
| 58 | 62 | 707 | 797 | 747 | 767 | 787 | 878 | 874 | 870 | 865 | 851 | 928 | 927 | 997 | 926 | 926 | 573 | 575 | 578 | 580 | 502 | 4 | 1 |
| 59 | 56 | 767 | 807 | 027 | 847 | 066 | 861 | 857 | 852 | 848 | 844 | 926 | 925 | 925 | 994 | 994 | 582 | 585 | 587 | 589 | 592 | 48. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 5° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 162° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 72° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 18° / 128° | 1h / 7h | Seno / Coseno |  |  |  |  | Coseno / Seno |  |  |  |  | Secante / Cosecante |  |  |  |  | Cosecante / Secante |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 6″ 0° | 15″ 1° | 32″ 2° | 45″ 3° | 68″ 4° | 5″ 0° | 15″ 1° | 32″ 2° | 45″ 3° | 60″ 4° | 0″ 8° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 5° | 16″ 1° | 30″ 2° | 45″ 3° | 50″ 4° |  |  |
| 5 | 12. 0 | 9.45*996 | 508 | 518 | 027 | 037 | 9.97 821 | 522 | 819 | 215 | 617 | 0.02 179 | 180 | 181 | 182 | 153 | 0.51*002 | 992 | 952 | 273 | 263 | 55 | 59 |
| 1 | 4 | 9.49 537 | 047 | 557 | 056 | 076 | 817 | 815 | 214 | 613 | 812 | 163 | 185 | 125 | 127 | 188 | 0.50 953 | 953 | 243 | 934 | 224 | 52 | 56 |
| 2 | 8 | 576 | 066 | 026 | 105 | 115 | 812 | 811 | 810 | 809 | 828 | 168 | 159 | 122 | 191 | 122 | 224 | 214 | 205 | 625 | 825 | 42 | 67 |
| 3 | 12 | 115 | 124 | 134 | 144 | 153 | 858 | 857 | 856 | 256 | 524 | 122 | 193 | 124 | 125 | 196 | 825 | 676 | 865 | 656 | 847 | 44 | 56 |
| 4 | 16 | 153 | 153 | 173 | 102 | 192 | 654 | 823 | 822 | 851 | 820 | 126 | 127 | 128 | 192 | 200 | 847 | 837 | 827 | 618 | 806 | 47. 42 | 55 |
| 5 | 12. 20 | 9.49 192 | 202 | 211 | 221 | 231 | 9.27 850 | 729 | 728 | 797 | 726 | 0.02 200 | 201 | 202 | 203 | 204 | 0.50 608 | 728 | 789 | 779 | 769 | 36 | 54 |
| 6 | 24 | 231 | 240 | 250 | 250 | 262 | 726 | 795 | 794 | 793 | 722 | 204 | 205 | 226 | 227 | 208 | 769 | 760 | 750 | 740 | 731 | 32 | 53 |
| 7 | 28 | 262 | 279 | 229 | 228 | 308 | 792 | 791 | 790 | 789 | 728 | 208 | 252 | 210 | 211 | 212 | 731 | 721 | 711 | 702 | 622 | 28 | 52 |
| 8 | 32 | 308 | 318 | 327 | 337 | 347 | 728 | 787 | 786 | 785 | 784 | 212 | 213 | 214 | 215 | 216 | 692 | 662 | 673 | 663 | 653 | 24 | 51 |
| 9 | 36 | 347 | 356 | 366 | 375 | 385 | 784 | 782 | 761 | 780 | 772 | 216 | 212 | 212 | 222 | 221 | 653 | 644 | 634 | 624 | 615 | 47. 20 | 50 |
| 15 | 12. 40 | 9.42 385 | 395 | 404 | 414 | 424 | 9.97 772 | 778 | 777 | 776 | 775 | 0.52 221 | 222 | 223 | 224 | 225 | 0.50 615 | 605 | 526 | 586 | 576 | 16 | 42 |
| 11 | 41 | 424 | 433 | 443 | 452 | 162 | 775 | 774 | 773 | 772 | 771 | 225 | 226 | 227 | 228 | 222 | 576 | 567 | 557 | 548 | 538 | 12 | 48 |
| 12 | 48 | 462 | 472 | 481 | 421 | 500 | 771 | 770 | 762 | 768 | 767 | 229 | 232 | 231 | 232 | 233 | 538 | 528 | 519 | 522 | 500 | 8 | 47 |
| 13 | 52 | 520 | 510 | 520 | 529 | 539 | 767 | 766 | 765 | 764 | 763 | 233 | 234 | 235 | 236 | 237 | 520 | 420 | 480 | 471 | 461 | 4 | 46 |
| 14 | 56 | 539 | 548 | 558 | 568 | 577 | 763 | 762 | 761 | 760 | 759 | 237 | 238 | 232 | 240 | 241 | 461 | 452 | 442 | 432 | 423 | 47. 6 | 45 |
| 15 | 13. 0 | 2.49 577 | 587 | 526 | 606 | 615 | 2.97 759 | 758 | 757 | 755 | 754 | 0.02 241 | 242 | 243 | 245 | 246 | 0.50 423 | 413 | 404 | 394 | 385 | 56 | 44 |
| 16 | 4 | 615 | 625 | 635 | 644 | 654 | 754 | 753 | 752 | 751 | 750 | 246 | 247 | 242 | 249 | 255 | 325 | 375 | 365 | 356 | 346 | 52 | 43 |
| 17 | 6 | 654 | 563 | 573 | 582 | 622 | 750 | 742 | 748 | 747 | 746 | 250 | 251 | 252 | 253 | 254 | 346 | 337 | 327 | 318 | 308 | 48 | 42 |
| 18 | 12 | 522 | 751 | 711 | 721 | 730 | 746 | 745 | 744 | 743 | 742 | 254 | 255 | 266 | 257 | 258 | 308 | 299 | 289 | 272 | 272 | 44 | 41 |
| 12 | 16 | 730 | 745 | 742 | 759 | 768 | 742 | 741 | 740 | 732 | 738 | 258 | 259 | 260 | 261 | 262 | 272 | 262 | 251 | 241 | 232 | 46. 40 | 40 |
| 20 | 13. 20 | 9.49 768 | 778 | 787 | 727 | 806 | 2.97 738 | 737 | 736 | 735 | 734 | 0.02 252 | 263 | 264 | 265 | 266 | 0.55 232 | 222 | 213 | 203 | 124 | 36 | 39 |
| 21 | 24 | 506 | 816 | 225 | 835 | 844 | 734 | 732 | 731 | 735 | 729 | 266 | 268 | 262 | 270 | 271 | 124 | 184 | 175 | 165 | 156 | 32 | 30 |
| 22 | 28 | 544 | 854 | 863 | 873 | 882 | 722 | 722 | 727 | 725 | 725 | 271 | 272 | 273 | 274 | 275 | 156 | 146 | 137 | 127 | 118 | 22 | 37 |
| 23 | 32 | 882 | 892 | 901 | 211 | 225 | 725 | 724 | 723 | 722 | 721 | 275 | 276 | 277 | 278 | 279 | 118 | 108 | 099 | 089 | 280 | 24 | 35 |
| 21 | 36 | 220 | 232 | 239 | 242 | 258 | 721 | 725 | 719 | 718 | 717 | 272 | 280 | 281 | 282 | 283 | - 880 | 272 | 061 | 251 | 242 | 46. 22 | 35 |
| 25 | 13. 40 | 9.49 258 | 968 | 977 | 987 | 296 | 9.97 717 | 716 | 715 | 714 | 713 | 0.02 283 | 284 | 285 | 286 | 267 | 0.55 042 | 032 | 023 | 213 | 024 | 16 | 34 |
| 26 | 44 | * 226 | 006 | 015 | 025 | 034 | 713 | 711 | 710 | 709 | 758 | 287 | 289 | 290 | 221 | 292 | * 554 | 294 | 285 | 275 | 966 | 12 | 33 |
| 27 | 48 | 9.50 034 | 044 | 253 | 253 | 072 | 708 | 757 | 726 | 705 | 704 | 292 | 223 | 224 | 295 | 296 | 0.49 966 | 256 | 247 | 237 | 226 | 8 | 32 |
| 28 | 62 | 572 | 052 | 091 | 122 | 110 | 704 | 703 | 722 | 721 | 700 | 296 | 297 | 228 | 292 | 300 | 928 | 918 | 909 | 920 | 695 | 4 | 31 |
| 22 | 56 | 115 | 119 | 122 | 138 | 148 | 720 | 622 | 628 | 627 | 696 | 300 | 361 | 322 | 323 | 324 | 692 | 881 | 871 | 862 | 852 | 46 0 | 38 |
| 30 | 14. 0 | 9.50 148 | 157 | 167 | 175 | 185 | 9.97 696 | 625 | 624 | 622 | 691 | 0.82 324 | 305 | 306 | 308 | 309 | 0.49 852 | 843 | 833 | 824 | 815 | 56 | 29 |
| 31 | 4 | 185 | 125 | 224 | 214 | 223 | 521 | 622 | 689 | 688 | 687 | 309 | 312 | 311 | 312 | 313 | 815 | 855 | 796 | 786 | 777 | 62 | 28 |
| 32 | 2 | 223 | 232 | 242 | 251 | 261 | 687 | 686 | 885 | 681 | 683 | 313 | 314 | 315 | 316 | 317 | 777 | 767 | 758 | 742 | 739 | 48 | 27 |
| 33 | 12 | 261 | 270 | 285 | 289 | 228 | 553 | 662 | 681 | 680 | 672 | 317 | 318 | 312 | 320 | 321 | 739 | 730 | 722 | 711 | 702 | 44 | 26 |
| 34 | 15 | 228 | 328 | 317 | 327 | 336 | 679 | 678 | 677 | 675 | 674 | 321 | 322 | 323 | 324 | 326 | 702 | 622 | 683 | 673 | 664 | 45. 40 | 25 |
| 35 | 14. 25 | 9.55 336 | 345 | 355 | 364 | 374 | 2.97 574 | 673 | 672 | 671 | 670 | 0.52 326 | 327 | 328 | 329 | 330 | 0.49 654 | 655 | 645 | 636 | 626 | 36 | 24 |
| 36 | 24 | 374 | 383 | 392 | 422 | 411 | 570 | 669 | 656 | 667 | 666 | 332 | 331 | 332 | 333 | 334 | 626 | 617 | 522 | 598 | 589 | 32 | 23 |
| 37 | 22 | 411 | 422 | 430 | 439 | 449 | 556 | 565 | 664 | 663 | 662 | 334 | 335 | 336 | 337 | 338 | 589 | 582 | 570 | 561 | 551 | 28 | 22 |
| 38 | 32 | 442 | 456 | 457 | 477 | 486 | 562 | 661 | 660 | 659 | 657 | 338 | 332 | 342 | 341 | 343 | 551 | 542 | 533 | 523 | 514 | 24 | 21 |
| 39 | 36 | 426 | 425 | 505 | 514 | 523 | 557 | 656 | 656 | 654 | 653 | 343 | 344 | 345 | 346 | 347 | 614 | 525 | 425 | 485 | 477 | 45. 22 | 20 |
| 40 | 14. 40 | 9.50 523 | 533 | 542 | 551 | 561 | 9.97 653 | 652 | 651 | 650 | 649 | 0.62 347 | 348 | 349 | 350 | 351 | 0.49 477 | 467 | 458 | 442 | 432 | 16 | 19 |
| 41 | 44 | 561 | 570 | 579 | 582 | 528 | 649 | 648 | 647 | 646 | 645 | 351 | 352 | 353 | 354 | 355 | 439 | 430 | 121 | 411 | 402 | 12 | 15 |
| 42 | 48 | 528 | 627 | 617 | 626 | 635 | 545 | 543 | 642 | 641 | 640 | 355 | 356 | 355 | 359 | 360 | 422 | 323 | 383 | 374 | 365 | 8 | 27 |
| 43 | 52 | 635 | 645 | 654 | 563 | 673 | 640 | 632 | 838 | 537 | 636 | 360 | 361 | 362 | 363 | 364 | 365 | 355 | 346 | 337 | 327 | 4 | 10 |
| 44 | 56 | 673 | 622 | 691 | 721 | 710 | 636 | 635 | 634 | 633 | 632 | 364 | 365 | 366 | 367 | 368 | 327 | 318 | 329 | 299 | 292 | 45. 8 | 15 |
| 45 | 16. 8 | 9.50 715 | 719 | 722 | 738 | 747 | 2.97 532 | 631 | 630 | 629 | 627 | 0.62 368 | 369 | 370 | 371 | 373 | 5.49 225 | 281 | 271 | 262 | 253 | 56 | 14 |
| 46 | 4 | 747 | 756 | 765 | 775 | 764 | 527 | 626 | 625 | 624 | 623 | 373 | 374 | 375 | 376 | 377 | 253 | 244 | 234 | 225 | 216 | 52 | 13 |
| 47 | 6 | 784 | 724 | 803 | 812 | 821 | 523 | 522 | 621 | 620 | 612 | 377 | 378 | 372 | 322 | 381 | 216 | 226 | 127 | 188 | 179 | 48 | 12 |
| 48 | 12 | 821 | 631 | 840 | 849 | 859 | 612 | 618 | 617 | 616 | 615 | 381 | 382 | 383 | 364 | 385 | 172 | 169 | 160 | 151 | 141 | 44 | 11 |
| 49 | 16 | 259 | 868 | 877 | 886 | 896 | 615 | 614 | 612 | 611 | 610 | 385 | 386 | 388 | 389 | 390 | 141 | 132 | 123 | 114 | 124 | 44. 42 | 15 |
| 50 | 15. 20 | 9.50 896 | 205 | 214 | 923 | 233 | 9.97 515 | 629 | 606 | 627 | 606 | 0.52 390 | 321 | 322 | 323 | 394 | 5.49 154 | 095 | 086 | 077 | 057 | 36 | 2 |
| 51 | 24 | 933 | 242 | 251 | 962 | 970 | 606 | 625 | 604 | 653 | 622 | 324 | 325 | 326 | 397 | 398 | 067 | 058 | 249 | 042 | 030 | 32 | 8 |
| 52 | 28 | * 270 | 279 | 202 | 997 | 007 | 602 | 551 | 650 | 526 | 597 | 396 | 399 | 455 | 422 | 403 | * 030 | 021 | 012 | 083 | 293 | 28 | 7 |
| 53 | 32 | 9.51 007 | 016 | 025 | 034 | 043 | 597 | 526 | 595 | 524 | 593 | 453 | 454 | 455 | 406 | 407 | 0.48 923 | 984 | 275 | 966 | 257 | 24 | 5 |
| 54 | 36 | 043 | 053 | 562 | 071 | 282 | 593 | 522 | 591 | 520 | 569 | 457 | 458 | 409 | 410 | 411 | 957 | 947 | 236 | 922 | 920 | 44. 22 | 5 |
| 55 | 15. 40 | 9.51 550 | 092 | 092 | 108 | 117 | 9.97 589 | 528 | 587 | 585 | 584 | 0.52 411 | 412 | 413 | 415 | 416 | 5.45 922 | 910 | 221 | 822 | 883 | 16 | 4 |
| 56 | 44 | 117 | 126 | 136 | 146 | 154 | 584 | 563 | 582 | 561 | 585 | 416 | 417 | 418 | 419 | 420 | 883 | 874 | 864 | 855 | 846 | 12 | 3 |
| 67 | 40 | 154 | 163 | 172 | 162 | 191 | 580 | 570 | 576 | 577 | 576 | 420 | 421 | 422 | 423 | 424 | 846 | 637 | 825 | 616 | 802 | 8 | 2 |
| 58 | 52 | 121 | 205 | 252 | 216 | 227 | 576 | 575 | 574 | 572 | 571 | 424 | 425 | 425 | 426 | 429 | 802 | 802 | 791 | 762 | 773 | 4 | 1 |
| 52 | 56 | 227 | 237 | 246 | 255 | 264 | 571 | 570 | 562 | 568 | 667 | 429 | 430 | 431 | 432 | 433 | 773 | 763 | 754 | 745 | 736 | 44. 0 | 0 |
|  |  | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 8° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15′ | 5° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 5° 5″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 5″ | m s | ′ |
|  |  | Seno |  |  |  |  | Coseno |  |  |  |  | Secante |  |  |  |  | Cosecante |  |  |  |  | 15h | 161° |
|  |  | Coseno |  |  |  |  | Seno |  |  |  |  | Cosecante |  |  |  |  | Secante |  |  |  |  | 4h | 71° |

## Tabla XVI. Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 18° / 108° | 1h / 7h | Verso / Coverso | | | | | Coverso / Subverso | | | | | Subverso / Subcoverso | | | | | Subcoverso / Verso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 0″ 0s | 15″ 1s | 35″ 2s | 45″ 3s | 60″ 4s | 5″ 9s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 9″ 0s | 15″ 1s | 30″ 2s | 43″ 3s | 60″ 4s | 0″ 0s | 16″ 1s | 35″ 2s | 45″ 3s | 60″ 4s | | |
| 0 | 12. 0 | 5. 58 866 | 555 | 905 | 926 | 946 | 9. 63 844 | 839 | 835 | 831 | 826 | 9. 98 924 | 923 | 923 | 922 | 922 | 9. 81 592 | 594 | 596 | 598 | 851 | 98 | 59 |
| 1 | 4 | * 946 | 266 | 986 | 006 | 026 | 826 | 829 | 818 | 813 | 809 | 929 | 921 | 921 | 920 | 920 | 601 | 603 | 605 | 608 | 610 | 99 | 58 |
| 2 | 8 | 8. 39 526 | 046 | 066 | 086 | 105 | 802 | 805 | 800 | 796 | 792 | 920 | 919 | 919 | 918 | 918 | 610 | 612 | 614 | 617 | 819 | 48 | 67 |
| 3 | 12 | 105 | 125 | 145 | 165 | 185 | 792 | 787 | 783 | 778 | 774 | 910 | 917 | 917 | 916 | 916 | 819 | 621 | 624 | 596 | 828 | 44 | 56 |
| 4 | 16 | 185 | 205 | 295 | 245 | 264 | 774 | 770 | 785 | 761 | 757 | 915 | 915 | 915 | 914 | 914 | 628 | 631 | 633 | 635 | 637 | 47. 40 | 55 |
| 5 | 19. 90 | 8. 39 264 | 284 | 304 | 324 | 344 | 9. 53 757 | 752 | 748 | 744 | 739 | 9. 98 914 | 913 | 913 | 912 | 912 | 9. 81 637 | 640 | 649 | 644 | 647 | 56 | 54 |
| 8 | 24 | 344 | 364 | 383 | 103 | 423 | 739 | 735 | 731 | 726 | 722 | 912 | 911 | 911 | 910 | 910 | 647 | 649 | 651 | 553 | 656 | 32 | 53 |
| 7 | 98 | 423 | 443 | 463 | 482 | 509 | 722 | 718 | 713 | 709 | 704 | 910 | 909 | 909 | 908 | 908 | 656 | 658 | 660 | 663 | 665 | 28 | 92 |
| 8 | 32 | 552 | 529 | 542 | 562 | 581 | 704 | 700 | 596 | 691 | 687 | 908 | 907 | 907 | 908 | 905 | 665 | 667 | 869 | 679 | 674 | 24 | 51 |
| 9 | 36 | 581 | 601 | 691 | 641 | 660 | 687 | 883 | 678 | 674 | 670 | 956 | 905 | 905 | 904 | 904 | 674 | 676 | 679 | 881 | 683 | 47. 90 | 50 |
| 10 | 12. 40 | 8. 39 660 | 680 | 700 | 720 | 739 | 9. 53 670 | 665 | 661 | 657 | 652 | 9. 98 904 | 903 | 903 | 902 | 952 | 9. 81 683 | 685 | 688 | 690 | 692 | 16 | 49 |
| 11 | 44 | 739 | 759 | 779 | 799 | 818 | 652 | 548 | 643 | 639 | 635 | 902 | 901 | 951 | 900 | 900 | 692 | 695 | 697 | 599 | 701 | 19 | 48 |
| 12 | 48 | 818 | 838 | 858 | 877 | 897 | 635 | 530 | 625 | 622 | 617 | 900 | 892 | 829 | 898 | 898 | 701 | 704 | 706 | 708 | 711 | 8 | 47 |
| 13 | 52 | 897 | 917 | 936 | 956 | 976 | 617 | 513 | 609 | 604 | 600 | 898 | 897 | 827 | 896 | 896 | 711 | 713 | 715 | 717 | 720 | 4 | 46 |
| 14 | 56 | * 976 | 998 | 015 | 035 | 055 | 500 | 595 | 591 | 587 | 582 | 895 | 895 | 895 | 894 | 894 | 720 | 792 | 724 | 797 | 799 | 47. 0 | 45 |
| 15 | 13. 5 | 9. 40 055 | 075 | 094 | 114 | 133 | 9. 53 589 | 578 | 574 | 562 | 565 | 9. 98 894 | 893 | 893 | 892 | 892 | 9. 81 729 | 731 | 733 | 736 | 738 | 56 | 44 |
| 16 | 4 | 133 | 153 | 172 | 199 | 212 | 565 | 560 | 556 | 559 | 547 | 899 | 891 | 891 | 890 | 890 | 738 | 740 | 743 | 745 | 747 | 52 | 43 |
| 17 | 5 | 919 | 231 | 251 | 271 | 290 | 547 | 543 | 539 | 534 | 535 | 890 | 889 | 882 | 888 | 888 | 747 | 749 | 752 | 754 | 756 | 48 | 42 |
| 18 | 12 | 290 | 310 | 329 | 349 | 369 | 530 | 526 | 591 | 517 | 512 | 888 | 887 | 887 | 886 | 886 | 756 | 759 | 761 | 763 | 765 | 44 | 41 |
| 19 | 16 | 369 | 388 | 408 | 427 | 447 | 512 | 508 | 504 | 499 | 495 | 886 | 885 | 885 | 881 | 884 | 765 | 768 | 775 | 772 | 775 | 46. 40 | 40 |
| 20 | 13. 20 | 8. 40 447 | 467 | 486 | 506 | 525 | 9. 63 495 | 420 | 486 | 489 | 477 | 9. 98 884 | 883 | 883 | 889 | 882 | 9. 81 775 | 777 | 779 | 781 | 784 | 36 | 39 |
| 21 | 24 | 525 | 545 | 564 | 584 | 603 | 477 | 473 | 469 | 464 | 460 | 882 | 881 | 881 | 880 | 880 | 784 | 786 | 788 | 790 | 793 | 39 | 38 |
| 92 | 28 | 603 | 623 | 612 | 862 | 681 | 460 | 456 | 451 | 447 | 442 | 880 | 879 | 876 | 878 | 877 | 793 | 795 | 797 | 800 | 802 | 28 | 37 |
| 23 | 32 | 681 | 701 | 720 | 740 | 769 | 442 | 438 | 434 | 429 | 495 | 877 | 877 | 876 | 876 | 875 | 802 | 804 | 806 | 809 | 811 | 94 | 36 |
| 24 | 56 | 759 | 779 | 798 | 818 | 837 | 425 | 421 | 416 | 412 | 457 | 875 | 875 | 874 | 874 | 873 | 811 | 813 | 816 | 818 | 890 | 48. 90 | 35 |
| 95 | 13. 40 | 8. 40 837 | 857 | 876 | 896 | 915 | 9. 63 407 | 403 | 399 | 394 | 390 | 9. 98 873 | 873 | 872 | 872 | 871 | 9. 81 820 | 822 | 825 | 897 | 829 | 16 | 34 |
| 26 | 44 | 915 | 935 | 964 | 974 | 993 | 390 | 385 | 381 | 377 | 372 | 871 | 871 | 870 | 870 | 869 | 829 | 831 | 834 | 836 | 838 | 12 | 33 |
| 27 | 48 | * 993 | 013 | 032 | 551 | 071 | 572 | 368 | 364 | 359 | 355 | 869 | 869 | 868 | 868 | 867 | 838 | 841 | 843 | 845 | 847 | 8 | 39 |
| 28 | 52 | 8. 41 071 | 090 | 110 | 129 | 119 | 355 | 355 | 346 | 342 | 337 | 857 | 867 | 866 | 856 | 865 | 847 | 850 | 852 | 854 | 856 | 4 | 31 |
| 29 | 56 | 149 | 168 | 187 | 207 | 226 | 337 | 333 | 328 | 324 | 320 | 855 | 865 | 864 | 864 | 853 | 856 | 859 | 861 | 863 | 866 | 46. 5 | 30 |
| 30 | 14. 0 | 8. 41 226 | 246 | 265 | 284 | 304 | 9. 53 320 | 315 | 311 | 307 | 302 | 9. 98 863 | 863 | 862 | 862 | 861 | 9. 81 866 | 868 | 870 | 879 | 875 | 56 | 29 |
| 31 | 4 | 304 | 323 | 312 | 362 | 381 | 302 | 228 | 223 | 289 | 285 | 861 | 861 | 860 | 880 | 859 | 875 | 877 | 879 | 881 | 884 | 52 | 28 |
| 32 | 8 | 381 | 401 | 420 | 439 | 459 | 285 | 280 | 276 | 271 | 257 | 859 | 858 | 858 | 857 | 857 | 884 | 886 | 889 | 891 | 893 | 48 | 27 |
| 33 | 19 | 452 | 478 | 497 | 517 | 536 | 267 | 263 | 258 | 251 | 249 | 857 | 855 | 856 | 855 | 855 | 893 | 895 | 897 | 900 | 902 | 41 | 96 |
| 34 | 16 | 536 | 555 | 575 | 594 | 613 | 949 | 945 | 941 | 236 | 232 | 855 | 854 | 851 | 853 | 853 | 909 | 951 | 907 | 909 | 911 | 45. 40 | 25 |
| 35 | 11. 20 | 8. 41 613 | 632 | 652 | 671 | 690 | 9. 93 232 | 297 | 223 | 219 | 214 | 9. 98 853 | 852 | 852 | 851 | 851 | 9. 81 911 | 913 | 916 | 918 | 920 | 36 | 24 |
| 36 | 94 | 690 | 710 | 729 | 748 | 767 | 214 | 210 | 206 | 201 | 197 | 851 | 850 | 850 | 849 | 849 | · 920 | 992 | 925 | 997 | 999 | 32 | 23 |
| 37 | 98 | 767 | 787 | 806 | 825 | 814 | 197 | 192 | 188 | 184 | 179 | 849 | 848 | 848 | 847 | 847 | 929 | 931 | 934 | 936 | 938 | 28 | 29 |
| 38 | 32 | 844 | 861 | 883 | 909 | 921 | 179 | 175 | 170 | 166 | 162 | 817 | 845 | 846 | 845 | 845 | 938 | 941 | 943 | 945 | 947 | 94 | 21 |
| 39 | 36 | 921 | 941 | 960 | 979 | 998 | 152 | 157 | 153 | 148 | 144 | 845 | 844 | 843 | 843 | 842 | 947 | 950 | 952 | 954 | 956 | 45. 90 | 90 |
| 40 | 14. 40 | * 998 | 018 | 037 | 056 | 075 | 9. 53 144 | 140 | 135 | 131 | 126 | 9. 98 842 | 849 | 841 | 841 | 840 | 9. 81 956 | 959 | 961 | 963 | 965 | 16 | 19 |
| 41 | 44 | 9. 42 075 | 094 | 114 | 133 | 152 | 196 | 122 | 118 | 113 | 109 | 840 | 840 | 839 | 839 | 838 | 965 | 968 | 970 | 972 | 975 | 12 | 18 |
| 42 | 48 | 152 | 172 | 191 | 210 | 229 | 109 | 104 | 105 | 096 | 091 | 838 | 838 | 837 | 837 | 836 | 975 | 977 | 979 | 981 | 984 | 8 | 17 |
| 43 | 52 | 229 | 248 | 267 | 286 | 305 | 091 | 087 | 082 | 078 | 073 | 836 | 836 | 835 | 835 | 834 | 984 | 986 | 988 | 990 | 993 | 4 | 16 |
| 44 | 56 | 305 | 324 | 314 | 363 | 389 | 073 | 069 | 065 | 060 | 956 | 834 | 834 | 833 | 833 | 832 | * 993 | 995 | 997 | 999 | 009 | 45. 0 | 15 |
| 45 | 15. 0 | 9. 42 382 | 401 | 420 | 439 | 458 | 9. 53 056 | 051 | 047 | 013 | 038 | 9. 98 832 | 839 | 831 | 830 | 830 | 9. 82 002 | 001 | 006 | 009 | 011 | 56 | 14 |
| 46 | 4 | 458 | 477 | 495 | 516 | 535 | 038 | 034 | 029 | 595 | 021 | 830 | 829 | 829 | 823 | 898 | 011 | 013 | 015 | 018 | 020 | 52 | 13 |
| 47 | 8 | 535 | 554 | 573 | 592 | 611 | 091 | 016 | 012 | 507 | 003 | 828 | 827 | 827 | 826 | 826 | 020 | 022 | 024 | 097 | 099 | 48 | 12 |
| 48 | 12 | 611 | 630 | 649 | 668 | 687 | * 003 | 999 | 994 | 990 | 985 | 895 | 825 | 825 | 824 | 894 | 029 | 031 | 033 | 036 | 038 | 44 | 11 |
| 42 | 16 | 687 | 706 | 725 | 744 | 764 | 9. 59 985 | 981 | 977 | 979 | 968 | 824 | 823 | 823 | 892 | 829 | 038 | 040 | 042 | 045 | 047 | 44. 40 | 10 |
| 50 | 15. 20 | 8. 42 764 | 783 | 802 | 821 | 840 | 9. 59 968 | 963 | 959 | 954 | 950 | 9. 98 822 | 821 | 891 | 820 | 819 | 9. 82 047 | 049 | 051 | 054 | 056 | 36 | 9 |
| 51 | 24 | 840 | 859 | 878 | 897 | 916 | 950 | 948 | 941 | 937 | 932 | 819 | 819 | 818 | 518 | 817 | 056 | 058 | 061 | 063 | 065 | 32 | 8 |
| 59 | 28 | 916 | 935 | 954 | 973 | 999 | 932 | 998 | 923 | 919 | 915 | 917 | 817 | 516 | 816 | 815 | 065 | 067 | 070 | 079 | 074 | 98 | 7 |
| 53 | 32 | * 992 | 011 | 030 | 549 | 058 | 915 | 910 | 906 | 901 | 897 | 815 | 815 | 814 | 814 | 813 | 074 | 878 | 079 | 081 | 583 | 24 | 8 |
| 54 | 36 | 8. 43 068 | 087 | 106 | 125 | 144 | 897 | 893 | 888 | 884 | 879 | 813 | 813 | 812 | 819 | 811 | 083 | 585 | 088 | 090 | 092 | 44. 20 | 5 |
| 55 | 15. 40 | 8. 43 144 | 169 | 181 | 900 | 219 | 9. 52 879 | 875 | 870 | 866 | 862 | 9. 98 811 | 811 | 810 | 809 | 809 | 9. 82 092 | 594 | 097 | 099 | 101 | 16 | 4 |
| 56 | 44 | 219 | 938 | 957 | 276 | 295 | 862 | 857 | 853 | 848 | 844 | 509 | 808 | 808 | 807 | 807 | 101 | 103 | 106 | 108 | 110 | 12 | 3 |
| 57 | 48 | 295 | 314 | 333 | 359 | 371 | 844 | 839 | 835 | 831 | 826 | 507 | 806 | 806 | 805 | 805 | 110 | 112 | 115 | 117 | 119 | 8 | 2 |
| 58 | 52 | 371 | 390 | 409 | 427 | 446 | 826 | 822 | 817 | 813 | 809 | 505 | 804 | 854 | 803 | 803 | 119 | 121 | 124 | 125 | 128 | 4 | 1 |
| 59 | 56 | 418 | 465 | 484 | 503 | 529 | 809 | 804 | 805 | 795 | 791 | 903 | 802 | 852 | 801 | 801 | 198 | 130 | 133 | 135 | 137 | 44. 0 | 9 |
| | | 4s 60″ | 3s 45″ | 2s 35″ | 1s 15″ | 0s 0″ | 4s 60″ | 5s 45″ | 2s 30″ | 1s 15″ | 0s 9″ | 4s 50″ | 3s 43″ | 2s 39″ | 1s 15″ | 0s 0″ | 4s 80″ | 3s 45″ | 9s 35″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 10h / 4h | 161° / 71° |

Digitized by Google

**TABLA XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 19° / 109° | 1h / 7h | Seno / Coseno 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Coseno / Seno 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Secante / Cosecante 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Cosecante / Secante 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 16. 0 | 9.51 264 | 273 | 283 | 292 | 301 | 9.97 567 | 566 | 563 | 564 | 563 | 0.02 433 | 434 | 435 | 436 | 437 | 0.40 736 | 727 | 717 | 708 | 699 | 56 | 52 |
| 1 | 4 | 301 | 310 | 319 | 328 | 338 | 563 | 562 | 560 | 559 | 558 | 437 | 438 | 440 | 441 | 442 | 699 | 690 | 681 | 672 | 662 | 52 | 58 |
| 2 | 8 | 338 | 347 | 356 | 365 | 374 | 558 | 557 | 556 | 555 | 554 | 442 | 443 | 444 | 445 | 446 | 662 | 653 | 644 | 635 | 626 | 40 | 57 |
| 3 | 12 | 374 | 383 | 392 | 401 | 411 | 654 | 553 | 552 | 551 | 550 | 446 | 447 | 448 | 449 | 450 | 626 | 617 | 608 | 598 | 589 | 44 | 56 |
| 4 | 16 | 411 | 420 | 429 | 430 | 447 | 550 | 548 | 547 | 546 | 545 | 450 | 452 | 453 | 454 | 455 | 589 | 580 | 571 | 562 | 553 | 43. 40 | 55 |
| 5 | 16. 20 | 9.51 447 | 456 | 465 | 475 | 484 | 9.97 545 | 544 | 543 | 542 | 541 | 0.02 455 | 456 | 457 | 458 | 459 | 0.48 553 | 544 | 535 | 525 | 516 | 36 | 54 |
| 6 | 24 | 484 | 493 | 502 | 511 | 520 | 541 | 540 | 539 | 538 | 536 | 459 | 460 | 461 | 462 | 464 | 516 | 507 | 498 | 489 | 480 | 32 | 53 |
| 7 | 20 | 520 | 529 | 538 | 547 | 557 | 536 | 535 | 534 | 533 | 532 | 464 | 465 | 466 | 167 | 468 | 480 | 471 | 462 | 453 | 443 | 28 | 52 |
| 8 | 32 | 657 | 566 | 575 | 584 | 593 | 632 | 531 | 530 | 529 | 528 | 468 | 469 | 470 | 471 | 472 | 443 | 434 | 425 | 416 | 107 | 24 | 51 |
| 9 | 36 | 693 | 602 | 611 | 520 | 629 | 628 | 527 | 526 | 524 | 523 | 472 | 473 | 474 | 476 | 477 | 407 | 398 | 389 | 380 | 371 | 43. 20 | 50 |
| 10 | 16. 40 | 9.51 629 | 638 | 648 | 657 | 666 | 9.97 523 | 522 | 521 | 520 | 519 | 0.02 477 | 478 | 479 | 480 | 481 | 0.48 371 | 362 | 352 | 343 | 334 | 16 | 49 |
| 11 | 44 | 666 | 675 | 684 | 693 | 702 | 519 | 618 | 517 | 516 | 516 | 481 | 482 | 483 | 484 | 485 | 334 | 325 | 316 | 307 | 298 | 12 | 48 |
| 12 | 40 | 702 | 711 | 720 | 729 | 738 | 515 | 513 | 512 | 511 | 510 | 485 | 487 | 488 | 489 | 490 | 298 | 289 | 280 | 271 | 262 | 8 | 47 |
| 13 | 62 | 738 | 747 | 756 | 765 | 774 | 510 | 509 | 508 | 507 | 506 | 490 | 491 | 492 | 493 | 494 | 262 | 253 | 244 | 235 | 226 | 4 | 46 |
| 14 | 56 | 774 | 784 | 723 | 802 | 811 | 506 | 505 | 504 | 502 | 501 | 494 | 495 | 496 | 498 | 499 | 226 | 216 | 207 | 198 | 189 | 43. 0 | 45 |
| 16 | 17. 0 | 9.51 811 | 820 | 829 | 838 | 847 | 9.97 501 | 500 | 499 | 498 | 197 | 0.02 499 | 500 | 501 | 502 | 503 | 0.48 189 | 180 | 171 | 162 | 153 | 56 | 44 |
| 16 | 4 | 847 | 856 | 865 | 874 | 883 | .497 | 496 | 495 | 494 | 492 | 503 | 504 | 505 | 506 | 508 | 153 | 144 | 135 | 126 | 117 | 52 | 43 |
| 17 | 0 | 883 | 892 | 901 | 910 | 919 | 492 | 491 | 490 | 489 | 488 | 608 | 509 | 510 | 511 | 512 | 117 | 108 | 099 | 090 | 081 | 48 | 42 |
| 18 | 12 | 919 | 928 | 937 | 946 | 955 | 488 | 487 | 486 | 485 | 484 | 612 | 513 | 514 | 515 | 516 | 081 | 072 | 063 | 054 | 045 | 44 | 41 |
| 19 | 16 | 955 | 964 | 973 | 982 | 991 | 484 | 483 | 481 | 480 | 179 | 516 | 517 | 519 | 520 | 521 | 045 | 036 | 027 | 010 | 009 | 42. 40 | 40 |
| 20 | 17. 20 | * 991 | 000 | 009 | 018 | 027 | 9.97 479 | 478 | 477 | 476 | 475 | 0.02 521 | 522 | 523 | 524 | 525 | * 009 | 000 | 991 | 982 | 973 | 36 | 39 |
| 21 | 24 | 9.52 027 | 036 | 045 | 054 | 063 | 475 | 474 | 473 | 471 | 470 | 525 | 526 | 527 | 529 | 530 | 0.47 973 | 964 | 955 | 946 | 937 | 32 | 30 |
| 22 | 28 | 063 | 072 | 001 | 090 | 099 | 470 | 469 | 468 | 467 | 466 | 630 | 531 | 532 | 533 | 534 | 937 | 928 | 919 | 910 | 901 | 28 | 37 |
| 23 | 52 | 099 | 108 | 117 | 126 | 135 | 466 | 465 | 464 | 463 | 461 | 534 | 535 | 536 | 537 | 539 | 901 | 892 | 803 | 874 | 865 | 24 | 36 |
| 24 | 36 | 135 | 144 | 153 | 162 | 171 | 461 | 460 | 459 | 458 | 457 | 539 | 540 | 541 | 542 | 543 | 065 | 856 | 847 | 838 | 829 | 42. 20 | 35 |
| 25 | 17. 40 | 9.52 171 | 180 | 189 | 198 | 207 | 9.97 457 | 456 | 455 | 454 | 153 | 0.02 543 | 544 | 545 | 546 | 547 | 0.47 829 | 820 | 811 | 802 | 793 | 16 | 34 |
| 26 | 44 | 207 | 216 | 224 | 233 | 242 | 453 | 451 | 450 | 449 | 148 | 547 | 549 | 550 | 551 | 552 | 793 | 784 | 776 | 767 | 758 | 12 | 33 |
| 27 | 48 | 242 | 251 | 260 | 269 | 278 | 448 | 447 | 446 | 445 | 444 | 552 | 553 | 554 | 555 | 556 | 758 | 749 | 740 | 731 | 722 | 8 | 32 |
| 28 | 62 | 278 | 287 | 296 | 305 | 314 | 444 | 442 | 441 | 440 | 439 | 556 | 558 | 559 | 560 | 561 | 722 | 713 | 704 | 695 | 686 | 4 | 31 |
| 29 | 56 | 314 | 323 | 332 | 341 | 350 | 439 | 438 | 437 | 436 | 435 | 561 | 562 | 563 | 564 | 565 | 686 | 677 | 668 | 659 | 650 | 42. 0 | 30 |
| 30 | 18. 0 | 9.62 350 | 358 | 367 | 376 | 385 | 9.97 435 | 434 | 432 | 431 | 430 | 0.02 565 | 566 | 568 | 569 | 570 | 0.47 650 | 642 | 633 | 624 | 615 | 56 | 29 |
| 31 | 4 | 385 | 394 | 403 | 412 | 421 | 430 | 429 | 428 | 427 | 426 | 570 | 571 | 572 | 573 | 574 | 615 | 606 | 597 | 588 | 579 | 52 | 28 |
| 32 | 8 | 421 | 430 | 439 | 448 | 456 | 426 | 425 | 423 | 422 | 421 | 574 | 575 | 577 | 578 | 579 | 579 | 570 | 561 | 552 | 544 | 48 | 27 |
| 33 | 12 | 436 | 465 | 474 | 483 | 492 | 421 | 420 | 419 | 418 | 417 | 679 | 580 | 581 | 582 | 583 | 544 | 535 | 526 | 517 | 508 | 44 | 26 |
| 34 | 16 | 492 | 501 | 510 | 519 | 527 | 417 | 416 | 414 | 413 | 412 | 583 | 584 | 586 | 587 | 588 | 508 | 499 | 490 | 481 | 473 | 41. 40 | 25 |
| 35 | 18. 20 | 9.52 627 | 536 | 545 | 554 | 563 | 9.97 412 | 411 | 410 | 409 | 408 | 0.02 588 | 589 | 590 | 591 | 592 | 0.47 473 | 464 | 455 | 446 | 437 | 36 | 24 |
| 36 | 24 | 563 | 572 | 581 | 590 | 598 | 408 | 407 | 405 | 404 | 403 | 592 | 593 | 595 | 596 | 597 | 437 | 428 | 419 | 410 | 402 | 32 | 23 |
| 37 | 28 | 590 | 607 | 616 | 625 | 634 | 403 | 402 | 401 | 400 | 399 | 597 | 598 | 599 | 600 | 601 | 402 | 393 | 384 | 375 | 366 | 28 | 22 |
| 30 | 32 | 634 | 643 | 652 | 660 | 669 | 399 | 398 | 396 | 395 | 394 | 601 | 602 | 604 | 605 | 606 | 366 | 357 | 348 | 340 | 331 | 24 | 21 |
| 32 | 36 | 669 | 678 | 687 | 696 | 705 | 594 | 393 | 392 | 391 | 390 | 606 | 607 | 608 | 609 | 610 | 331 | 322 | 313 | 304 | 295 | 41. 20 | 20 |
| 40 | 18. 40 | 9.52 705 | 713 | 722 | 731 | 740 | 9.97 390 | 389 | 387 | 386 | 385 | 0.02 610 | 611 | 613 | 614 | 615 | 0.47 295 | 287 | 278 | 269 | 260 | 16 | 19 |
| 41 | 44 | 740 | 749 | 758 | 766 | 775 | 385 | 384 | 383 | 382 | 381 | 615 | 616 | 617 | 618 | 619 | 260 | 251 | 242 | 234 | 225 | 12 | 18 |
| 42 | 48 | 775 | 784 | 793 | 802 | 811 | 381 | 380 | 378 | 377 | 376 | 619 | 620 | 622 | 623 | 624 | 225 | 216 | 207 | 198 | 189 | 0 | 17 |
| 43 | 62 | 811 | 819 | 828 | 837 | 846 | 376 | 375 | 374 | 373 | 372 | 624 | 625 | 626 | 627 | 628 | 189 | 181 | 172 | 163 | 154 | 4 | 16 |
| 44 | 56 | 846 | 855 | 863 | 872 | 881 | 372 | 370 | 369 | 368 | 367 | 628 | 630 | 631 | 632 | 633 | 164 | 145 | 137 | 128 | 119 | 41. 0 | 15 |
| 45 | 19. 0 | 9.52 881 | 890 | 899 | 907 | 916 | 9.97 367 | 366 | 365 | 364 | 363 | 0.02 633 | 634 | 635 | 636 | 637 | 0.47 119 | 110 | 101 | 095 | 084 | 56 | 14 |
| 46 | 4 | 916 | 925 | 934 | 942 | 951 | 363 | 361 | 360 | 359 | 358 | 637 | 639 | 640 | 641 | 642 | 084 | 076 | 066 | 058 | 019 | 52 | 13 |
| 47 | 8 | 951 | 960 | 969 | 970 | 986 | 558 | 357 | 356 | 355 | 353 | 642 | 643 | 644 | 645 | 647 | 049 | 040 | 031 | 022 | 014 | 40 | 12 |
| 40 | 12 | * 906 | 995 | 004 | 013 | 021 | 353 | 352 | 351 | 350 | 349 | 647 | 648 | 649 | 650 | 651 | * 014 | 005 | 996 | 987 | 979 | 44 | 11 |
| 49 | 16 | 9.53 021 | 030 | 039 | 048 | 056 | 349 | 348 | 347 | 345 | 344 | 651 | 652 | 653 | 655 | 656 | 0.46 979 | 970 | 961 | 952 | 943 | 40. 40 | 10 |
| 50 | 19. 20 | 9.53 056 | 065 | 074 | 083 | 092 | 9.97 844 | 343 | 342 | 341 | 340 | 0.02 656 | 657 | 658 | 659 | 660 | 0.46 943 | 935 | 926 | 917 | 908 | 36 | 9 |
| 51 | 24 | 092 | 100 | 109 | 118 | 126 | 340 | 339 | 338 | 336 | 335 | 660 | 661 | 662 | 664 | 665 | 908 | 900 | 891 | 882 | 874 | 32 | 0 |
| 52 | 28 | 126 | 135 | 144 | 153 | 161 | 335 | 334 | 333 | 332 | 331 | 665 | 666 | 667 | 668 | 669 | 874 | 865 | 856 | 847 | 839 | 28 | 7 |
| 53 | 52 | 161 | 170 | 179 | 188 | 196 | 331 | 330 | 328 | 327 | 326 | 669 | 670 | 672 | 673 | 674 | 839 | 830 | 821 | 012 | 804 | 24 | 6 |
| 54 | 36 | 196 | 205 | 214 | 223 | 231 | 326 | 325 | 324 | 323 | 322 | 674 | 675 | 676 | 677 | 678 | 804 | 795 | 706 | 777 | 769 | 40. 20 | 5 |
| 55 | 19. 40 | 9.53 231 | 240 | 249 | 257 | 266 | 9.27 322 | 320 | 319 | 315 | 317 | 0.02 678 | 680 | 681 | 682 | 683 | 0.46 769 | 760 | 751 | 743 | 734 | 16 | 4 |
| 56 | 44 | 266 | 275 | 283 | 292 | 301 | 517 | 316 | 315 | 314 | 312 | 683 | 684 | 685 | 686 | 688 | 754 | 725 | 717 | 708 | 699 | 12 | 3 |
| 57 | 48 | 301 | 310 | 318 | 327 | 336 | 512 | 311 | 310 | 309 | 308 | 680 | 689 | 690 | 691 | 692 | 699 | 690 | 602 | 673 | 664 | 8 | 2 |
| 58 | 52 | 336 | 344 | 353 | 362 | 370 | 308 | 307 | 305 | 304 | 303 | 692 | 693 | 694 | 696 | 697 | 664 | 656 | 647 | 630 | 630 | 4 | 1 |
| 69 | 56 | 370 | 379 | 308 | 396 | 405 | 303 | 302 | 301 | 300 | 299 | 697 | 590 | 699 | 700 | 701 | 630 | 621 | 612 | 604 | 596 | 40. 0 | 0 |
| | | 4s 60″ | 3s 45″ | 2s 30″ | 1s 16″ | 9s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno / Coseno | | | | | Coseno / Seno | | | | | Secante / Cosecante | | | | | Cosecante / Secante | | | | | 10h / 4h | 160° / 70° |

**Tabla XVI.** Logaritmos Versos, Coversoo, Subversos y Subcoversos.

| 19° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ' | m s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 16" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45 3s | 60 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | | |
| 0 | 16. 0 | 8.43 522 | 541 | 560 | 578 | 597 | 9.52 791 | 786 | 782 | 778 | 773 | 9.96 801 | 800 | 799 | 799 | 798 | 9.82 137 | 139 | 142 | 144 | 146 | 56 | 59 |
| 1 | 4 | 597 | 616 | 535 | 634 | 673 | 773 | 769 | 764 | 760 | 755 | 798 | 798 | 797 | 797 | 796 | 146 | 148 | 151 | 153 | 165 | 52 | 58 |
| 2 | 8 | 673 | 692 | 710 | 729 | 748 | 755 | 751 | 747 | 742 | 738 | 796 | 796 | 795 | 795 | 721 | 155 | 157 | 160 | 162 | 164 | 48 | 57 |
| 3 | 12 | 748 | 767 | 786 | 804 | 823 | 738 | 733 | 729 | 724 | 720 | 791 | 794 | 793 | 723 | 792 | 164 | 166 | 169 | 171 | 173 | 44 | 56 |
| 4 | 16 | 823 | 842 | 861 | 880 | 898 | 720 | 715 | 711 | 707 | 702 | 722 | 792 | 791 | 790 | 720 | 173 | 175 | 178 | 180 | 182 | 43. 40 | 65 |
| 5 | 15. 20 | 8.43 898 | 917 | 936 | 955 | 974 | 9.52 702 | 698 | 623 | 682 | 684 | 9.98 720 | 789 | 789 | 788 | 708 | 9.82 182 | 184 | 187 | 189 | 191 | 36 | 54 |
| 6 | 24 | * 974 | 992 | 011 | 030 | 049 | 684 | 680 | 676 | 671 | 667 | 788 | 787 | 787 | 786 | 786 | 191 | 193 | 196 | 198 | 200 | 32 | 53 |
| 7 | 28 | 8.44 049 | 067 | 086 | 105 | 124 | 567 | 662 | 658 | 653 | 649 | 786 | 785 | 785 | 784 | 784 | 200 | 202 | 206 | 207 | 209 | 28 | 52 |
| 8 | 32 | 124 | 142 | 161 | 180 | 199 | 649 | 645 | 640 | 636 | 631 | 784 | 783 | 782 | 782 | 781 | 209 | 211 | 214 | 216 | 218 | 24 | 51 |
| 9 | 36 | 199 | 217 | 236 | 255 | 273 | 631 | 697 | 622 | 618 | 613 | 781 | 781 | 780 | 780 | 779 | 218 | 220 | 223 | 225 | 227 | 43. 20 | 66 |
| 10 | 16. 40 | 8.44 273 | 222 | 311 | 330 | 318 | 9.69 613 | 609 | 605 | 600 | 596 | 9.98 779 | 779 | 778 | 778 | 777 | 9.82 227 | 222 | 232 | 234 | 236 | 16 | 49 |
| 11 | 44 | 348 | 367 | 386 | 404 | 423 | 526 | 691 | 587 | 582 | 578 | 777 | 777 | 776 | 776 | 775 | 236 | 238 | 241 | 243 | 245 | 12 | 48 |
| 12 | 48 | 423 | 142 | 160 | 479 | 498 | 578 | 573 | 569 | 565 | 560 | 775 | 774 | 774 | 773 | 773 | 245 | 247 | 250 | 252 | 254 | 8 | 47 |
| 13 | 52 | 498 | 516 | 535 | 554 | 572 | 560 | 556 | 551 | 547 | 542 | 773 | 772 | 772 | 771 | 771 | 254 | 256 | 259 | 261 | 263 | 4 | 46 |
| 14 | 56 | 572 | 591 | 609 | 628 | 647 | 512 | 538 | 533 | 529 | 525 | 771 | 770 | 770 | 769 | 769 | 263 | 265 | 268 | 276 | 272 | 43. 0 | 45 |
| 15 | 17. 0 | 8.44 647 | 665 | 684 | 703 | 721 | 9.52 525 | 520 | 516 | 511 | 507 | 9.98 769 | 768 | 768 | 767 | 766 | 9.82 272 | 274 | 277 | 279 | 281 | 56 | 44 |
| 16 | 4 | 721 | 746 | 758 | 777 | 796 | 507 | 502 | 498 | 493 | 489 | 766 | 766 | 765 | 766 | 764 | 281 | 283 | 286 | 288 | 290 | 52 | 43 |
| 17 | 8 | 796 | 814 | 833 | 851 | 870 | 489 | 484 | 480 | 476 | 471 | 764 | 764 | 763 | 763 | 762 | 290 | 292 | 291 | 297 | 299 | 48 | 42 |
| 18 | 12 | 870 | 888 | 907 | 926 | 941 | 471 | 467 | 462 | 458 | 453 | 762 | 762 | 761 | 761 | 760 | 299 | 301 | 303 | 306 | 308 | 44 | 41 |
| 19 | 16 | * 944 | 963 | 981 | 999 | 618 | 453 | 449 | 444 | 440 | 435 | 760 | 759 | 759 | 758 | 768 | 368 | 316 | 312 | 315 | 317 | 42. 40 | 46 |
| 20 | 17. 20 | 8.45 018 | 037 | 055 | 074 | 092 | 9.59 435 | 431 | 427 | 422 | 418 | 9.98 758 | 757 | 757 | 756 | 756 | 9.82 317 | 319 | 321 | 324 | 326 | 36 | 39 |
| 21 | 24 | 092 | 111 | 129 | 148 | 157 | 418 | 413 | 409 | 404 | 400 | 756 | 755 | 755 | 754 | 754 | 326 | 328 | 330 | 333 | 335 | 32 | 38 |
| 22 | 28 | 167 | 185 | 204 | 222 | 241 | 400 | 395 | 391 | 386 | 382 | 754 | 753 | 752 | 752 | 751 | ·335 | 337 | 339 | 341 | 344 | 28 | 37 |
| 23 | 32 | 241 | 259 | 277 | 296 | 314 | 382 | 378 | 373 | 369 | 364 | 751 | 751 | 750 | 750 | 749 | 344 | 346 | 348 | 350 | 363 | 24 | 36 |
| 24 | 36 | 314 | 333 | 351 | 370 | 388 | 364 | 360 | 355 | 351 | 346 | 749 | 749 | 748 | 748 | 747 | 363 | 355 | 367 | 352 | 362 | 42. 20 | 35 |
| 25 | 17. 40 | 8.45 388 | 407 | 425 | 444 | 462 | 9.52 346 | 342 | 337 | 333 | 328 | 9.98 747 | 747 | 746 | 745 | 745 | 9.82 362 | 364 | 366 | 368 | 371 | 16 | 34 |
| 26 | 44 | 462 | 481 | 499 | 518 | 536 | 328 | 324 | 320 | 315 | 311 | 745 | 744 | 744 | 743 | 743 | 371 | 373 | 375 | 377 | 380 | 12 | 33 |
| 27 | 48 | 536 | 554 | 573 | 591 | 610 | 311 | 306 | 302 | 227 | 993 | 743 | 742 | 742 | 741 | 741 | 380 | 382 | 384 | 386 | 388 | 8 | 32 |
| 28 | 52 | 610 | 628 | 646 | 665 | 683 | 293 | 288 | 284 | 279 | 275 | 741 | 740 | 740 | 739 | 738 | 388 | 391 | 393 | 395 | 397 | 4 | 31 |
| 29 | 56 | 683 | 702 | 720 | 738 | 757 | 275 | 270 | 266 | 261 | 257 | 738 | 738 | 737 | 737 | 736 | 397 | 466 | 402 | 464 | 406 | 42. 0 | 30 |
| 30 | 18. 6 | 8.45 757 | 775 | 794 | 812 | 830 | 9.62 257 | 253 | 248 | 244 | 239 | 9.98 736 | 736 | 735 | 735 | 734 | 9.82 406 | 409 | 411 | 413 | 415 | 56 | 29 |
| 31 | 4 | 830 | 849 | 867 | 885 | 904 | 239 | 235 | 230 | 226 | 221 | 734 | 734 | 733 | 732 | 732 | 415 | 117 | 420 | 422 | 424 | 62 | 28 |
| 32 | 8 | 904 | 922 | 940 | 959 | 977 | 221 | 217 | 212 | 208 | 203 | 732 | 731 | 731 | 730 | 730 | 424 | 426 | 429 | 431 | 433 | 48 | 27 |
| 33 | 12 | * 977 | 995 | 014 | 032 | 650 | 203 | 129 | 195 | 190 | 186 | 736 | 729 | 729 | 728 | 728 | 433 | 435 | 438 | 440 | 442 | 41 | 26 |
| 34 | 16 | 8.46 050 | 069 | 087 | 165 | 124 | 186 | 181 | 177 | 172 | 168 | 728 | 727 | 726 | 726 | 725 | 442 | 444 | 446 | 449 | 451 | 11. 40 | 25 |
| 35 | 18. 20 | 8.46 121 | 142 | 160 | 178 | 197 | 9.52 168 | 163 | 159 | 154 | 150 | 9.98 725 | 725 | 724 | 724 | 793 | 9.89 451 | 453 | 155 | 458 | 460 | 36 | 24 |
| 36 | 24 | 197 | 215 | 233 | 252 | 270 | 150 | 145 | 141 | 136 | 132 | 723 | 723 | 722 | 722 | 721 | 460 | 462 | 461 | 466 | 469 | 32 | 23 |
| 37 | 28 | 276 | 288 | 306 | 325 | 343 | 132 | 127 | 123 | 118 | 114 | 721 | 720 | 720 | 719 | 719 | 469 | 471 | 473 | 475 | 478 | 28 | 22 |
| 38 | 32 | 343 | 361 | 379 | 390 | 416 | 114 | 109 | 105 | 160 | 096 | 719 | 718 | 718 | 717 | 717 | 478 | 480 | 482 | 484 | 187 | 24 | 21 |
| 39 | 36 | 416 | 434 | 452 | 471 | 482 | 096 | 091 | 087 | 082 | 078 | 717 | 716 | 716 | 715 | 714 | 487 | 489 | 491 | 493 | 495 | 41. 20 | 20 |
| 40 | 18. 40 | 8.46 489 | 507 | 525 | 543 | 562 | 9.52 078 | 073 | 069 | 065 | 060 | 9.98 714 | 714 | 713 | 713 | 712 | 9.82 495 | 498 | 500 | 502 | 504 | 16 | 19 |
| 41 | 44 | 562 | 580 | 598 | 616 | 634 | 060 | 056 | 051 | 047 | 042 | 712 | 712 | 711 | 711 | 710 | 501 | 507 | 509 | 511 | 513 | 12 | 18 |
| 42 | 48 | 634 | 653 | 671 | 689 | 707 | 042 | 038 | 033 | 029 | 024 | 710 | 710 | 702 | 708 | 708 | 513 | 515 | 518 | 520 | 522 | 8 | 17 |
| 43 | 52 | 707 | 725 | 741 | 762 | 780 | 024 | 020 | 015 | 011 | 006 | 708 | 707 | 707 | 706 | 706 | 522 | 524 | 527 | 529 | 631 | 4 | 16 |
| 44 | 56 | 780 | 798 | 816 | 834 | 852 | * 066 | 062 | 997 | 993 | 988 | 766 | 705 | 705 | 704 | 703 | 631 | 533 | 535 | 538 | 646 | 41. 0 | 15 |
| 45 | 19. 6 | 8.46 852 | 871 | 889 | 907 | 925 | 9.51 988 | 984 | 979 | 975 | 970 | 9.98 703 | 703 | 702 | 702 | 701 | 9.89 540 | 542 | 544 | 547 | 549 | 56 | 14 |
| 46 | 4 | 925 | 243 | 961 | 979 | 997 | 970 | 966 | 961 | 957 | 252 | 701 | 701 | 700 | 700 | 699 | 549 | 551 | 553 | 555 | 558 | 52 | 13 |
| 47 | 8 | • 997 | 016 | 034 | 052 | 070 | 952 | 948 | 943 | 939 | 234 | 699 | 699 | 698 | 697 | 627 | 558 | 560 | 569 | 564 | 567 | 48 | 12 |
| 48 | 12 | 8.47 670 | 088 | 106 | 124 | 142 | 934 | 930 | 925 | 921 | 916 | 697 | 696 | 696 | 695 | 695 | 667 | 569 | 571 | 573 | 575 | 44 | 11 |
| 49 | 16 | 142 | 160 | 178 | 198 | 215 | 916 | 912 | 907 | 903 | 098 | 695 | 694 | 594 | 693 | 692 | 575 | 578 | 580 | 582 | 584 | 40. 40 | 10 |
| 50 | 19. 20 | 8.47 215 | 233 | 251 | 269 | 287 | 9.51 898 | 894 | 882 | 885 | 800 | 9.98 692 | 692 | 691 | 691 | 690 | 9.82 584 | 587 | 589 | 591 | 523 | 36 | 9 |
| 51 | 21 | 287 | 306 | 323 | 341 | 359 | 880 | 876 | 871 | 867 | 862 | 690 | 690 | 689 | 689 | 688 | 593 | 596 | 598 | 660 | 602 | 39 | 8 |
| 52 | 28 | 359 | 377 | 395 | 413 | 431 | 862 | 858 | 853 | 849 | 844 | 688 | 687 | 687 | 686 | 686 | 602 | 604 | 666 | 609 | 611 | 98 | 7 |
| 53 | 32 | 431 | 449 | 467 | 495 | 503 | 844 | 840 | 835 | 831 | 826 | 686 | 685 | 685 | 684 | 684 | 611 | 613 | 615 | 618 | 620 | 24 | 6 |
| 54 | 36 | 503 | 521 | 539 | 657 | 575 | 826 | 822 | 817 | 813 | 808 | 684 | 583 | 683 | 682 | 681 | 620 | 622 | 624 | 626 | 699 | 40. 20 | 5 |
| 55 | 19. 40 | 8.47 576 | 523 | 611 | 629 | 647 | 9.51 808 | 804 | 792 | 795 | 799 | 9.98 681 | 681 | 680 | 680 | 672 | 9.82 629 | 631 | 633 | 635 | 637 | 16 | 4 |
| 56 | 44 | 647 | 665 | 683 | 701 | 719 | 790 | 786 | 701 | 777 | 772 | 679 | 579 | 678 | 678 | 677 | 637 | 640 | 642 | 644 | 646 | 12 | 3 |
| 57 | 40 | 719 | 737 | 755 | 773 | 791 | 772 | 768 | 763 | 759 | 754 | 677 | 676 | 676 | 675 | 675 | 646 | 649 | 651 | 653 | 655 | 8 | 2 |
| 58 | 52 | 791 | 869 | 826 | 844 | 062 | 754 | 750 | 745 | 741 | 736 | 676 | 674 | 674 | 673 | 673 | 653 | 657 | 660 | 662 | 664 | 4 | 1 |
| 59 | 56 | 862 | 880 | 898 | 916 | 934 | 736 | 732 | 727 | 723 | 718 | 673 | 672 | 671 | 671 | 670 | 664 | 666 | 668 | 671 | 673 | 46. 0 | 0 |
| | | 4s 00" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 36" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 6" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 16h | 160° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 70° |

Digitized by Google

**Tabla XVI.** **Logaritmos, Senos, Cosenos, Secantes y Cosecantes.**

| 20° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 68″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 68″ 4s | | |
| 8 | 20. 0 | 9 53 485 | 414 | 423 | 431 | 440 | 9.97 299 | 297 | 296 | 293 | 294 | 0.82 701 | 783 | 704 | 705 | 706 | 8.46 395 | 586 | 577 | 569 | 560 | 36 | 59 |
| 1 | 4 | 440 | 449 | 457 | 466 | 475 | 294 | 223 | 292 | 291 | 289 | 706 | 707 | 708 | 709 | 711 | 560 | 351 | 543 | 534 | 525 | 52 | 58 |
| 2 | 8 | 473 | 483 | 492 | 500 | 509 | 289 | 288 | 287 | 986 | 285 | 711 | 712 | 713 | 714 | 715 | 325 | 517 | 508 | 499 | 491 | 48 | 57 |
| 3 | 12 | 509 | 318 | 326 | 535 | 541 | 285 | 284 | 282 | 281 | 280 | 715 | 716 | 718 | 719 | 720 | 491 | 482 | 474 | 465 | 456 | 44 | 56 |
| 4 | 16 | 544 | 359 | 551 | 570 | 578 | 280 | 279 | 278 | 977 | 276 | 728 | 721 | 722 | 723 | 724 | 456 | 448 | 439 | 430 | 422 | 39. 40 | 55 |
| 3 | 20. 28 | 9.53 370 | 587 | 596 | 604 | 613 | 9.97 276 | 274 | 273 | 272 | 271 | 0.82 724 | 726 | 727 | 728 | 729 | 0.46 422 | 413 | 404 | 396 | 387 | 36 | 54 |
| 6 | 24 | 613 | 621 | 638 | 639 | 647 | 271 | 278 | 969 | 267 | 266 | 729 | 730 | 731 | 733 | 734 | 387 | 379 | 378 | 361 | 353 | 32 | 53 |
| 7 | 28 | 647 | 656 | 065 | 673 | 682 | 266 | 265 | 264 | 263 | 262 | 734 | 735 | 736 | 737 | 738 | 353 | 344 | 335 | 327 | 318 | 28 | 52 |
| 8 | 32 | 682 | 398 | 099 | 708 | 710 | 269 | 261 | 259 | 258 | 257 | 738 | 739 | 741 | 749 | 743 | 318 | 310 | 301 | 299 | 284 | 24 | 51 |
| 9 | 36 | 716 | 725 | 733 | 742 | 751 | 257 | 256 | 255 | 254 | 252 | 743 | 744 | 745 | 746 | 748 | 284 | 275 | 266 | 258 | 249 | 39. 28 | 50 |
| 10 | 20. 48 | 9.33 751 | 759 | 768 | 776 | 785 | 9.97 252 | 251 | 250 | 249 | 248 | 0.02 748 | 749 | 750 | 751 | 752 | 0.46 249 | 241 | 232 | 224 | 215 | 16 | 49 |
| 11 | 44 | 785 | 794 | 802 | 811 | 819 | 248 | 247 | 945 | 244 | 243 | 752 | 753 | 755 | 756 | 757 | 215 | 206 | 198 | 189 | 181 | 12 | 48 |
| 12 | 48 | 819 | 828 | 037 | 845 | 854 | 243 | 242 | 241 | 240 | 238 | 757 | 758 | 759 | 760 | 769 | 181 | 172 | 163 | 155 | 146 | 8 | 47 |
| 13 | 32 | 854 | 862 | 871 | 879 | 888 | 258 | 937 | 236 | 235 | 234 | 762 | 763 | 764 | 765 | 766 | 146 | 138 | 129 | 121 | 112 | 4 | 46 |
| 14 | 30 | 888 | 897 | 903 | 914 | 922 | 234 | 233 | 231 | 230 | 222 | 766 | 767 | 769 | 770 | 771 | 112 | 103 | 095 | 086 | 878 | 39. 8 | 45 |
| 15 | 21. 0 | 9.33 922 | 931 | 939 | 948 | 957 | 9.97 229 | 928 | 927 | 226 | 224 | 0.02 771 | 772 | 773 | 774 | 775 | 8.46 078 | 069 | 061 | 059 | 043 | 56 | 44 |
| 16 | 4 | 957 | 965 | 974 | 982 | 991 | 224 | 223 | 299 | 291 | 290 | 776 | 777 | 778 | 779 | 780 | 043 | 035 | 026 | 018 | 009 | 59 | 43 |
| 17 | 8 | * 991 | 999 | 008 | 816 | 025 | 220 | 219 | 217 | 916 | 213 | 780 | 781 | 783 | 784 | 785 | • 009 | 001 | 992 | 984 | 975 | 48 | 42 |
| 18 | 12 | 9.34 825 | 833 | 842 | 050 | 052 | 215 | 214 | 213 | 212 | 210 | 785 | 786 | 787 | 788 | 790 | 0.43 975 | 967 | 258 | 950 | 941 | 44 | 41 |
| 19 | 10 | 859 | 868 | 876 | 885 | 093 | 210 | 209 | 208 | 207 | 206 | 790 | 791 | 799 | 793 | 794 | 941 | 932 | 924 | 915 | 907 | 38 40 | 40 |
| 20 | 21. 28 | 9.54 893 | 182 | 110 | 119 | 127 | 9.97 206 | 205 | 203 | 902 | 201 | 0.02 794 | 795 | 797 | 798 | 799 | 0.45 907 | 898 | 890 | 881 | 873 | 36 | 39 |
| 21 | 21 | 127 | 136 | 144 | 153 | 161 | 201 | 200 | 199 | 198 | 195 | 799 | 800 | 801 | 802 | 804 | 873 | 864 | 856 | 847 | 839 | 32 | 38 |
| 22 | 28 | 161 | 170 | 178 | 187 | 195 | 196 | 195 | 194 | 193 | 192 | 804 | 805 | 806 | 807 | 808 | 839 | 830 | 822 | 813 | 805 | 28 | 37 |
| 23 | 32 | 195 | 284 | 212 | 221 | 229 | 192 | 191 | 189 | 188 | 187 | 808 | 809 | 811 | 812 | 813 | 805 | 796 | 788 | 779 | 771 | 24 | 35 |
| 24 | 30 | 229 | 938 | 240 | 955 | 963 | 187 | 186 | 185 | 183 | 182 | 813 | 814 | 815 | 816 | 818 | 771 | 762 | 754 | 745 | 737 | 38. 20 | 35 |
| 25 | 21. 40 | 9.54 263 | 279 | 280 | 289 | 297 | 9.97 189 | 181 | 180 | 179 | 178 | 0.82 818 | 819 | 890 | 821 | 822 | 0.45 737 | 728 | 720 | 711 | 703 | 16 | 34 |
| 26 | 44 | 297 | 306 | 314 | 323 | 331 | 178 | 176 | 175 | 174 | 173 | 829 | 891 | 825 | 896 | 897 | 703 | 694 | 686 | 677 | 662 | 12 | 33 |
| 27 | 48 | 331 | 348 | 348 | 356 | 365 | 173 | 172 | 171 | 169 | 168 | 827 | 828 | 829 | 831 | 832 | 669 | 660 | 652 | 644 | 635 | 8 | 39 |
| 28 | 52 | 365 | 373 | 382 | 390 | 399 | 168 | 167 | 166 | 165 | 163 | 832 | 833 | 834 | 835 | 837 | 635 | 627 | 618 | 610 | 601 | 4 | 31 |
| 29 | 36 | 399 | 487 | 416 | 494 | 433 | 163 | 162 | 161 | 160 | 159 | 837 | 838 | 839 | 840 | 841 | 601 | 593 | 584 | 576 | 567 | 38. 8 | 38 |
| 30 | 22. 0 | 9.54 433 | 441 | 449 | 458 | 466 | 9.97 159 | 158 | 156 | 155 | 154 | 8.02 841 | 842 | 844 | 845 | 846 | 0.45 567 | 559 | 551 | 549 | 534 | 56 | 29 |
| 31 | 4 | 466 | 475 | 483 | 492 | 500 | 154 | 153 | 152 | 150 | 149 | 846 | 847 | 848 | 850 | 851 | 634 | 525 | 517 | 508 | 500 | 52 | 28 |
| 39 | 8 | 500 | 508 | 517 | 595 | 534 | 149 | 148 | 147 | 146 | 145 | 851 | 852 | 853 | 854 | 855 | 500 | 492 | 483 | 475 | 466 | 48 | 27 |
| 33 | 12 | 534 | 542 | 551 | 559 | 567 | 145 | 143 | 149 | 141 | 140 | 855 | 857 | 858 | 859 | 860 | 466 | 458 | 449 | 441 | 433 | 44 | 26 |
| 34 | 16 | 567 | 376 | 584 | 593 | 601 | 140 | 139 | 137 | 136 | 135 | 860 | 861 | 863 | 864 | 865 | 433 | 424 | 416 | 407 | 399 | 37. 40 | 25 |
| 35 | 22. 20 | 9.34 601 | 610 | 618 | 626 | 635 | 9.97 135 | 134 | 133 | 139 | 130 | 8.02 865 | 866 | 867 | 868 | 870 | 0.45 399 | 398 | 382 | 374 | 365 | 36 | 24 |
| 36 | 24 | 635 | 643 | 659 | 668 | 668 | 130 | 129 | 128 | 127 | 126 | 878 | 871 | 872 | 873 | 874 | 365 | 357 | 348 | 340 | 332 | 39 | 23 |
| 37 | 28 | 668 | 677 | 685 | 693 | 702 | 126 | 124 | 193 | 122 | 121 | 874 | 876 | 877 | 878 | 879 | 332 | 323 | 315 | 386 | 298 | 28 | 22 |
| 38 | 32 | 702 | 710 | 719 | 797 | 735 | 121 | 120 | 118 | 117 | 116 | 879 | 888 | 882 | 883 | 884 | 298 | 290 | 281 | 273 | 265 | 94 | 21 |
| 39 | 30 | 735 | 744 | 759 | 761 | 769 | 116 | 115 | 114 | 113 | 111 | 884 | 885 | 886 | 887 | 889 | 265 | 256 | 248 | 229 | 931 | 37.90 | 98 |
| 40 | 22.40 | 9.54 769 | 777 | 786 | 794 | 802 | 9.97 111 | 110 | 109 | 108 | 107 | 8.02 889 | 890 | 891 | 892 | 893 | 0.45 231 | 223 | 214 | 906 | 198 | 16 | 19 |
| 41 | 44 | 809 | 811 | 819 | 827 | 830 | 107 | 183 | 104 | 103 | 102 | 893 | 895 | 896 | 897 | 898 | 198 | 189 | 181 | 173 | 164 | 12 | 18 |
| 42 | 48 | 836 | 844 | 853 | 861 | 869 | 102 | 101 | 099 | 098 | 097 | 898 | 899 | 901 | 902 | 903 | 164 | 156 | 147 | 139 | 131 | 8 | 17 |
| 43 | 59 | 869 | 878 | 886 | 894 | 903 | 097 | 096 | 895 | 093 | 092 | 903 | 904 | 905 | 907 | 908 | 131 | 122 | 114 | 106 | 097 | 4 | 16 |
| 44 | 36 | 903 | 911 | 919 | 928 | 930 | 099 | 091 | 890 | 089 | 087 | 908 | 909 | 918 | 911 | 913 | 097 | 089 | 081 | 079 | 864 | 37. 0 | 15 |
| 45 | 23. 0 | 9.34 936 | 944 | 953 | 961 | 269 | 9.97 087 | 086 | 085 | 084 | 083 | 0.09 913 | 914 | 915 | 916 | 217 | 0.45 064 | 056 | 047 | 039 | 031 | 56 | 14 |
| 46 | 4 | * 969 | 978 | 986 | 994 | 003 | 083 | 081 | 880 | 079 | 078 | 917 | 919 | 920 | 991 | 922 | * 031 | 029 | 014 | 806 | 997 | 52 | 13 |
| 47 | 8 | 9.33 083 | 011 | 819 | 098 | 035 | 078 | 077 | 075 | 074 | 073 | 992 | 923 | 925 | 926 | 997 | 0.44 997 | 982 | 981 | 972 | 964 | 48 | 19 |
| 48 | 12 | 036 | 844 | 053 | 061 | 069 | 073 | 072 | 871 | 069 | 068 | 927 | 928 | 929 | 931 | 832 | 964 | 956 | 947 | 939 | 931 | 44 | 11 |
| 49 | 16 | 069 | 077 | 086 | 894 | 102 | 068 | 867 | 066 | 065 | 063 | 932 | 933 | 934 | 935 | 937 | 931 | 923 | 914 | 906 | 898 | 36. 40 | 18 |
| 30 | 23. 28 | 9.35 102 | 111 | 119 | 127 | 136 | 9.97 063 | 062 | 061 | 060 | 059 | 0.82 937 | 938 | 939 | 940 | 941 | 0.44 898 | 889 | 881 | 873 | 864 | 36 | 9 |
| 31 | 94 | 136 | 144 | 152 | 160 | 169 | 059 | 057 | 056 | 055 | 054 | 941 | 913 | 944 | 945 | 946 | 864 | 856 | 848 | 840 | 831 | 39 | 8 |
| 32 | 28 | 169 | 177 | 185 | 194 | 202 | 054 | 053 | 051 | 050 | 849 | 916 | 947 | 949 | 950 | 951 | 831 | 823 | 815 | 806 | 798 | 28 | 7 |
| 53 | 32 | 282 | 210 | 918 | 297 | 235 | 049 | 048 | 047 | 045 | 044 | 951 | 952 | 953 | 955 | 955 | 798 | 790 | 782 | 773 | 765 | 24 | 6 |
| 54 | 36 | 235 | 243 | 251 | 260 | 260 | 044 | 043 | 042 | 041 | 039 | 956 | 957 | 958 | 959 | 961 | 765 | 757 | 749 | 748 | 752 | 36. 90 | 5 |
| 35 | 23. 48 | 9.55 268 | 976 | 285 | 293 | 301 | 9.97 039 | 038 | 037 | 036 | 035 | 0.02 961 | 962 | 963 | 964 | 965 | 0.44 732 | 724 | 715 | 707 | 699 | 10 | 4 |
| 56 | 44 | 301 | 309 | 318 | 326 | 334 | - 035 | 033 | 039 | 031 | 030 | 965 | 967 | 968 | 969 | 970 | 699 | 691 | 682 | 674 | 666 | 19 | 3 |
| 37 | 48 | 334 | 342 | 351 | 359 | 367 | 030 | 098 | 027 | 096 | 095 | 970 | 979 | 973 | 974 | 975 | 666 | 658 | 649 | 641 | 033 | 8 | 2 |
| 38 | 32 | 367 | 375 | 384 | 399 | 408 | 095 | 094 | 029 | 821 | 028 | 973 | 976 | 978 | 979 | 980 | 033 | 623 | 616 | 608 | 600 | 4 | 1 |
| 39 | 36 | 408 | 408 | 416 | 495 | 433 | 820 | 819 | 018 | 816 | 813 | 988 | 981 | 982 | 984 | 985 | 600 | 592 | 584 | 575 | 367 | 38. 0 | 0 |
| | | 4s 60″ | 3s 45″ | 2s 38″ | 1s 13″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 38″ | 1s 15″ | 0s 8″ | 4s 68″ | 3s 45″ | 2s 30″ | 1s 13″ | 0s 0″ | 4s 68″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 8″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 139° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 69° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 20° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30′ 2° | 45″ 3° | 00″ 4° | 0″ 0° | 15″ 1° | 30″ 9° | 46″ 3° | 60″ 4° | | |
| 0 | 20. 6 | 8.47*934 | 952 | 970 | 988 | 000 | 9.51 710 | 714 | 709 | 705 | 700 | 9.98 676 | 670 | 069 | 669 | 668 | 9.89 673 | 675 | 677 | 680 | 682 | 06 | 59 |
| 1 | 4 | 8.48 006 | 024 | 041 | 059 | 077 | 700 | 096 | 691 | 687 | 682 | 668 | 667 | 667 | 666 | 666 | 682 | 084 | 686 | 688 | 021 | 59 | 08 |
| 2 | 8 | 077 | 695 | 113 | 131 | 149 | 682 | 678 | 673 | 669 | 664 | 666 | 665 | 665 | 664 | 664 | 091 | 693 | 695 | 697 | 699 | 48 | 57 |
| 3 | 12 | 149 | 167 | 184 | 202 | 220 | 604 | 600 | 655 | 651 | 646 | 664 | 663 | 662 | 662 | 661 | 699 | 702 | 704 | 700 | 708 | 44 | 56 |
| 4 | 16 | 920 | 230 | 256 | 274 | 292 | 646 | 649 | 037 | 632 | 628 | 661 | 061 | 060 | 060 | 652 | 700 | 710 | 713 | 715 | 717 | 39. 48 | 05 |
| 5 | 20. 20 | 8.48 292 | 309 | 327 | 345 | 363 | 9.51 628 | 623 | 619 | 014 | 610 | 2.98 659 | 659 | 058 | 657 | 557 | 9.02 717 | 719 | 722 | 724 | 720 | 36 | 54 |
| 6 | 24 | 363 | 381 | 398 | 416 | 434 | 010 | 605 | 601 | 596 | 592 | 657 | 656 | 656 | 655 | 655 | 726 | 720 | 730 | 733 | 735 | 32 | 53 |
| 7 | 28 | 434 | 452 | 470 | 487 | 505 | 592 | 507 | 583 | 570 | 574 | 655 | 654 | 654 | 653 | 652 | 735 | 737 | 739 | 741 | 744 | 28 | 52 |
| 8 | 32 | 505 | 523 | 541 | 559 | 570 | 574 | 569 | 565 | 560 | 556 | 652 | 652 | 651 | 051 | 650 | 744 | 746 | 748 | 750 | 759 | 24 | 51 |
| 9 | 36 | 576 | 594 | 612 | 630 | 647 | 056 | 551 | 547 | 542 | 538 | 650 | 050 | 049 | 640 | 648 | 752 | 755 | 757 | 759 | 761 | 39. 90 | 50 |
| 10 | 26. 40 | 8.48 047 | 665 | 683 | 701 | 718 | 9.51 538 | 533 | 529 | 524 | 519 | 9.90 648 | 647 | 047 | 646 | 646 | 9.89 761 | 703 | 766 | 708 | 770 | 16 | 49 |
| 11 | 44 | 718 | 736 | 754 | 772 | 789 | 019 | 515 | 510 | 506 | 501 | 646 | 645 | 645 | 644 | 643 | 770 | 772 | 774 | 777 | 779 | 19 | 48 |
| 12 | 48 | 789 | 807 | 825 | 843 | 860 | 501 | 497 | 492 | 488 | 483 | 643 | 643 | 642 | 642 | 641 | 779 | 781 | 783 | 785 | 788 | 8 | 47 |
| 13 | 52 | 860 | 878 | 896 | 913 | 931 | 483 | 479 | 474 | 470 | 405 | 641 | 641 | 640 | 632 | 639 | 788 | 790 | 792 | 794 | 796 | 4 | 46 |
| 14 | 56 | * 931 | 949 | 907 | 984 | 002 | 405 | 461 | 450 | 452 | 447 | 639 | 638 | 038 | 637 | 637 | 796 | 799 | 801 | 803 | 865 | 39. 6 | 45 |
| 15 | 21. 0 | 8.49 002 | 020 | 037 | 055 | 073 | 9.51 447 | 442 | 438 | 433 | 422 | 9.90 637 | 636 | 636 | 635 | 034 | 9.02 805 | 807 | 810 | 819 | 814 | 56 | 44 |
| 16 | 4 | 073 | 090 | 108 | 126 | 143 | 429 | 424 | 420 | 415 | 411 | 634 | 634 | 633 | 633 | 632 | 814 | 816 | 818 | 821 | 823 | 59 | 43 |
| 17 | 8 | 143 | 161 | 179 | 190 | 214 | 411 | 405 | 402 | 397 | 393 | 632 | 632 | 631 | 630 | 630 | 823 | 895 | 827 | 829 | 832 | 40 | 49 |
| 18 | 12 | 214 | 232 | 249 | 267 | 284 | 393 | 388 | 384 | 379 | 374 | 630 | 629 | 629 | 628 | 628 | 839 | 834 | 036 | 830 | 840 | 44 | 41 |
| 19 | 16 | 284 | 309 | 320 | 337 | 355 | 374 | 370 | 365 | 361 | 356 | 628 | 627 | 626 | 626 | 695 | 840 | 843 | 845 | 047 | 849 | 38. 40 | 46 |
| 90 | 91. 20 | 8.49 355 | 373 | 390 | 408 | 425 | 9.51 356 | 352 | 347 | 343 | 338 | 9.98 625 | 625 | 024 | 624 | 623 | 9.89 849 | 851 | 854 | 856 | 858 | 36 | 39 |
| 91 | 94 | 425 | 443 | 461 | 478 | 496 | 338 | 334 | 329 | 325 | 320 | 693 | 023 | 629 | 621 | 621 | 858 | 860 | 862 | 865 | 867 | 39 | 38 |
| 92 | 98 | 496 | 513 | 531 | 548 | 566 | 320 | 315 | 311 | 306 | 302 | 621 | 620 | 620 | 019 | 619 | 867 | 869 | 871 | 873 | 875 | 98 | 37 |
| 23 | 32 | 560 | 584 | 601 | 619 | 636 | 302 | 997 | 293 | 288 | 284 | 619 | 618 | 017 | 617 | 615 | 876 | 878 | 080 | 889 | 884 | 24 | 36 |
| 24 | 36 | 636 | 654 | 671 | 609 | 706 | 984 | 979 | 275 | 270 | 265 | 616 | 616 | 615 | 015 | 614 | 084 | 887 | 889 | 891 | 093 | 38. 20 | 35 |
| 25 | 21. 40 | 8.49 706 | 724 | 741 | 759 | 777 | 9.51 265 | 251 | 250 | 252 | 247 | 9.98 014 | 613 | 613 | 612 | 612 | 9.82 893 | 895 | 898 | 906 | 902 | 16 | 34 |
| 96 | 44 | 777 | 794 | 812 | 829 | 847 | 247 | 243 | 238 | 234 | 229 | 612 | 611 | 611 | 616 | 609 | 902 | 904 | 906 | 909 | 911 | 12 | 33 |
| 97 | 48 | 847 | 864 | 889 | 899 | 917 | 229 | 225 | 220 | 215 | 211 | 609 | 609 | 668 | 608 | 607 | 911 | 913 | 915 | 917 | 920 | 8 | 32 |
| 28 | 52 | 917 | 934 | 952 | 969 | 987 | 211 | 200 | 202 | 197 | 193 | 607 | 607 | 606 | 605 | 605 | 920 | 922 | 924 | 926 | 928 | 4 | 31 |
| 99 | 56 | * 987 | 004 | 021 | 039 | 056 | 193 | 188 | 184 | 179 | 174 | 605 | 604 | 604 | 603 | 603 | 928 | 930 | 933 | 935 | 937 | 38. 6 | 30 |
| 30 | 22. 0 | 8.50 056 | 074 | 091 | 109 | 126 | 9.51 174 | 170 | 105 | 161 | 166 | 9.90 603 | 602 | 001 | 601 | 600 | 9.82 937 | 939 | 941 | 944 | 946 | 56 | 99 |
| 31 | 4 | 126 | 144 | 161 | 179 | 196 | 156 | 152 | 147 | 143 | 138 | 600 | 600 | 599 | 599 | 598 | 946 | 948 | 950 | 952 | 955 | 59 | 98 |
| 39 | 8 | 196 | 213 | 231 | 248 | 266 | 138 | 133 | 129 | 124 | 120 | 598 | 527 | 597 | 596 | 596 | 955 | 957 | 959 | 961 | 963 | 40 | 97 |
| 33 | 12 | 966 | 983 | 301 | 318 | 335 | 120 | 115 | 111 | 106 | 102 | 026 | 595 | 595 | 594 | 593 | 963 | 965 | 960 | 970 | 972 | 44 | 96 |
| 34 | 16 | 335 | 353 | 370 | 388 | 405 | 102 | 097 | 092 | 088 | 083 | 093 | 593 | 592 | 592 | 591 | 972 | 974 | 976 | 979 | 981 | 37. 40 | 25 |
| 35 | 92. 20 | 8.56 405 | 422 | 440 | 457 | 475 | 9.51 083 | 079 | 074 | 070 | 065 | 9.98 591 | 591 | 590 | 589 | 509 | 9.82 981 | 983 | 985 | 987 | 990 | 36 | 24 |
| 36 | 24 | 475 | 492 | 509 | 527 | 544 | 665 | 060 | 056 | 051 | 047 | 689 | 588 | 508 | 587 | 587 | 990 | 992 | 994 | 996 | 998 | 32 | 93 |
| 37 | 98 | 544 | 561 | 579 | 596 | 613 | 047 | 042 | 030 | 033 | 028 | 087 | 006 | 585 | 585 | 584 | * 998 | 001 | 003 | 005 | 007 | 98 | 92 |
| 38 | 32 | 613 | 631 | 648 | 665 | 683 | 628 | 024 | 019 | 015 | 010 | 584 | 584 | 583 | 583 | 582 | 9.83 007 | 009 | 011 | 014 | 016 | 24 | 91 |
| 39 | 36 | 683 | 700 | 718 | 735 | 752 | * 610 | 006 | 001 | 997 | 999 | 582 | 581 | 581 | 580 | 580 | 016 | 018 | 090 | 022 | 025 | 37. 90 | 90 |
| 40 | 22. 40 | 8.00 752 | 769 | 787 | 804 | 821 | 9.50 992 | 988 | 903 | 970 | 974 | 9.98 580 | 579 | 579 | 578 | 577 | 9.83 025 | 027 | 029 | 031 | 033 | 16 | 19 |
| 41 | 44 | 821 | 839 | 856 | 873 | 891 | 974 | 969 | 965 | 960 | 956 | 577 | 577 | 576 | 576 | 575 | 033 | 035 | 038 | 040 | 042 | 12 | 18 |
| 42 | 48 | 891 | 908 | 925 | 943 | 960 | 950 | 951 | 946 | 942 | 937 | 575 | 574 | 074 | 573 | 573 | 042 | 044 | 046 | 049 | 051 | 8 | 17 |
| 43 | 52 | * 960 | 977 | 994 | 019 | 022 | 937 | 933 | 928 | 994 | 919 | 573 | 579 | 572 | 571 | 570 | 651 | 053 | 655 | 057 | 052 | 4 | 16 |
| 44 | 56 | 8.51 029 | 646 | 063 | 081 | 090 | 919 | 914 | 910 | 905 | 901 | 570 | 570 | 562 | 569 | 568 | 059 | 062 | 064 | 066 | 060 | 37. 0 | 15 |
| 45 | 93. 0 | 8.51 090 | 115 | 132 | 160 | 167 | 9.50 901 | 896 | 092 | 887 | 882 | 9.98 568 | 568 | 567 | 566 | 566 | 9.83 058 | 076 | 073 | 075 | 077 | 50 | 14 |
| 46 | 4 | 167 | 184 | 201 | 219 | 236 | 882 | 878 | 573 | 869 | 864 | 566 | 565 | 565 | 564 | 563 | 077 | 072 | 001 | 083 | 086 | 52 | 13 |
| 47 | 8 | 936 | 253 | 270 | 287 | 305 | 864 | 859 | 855 | 850 | 845 | 563 | 563 | 569 | 562 | 561 | 686 | 088 | 090 | 092 | 094 | 48 | 19 |
| 48 | 12 | 305 | 322 | 339 | 356 | 373 | 846 | 841 | 837 | 832 | 827 | 561 | 501 | 560 | 559 | 559 | 694 | 097 | 092 | 101 | 103 | 44 | 11 |
| 42 | 16 | 373 | 391 | 408 | 425 | 442 | 897 | 823 | 818 | 814 | 809 | 559 | 558 | 558 | 557 | 557 | 103 | 105 | 107 | 110 | 119 | 36. 40 | 10 |
| 50 | 23. 20 | 8.51 442 | 459 | 477 | 494 | 511 | 9.50 009 | 805 | 800 | 725 | 791 | 9.98 557 | 556 | 565 | 555 | 554 | 9.83 119 | 114 | 116 | 110 | 120 | 36 | 9 |
| 51 | 91 | 011 | 528 | 545 | 562 | 580 | 721 | 786 | 782 | 777 | 779 | 554 | 554 | 553 | 552 | 559 | 190 | 193 | 125 | 127 | 129 | 32 | 8 |
| 52 | 28 | 000 | 597 | 614 | 631 | 648 | 772 | 760 | 763 | 759 | 754 | 552 | 551 | 551 | 550 | 550 | 199 | 131 | 134 | 136 | 138 | 28 | 7 |
| 53 | 32 | 648 | 665 | 682 | 699 | 717 | 754 | 750 | 745 | 740 | 730 | 550 | 549 | 548 | 548 | 547 | 138 | 140 | 142 | 144 | 147 | 24 | 6 |
| 54 | 36 | 717 | 734 | 751 | 768 | 785 | 736 | 731 | 727 | 722 | 717 | 547 | 547 | 546 | 545 | 545 | 147 | 149 | 151 | 153 | 155 | 36. 90 | 5 |
| 55 | 23. 40 | 8.51 785 | 802 | 819 | 035 | 854 | 9.50 717 | 713 | 708 | 704 | 099 | 9.98 545 | 544 | 544 | 543 | 543 | 9.83 155 | 157 | 150 | 162 | 164 | 16 | 4 |
| 56 | 44 | 854 | 871 | 888 | 905 | 922 | 699 | 694 | 690 | 685 | 601 | 543 | 549 | 541 | 541 | 540 | 164 | 166 | 168 | 171 | 173 | 12 | 3 |
| 57 | 48 | 922 | 939 | 956 | 973 | 990 | 681 | 676 | 672 | 067 | 069 | 540 | 540 | 539 | 530 | 538 | 173 | 175 | 177 | 179 | 181 | 8 | 2 |
| 58 | 52 | * 990 | 007 | 024 | 041 | 058 | 662 | 658 | 653 | 649 | 644 | 538 | 537 | 537 | 536 | 536 | 181 | 184 | 186 | 188 | 190 | 4 | 1 |
| 59 | 56 | 8.52 058 | 075 | 093 | 110 | 127 | 644 | 639 | 635 | 630 | 626 | 535 | 535 | 534 | 534 | 533 | 190 | 199 | 194 | 197 | 199 | 36. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 9° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 159° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 09° |

**Tabla XVI.** Logarítmos Senos, Cosenos, Secantes y Cosecantes.

| 21° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0" 8s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 90" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 69" 4s | | |
| 0 | 24. 0 | 9.55 433 | 441 | 449 | 458 | 466 | 9.97 915 | 014 | 813 | 012 | 810 | 0.02 980 | 286 | 287 | 288 | 990 | 0.44 067 | 552 | 551 | 542 | 534 | 50 | 59 |
| 1 | 4 | 469 | 474 | 489 | 490 | 499 | 019 | 009 | 008 | 007 | 005 | 920 | 291 | 992 | 993 | 925 | 534 | 526 | 510 | 510 | 501 | 02 | 58 |
| 2 | 8 | 499 | 507 | 515 | 523 | 539 | 805 | 004 | 803 | 002 | 001 | 990 | 296 | 997 | 998 | 999 | 601 | 493 | 485 | 477 | 498 | 48 | 07 |
| 3 | 12 | 532 | 540 | 548 | 556 | 564 | * 001 | 929 | 998 | 997 | 296 | * 999 | 001 | 002 | 003 | 004 | 468 | 460 | 452 | 444 | 436 | 44 | 56 |
| 4 | 16 | 564 | 573 | 581 | 089 | 597 | 9.96 926 | 995 | 993 | 992 | 991 | 0.03 004 | 005 | 007 | 008 | 009 | 436 | 427 | 419 | 411 | 403 | 35.40 | 55 |
| 5 | 24.20 | 9.35 597 | 505 | 914 | 022 | 030 | 0.96 991 | 990 | 988 | 987 | 989 | 0.03 009 | 010 | 012 | 013 | 014 | 0.44 493 | 395 | 387 | 378 | 370 | 36 | 54 |
| 6 | 24 | 630 | 038 | 949 | 654 | 663 | 986 | 985 | 984 | 989 | 281 | 914 | 015 | 019 | 018 | 019 | 370 | 362 | 354 | 340 | 337 | 32 | 53 |
| 7 | 28 | 603 | 071 | 679 | 987 | 925 | 981 | 980 | 979 | 277 | 976 | 019 | 920 | 021 | 823 | 924 | 337 | 392 | 321 | 313 | 305 | 28 | 52 |
| 8 | 32 | 695 | 703 | 712 | 720 | 728 | 976 | 975 | 974 | 973 | 271 | 824 | 025 | 029 | 027 | 099 | 305 | 297 | 288 | 280 | 272 | 24 | 51 |
| 9 | 36 | 728 | 736 | 744 | 752 | 761 | 971 | 270 | 969 | 968 | 260 | 029 | 930 | 031 | 032 | 034 | 279 | 204 | 256 | 248 | 239 | 35.20 | 50 |
| 10 | 24.48 | 9.60 761 | 799 | 777 | 785 | 793 | 9.26 966 | 965 | 964 | 963 | 992 | 0.83 834 | 035 | 036 | 037 | 038 | 8.44 239 | 231 | 223 | 215 | 207 | 16 | 49 |
| 11 | 44 | 793 | 801 | 809 | 818 | 825 | 992 | 900 | 959 | 958 | 957 | 938 | 040 | 041 | 042 | 043 | 207 | 199 | 190 | 182 | 174 | 12 | 48 |
| 12 | 48 | 820 | 834 | 842 | 850 | 858 | 957 | 955 | 954 | 953 | 952 | 043 | 045 | 049 | 047 | 048 | 174 | 166 | 158 | 150 | 142 | 8 | 47 |
| 13 | 52 | 858 | 866 | 875 | 883 | 891 | 052 | 951 | 949 | 948 | 947 | 848 | 049 | 051 | 052 | 053 | 142 | 134 | 125 | 117 | 109 | 4 | 49 |
| 14 | 06 | 891 | 899 | 987 | 915 | 923 | 247 | 949 | 944 | 943 | 942 | 953 | 054 | 056 | 057 | 058 | 199 | 101 | 093 | 085 | 877 | 35. 8 | 45 |
| 15 | 25. 0 | 9.55 923 | 931 | 940 | 948 | 956 | 0.96 942 | 941 | 940 | 938 | 237 | 0.03 058 | 059 | 090 | 062 | 063 | 9.44 877 | 068 | 069 | 052 | 044 | 56 | 44 |
| 16 | 4 | 256 | 994 | 972 | 980 | 988 | 937 | 936 | 235 | 933 | 932 | 863 | 064 | 065 | 097 | 068 | 844 | 036 | 028 | 020 | 012 | 02 | 43 |
| 17 | 8 | * 988 | 996 | 004 | 013 | 021 | 932 | 931 | 930 | 928 | 927 | 098 | 099 | 078 | 079 | 873 | * 812 | 004 | 996 | 987 | 979 | 48 | 49 |
| 18 | 12 | 9.66 821 | 029 | 937 | 045 | 053 | 927 | 226 | 925 | 924 | 222 | 973 | 074 | 075 | 076 | 878 | 0.43 979 | 971 | 963 | 955 | 947 | 44 | 41 |
| 19 | 16 | 953 | 061 | 099 | 877 | 085 | 922 | 991 | 220 | 919 | 917 | 078 | 072 | 080 | 081 | 883 | 247 | 939 | 931 | 923 | 215 | 34.40 | 40 |
| 20 | 25.20 | 9.55 985 | 094 | 102 | 119 | 118 | 9.90 217 | 916 | 215 | 914 | 212 | 0.83 983 | 084 | 085 | 086 | 088 | 0.43 910 | 906 | 898 | 890 | 882 | 36 | 32 |
| 21 | 24 | 118 | 129 | 134 | 142 | 150 | 912 | 911 | 910 | 902 | 997 | 088 | 089 | 090 | 091 | 093 | 802 | 874 | 896 | 858 | 850 | 32 | 38 |
| 22 | 28 | 159 | 108 | 166 | 174 | 182 | 907 | 906 | 905 | 904 | 903 | 093 | 094 | 095 | 099 | 097 | 850 | 842 | 834 | 826 | 818 | 28 | 37 |
| 23 | 32 | 182 | 190 | 198 | 207 | 915 | 903 | 201 | 200 | 899 | 898 | 997 | 099 | 108 | 101 | 102 | 818 | 810 | 802 | 793 | 785 | 24 | 36 |
| 24 | 36 | 215 | 223 | 231 | 239 | 247 | 898 | 896 | 895 | 824 | 893 | 102 | 104 | 185 | 106 | 107 | 785 | 777 | 769 | 761 | 753 | 34.20 | 35 |
| 25 | 25.40 | 9.50 247 | 255 | 263 | 271 | 279 | 9.96 893 | 891 | 890 | 889 | 888 | 0.83 107 | 109 | 110 | 111 | 112 | 8.43 763 | 745 | 737 | 729 | 721 | 16 | 34 |
| 29 | 44 | 979 | 287 | 295 | 303 | 311 | 888 | 889 | 885 | 884 | 883 | 112 | 114 | 115 | 116 | 117 | 791 | 713 | 705 | 697 | 089 | 12 | 33 |
| 27 | 48 | 311 | 312 | 397 | 335 | 343 | 883 | 881 | 880 | 872 | 878 | 117 | 119 | 129 | 121 | 122 | 689 | 601 | 073 | 665 | 657 | 8 | 32 |
| 28 | 02 | 343 | 351 | 359 | 367 | 375 | 878 | 876 | 875 | 874 | 873 | 122 | 124 | 195 | 126 | 127 | 657 | 949 | 941 | 033 | 625 | 4 | 31 |
| 29 | 56 | 375 | 383 | 321 | 400 | 408 | 873 | 872 | 870 | 892 | 868 | 127 | 128 | 130 | 131 | 132 | 625 | 917 | 608 | 600 | 592 | 34. 0 | 30 |
| 38 | 26. 8 | 9.66 408 | 419 | 494 | 432 | 449 | 9.96 898 | 897 | 895 | 894 | 803 | 0.03 139 | 133 | 135 | 136 | 137 | 8.43 592 | 584 | 575 | 508 | 560 | 09 | 22 |
| 31 | 4 | 440 | 448 | 459 | 464 | 479 | 893 | 862 | 860 | 852 | 858 | 137 | 138 | 140 | 141 | 149 | 590 | 552 | 544 | 536 | 528 | 52 | 28 |
| 32 | 8 | 472 | 480 | 488 | 426 | 504 | 858 | 857 | 855 | 854 | 853 | 149 | 143 | 145 | 146 | 147 | 598 | 598 | 512 | 504 | 496 | 48 | 27 |
| 33 | 12 | 604 | 512 | 520 | 528 | 539 | 853 | 852 | 850 | 849 | 848 | 147 | 148 | 150 | 151 | 152 | 496 | 488 | 480 | 472 | 494 | 44 | 20 |
| 34 | 19 | 536 | 544 | 552 | 590 | 598 | 848 | 847 | 845 | 844 | 843 | 152 | 153 | 155 | 156 | 107 | 464 | 456 | 448 | 440 | 432 | 33.40 | 25 |
| 35 | 26.20 | 9.56 608 | 579 | 584 | 591 | 599 | 9.96 843 | 842 | 840 | 839 | 838 | 0.83 107 | 158 | 160 | 191 | 162 | 8.43 432 | 424 | 419 | 409 | 401 | 30 | 24 |
| 30 | 24 | 599 | 907 | 915 | 023 | 631 | 838 | 837 | 835 | 834 | 833 | 192 | 163 | 100 | 190 | 167 | 401 | 393 | 385 | 377 | 399 | 39 | 23 |
| 37 | 28 | 631 | 639 | 647 | 055 | 093 | 833 | 832 | 830 | 822 | 828 | 197 | 168 | 170 | 171 | 172 | 869 | 301 | 353 | 345 | 337 | 28 | 22 |
| 38 | 32 | 603 | 971 | 079 | 687 | 995 | 898 | 827 | 895 | 824 | 823 | 172 | 173 | 175 | 176 | 177 | 337 | 329 | 321 | 313 | 305 | 24 | 21 |
| 39 | 36 | 695 | 783 | 711 | 719 | 727 | 823 | 822 | 820 | 819 | 818 | 177 | 178 | 180 | 181 | 182 | 805 | 997 | 982 | 281 | 273 | 33.20 | 20 |
| 40 | 26.40 | 9.56 727 | 735 | 743 | 751 | 759 | 9.96 818 | 817 | 815 | 814 | 813 | 0.83 189 | 183 | 185 | 180 | 187 | 0.43 973 | 295 | 257 | 949 | 241 | 10 | 12 |
| 41 | 44 | 709 | 797 | 775 | 782 | 790 | 813 | 812 | 810 | 802 | 808 | 187 | 188 | 120 | 191 | 129 | 241 | 233 | 925 | 218 | 210 | 12 | 18 |
| 42 | 48 | 790 | 798 | 806 | 814 | 899 | 808 | 807 | 805 | 804 | 803 | 199 | 193 | 195 | 196 | 197 | 910 | 902 | 194 | 189 | 178 | 8 | 17 |
| 43 | 52 | 822 | 830 | 838 | 846 | 854 | 893 | 801 | 800 | 799 | 798 | 197 | 129 | 998 | 201 | 202 | 176 | 170 | 192 | 154 | 149 | 4 | 16 |
| 44 | 56 | 854 | 862 | 870 | 878 | 889 | 798 | 796 | 795 | 794 | 793 | 202 | 904 | 205 | 209 | 907 | 149 | 138 | 130 | 122 | 114 | 33. 0 | 15 |
| 45 | 27. 0 | 9.66 886 | 893 | 901 | 909 | 917 | 9.96 793 | 791 | 790 | 782 | 788 | 0.03 207 | 209 | 910 | 211 | 212 | 0.43 114 | 107 | 099 | 091 | 083 | 66 | 14 |
| 46 | 4 | 917 | 295 | 933 | 941 | 949 | 788 | 786 | 785 | 784 | 783 | 212 | 214 | 215 | 216 | 217 | 083 | 875 | 867 | 059 | 051 | 52 | 13 |
| 47 | 8 | 949 | 957 | 965 | 973 | 280 | 783 | 781 | 780 | 779 | 778 | 217 | 912 | 920 | 221 | 292 | 051 | 043 | 835 | 027 | 090 | 48 | 12 |
| 48 | 12 | * 988 | 288 | 996 | 004 | 012 | 778 | 776 | 775 | 774 | 772 | 222 | 294 | 925 | 226 | 228 | * 020 | 012 | 004 | 299 | 288 | 44 | 11 |
| 49 | 16 | 9.67 812 | 028 | 028 | 036 | 044 | 772 | 771 | 770 | 769 | 767 | 228 | 299 | 930 | 231 | 233 | 0.42 988 | 980 | 979 | 904 | 956 | 29.48 | 18 |
| 50 | 27.20 | 9.57 044 | 051 | 052 | 007 | 075 | 9.96 767 | 706 | 765 | 764 | 702 | 8.03 933 | 934 | 235 | 236 | 238 | 0.42 959 | 949 | 241 | 933 | 925 | 36 | 9 |
| 51 | 24 | 875 | 083 | 991 | 092 | 197 | 762 | 791 | 760 | 759 | 757 | 238 | 239 | 248 | 241 | 213 | 925 | 917 | 209 | 901 | 893 | 32 | 8 |
| 52 | 28 | 107 | 114 | 122 | 130 | 138 | 757 | 750 | 755 | 753 | 759 | 243 | 244 | 245 | 247 | 248 | 893 | 886 | 878 | 870 | 862 | 28 | 7 |
| 63 | 32 | 138 | 146 | 154 | 162 | 109 | 752 | 701 | 700 | 748 | 747 | 248 | 949 | 950 | 252 | 253 | 862 | 854 | 816 | 838 | 831 | 24 | 6 |
| 54 | 36 | 169 | 177 | 185 | 193 | 201 | 747 | 740 | 745 | 743 | 749 | 253 | 254 | 950 | 257 | 258 | 631 | 893 | 815 | 807 | 792 | 32.20 | 6 |
| 55 | 27.40 | 9.67 201 | 209 | 217 | 224 | 232 | 9.96 742 | 741 | 740 | 738 | 737 | 8.03 258 | 952 | 290 | 262 | 993 | 0.49 799 | 791 | 783 | 770 | 708 | 16 | 4 |
| 56 | 44 | 232 | 240 | 248 | 259 | 264 | 737 | 736 | 734 | 733 | 732 | 263 | 264 | 260 | 207 | 268 | 768 | 760 | 752 | 744 | 730 | 12 | 3 |
| 57 | 48 | 264 | 271 | 279 | 287 | 295 | 732 | 731 | 729 | 728 | 727 | 208 | 969 | 271 | 272 | 273 | 736 | 729 | 721 | 713 | 785 | 8 | 2 |
| 58 | 52 | 295 | 303 | 311 | 318 | 326 | 727 | 726 | 724 | 793 | 722 | 273 | 974 | 276 | 277 | 278 | 705 | 697 | 689 | 682 | 674 | 4 | 1 |
| 59 | 50 | 320 | 334 | 349 | 350 | 308 | 722 | 720 | 719 | 718 | 717 | 278 | 280 | 281 | 282 | 983 | 674 | 066 | 058 | 650 | 642 | 32. 0 | 0 |
| | | 4s 60" | 3s 40" | 2s 30" | 1s 15" | 0s 8" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 8s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 38" | 1s 15" | 8s 0" | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 158° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 58° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 21° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ' | m s | 5" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 5° 30" | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 24. 0 | 5. 65 127 | 144 | 161 | 178 | 195 | 9. 50 626 | 621 | 616 | 612 | 607 | 9. 98 533 | 633 | 532 | 531 | 531 | 9. 82 199 | 201 | 203 | 205 | 207 | 56 | 59 |
| 1 | 4 | 195 | 212 | 229 | 246 | 263 | 607 | 603 | 598 | 593 | 589 | 531 | 530 | 530 | 529 | 529 | 207 | 210 | 212 | 914 | 515 | 69 | 58 |
| 5 | 8 | 263 | 280 | 297 | 314 | 331 | 589 | 584 | 580 | 575 | 370 | 622 | 528 | 527 | 567 | 526 | 516 | 210 | 220 | 923 | 295 | 48 | 57 |
| 3 | 12 | 331 | 318 | 365 | 382 | 399 | 570 | 566 | 561 | 557 | 552 | 526 | 526 | 525 | 524 | 524 | 225 | 227 | 229 | 231 | 233 | 44 | 56 |
| 4 | 16 | 399 | 416 | 433 | 450 | 467 | 552 | 547 | 513 | 538 | 534 | 524 | 523 | 523 | 522 | 521 | 233 | 236 | 238 | 240 | 542 | 36. 40 | 55 |
| 5 | 24. 50 | 8. 52 467 | 484 | 501 | 510 | 535 | 9. 50 531 | 525 | 594 | 520 | 515 | 9. 90 521 | 521 | 520 | 520 | 512 | 9. 83 242 | 244 | 216 | 242 | 251 | 36 | 54 |
| 6 | 54 | 535 | 552 | 568 | 505 | 602 | 515 | 511 | 506 | 501 | 497 | 512 | 519 | 518 | 517 | 517 | 251 | 253 | 255 | 267 | 259 | 32 | 53 |
| 7 | 26 | 602 | 619 | 636 | 653 | 670 | 497 | 422 | 486 | 483 | 478 | 517 | 516 | 516 | 515 | 514 | 259 | 262 | 264 | 268 | 268 | 58 | 65 |
| 8 | 32 | 670 | 687 | 701 | 721 | 738 | 478 | 474 | 469 | 465 | 460 | 514 | 514 | 513 | 513 | 512 | 568 | 270 | 272 | 275 | 277 | 54 | 51 |
| 9 | 36 | 738 | 755 | 772 | 788 | 805 | 460 | 455 | 451 | 446 | 441 | 512 | 511 | 511 | 510 | 510 | 277 | 279 | 901 | 283 | 285 | 35. 50 | 50 |
| 10 | 24. 40 | 6. 52 805 | 892 | 839 | 856 | 873 | 5. 50 441 | 437 | 432 | 428 | 423 | 9. 98 610 | 509 | 509 | 508 | 507 | 9. 83 285 | 288 | 290 | 292 | 294 | 16 | 49 |
| 11 | 44 | 873 | 820 | 907 | 924 | 941 | 423 | 418 | 414 | 409 | 405 | 507 | 507 | 506 | 506 | 505 | 294 | 296 | 298 | 301 | 303 | 12 | 48 |
| 12 | 48 | * 941 | 957 | 974 | 991 | 008 | 405 | 400 | 395 | 391 | 366 | 505 | 504 | 504 | 503 | 503 | 303 | 305 | 307 | 309 | 311 | 8 | 47 |
| 13 | 52 | 8. 53 008 | 025 | 042 | 059 | 075 | 386 | 382 | 377 | 372 | 368 | 503 | 502 | 501 | 501 | 500 | 311 | 314 | 316 | 318 | 320 | 4 | 46 |
| 14 | 66 | 075 | 092 | 109 | 126 | 143 | 368 | 363 | 358 | 354 | 349 | 500 | 500 | 499 | 498 | 498 | 320 | 322 | 394 | 327 | 329 | 35. 0 | 45 |
| 15 | 25. 0 | 0. 53 143 | 160 | 177 | 123 | 210 | 9. 50 349 | 345 | 340 | 335 | 331 | 9. 98 498 | 497 | 497 | 496 | 496 | 9. 83 329 | 331 | 333 | 335 | 337 | 56 | 44 |
| 16 | 4 | 210 | 227 | 244 | 261 | 277 | 331 | 396 | 322 | 317 | 312 | 496 | 425 | 494 | 494 | 493 | 337 | 339 | 342 | 344 | 346 | 52 | 43 |
| 17 | 8 | 577 | 224 | 311 | 328 | 345 | 312 | 308 | 303 | 298 | 294 | 493 | 493 | 492 | 491 | 491 | 346 | 348 | 350 | 355 | 355 | 48 | 42 |
| 15 | 12 | 345 | 361 | 378 | 325 | 412 | 291 | 289 | 285 | 280 | 275 | 491 | 490 | 490 | 469 | 488 | 355 | 357 | 359 | 361 | 363 | 44 | 41 |
| 19 | 16 | 412 | 429 | 145 | 462 | 479 | 575 | 271 | 266 | 261 | 257 | 488 | 480 | 487 | 487 | 486 | 263 | 365 | 366 | 370 | 372 | 34. 40 | 40 |
| 20 | 25. 20 | 0. 53 479 | 496 | 519 | 529 | 546 | 9. 50 557 | 252 | 948 | 243 | 238 | 9. 98 486 | 485 | 485 | 484 | 464 | 9. 83 372 | 374 | 376 | 378 | 380 | 36 | 39 |
| 51 | 54 | 516 | 563 | 579 | 596 | 613 | 238 | 234 | 299 | 224 | 290 | 404 | 483 | 482 | 489 | 481 | 380 | 363 | 385 | 387 | 369 | 32 | 38 |
| 22 | 28 | 613 | 630 | 646 | 663 | 680 | 520 | 215 | 211 | 906 | 201 | 401 | 481 | 480 | 479 | 479 | 389 | 391 | 393 | 396 | 398 | 58 | 37 |
| 23 | 32 | 680 | 697 | 713 | 730 | 747 | 201 | 197 | 192 | 187 | 183 | 479 | 476 | 478 | 477 | 476 | 390 | 400 | 409 | 404 | 406 | 54 | 36 |
| 24 | 36 | 747 | 763 | 760 | 797 | 014 | 183 | 178 | 174 | 169 | 164 | 476 | 476 | 475 | 475 | 474 | 406 | 408 | 411 | 413 | 415 | 34. 20 | 35 |
| 25 | 25. 40 | 8. 63 814 | 830 | 847 | 864 | 680 | 9. 60 164 | 160 | 155 | 150 | 146 | 9. 98 474 | 473 | 173 | 472 | 472 | 9. 63 415 | 417 | 419 | 421 | 424 | 16 | 34 |
| 28 | 44 | 880 | 897 | 914 | 930 | 947 | 146 | 141 | 136 | 132 | 127 | 475 | 471 | 470 | 470 | 469 | 421 | 426 | 498 | 430 | 432 | 12 | 33 |
| 27 | 48 | * 947 | 964 | 980 | 997 | 014 | 127 | 123 | 118 | 113 | 109 | 469 | 469 | 468 | 468 | 467 | 432 | 434 | 436 | 439 | 441 | 8 | 35 |
| 58 | 62 | 8. 54 014 | 030 | 047 | 064 | 080 | 109 | 104 | 099 | 095 | 090 | 467 | 466 | 466 | 465 | 465 | 441 | 443 | 445 | 447 | 449 | 4 | 31 |
| 59 | 56 | 080 | 097 | 114 | 135 | 147 | 090 | 085 | 081 | 575 | 071 | 465 | 464 | 463 | 463 | 462 | 449 | 459 | 454 | 456 | 458 | 34. 0 | 30 |
| 30 | 26. 0 | 5. 54 147 | 164 | 180 | 197 | 913 | 5. 60 071 | 067 | 062 | 058 | 053 | 9. 95 462 | 462 | 461 | 460 | 460 | 9. 82 455 | 460 | 462 | 464 | 467 | 56 | 29 |
| 31 | 4 | 513 | 230 | 247 | 263 | 280 | 053 | 016 | 044 | 039 | 034 | 460 | 459 | 459 | 458 | 457 | 467 | 462 | 471 | 473 | 475 | 52 | 28 |
| 32 | 6 | 280 | 997 | 313 | 330 | 346 | 034 | 030 | 095 | 021 | 016 | 457 | 457 | 456 | 456 | 455 | 475 | 477 | 479 | 482 | 484 | 48 | 27 |
| 33 | 12 | 346 | 363 | 380 | 396 | 413 | * 016 | 011 | 007 | 002 | 997 | 455 | 454 | 451 | 453 | 453 | 484 | 466 | 188 | 490 | 492 | 44 | 26 |
| 34 | 16 | 413 | 499 | 446 | 462 | 479 | 9. 49 997 | 993 | 988 | 983 | 972 | 453 | 452 | 461 | 451 | 450 | 492 | 495 | 497 | 499 | 501 | 33. 40 | 25 |
| 35 | 56. 20 | 8. 64 479 | 496 | 519 | 522 | 545 | 5. 49 979 | 974 | 969 | 265 | 960 | 9. 98 450 | 442 | 449 | 448 | 448 | 9. 83 601 | 503 | 505 | 507 | 510 | 36 | 24 |
| 26 | 24 | 545 | 562 | 578 | 595 | 611 | 960 | 956 | 251 | 946 | 942 | 448 | 447 | 446 | 446 | 445 | 510 | 612 | 514 | 516 | 518 | 39 | 23 |
| 37 | 28 | 611 | 628 | 646 | 661 | 678 | 942 | 937 | 932 | 998 | 923 | 446 | 445 | 444 | 443 | 443 | 618 | 520 | 522 | 525 | 527 | 28 | 22 |
| 38 | 32 | 678 | 694 | 711 | 727 | 744 | 923 | 918 | 914 | 909 | 904 | 443 | 442 | 442 | 441 | 440 | 527 | 529 | 531 | 533 | 535 | 24 | 21 |
| 39 | 36 | 741 | 760 | 777 | 793 | 810 | 904 | 900 | 895 | 690 | 886 | 445 | 440 | 439 | 439 | 438 | 535 | 537 | 540 | 542 | 544 | 33. 50 | 20 |
| 40 | 26. 40 | 8. 64 510 | 826 | 813 | 859 | 876 | 9. 49 686 | 881 | 876 | 872 | 667 | 9. 98 438 | 437 | 427 | 436 | 436 | 9. 83 644 | 516 | 546 | 550 | 552 | 16 | 19 |
| 41 | 44 | 876 | 092 | 209 | 925 | 942 | 867 | 862 | 858 | 853 | 848 | 436 | 435 | 434 | 434 | 433 | 552 | 565 | 557 | 559 | 561 | 12 | 18 |
| 45 | 48 | * 942 | 958 | 275 | 991 | 008 | 848 | 644 | 839 | 835 | 830 | 433 | 433 | 439 | 431 | 431 | 561 | 563 | 565 | 567 | 670 | 8 | 17 |
| 43 | 52 | 8. 55 008 | 024 | 040 | 057 | 073 | 630 | 825 | 851 | 816 | 811 | 431 | 430 | 430 | 422 | 498 | 570 | 572 | 574 | 576 | 576 | 4 | 16 |
| 44 | 56 | 073 | 090 | 106 | 123 | 139 | 811 | 607 | 809 | 797 | 793 | 428 | 428 | 427 | 427 | 426 | 576 | 560 | 582 | 585 | 587 | 33. 0 | 15 |
| 45 | 27. 0 | 8. 55 139 | 156 | 175 | 188 | 205 | 5. 49 793 | 788 | 783 | 779 | 774 | 9. 98 426 | 425 | 425 | 424 | 423 | 9. 82 587 | 589 | 591 | 593 | 695 | 56 | 14 |
| 46 | 4 | 205 | 221 | 938 | 954 | 271 | 774 | 769 | 765 | 760 | 765 | 423 | 423 | 422 | 429 | 421 | 695 | 697 | 600 | 609 | 604 | 52 | 13 |
| 47 | 8 | 571 | 287 | 303 | 320 | 336 | 755 | 751 | 746 | 741 | 737 | 421 | 420 | 420 | 412 | 419 | 604 | 606 | 808 | 610 | 612 | 48 | 12 |
| 48 | 12 | 336 | 353 | 369 | 385 | 402 | 737 | 732 | 727 | 793 | 718 | 419 | 418 | 417 | 417 | 416 | 612 | 615 | 617 | 619 | 621 | 44 | 11 |
| 49 | 16 | 402 | 418 | 434 | 450 | 467 | 718 | 713 | 709 | 704 | 699 | 416 | 416 | 415 | 414 | 414 | 621 | 623 | 655 | 627 | 629 | 32. 40 | 15 |
| 50 | 57. 90 | 5. 55 467 | 484 | 500 | 516 | 533 | 9. 49 699 | 695 | 690 | 685 | 681 | 9. 98 414 | 413 | 412 | 412 | 411 | 9. 83 529 | 632 | 634 | 636 | 638 | 36 | 5 |
| 51 | 54 | 533 | 549 | 565 | 589 | 598 | 681 | 676 | 671 | 667 | 662 | 411 | 411 | 410 | 410 | 109 | 638 | 640 | 642 | 644 | 647 | 32 | 8 |
| 52 | 28 | 558 | 615 | 631 | 647 | 664 | 669 | 667 | 653 | 648 | 643 | 409 | 408 | 400 | 407 | 106 | 547 | 649 | 651 | 652 | 655 | 28 | 7 |
| 53 | 32 | 664 | 680 | 696 | 713 | 729 | 643 | 639 | 634 | 629 | 695 | 406 | 406 | 405 | 405 | 404 | 655 | 657 | 659 | 662 | 664 | 24 | 6 |
| 54 | 36 | 759 | 745 | 762 | 778 | 794 | 625 | 620 | 615 | 611 | 606 | 404 | 403 | 403 | 402 | 409 | 664 | 666 | 668 | 670 | 672 | 32. 20 | 6 |
| 56 | 27. 40 | 6. 55 794 | 810 | 827 | 843 | 059 | 9. 49 606 | 601 | 597 | 592 | 587 | 9. 98 402 | 401 | 400 | 400 | 399 | 9. 83 672 | 574 | 676 | 679 | 681 | 16 | 4 |
| 56 | 44 | 859 | 676 | 892 | 908 | 925 | 587 | 583 | 570 | 573 | 566 | 399 | 399 | 398 | 397 | 397 | 681 | 663 | 605 | 667 | 689 | 12 | 3 |
| 57 | 48 | 925 | 941 | 957 | 972 | 990 | 668 | 564 | 559 | 554 | 550 | 397 | 396 | 395 | 395 | 394 | 689 | 691 | 694 | 696 | 626 | 8 | 2 |
| 55 | 52 | * 990 | 006 | 022 | 038 | 055 | 550 | 545 | 510 | 536 | 531 | 394 | 394 | 393 | 322 | 392 | 628 | 700 | 702 | 704 | 706 | 4 | 1 |
| 59 | 56 | 8. 66 055 | 071 | 087 | 104 | 120 | 531 | 526 | 522 | 517 | 512 | 322 | 391 | 391 | 390 | 369 | 706 | 708 | 711 | 713 | 715 | 32. 0 | 0 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 5" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 5° 0" | 4° 60" | 3° 45" | 5° 30" | 1° 15" | 0° 0" | 4° 65" | 3° 45" | 2° 30" | 1° 16" | 0° 0" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 168° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 68° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 22° / 112° | 1h / 7h | Seno / Coseno 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Coseno / Seno 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Secante / Cosecante 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | Cosecante / Secante 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 50″ 4s | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 28. 0 | 9.57 358 | 365 | 373 | 301 | 389 | 9.96 717 | 715 | 714 | 713 | 711 | 0.03 283 | 285 | 286 | 287 | 289 | 0.42 649 | 635 | 627 | 619 | 611 | 56 | 59 |
| 1 | 4 | 389 | 397 | 404 | 412 | 420 | 711 | 710 | 709 | 708 | 706 | 289 | 290 | 291 | 292 | 291 | 611 | 603 | 596 | 588 | 580 | 52 | 58 |
| 2 | 8 | 420 | 428 | 436 | 443 | 151 | 706 | 705 | 704 | 703 | 701 | 294 | 295 | 296 | 297 | 299 | 500 | 572 | 564 | 557 | 549 | 48 | 57 |
| 3 | 12 | 451 | 459 | 467 | 475 | 482 | 701 | 700 | 699 | 697 | 696 | 299 | 300 | 301 | 303 | 304 | 519 | 511 | 533 | 525 | 518 | 44 | 56 |
| 4 | 16 | 482 | 490 | 498 | 506 | 614 | 696 | 695 | 694 | 692 | 691 | 304 | 305 | 306 | 300 | 309 | 518 | 510 | 502 | 491 | 486 | 31. 40 | 55 |
| 5 | 28. 20 | 9.57 514 | 521 | 529 | 537 | 545 | 9.95 691 | 690 | 688 | 687 | 686 | 0.03 309 | 310 | 312 | 313 | 314 | 0.42 486 | 479 | 471 | 463 | 455 | 36 | 54 |
| 6 | 24 | 545 | 552 | 560 | 568 | 576 | 686 | 685 | 603 | 682 | 681 | 314 | 315 | 317 | 318 | 319 | 455 | 448 | 440 | 432 | 424 | 32 | 63 |
| 7 | 28 | 576 | 584 | 591 | 599 | 607 | 601 | 679 | 678 | 677 | 676 | 319 | 321 | 322 | 323 | 324 | 424 | 416 | 409 | 401 | 393 | 28 | 52 |
| 8 | 32 | 607 | 615 | 622 | 630 | 638 | 676 | 674 | 673 | 672 | 670 | 324 | 326 | 327 | 328 | 330 | 393 | 385 | 378 | 370 | 362 | 24 | 51 |
| 9 | 36 | 638 | 646 | 653 | 661 | 669 | 670 | 669 | 668 | 667 | 665 | 330 | 331 | 332 | 333 | 335 | 362 | 354 | 347 | 339 | 331 | 31. 20 | 50 |
| 10 | 28. 40 | 9.57 669 | 677 | 684 | 692 | 700 | 9.96 665 | 664 | 663 | 661 | 660 | 0.03 335 | 336 | 337 | 339 | 340 | 0.42 331 | 323 | 316 | 308 | 300 | 16 | 49 |
| 11 | 44 | 700 | 708 | 715 | 723 | 731 | 660 | 659 | 658 | 656 | 655 | 340 | 341 | 342 | 344 | 345 | 300 | 292 | 285 | 277 | 269 | 12 | 40 |
| 12 | 48 | 731 | 739 | 746 | 754 | 762 | 555 | 654 | 652 | 651 | 650 | 345 | 346 | 310 | 349 | 350 | 269 | 261 | 254 | 246 | 238 | 8 | 47 |
| 13 | 52 | 762 | 770 | 777 | 785 | 723 | 650 | 649 | 647 | 646 | 645 | 350 | 351 | 353 | 354 | 355 | 238 | 230 | 223 | 215 | 207 | 4 | 46 |
| 14 | 56 | 793 | 800 | 808 | 816 | 821 | 615 | 643 | 642 | 541 | 640 | 355 | 357 | 358 | 359 | 360 | 207 | 200 | 192 | 184 | 176 | 31. 0 | 45 |
| 15 | 29. 0 | 9.57 824 | 831 | 839 | 847 | 855 | 9.96 640 | 638 | 637 | 636 | 634 | 0.03 360 | 352 | 363 | 364 | 366 | 0.42 176 | 169 | 161 | 153 | 145 | 55 | 44 |
| 16 | 4 | 855 | 862 | 870 | 878 | 805 | 634 | 633 | 632 | 630 | 629 | 366 | 367 | 368 | 370 | 371 | 145 | 138 | 130 | 122 | 115 | 62 | 43 |
| 17 | 8 | 685 | 893 | 901 | 908 | 916 | 629 | 628 | 627 | 625 | 524 | 371 | 372 | 373 | 375 | 376 | 115 | 107 | 099 | 092 | 084 | 48 | 42 |
| 18 | 12 | 916 | 924 | 932 | 939 | 947 | 624 | 623 | 621 | 620 | 619 | 376 | 377 | 379 | 380 | 381 | 084 | 076 | 068 | 061 | 053 | 44 | 41 |
| 19 | 16 | 947 | 955 | 962 | 970 | 978 | 619 | 618 | 616 | 615 | 614 | 381 | 382 | 384 | 385 | 386 | 053 | 015 | 038 | 030 | 022 | 30. 40 | 40 |
| 20 | 29. 20 | * 978 | 985 | 993 | 001 | 008 | 9.96 614 | 612 | 611 | 610 | 608 | 0.03 386 | 388 | 389 | 390 | 392 | * 022 | 015 | 007 | 999 | 992 | 36 | 39 |
| 21 | 24 | 9.58 008 | 016 | 024 | 031 | 039 | 608 | 607 | 606 | 605 | 603 | 392 | 393 | 394 | 395 | 397 | 0.41 292 | 984 | 976 | 969 | 961 | 32 | 38 |
| 22 | 28 | 039 | 047 | 055 | 062 | 070 | 603 | 602 | 601 | 599 | 598 | 397 | 398 | 399 | 401 | 402 | 961 | 253 | 945 | 938 | 938 | 28 | 37 |
| 23 | 32 | 070 | 078 | 085 | 093 | 101 | 598 | 597 | 595 | 594 | 593 | 402 | 403 | 405 | 406 | 407 | 930 | 922 | 915 | 907 | 899 | 24 | 35 |
| 24 | 36 | 101 | 108 | 116 | 123 | 131 | 593 | 592 | 590 | 589 | 588 | 407 | 408 | 410 | 411 | 412 | 899 | 892 | 884 | 877 | 869 | 30. 20 | 35 |
| 25 | 29. 40 | 9.58 131 | 139 | 146 | 154 | 162 | 9.96 588 | 586 | 585 | 581 | 582 | 0.03 412 | 414 | 415 | 416 | 418 | 0.41 862 | 861 | 854 | 846 | 838 | 16 | 34 |
| 26 | 44 | 162 | 169 | 177 | 185 | 192 | 582 | 581 | 580 | 579 | 577 | 418 | 419 | 420 | 421 | 423 | 838 | 831 | 823 | 815 | 808 | 12 | 33 |
| 27 | 48 | 192 | 200 | 208 | 216 | 223 | 577 | 576 | 575 | 573 | 572 | 423 | 421 | 425 | 427 | 428 | 808 | 800 | 792 | 785 | 777 | 8 | 32 |
| 28 | 62 | 223 | 231 | 238 | 246 | 252 | 672 | 571 | 569 | 568 | 567 | 428 | 429 | 431 | 432 | 433 | 777 | 769 | 762 | 754 | 747 | 4 | 31 |
| 29 | 56 | 253 | 261 | 269 | 276 | 284 | 567 | 565 | 564 | 563 | 562 | 433 | 435 | 436 | 437 | 438 | 747 | 739 | 731 | 724 | 716 | 30. 0 | 30 |
| 30 | 30. 0 | 9.58 204 | 292 | 299 | 307 | 314 | 9.96 562 | 560 | 559 | 558 | 556 | 0 03 438 | 440 | 441 | 442 | 444 | 0.41 716 | 708 | 701 | 693 | 686 | 56 | 29 |
| 31 | 4 | 314 | 322 | 330 | 337 | 345 | 556 | 555 | 554 | 552 | 551 | 444 | 445 | 446 | 448 | 449 | 686 | 678 | 670 | 663 | 655 | 52 | 28 |
| 32 | 8 | 345 | 353 | 350 | 368 | 375 | 551 | 550 | 540 | 547 | 516 | 449 | 450 | 452 | 453 | 454 | 655 | 647 | 640 | 632 | 625 | 48 | 27 |
| 33 | 12 | 375 | 383 | 391 | 398 | 406 | 546 | 545 | 543 | 542 | 541 | 454 | 455 | 457 | 458 | 459 | 625 | 617 | 609 | 602 | 594 | 44 | 26 |
| 34 | 16 | 406 | 413 | 421 | 429 | 436 | 541 | 539 | 538 | 537 | 535 | 459 | 461 | 462 | 463 | 465 | 594 | 587 | 579 | 571 | 564 | 29. 40 | 25 |
| 35 | 30. 20 | 9.58 436 | 444 | 451 | 459 | 467 | 9.96 535 | 534 | 533 | 531 | 530 | 0.03 465 | 466 | 467 | 469 | 470 | 0.41 564 | 556 | 549 | 541 | 533 | 36 | 24 |
| 36 | 24 | 467 | 474 | 482 | 489 | 497 | 530 | 529 | 527 | 526 | 525 | 470 | 471 | 473 | 474 | 475 | 533 | 626 | 518 | 511 | 503 | 32 | 23 |
| 37 | 28 | 497 | 504 | 512 | 520 | 527 | 525 | 523 | 522 | 521 | 520 | 475 | 477 | 478 | 479 | 480 | 503 | 496 | 488 | 480 | 473 | 28 | 22 |
| 38 | 32 | 527 | 535 | 542 | 550 | 557 | 520 | 518 | 517 | 516 | 514 | 480 | 482 | 483 | 484 | 486 | 473 | 465 | 458 | 450 | 443 | 24 | 21 |
| 39 | 36 | 557 | 565 | 573 | 580 | 588 | 514 | 513 | 512 | 510 | 509 | 486 | 487 | 488 | 490 | 491 | 443 | 435 | 427 | 420 | 412 | 22. 20 | 20 |
| 40 | 30. 40 | 9.58 508 | 595 | 603 | 610 | 618 | 9.96 509 | 508 | 506 | 505 | 504 | 0.03 491 | 492 | 494 | 495 | 496 | 0.41 412 | 405 | 397 | 390 | 382 | 16 | 19 |
| 41 | 44 | 618 | 625 | 633 | 641 | 648 | 504 | 602 | 501 | 500 | 498 | 496 | 490 | 499 | 500 | 502 | 382 | 375 | 367 | 359 | 352 | 12 | 18 |
| 42 | 48 | 640 | 656 | 663 | 671 | 678 | 498 | 497 | 496 | 494 | 193 | 502 | 503 | 501 | 506 | 507 | 352 | 344 | 337 | 329 | 322 | 8 | 17 |
| 43 | 62 | 678 | 686 | 693 | 701 | 709 | 493 | 492 | 491 | 489 | 488 | 507 | 508 | 509 | 511 | 512 | 322 | 314 | 307 | 299 | 291 | 4 | 16 |
| 44 | 56 | 709 | 716 | 724 | 731 | 739 | 488 | 487 | 485 | 484 | 483 | 512 | 513 | 515 | 516 | 517 | 291 | 284 | 276 | 269 | 261 | 29. 0 | 15 |
| 45 | 31. 0 | 9.58 739 | 746 | 754 | 761 | 759 | 9.96 483 | 481 | 480 | 479 | 477 | 0.03 517 | 519 | 520 | 521 | 523 | 0.41 261 | 254 | 245 | 239 | 231 | 56 | 14 |
| 46 | 4 | 769 | 776 | 784 | 791 | 799 | 477 | 476 | 475 | 473 | 472 | 523 | 524 | 525 | 527 | 528 | 231 | 224 | 216 | 209 | 201 | 52 | 13 |
| 47 | 8 | 799 | 806 | 814 | 821 | 829 | 472 | 471 | 469 | 460 | 467 | 528 | 529 | 531 | 532 | 533 | 201 | 194 | 186 | 179 | 171 | 48 | 12 |
| 48 | 12 | 829 | 836 | 044 | 851 | 859 | 467 | 465 | 464 | 463 | 461 | 533 | 535 | 536 | 537 | 539 | 171 | 164 | 156 | 149 | 141 | 44 | 11 |
| 49 | 16 | 859 | 866 | 874 | 881 | 889 | 461 | 460 | 459 | 457 | 456 | 639 | 540 | 541 | 543 | 544 | 141 | 134 | 126 | 119 | 111 | 28. 40 | 10 |
| 50 | 31. 20 | 9.58 889 | 896 | 904 | 911 | 919 | 9.96 456 | 455 | 453 | 452 | 451 | 0.03 544 | 545 | 547 | 548 | 549 | 0.41 111 | 104 | 096 | 089 | 081 | 36 | 9 |
| 51 | 21 | 919 | 926 | 934 | 941 | 949 | 451 | 449 | 448 | 447 | 445 | 549 | 551 | 552 | 553 | 555 | 081 | 074 | 066 | 059 | 051 | 32 | 8 |
| 52 | 28 | 949 | 956 | 964 | 971 | 979 | 445 | 444 | 443 | 441 | 440 | 555 | 556 | 557 | 559 | 560 | 051 | 044 | 036 | 029 | 021 | 28 | 7 |
| 53 | 32 | * 979 | 986 | 994 | 001 | 009 | 440 | 439 | 437 | 436 | 435 | 560 | 561 | 563 | 564 | 565 | * 021 | 014 | 006 | 999 | 991 | 24 | 6 |
| 54 | 36 | 9.59 009 | 016 | 024 | 031 | 039 | 435 | 433 | 432 | 431 | 429 | 565 | 567 | 568 | 569 | 571 | 0.40 991 | 984 | 976 | 969 | 961 | 28. 20 | 5 |
| 55 | 31. 40 | 9.69 039 | 046 | 054 | 061 | 069 | 9.96 429 | 428 | 427 | 425 | 424 | 0.03 571 | 572 | 573 | 575 | 575 | 0.40 961 | 954 | 946 | 939 | 931 | 16 | 4 |
| 56 | 44 | 069 | 076 | 084 | 091 | 098 | 424 | 423 | 421 | 420 | 419 | 576 | 577 | 579 | 580 | 581 | 931 | 924 | 917 | 909 | 902 | 12 | 3 |
| 57 | 48 | 098 | 106 | 113 | 121 | 128 | 419 | 417 | 416 | 415 | 413 | 581 | 583 | 584 | 585 | 587 | 902 | 894 | 887 | 879 | 872 | 8 | 2 |
| 58 | 52 | 128 | 136 | 143 | 151 | 150 | 413 | 412 | 411 | 409 | 408 | 587 | 588 | 689 | 591 | 592 | 872 | 864 | 857 | 849 | 842 | 4 | 1 |
| 59 | 56 | 158 | 165 | 173 | 180 | 188 | 408 | 407 | 405 | 404 | 403 | 592 | 593 | 595 | 596 | 597 | 842 | 835 | 827 | 820 | 812 | 28. 0 | 0 |
| | | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 157° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 67° |

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**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 22° / 112° | 1h / 7h | Verso / Coverso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Coverso / Subverso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Subverso / Subcoverso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Subcoverso / Verso 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 28. 0 | 8.56 120 | 136 | 152 | 168 | 185 | 9.49 512 | 508 | 503 | 498 | 494 | 9.98 389 | 389 | 388 | 387 | 387 | 9.83 715 | 717 | 719 | 721 | 723 | 56 | 59 |
| 1 | 4 | 185 | 201 | 217 | 233 | 250 | 494 | 489 | 484 | 480 | 475 | 387 | 386 | 386 | 385 | 384 | 723 | 725 | 728 | 730 | 732 | 52 | 58 |
| 2 | 8 | 250 | 266 | 282 | 298 | 315 | 475 | 470 | 465 | 461 | 456 | 384 | 384 | 383 | 383 | 382 | 732 | 734 | 736 | 738 | 740 | 48 | 57 |
| 3 | 12 | 315 | 331 | 347 | 363 | 379 | 456 | 451 | 447 | 442 | 437 | 382 | 381 | 381 | 380 | 379 | 740 | 743 | 745 | 747 | 749 | 44 | 56 |
| 4 | 16 | 379 | 396 | 412 | 428 | 444 | 437 | 433 | 428 | 423 | 419 | 379 | 379 | 378 | 378 | 377 | 749 | 751 | 753 | 755 | 757 | 31. 40 | 55 |
| 5 | 28. 20 | 8.56 444 | 460 | 476 | 493 | 509 | 9.49 419 | 414 | 409 | 405 | 400 | 9.98 377 | 376 | 376 | 375 | 375 | 9.83 757 | 760 | 762 | 764 | 766 | 36 | 54 |
| 6 | 24 | 509 | 525 | 541 | 557 | 573 | 400 | 395 | 390 | 386 | 381 | 375 | 374 | 373 | 373 | 372 | 766 | 768 | 770 | 772 | 774 | 32 | 53 |
| 7 | 28 | 573 | 590 | 606 | 622 | 638 | 381 | 376 | 372 | 367 | 362 | 372 | 371 | 371 | 370 | 370 | 774 | 777 | 779 | 781 | 783 | 28 | 52 |
| 8 | 32 | 638 | 654 | 670 | 687 | 703 | 362 | 358 | 353 | 348 | 344 | 370 | 369 | 368 | 368 | 367 | 783 | 785 | 787 | 789 | 791 | 24 | 51 |
| 9 | 36 | 703 | 719 | 735 | 751 | 767 | 344 | 339 | 334 | 329 | 325 | 367 | 367 | 366 | 365 | 365 | 791 | 794 | 796 | 798 | 800 | 31. 20 | 50 |
| 10 | 28. 40 | 8.56 767 | 783 | 799 | 816 | 832 | 9.49 325 | 320 | 315 | 311 | 306 | 9.98 365 | 364 | 363 | 363 | 362 | 9.83 800 | 802 | 804 | 806 | 808 | 16 | 49 |
| 11 | 44 | 832 | 848 | 864 | 880 | 896 | 306 | 301 | 297 | 292 | 287 | 362 | 362 | 361 | 360 | 360 | 808 | 811 | 813 | 815 | 817 | 12 | 48 |
| 12 | 48 | 896 | 912 | 928 | 944 | 960 | 287 | 282 | 278 | 273 | 268 | 360 | 359 | 358 | 358 | 357 | 817 | 819 | 821 | 823 | 825 | 8 | 47 |
| 13 | 52 | * 960 | 977 | 993 | 009 | 025 | 268 | 264 | 259 | 254 | 250 | 357 | 357 | 356 | 355 | 355 | 825 | 828 | 830 | 832 | 834 | 4 | 46 |
| 14 | 56 | 8.57 025 | 041 | 057 | 073 | 089 | 250 | 245 | 240 | 235 | 231 | 355 | 354 | 353 | 353 | 352 | 834 | 836 | 838 | 840 | 842 | 31. 0 | 45 |
| 15 | 29. 0 | 8.57 089 | 105 | 121 | 137 | 153 | 9.49 231 | 226 | 221 | 217 | 212 | 9.98 352 | 352 | 351 | 350 | 350 | 9.83 842 | 844 | 847 | 849 | 851 | 56 | 44 |
| 16 | 4 | 153 | 169 | 185 | 201 | 217 | 212 | 207 | 202 | 198 | 193 | 350 | 349 | 348 | 348 | 347 | 851 | 853 | 855 | 857 | 859 | 52 | 43 |
| 17 | 8 | 217 | 233 | 249 | 265 | 282 | 193 | 188 | 184 | 179 | 174 | 347 | 347 | 346 | 345 | 345 | 859 | 861 | 864 | 866 | 868 | 48 | 42 |
| 18 | 12 | 282 | 298 | 314 | 330 | 346 | 174 | 170 | 165 | 160 | 155 | 345 | 344 | 344 | 343 | 342 | 868 | 870 | 872 | 874 | 876 | 44 | 41 |
| 19 | 16 | 346 | 362 | 378 | 394 | 410 | 155 | 151 | 146 | 141 | 137 | 342 | 342 | 341 | 340 | 340 | 876 | 878 | 880 | 883 | 885 | 30. 40 | 40 |
| 20 | 29. 20 | 8.57 410 | 426 | 442 | 458 | 474 | 9.49 137 | 132 | 127 | 122 | 118 | 9.98 340 | 339 | 339 | 338 | 337 | 9.83 885 | 887 | 889 | 891 | 893 | 36 | 39 |
| 21 | 24 | 474 | 490 | 506 | 522 | 537 | 118 | 113 | 108 | 104 | 099 | 337 | 337 | 336 | 335 | 335 | 893 | 895 | 897 | 900 | 902 | 32 | 38 |
| 22 | 28 | 537 | 553 | 569 | 585 | 601 | 099 | 094 | 089 | 085 | 080 | 335 | 334 | 334 | 333 | 332 | 902 | 904 | 906 | 908 | 910 | 28 | 37 |
| 23 | 32 | 601 | 617 | 633 | 649 | 665 | 080 | 075 | 071 | 066 | 061 | 332 | 332 | 331 | 330 | 330 | 910 | 912 | 914 | 916 | 919 | 24 | 36 |
| 24 | 36 | 665 | 681 | 697 | 713 | 729 | 061 | 056 | 052 | 047 | 042 | 330 | 329 | 329 | 328 | 327 | 919 | 921 | 923 | 925 | 927 | 30. 20 | 35 |
| 25 | 29. 40 | 8.57 729 | 745 | 761 | 777 | 793 | 9.49 042 | 038 | 033 | 028 | 023 | 9.98 327 | 327 | 326 | 325 | 325 | 9.83 927 | 929 | 931 | 933 | 935 | 16 | 34 |
| 26 | 44 | 793 | 809 | 825 | 840 | 856 | 023 | 019 | 014 | 009 | 004 | 325 | 324 | 324 | 323 | 322 | 935 | 938 | 940 | 942 | 944 | 12 | 33 |
| 27 | 48 | 856 | 872 | 888 | 904 | 920 | * 004 | 000 | 995 | 990 | 986 | 322 | 322 | 321 | 320 | 320 | 944 | 946 | 948 | 950 | 952 | 8 | 32 |
| 28 | 52 | 920 | 936 | 952 | 968 | 984 | 9.48 986 | 981 | 976 | 971 | 967 | 320 | 319 | 319 | 318 | 317 | 952 | 954 | 957 | 959 | 961 | 4 | 31 |
| 29 | 56 | * 984 | 999 | 015 | 031 | 047 | 967 | 962 | 957 | 953 | 948 | 317 | 317 | 316 | 315 | 315 | 961 | 963 | 965 | 967 | 969 | 30. 0 | 30 |
| 30 | 30. 0 | 8.58 047 | 063 | 079 | 095 | 111 | 9.48 948 | 943 | 938 | 934 | 929 | 9.98 315 | 314 | 314 | 313 | 312 | 9.83 969 | 971 | 973 | 976 | 978 | 56 | 29 |
| 31 | 4 | 111 | 126 | 142 | 158 | 174 | 929 | 924 | 919 | 915 | 910 | 312 | 312 | 311 | 310 | 310 | 978 | 980 | 982 | 984 | 986 | 52 | 28 |
| 32 | 8 | 174 | 190 | 206 | 222 | 237 | 910 | 905 | 900 | 896 | 891 | 310 | 309 | 308 | 308 | 307 | 986 | 988 | 990 | 992 | 995 | 48 | 27 |
| 33 | 12 | 237 | 253 | 269 | 285 | 301 | 891 | 886 | 882 | 877 | 872 | 307 | 307 | 306 | 305 | 305 | * 995 | 997 | 999 | 001 | 003 | 44 | 26 |
| 34 | 16 | 301 | 317 | 332 | 348 | 364 | 872 | 867 | 863 | 858 | 853 | 305 | 304 | 303 | 303 | 302 | 9.84 003 | 005 | 007 | 009 | 011 | 29. 40 | 25 |
| 35 | 30. 20 | 8.58 364 | 380 | 396 | 412 | 427 | 9.48 853 | 848 | 844 | 839 | 834 | 9.98 302 | 302 | 301 | 300 | 300 | 9.84 011 | 014 | 016 | 018 | 020 | 36 | 24 |
| 36 | 24 | 427 | 443 | 459 | 475 | 491 | 834 | 830 | 825 | 820 | 815 | 300 | 299 | 298 | 298 | 297 | 020 | 022 | 024 | 026 | 028 | 32 | 23 |
| 37 | 28 | 491 | 506 | 522 | 538 | 554 | 815 | 811 | 806 | 801 | 796 | 297 | 297 | 296 | 295 | 295 | 028 | 030 | 033 | 035 | 037 | 28 | 22 |
| 38 | 32 | 554 | 569 | 585 | 601 | 617 | 796 | 792 | 787 | 782 | 777 | 295 | 294 | 293 | 293 | 292 | 037 | 039 | 041 | 043 | 045 | 24 | 21 |
| 39 | 36 | 617 | 633 | 648 | 664 | 680 | 777 | 773 | 768 | 763 | 758 | 292 | 291 | 291 | 290 | 290 | 045 | 047 | 049 | 051 | 054 | 29. 20 | 20 |
| 40 | 30. 40 | 8.58 680 | 696 | 711 | 727 | 743 | 9.48 758 | 754 | 749 | 744 | 739 | 9.98 290 | 289 | 288 | 288 | 287 | 9.84 054 | 056 | 058 | 060 | 062 | 16 | 19 |
| 41 | 44 | 743 | 759 | 774 | 790 | 806 | 739 | 735 | 730 | 725 | 720 | 287 | 286 | 286 | 285 | 284 | 062 | 064 | 066 | 068 | 070 | 12 | 18 |
| 42 | 48 | 806 | 822 | 837 | 853 | 869 | 720 | 716 | 711 | 706 | 701 | 284 | 284 | 283 | 283 | 282 | 070 | 072 | 075 | 077 | 079 | 8 | 17 |
| 43 | 52 | 869 | 884 | 900 | 916 | 932 | 701 | 697 | 692 | 687 | 683 | 282 | 281 | 281 | 280 | 279 | 079 | 081 | 083 | 085 | 087 | 4 | 16 |
| 44 | 56 | 932 | 947 | 963 | 979 | 994 | 683 | 678 | 673 | 668 | 664 | 279 | 279 | 278 | 278 | 277 | 087 | 089 | 091 | 093 | 096 | 29. 0 | 15 |
| 45 | 31. 0 | * 994 | 010 | 026 | 041 | 057 | 9.48 664 | 659 | 654 | 649 | 645 | 9.98 277 | 276 | 276 | 275 | 274 | 9.84 096 | 098 | 100 | 102 | 104 | 56 | 14 |
| 46 | 4 | 8.59 057 | 073 | 089 | 104 | 120 | 645 | 640 | 635 | 630 | 626 | 274 | 274 | 273 | 272 | 272 | 104 | 106 | 108 | 110 | 112 | 52 | 13 |
| 47 | 8 | 120 | 136 | 151 | 167 | 183 | 626 | 621 | 616 | 611 | 606 | 272 | 271 | 271 | 270 | 269 | 112 | 114 | 117 | 119 | 121 | 48 | 12 |
| 48 | 12 | 183 | 198 | 214 | 230 | 245 | 606 | 602 | 597 | 592 | 587 | 269 | 269 | 268 | 267 | 267 | 121 | 123 | 125 | 127 | 129 | 44 | 11 |
| 49 | 16 | 245 | 261 | 277 | 292 | 308 | 587 | 583 | 578 | 573 | 568 | 267 | 266 | 265 | 265 | 264 | 129 | 131 | 133 | 135 | 138 | 28. 40 | 10 |
| 50 | 31. 20 | 8.59 308 | 323 | 339 | 355 | 370 | 9.48 568 | 564 | 559 | 554 | 549 | 9.98 264 | 264 | 263 | 262 | 262 | 9.84 138 | 140 | 142 | 144 | 146 | 36 | 9 |
| 51 | 24 | 370 | 386 | 402 | 417 | 433 | 549 | 545 | 540 | 535 | 530 | 262 | 261 | 260 | 260 | 259 | 146 | 148 | 150 | 152 | 154 | 32 | 8 |
| 52 | 28 | 433 | 449 | 464 | 480 | 495 | 530 | 526 | 521 | 516 | 511 | 259 | 258 | 258 | 257 | 256 | 154 | 156 | 159 | 161 | 163 | 28 | 7 |
| 53 | 32 | 495 | 511 | 526 | 542 | 558 | 511 | 507 | 502 | 497 | 492 | 256 | 256 | 255 | 255 | 254 | 163 | 165 | 167 | 169 | 171 | 24 | 6 |
| 54 | 36 | 558 | 573 | 589 | 604 | 620 | 492 | 488 | 483 | 478 | 473 | 254 | 253 | 253 | 252 | 251 | 171 | 173 | 175 | 177 | 179 | 28. 20 | 5 |
| 55 | 31. 40 | 8.59 620 | 636 | 651 | 667 | 682 | 9.48 473 | 468 | 464 | 459 | 454 | 9.98 251 | 251 | 250 | 249 | 249 | 9.84 179 | 182 | 184 | 186 | 188 | 16 | 4 |
| 56 | 44 | 682 | 698 | 713 | 729 | 745 | 454 | 449 | 445 | 440 | 435 | 249 | 248 | 248 | 247 | 246 | 188 | 190 | 192 | 194 | 196 | 12 | 3 |
| 57 | 48 | 745 | 760 | 776 | 791 | 807 | 435 | 431 | 426 | 421 | 416 | 246 | 246 | 245 | 244 | 244 | 196 | 198 | 200 | 202 | 205 | 8 | 2 |
| 58 | 52 | 807 | 822 | 838 | 853 | 869 | 416 | 411 | 407 | 402 | 397 | 244 | 243 | 242 | 242 | 241 | 205 | 207 | 209 | 211 | 213 | 4 | 1 |
| 59 | 56 | 869 | 884 | 900 | 916 | 931 | 397 | 392 | 387 | 383 | 378 | 241 | 240 | 240 | 239 | 239 | 213 | 215 | 217 | 219 | 221 | 28. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 157° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 67° |

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**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 23° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 113° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" 3° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 2° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 32. 8 | 9. 59 188 | 195 | 203 | 210 | 218 | 9. 96 403 | 431 | 400 | 399 | 397 | 0. 03 597 | 599 | 600 | 601 | 603 | 8. 48 812 | 805 | 797 | 790 | 782 | 56 | 59 |
| 2 | 4 | 218 | 225 | 232 | 240 | 247 | 397 | 396 | 395 | 393 | 392 | 603 | 604 | 605 | 607 | 608 | 782 | 775 | 768 | 700 | 753 | 52 | 58 |
| 2 | 8 | 247 | 255 | 269 | 270 | 277 | 392 | 321 | 389 | 388 | 387 | 608 | 609 | 611 | 619 | 613 | 753 | 745 | 738 | 730 | 793 | 48 | 87 |
| 3 | 12 | 277 | 204 | 292 | 299 | 307 | 387 | 385 | 384 | 382 | 381 | 613 | 615 | 616 | 618 | 619 | 723 | 716 | 708 | 701 | 693 | 44 | 56 |
| 4 | 10 | 307 | 314 | 321 | 329 | 336 | 381 | 380 | 378 | 377 | 376 | 619 | 628 | 622 | 623 | 624 | 693 | 686 | 679 | 671 | 664 | 27. 40 | 55 |
| 8 | 32. 20 | 9. 69 336 | 344 | 351 | 359 | 366 | 9. 96 376 | 374 | 373 | 372 | 370 | 8. 03 624 | 626 | 697 | 628 | 630 | 3. 40 664 | 656 | 649 | 641 | 634 | 36 | 54 |
| 6 | 24 | 366 | 373 | 381 | 388 | 396 | 370 | 369 | 368 | 366 | 365 | 630 | 631 | 632 | 634 | 635 | 634 | 627 | 619 | 612 | 604 | 32 | 63 |
| 7 | 28 | 396 | 403 | 410 | 418 | 425 | 365 | 364 | 362 | 361 | 360 | 635 | 636 | 638 | 639 | 640 | 604 | 597 | 590 | 582 | 575 | 28 | 62 |
| 8 | 32 | 425 | 433 | 440 | 447 | 455 | 360 | 358 | 357 | 356 | 354 | 610 | 642 | 643 | 644 | 646 | 875 | 567 | 560 | 553 | 545 | 24 | 51 |
| 9 | 36 | 455 | 462 | 468 | 477 | 484 | 354 | 353 | 351 | 350 | 349 | 646 | 647 | 649 | 658 | 651 | 645 | 538 | 531 | 523 | 516 | 27. 20 | 50 |
| 10 | 32. 40 | 9. 69 484 | 422 | 429 | 506 | 514 | 9. 86 349 | 347 | 346 | 345 | 313 | 0. 03 651 | 653 | 654 | 655 | 657 | 8. 48 516 | 508 | 501 | 494 | 486 | 16 | 49 |
| 11 | 44 | 514 | 521 | 598 | 536 | 543 | 343 | 342 | 341 | 339 | 338 | 657 | 658 | 659 | 661 | 662 | 406 | 479 | 472 | 464 | 457 | 19 | 48 |
| 12 | 48 | 543 | 551 | 558 | 565 | 073 | 338 | 337 | 335 | 334 | 333 | 662 | 063 | 665 | 666 | 667 | 457 | 449 | 442 | 435 | 427 | 8 | 47 |
| 13 | 62 | 873 | 580 | 587 | 595 | 602 | 333 | 331 | 330 | 328 | 397 | 667 | 669 | 670 | 672 | 673 | 427 | 420 | 413 | 405 | 398 | 4 | 46 |
| 14 | 80 | 602 | 608 | 617 | 624 | 032 | 327 | 320 | 324 | 323 | 322 | 673 | 674 | 676 | 677 | 678 | 398 | 391 | 383 | 378 | 368 | 27. 0 | 45 |
| 15 | 33. 0 | 9. 59 632 | 639 | 646 | 654 | 661 | 9. 86 329 | 320 | 319 | 310 | 316 | 0. 83 678 | 880 | 681 | 682 | 884 | 8. 40 368 | 361 | 354 | 346 | 339 | 56 | 44 |
| 16 | 4 | 661 | 868 | 676 | 683 | 090 | 316 | 315 | 314 | 312 | 311 | 684 | 685 | 680 | 688 | 889 | 339 | 332 | 324 | 317 | 310 | 52 | 43 |
| 17 | 8 | 690 | 698 | 785 | 712 | 720 | 311 | 309 | 308 | 307 | 305 | 689 | 691 | 692 | 093 | 695 | 310 | 302 | 295 | 288 | 280 | 48 | 42 |
| 18 | 12 | 720 | 727 | 734 | 742 | 749 | 305 | 384 | 303 | 301 | 300 | 695 | 696 | 697 | 699 | 700 | 280 | 273 | 266 | 258 | 251 | 44 | 41 |
| 19 | 16 | 742 | 756 | 764 | 771 | 778 | 300 | 299 | 297 | 296 | 294 | 780 | 701 | 783 | 704 | 786 | 251 | 244 | 936 | 229 | 222 | 26. 40 | 40 |
| 20 | 33. 20 | 9. 69 778 | 786 | 793 | 800 | 808 | 2. 86 294 | 293 | 292 | 290 | 289 | 8. 03 706 | 787 | 708 | 710 | 711 | 8. 43 222 | 214 | 207 | 200 | 192 | 36 | 39 |
| 21 | 24 | 888 | 815 | 822 | 829 | 837 | 288 | 288 | 286 | 285 | 284 | 711 | 719 | 714 | 715 | 716 | 192 | 185 | 178 | 171 | 163 | 32 | 38 |
| 22 | 28 | 837 | 844 | 851 | 859 | 866 | 284 | 282 | 981 | 279 | 278 | 716 | 718 | 719 | 721 | 722 | 163 | 106 | 149 | 141 | 134 | 28 | 37 |
| 23 | 32 | 866 | 073 | 881 | 888 | 895 | 278 | 277 | 270 | 274 | 273 | 722 | 723 | 725 | 726 | 727 | 134 | 197 | 119 | 112 | 105 | 24 | 36 |
| 24 | 36 | 895 | 903 | 818 | 917 | 921 | 273 | 271 | 270 | 269 | 267 | 727 | 729 | 730 | 731 | 733 | 105 | 097 | 090 | 083 | 076 | 26. 20 | 36 |
| 25 | 33. 40 | 9. 89 994 | 932 | 939 | 948 | 954 | 9. 86 287 | 266 | 284 | 283 | 262 | 0. 83 733 | 734 | 736 | 737 | 738 | 8. 48 076 | 068 | 061 | 054 | 046 | 16 | 34 |
| 26 | 44 | 854 | 961 | 968 | 875 | 983 | 262 | 260 | 259 | 258 | 256 | 738 | 740 | 741 | 742 | 744 | 046 | 038 | 032 | 025 | 017 | 12 | 33 |
| 27 | 48 | * 883 | 998 | 897 | 005 | 012 | 256 | 255 | 254 | 252 | 251 | 744 | 745 | 746 | 748 | 749 | * 317 | 010 | 003 | 995 | 988 | 8 | 32 |
| 98 | 62 | 9. 63 812 | 019 | 026 | 034 | 041 | 251 | 249 | 248 | 247 | 245 | 749 | 751 | 752 | 753 | 755 | 0. 39 988 | 981 | 874 | 966 | 959 | 4 | 31 |
| 29 | 66 | 041 | 848 | 055 | 063 | 070 | 246 | 244 | 243 | 241 | 240 | 705 | 756 | 767 | 759 | 760 | 959 | 962 | 845 | 937 | 938 | 20. 0 | 30 |
| 30 | 34. 0 | 8. 60 070 | 077 | 084 | 092 | 099 | 9. 86 240 | 238 | 237 | 236 | 234 | 3. 03 760 | 762 | 763 | 764 | 766 | 0. 39 930 | 923 | 916 | 908 | 901 | 60 | 29 |
| 31 | 4 | 099 | 136 | 114 | 191 | 128 | 234 | 233 | 232 | 230 | 929 | 766 | 767 | 768 | 770 | 771 | 801 | 894 | 886 | 879 | 872 | 39 | 28 |
| 32 | 8 | 128 | 135 | 143 | 160 | 157 | 229 | 227 | 226 | 225 | 223 | 771 | 773 | 774 | 775 | 777 | 872 | 865 | 857 | 850 | 843 | 48 | 27 |
| 33 | 12 | 157 | 104 | 172 | 179 | 186 | 223 | 222 | 221 | 219 | 218 | 777 | 778 | 779 | 781 | 782 | 843 | 836 | 828 | 821 | 814 | 44 | 20 |
| 34 | 16 | 186 | 183 | 280 | 288 | 215 | 218 | 216 | 215 | 214 | 212 | 782 | 784 | 785 | 786 | 788 | 814 | 807 | 800 | 792 | 785 | 23. 40 | 26 |
| 35 | 34. 20 | 8. 60 915 | 222 | 229 | 237 | 244 | 8. 96 212 | 911 | 209 | 908 | 207 | 0. 03 788 | 789 | 790 | 792 | 793 | 0. 39 785 | 778 | 771 | 763 | 756 | 36 | 24 |
| 36 | 24 | 244 | 251 | 958 | 266 | 273 | 207 | 205 | 204 | 283 | 201 | 793 | 795 | 796 | 797 | 799 | 756 | 748 | 742 | 731 | 727 | 32 | 23 |
| 37 | 28 | 273 | 200 | 287 | 294 | 309 | 281 | 200 | 198 | 197 | 196 | 799 | 800 | 802 | 883 | 804 | 727 | 720 | 713 | 706 | 698 | 28 | 22 |
| 30 | 39 | 309 | 309 | 316 | 323 | 331 | 196 | 194 | 193 | 192 | 190 | 804 | 806 | 807 | 888 | 810 | 698 | 691 | 684 | 677 | 669 | 24 | 21 |
| 32 | 36 | 331 | 338 | 345 | 352 | 359 | 180 | 189 | 187 | 186 | 185 | 818 | 811 | 813 | 814 | 815 | 669 | 662 | 655 | 648 | 611 | 26. 20 | 20 |
| 40 | 34. 40 | 9. 68 359 | 367 | 374 | 381 | 388 | 9. 96 185 | 183 | 182 | 180 | 179 | 8. 03 815 | 817 | 818 | 820 | 821 | 0. 39 641 | 633 | 626 | 619 | 612 | 16 | 18 |
| 41 | 44 | 388 | 395 | 403 | 410 | 417 | 179 | 178 | 176 | 175 | 174 | 821 | 822 | 824 | 825 | 896 | 612 | 605 | 597 | 590 | 583 | 12 | 18 |
| 42 | 48 | 417 | 424 | 431 | 439 | 446 | 174 | 172 | 171 | 189 | 168 | 826 | 828 | 899 | 831 | 832 | 583 | 576 | 569 | 561 | 554 | 8 | 17 |
| 43 | 62 | 446 | 483 | 460 | 467 | 474 | 168 | 167 | 165 | 164 | 162 | 832 | 833 | 835 | 836 | 838 | 854 | 547 | 540 | 533 | 526 | 4 | 16 |
| 44 | 66 | 474 | 489 | 489 | 496 | 503 | 162 | 161 | 160 | 158 | 157 | 838 | 839 | 840 | 842 | 813 | 626 | 518 | 511 | 504 | 497 | 25. 0 | 15 |
| 45 | 35. 0 | 9. 08 803 | 510 | 518 | 525 | 532 | 9. 96 157 | 156 | 154 | 153 | 151 | 8. 03 843 | 844 | 846 | 847 | 849 | 8. 38 497 | 490 | 482 | 475 | 468 | 56 | 14 |
| 46 | 4 | 032 | 539 | 546 | 553 | 561 | 151 | 150 | 149 | 147 | 146 | · 849 | 850 | 851 | 853 | 854 | 468 | 461 | 454 | 447 | 439 | 02 | 13 |
| 47 | 8 | 561 | 568 | 575 | 582 | 589 | 146 | 144 | 143 | 142 | 140 | 854 | 856 | 857 | 858 | 860 | 439 | 432 | 425 | 418 | 411 | 48 | 12 |
| 48 | 12 | 889 | 596 | 604 | 611 | 618 | 140 | 139 | 137 | 136 | 135 | 868 | 861 | 863 | 864 | 865 | 411 | 484 | 396 | 389 | 382 | 44 | 11 |
| 49 | 16 | 618 | 625 | 632 | 639 | 646 | 135 | 133 | 132 | 130 | 129 | 865 | 867 | 808 | 870 | 871 | 382 | 375 | 368 | 361 | 354 | 24. 40 | 10 |
| 50 | 35. 20 | 9. 08 646 | 654 | 661 | 668 | 675 | 9. 96 129 | 128 | 126 | 125 | 123 | 0. 03 871 | 872 | 874 | 878 | 877 | 8. 39 354 | 346 | 339 | 332 | 325 | 36 | 9 |
| 51 | 24 | 676 | 682 | 689 | 696 | 704 | 123 | 122 | 121 | 118 | 118 | 877 | 878 | 879 | 881 | 882 | 325 | 318 | 311 | 304 | 286 | 32 | 8 |
| 52 | 28 | 704 | 711 | 718 | 795 | 732 | 118 | 116 | 115 | 114 | 112 | 882 | 884 | 885 | 886 | 888 | 296 | 288 | 282 | 275 | 268 | 28 | 7 |
| 53 | 39 | 732 | 739 | 746 | 764 | 761 | 112 | 111 | 108 | 108 | 187 | 888 | 889 | 891 | 892 | 893 | 268 | 201 | 254 | 246 | 239 | 24 | 6 |
| 54 | 38 | 761 | 768 | 775 | 782 | 789 | 107 | 105 | 184 | 102 | 101 | 893 | 895 | 896 | 898 | 899 | 239 | 232 | 225 | 218 | 211 | 24. 28 | 6 |
| 55 | 35. 40 | 9. 80 790 | 796 | 803 | 811 | 818 | 9. 86 101 | 100 | 098 | 097 | 095 | 3. 03 899 | 800 | 902 | 903 | 905 | 0. 39 211 | 284 | 197 | 189 | 182 | 16 | 4 |
| 56 | 44 | 818 | 895 | 839 | 839 | 846 | 895 | 894 | 093 | 091 | 080 | 905 | 906 | 907 | 909 | 918 | 182 | 176 | 168 | 161 | 154 | 12 | 3 |
| 57 | 48 | 848 | 853 | 800 | 867 | 875 | 090 | 088 | 087 | 086 | 084 | 918 | 812 | 913 | 914 | 916 | 154 | 147 | 148 | 133 | 125 | 8 | 2 |
| 58 | 52 | 875 | 882 | 889 | 896 | 983 | 084 | 083 | 081 | 080 | 079 | 816 | 917 | 919 | 920 | 921 | 125 | 118 | 111 | 104 | 897 | 4 | 1 |
| 59 | 56 | 983 | 818 | 917 | 994 | 931 | 879 | 077 | 076 | 074 | 073 | 921 | 823 | 924 | 926 | 927 | 097 | 020 | 083 | 076 | 069 | 24. 3 | 3 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 16" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 16" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 18h | 156° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 66° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 23° / 113° | 1h / 7h | Verso / Coverso | | | | | Coverso / Subverso | | | | | Subverso / Subcoverso | | | | | Subcoverso / Verso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 8″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 32. 0 | 8. 30 931 | 947 | 962 | 970 | 993 | 9. 48 378 | 373 | 368 | 364 | 359 | 9. 28 232 | 236 | 237 | 237 | 236 | 9. 84 221 | 223 | 225 | 228 | 230 | 56 | 59 |
| 1 | 4 | * 923 | 002 | 024 | 046 | 055 | 359 | 354 | 349 | 344 | 340 | 236 | 935 | 235 | 234 | 233 | 236 | 232 | 234 | 930 | 238 | 52 | 58 |
| 2 | 0 | 0. 60 055 | 071 | 080 | 102 | 117 | 340 | 335 | 330 | 325 | 321 | 233 | 233 | 232 | 231 | 231 | 230 | 240 | 949 | 244 | 246 | 46 | 57 |
| 3 | 12 | 117 | 133 | 146 | 164 | 179 | 321 | 316 | 311 | 306 | 301 | 231 | 236 | 230 | 222 | 228 | 216 | 240 | 251 | 253 | 255 | 44 | 56 |
| 4 | 16 | 172 | 195 | 210 | 225 | 241 | 301 | 297 | 222 | 267 | 282 | 228 | 228 | 227 | 926 | 226 | 255 | 257 | 259 | 261 | 263 | 27. 40 | 55 |
| 5 | 32. 20 | 0. 60 241 | 256 | 272 | 287 | 303 | 9. 48 202 | 278 | 273 | 268 | 203 | 9. 90 296 | 225 | 224 | 224 | 223 | 9. 84 263 | 265 | 267 | 269 | 271 | 36 | 54 |
| 8 | 24 | 303 | 318 | 334 | 349 | 365 | 263 | 250 | 254 | 249 | 244 | 223 | 222 | 229 | 921 | 220 | 271 | 274 | 276 | 278 | 280 | 32 | 53 |
| 7 | 20 | 365 | 360 | 325 | 411 | 426 | 244 | 239 | 235 | 230 | 225 | 220 | 220 | 219 | 219 | 218 | 280 | 289 | 284 | 286 | 288 | 28 | 52 |
| 8 | 32 | 426 | 442 | 457 | 473 | 468 | 225 | 220 | 215 | 211 | 206 | 216 | 217 | 917 | 216 | 215 | 288 | 290 | 299 | 994 | 296 | 24 | 51 |
| 9 | 36 | 486 | 503 | 512 | 534 | 550 | 206 | 201 | 196 | 192 | 107 | 215 | 215 | 214 | 213 | 213 | 296 | 292 | 301 | 303 | 305 | 27. 20 | 00 |
| 18 | 32. 40 | 8. 60 550 | 565 | 581 | 526 | 611 | 2. 48 187 | 182 | 177 | 172 | 168 | 0. 28 213 | 212 | 211 | 211 | 910 | 9. 84 305 | 307 | 389 | 311 | 313 | 16 | 49 |
| 11 | 44 | 611 | 027 | 642 | 657 | 673 | 168 | 163 | 158 | 133 | 148 | 210 | 209 | 909 | 208 | 208 | 313 | 315 | 317 | 319 | 391 | 12 | 48 |
| 12 | 40 | 673 | 680 | 704 | 719 | 734 | 148 | 144 | 139 | 134 | 129 | 208 | 207 | 206 | 206 | 205 | 321 | 324 | 326 | 326 | 330 | 8 | 47 |
| 13 | 52 | 734 | 750 | 765 | 761 | 726 | 129 | 124 | 120 | 115 | 110 | 285 | 204 | 204 | 203 | 902 | 338 | 332 | 334 | 336 | 338 | 4 | 46 |
| 14 | 56 | 726 | 011 | 627 | 042 | 057 | 110 | 105 | 100 | 696 | 091 | 202 | 202 | 201 | 200 | 200 | 338 | 340 | 342 | 344 | 346 | 27. 0 | 45 |
| 15 | 33. 0 | 8. 60 057 | 873 | 888 | 903 | 919 | 0. 48 091 | 086 | 061 | 077 | 072 | 9. 98 200 | 199 | 198 | 198 | 197 | 9. 84 346 | 349 | 351 | 353 | 355 | 56 | 44 |
| 16 | 4 | 919 | 934 | 949 | 965 | 908 | 872 | 007 | 062 | 057 | 053 | 197 | 197 | 196 | 195 | 195 | 355 | 357 | 359 | 361 | 363 | 52 | 43 |
| 17 | 0 | * 986 | 995 | 011 | 026 | 041 | 053 | 040 | 043 | 038 | 032 | 195 | 194 | 193 | 193 | 192 | 363 | 365 | 367 | 369 | 371 | 48 | 42 |
| 10 | 12 | 0. 61 041 | 057 | 072 | 087 | 103 | 633 | 029 | 024 | 019 | 014 | 192 | 121 | 191 | 190 | 189 | 371 | 373 | 376 | 378 | 380 | 44 | 41 |
| 12 | 16 | 103 | 116 | 133 | 148 | 164 | * 814 | 009 | 005 | 000 | 995 | 109 | 189 | 188 | 187 | 187 | 380 | 389 | 384 | 386 | 388 | 26. 40 | 48 |
| 26 | 33. 20 | 8. 61 164 | 179 | 194 | 210 | 225 | 9. 47 995 | 990 | 985 | 981 | 976 | 9. 98 187 | 166 | 185 | 185 | 184 | 9. 84 380 | 390 | 392 | 394 | 396 | 36 | 39 |
| 21 | 24 | 225 | 240 | 255 | 271 | 286 | 976 | 971 | 966 | 961 | 957 | 164 | 184 | 163 | 189 | 182 | 396 | 396 | 400 | 403 | 405 | 32 | 38 |
| 22 | 20 | 286 | 301 | 317 | 332 | 347 | 957 | 952 | 947 | 942 | 937 | 182 | 161 | 180 | 180 | 179 | 405 | 407 | 409 | 411 | 413 | 28 | 37 |
| 23 | 32 | 347 | 362 | 370 | 393 | 408 | 937 | 933 | 926 | 923 | 918 | 179 | 176 | 176 | 177 | 176 | 413 | 415 | 417 | 419 | 421 | 24 | 36 |
| 24 | 36 | 408 | 423 | 439 | 454 | 469 | 918 | 913 | 986 | 904 | 899 | 176 | 176 | 175 | 174 | 174 | 421 | 423 | 426 | 427 | 438 | 96. 20 | 35 |
| 25 | 33. 40 | 0. 31 469 | 404 | 500 | 515 | 530 | 9. 47 899 | 894 | 889 | 884 | 880 | 9. 98 174 | 173 | 172 | 172 | 171 | 9. 04 438 | 432 | 434 | 436 | 438 | 16 | 34 |
| 26 | 44 | 530 | 545 | 561 | 576 | 591 | 860 | 875 | 876 | 865 | 860 | 171 | 170 | 170 | 169 | 168 | 436 | 440 | 449 | 444 | 446 | 12 | 33 |
| 27 | 40 | 521 | 666 | 621 | 637 | 652 | 860 | 856 | 851 | 846 | 841 | 168 | 160 | 167 | 160 | 166 | 446 | 448 | 456 | 452 | 454 | 8 | 39 |
| 28 | 52 | 652 | 667 | 669 | 697 | 713 | 841 | 836 | 831 | 027 | 822 | 166 | 165 | 165 | 164 | 163 | 454 | 406 | 459 | 461 | 463 | 4 | 31 |
| 29 | 56 | 713 | 720 | 743 | 756 | 773 | 822 | 817 | 819 | 807 | 863 | 163 | 103 | 162 | 161 | 101 | 463 | 465 | 467 | 469 | 471 | 96. 8 | 30 |
| 30 | 34. 0 | 8. 61 773 | 709 | 804 | 019 | 834 | 9. 47 603 | 798 | 793 | 768 | 783 | 2. 90 161 | 160 | 159 | 159 | 158 | 9. 84 471 | 473 | 475 | 477 | 479 | 56 | 29 |
| 31 | 4 | 834 | 649 | 864 | 866 | 895 | 703 | 779 | 774 | 769 | 764 | 158 | 157 | 157 | 150 | 155 | 479 | 461 | 483 | 485 | 488 | 32 | 28 |
| 32 | 8 | 895 | 910 | 995 | 940 | 955 | 764 | 759 | 754 | 750 | 745 | 155 | 155 | 154 | 133 | 153 | 466 | 490 | 422 | 494 | 496 | 48 | 27 |
| 33 | 12 | * 955 | 971 | 980 | 001 | 016 | 745 | 740 | 735 | 730 | 725 | 153 | 152 | 151 | 151 | 150 | 496 | 490 | 500 | 502 | 504 | 44 | 26 |
| 34 | 16 | 6. 62 016 | 031 | 040 | 061 | 076 | 725 | 720 | 716 | 711 | 706 | 160 | 149 | 149 | 148 | 147 | 504 | 506 | 566 | 510 | 512 | 25. 46 | 25 |
| 35 | 34. 20 | 8. 62 076 | 092 | 107 | 122 | 137 | 9. 47 706 | 701 | 696 | 692 | 687 | 9. 96 147 | 147 | 146 | 145 | 145 | 9. 84 512 | 514 | 516 | 512 | 521 | 36 | 24 |
| 36 | 24 | 137 | 152 | 167 | 102 | 197 | 687 | 689 | 677 | 672 | 668 | 145 | 144 | 143 | 143 | 142 | 521 | 593 | 525 | 527 | 529 | 32 | 23 |
| 37 | 28 | 127 | 213 | 220 | 243 | 256 | 668 | 663 | 656 | 653 | 648 | 142 | 141 | 141 | 140 | 139 | 599 | 531 | 533 | 535 | 537 | 28 | 22 |
| 30 | 32 | 258 | 273 | 908 | 303 | 318 | 640 | 643 | 639 | 634 | 629 | 139 | 132 | 138 | 138 | 137 | 337 | 539 | 541 | 543 | 545 | 24 | 21 |
| 39 | 36 | 318 | 333 | 348 | 363 | 379 | 629 | 624 | 619 | 614 | 610 | 137 | 136 | 136 | 135 | 134 | 545 | 547 | 550 | 552 | 554 | 95. 20 | 90 |
| 40 | 34. 40 | 8. 09 379 | 394 | 409 | 424 | 439 | 0. 47 610 | 605 | 000 | 595 | 590 | 9. 98 134 | 134 | 133 | 132 | 132 | 9. 84 554 | 556 | 558 | 560 | 562 | 16 | 19 |
| 41 | 44 | 439 | 454 | 469 | 464 | 499 | 526 | 585 | 581 | 576 | 571 | 132 | 131 | 136 | 130 | 129 | 369 | 564 | 566 | 566 | 570 | 19 | 18 |
| 42 | 48 | 499 | 514 | 529 | 544 | 559 | 571 | 506 | 561 | 556 | 552 | 199 | 196 | 198 | 127 | 196 | 370 | 572 | 574 | 576 | 578 | 8 | 17 |
| 43 | 52 | 559 | 574 | 589 | 664 | 612 | 552 | 347 | 542 | 537 | 532 | 126 | 126 | 195 | 194 | 124 | 378 | 580 | 503 | 585 | 587 | 4 | 16 |
| 44 | 56 | 619 | 634 | 649 | 664 | 672 | 532 | 527 | 523 | 518 | 513 | 124 | 193 | 122 | 122 | 191 | 367 | 589 | 591 | 593 | 595 | 25. 0 | 13 |
| 45 | 35. 0 | 8. 02 679 | 694 | 709 | 724 | 740 | 9. 47 513 | 508 | 503 | 498 | 493 | 9. 98 121 | 120 | 190 | 112 | 118 | 9. 84 695 | 527 | 599 | 601 | 603 | 06 | 14 |
| 46 | 4 | 748 | 755 | 770 | 785 | 800 | 493 | 489 | 484 | 479 | 474 | 118 | 118 | 117 | 116 | 116 | 603 | 605 | 667 | 609 | 611 | 59 | 13 |
| 47 | 8 | 800 | 015 | 830 | 844 | 859 | 474 | 469 | 464 | 460 | 455 | 116 | 115 | 114 | 114 | 113 | 611 | 613 | 616 | 618 | 620 | 46 | 12 |
| 48 | 12 | 859 | 874 | 889 | 904 | 919 | 455 | 450 | 445 | 440 | 435 | 113 | 119 | 112 | 111 | 110 | 620 | 622 | 694 | 696 | 698 | 44 | 11 |
| 49 | 16 | 919 | 934 | 949 | 964 | 979 | 435 | 431 | 426 | 421 | 416 | 118 | 110 | 109 | 108 | 106 | 628 | 630 | 632 | 634 | 636 | 24. 48 | 18 |
| 50 | 35. 20 | * 979 | 994 | 009 | 024 | 039 | 9. 47 416 | 411 | 406 | 461 | 397 | 9. 98 108 | 107 | 100 | 106 | 105 | 9. 84 636 | 638 | 640 | 642 | 644 | 36 | 9 |
| 31 | 24 | 8. 63 839 | 054 | 069 | 084 | 099 | 397 | 392 | 387 | 382 | 377 | 105 | 104 | 104 | 103 | 102 | 644 | 646 | 648 | 651 | 653 | 32 | 8 |
| 52 | 28 | 099 | 114 | 129 | 144 | 152 | 377 | 379 | 367 | 363 | 358 | 162 | 102 | 101 | 100 | 100 | 653 | 655 | 657 | 652 | 661 | 28 | 7 |
| 53 | 32 | 159 | 174 | 189 | 203 | 210 | 358 | 353 | 348 | 343 | 339 | 108 | 099 | 096 | 096 | 097 | 061 | 663 | 665 | 667 | 669 | 24 | 6 |
| 34 | 36 | 218 | 233 | 948 | 263 | 278 | 339 | 334 | 329 | 324 | 319 | 097 | 096 | 696 | 695 | 094 | 662 | 671 | 673 | 673 | 677 | 24. 20 | 5 |
| 35 | 35. 40 | 8. 63 270 | 293 | 308 | 323 | 338 | 9. 47 319 | 314 | 309 | 364 | 300 | 9. 98 094 | 094 | 093 | 692 | 092 | 9. 84 677 | 679 | 681 | 683 | 005 | 16 | 4 |
| 56 | 44 | 338 | 353 | 367 | 382 | 397 | 300 | 295 | 990 | 285 | 280 | 099 | 091 | 696 | 090 | 089 | 665 | 687 | 690 | 692 | 694 | 12 | 3 |
| 57 | 48 | 397 | 412 | 427 | 442 | 457 | 280 | 275 | 970 | 266 | 261 | 089 | 068 | 688 | 687 | 086 | 694 | 696 | 698 | 700 | 782 | 8 | 2 |
| 58 | 52 | 457 | 472 | 487 | 582 | 516 | 261 | 236 | 251 | 946 | 941 | 806 | 886 | 685 | 684 | 064 | 702 | 704 | 706 | 706 | 710 | 4 | 1 |
| 59 | 56 | 516 | 531 | 546 | 561 | 576 | 241 | 236 | 231 | 227 | 229 | 084 | 883 | 089 | 082 | 081 | 710 | 712 | 714 | 716 | 710 | 94. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 8″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 13″ | 8° 8″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 13″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 10h / 4h | 156° / 66° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 24° | $1^h$ | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 114° | $7^h$ | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" $0^s$ | 15" $1^s$ | 30" $2^s$ | 43" $3^s$ | 68" $4^s$ | 0" $8^s$ | 15" $1^s$ | 38" $2^s$ | 45" $3^s$ | 60" $4^s$ | 0" $0^s$ | 13" $1^s$ | 30" $2^s$ | 45" $3^s$ | 80" $4^s$ | 8" $0^s$ | 15" $1^s$ | 80" $2^s$ | 43" $3^s$ | 60" $4^s$ | | |
| 0 | 36. 0 | 9.60 931 | 938 | 946 | 938 | 960 | 9.26 073 | 072 | 878 | 069 | 067 | 8.03 227 | 920 | 930 | 931 | 233 | 0.39 069 | 062 | 054 | 647 | 840 | 06 | 39 |
| 1 | 4 | 960 | 967 | 974 | 281 | 988 | 007 | 866 | 865 | 063 | 062 | 233 | 934 | 935 | 937 | 238 | 048 | 033 | 026 | 012 | 012 | 62 | 68 |
| 2 | 0 | * 288 | 995 | 082 | 009 | 016 | 862 | 008 | 859 | 858 | 056 | 238 | 240 | 941 | 942 | 944 | * 812 | 003 | 998 | 991 | 984 | 48 | 57 |
| 8 | 12 | 2.61 816 | 023 | 031 | 038 | 045 | 830 | 055 | 853 | 052 | 058 | 944 | 945 | 947 | 948 | 960 | 0.38 984 | 977 | 969 | 962 | 935 | 44 | 36 |
| 4 | 18 | 845 | 052 | 839 | 866 | 073 | 830 | 849 | 040 | 046 | 045 | 930 | 251 | 962 | 234 | 233 | 205 | 248 | 941 | 934 | 927 | 23.40 | 55 |
| 5 | 36.20 | 2.61 073 | 080 | 887 | 094 | 101 | 9.90 045 | 043 | 042 | 041 | 039 | 0.83 235 | 957 | 258 | 959 | 961 | 8.88 927 | 928 | 913 | 900 | 899 | 36 | 64 |
| 6 | 24 | 161 | 100 | 115 | 122 | 129 | 032 | 838 | 036 | 833 | 034 | 961 | 962 | 264 | 963 | 966 | 892 | 892 | 883 | 870 | 871 | 82 | 53 |
| 7 | 28 | 129 | 136 | 144 | 151 | 158 | 034 | 032 | 031 | 029 | 020 | 206 | 968 | 969 | 271 | 972 | 871 | 864 | 030 | 849 | 842 | 28 | 32 |
| 8 | 32 | 108 | 165 | 172 | 179 | 186 | 028 | 826 | 023 | 024 | 022 | 972 | 974 | 975 | 276 | 978 | 042 | 835 | 820 | 021 | 814 | 24 | 51 |
| 9 | 36 | 106 | 123 | 200 | 207 | 214 | 022 | 021 | 012 | 818 | 017 | 970 | 972 | 981 | 202 | 983 | 814 | 807 | 800 | 793 | 706 | 23.20 | 56 |
| 10 | 36.40 | 9.61 214 | 221 | 228 | 235 | 242 | 9.96 817 | 813 | 014 | 012 | 011 | 0.03 983 | 980 | 980 | 988 | 989 | 0.30 780 | 772 | 772 | 763 | 708 | 16 | 49 |
| 11 | 44 | 242 | 242 | 266 | 263 | 270 | 011 | 002 | 008 | 807 | 005 | 989 | 991 | 992 | 993 | 995 | 758 | 731 | 744 | 737 | 730 | 12 | 48 |
| 12 | 48 | 278 | 277 | 204 | 291 | 298 | 803 | 004 | 002 | 801 | 000 | * 923 | 990 | 998 | 299 | 000 | 730 | 723 | 716 | 709 | 782 | 8 | 47 |
| 13 | 52 | 298 | 305 | 312 | 319 | 326 | * 800 | 998 | 997 | 293 | 994 | 8.04 800 | 082 | 803 | 080 | 006 | 702 | 693 | 608 | 601 | 674 | 4 | 46 |
| 14 | 56 | 326 | 333 | 348 | 347 | 304 | 9.25 924 | 992 | 991 | 998 | 288 | 006 | 008 | 089 | 010 | 012 | 674 | 667 | 668 | 633 | 646 | 23. 0 | 45 |
| 15 | 37. 0 | 9.81 854 | 361 | 368 | 375 | 303 | 9.25 988 | 987 | 985 | 984 | 982 | 8.84 012 | 013 | 015 | 016 | 018 | 0.88 646 | 632 | 632 | 625 | 617 | 66 | 44 |
| 16 | 4 | 383 | 390 | 397 | 484 | 411 | 982 | 981 | 908 | 978 | 977 | 018 | 019 | 028 | 022 | 823 | 617 | 610 | 803 | 396 | 589 | 62 | 43 |
| 17 | 0 | 411 | 418 | 425 | 432 | 439 | 977 | 975 | 974 | 972 | 271 | 023 | 026 | 025 | 028 | 829 | 582 | 582 | 375 | 568 | 561 | 48 | 42 |
| 18 | 12 | 439 | 445 | 432 | 459 | 466 | 971 | 970 | 968 | 267 | 265 | 029 | 038 | 032 | 033 | 035 | 561 | 565 | 548 | 541 | 334 | 44 | 41 |
| 19 | 16 | 466 | 473 | 488 | 487 | 494 | 965 | 964 | 962 | 961 | 950 | 835 | 836 | 038 | 039 | 048 | 534 | 527 | 520 | 613 | 506 | 22.40 | 40 |
| 20 | 37.20 | 9.81 494 | 501 | 508 | 510 | 522 | 2.95 960 | 958 | 957 | 905 | 954 | 8.84 848 | 842 | 843 | 845 | 846 | 6.38 505 | 422 | 492 | 485 | 478 | 36 | 39 |
| 21 | 24 | 522 | 629 | 536 | 543 | 538 | 954 | 952 | 931 | 900 | 248 | 845 | 040 | 042 | 030 | 052 | 478 | 471 | 464 | 457 | 438 | 32 | 38 |
| 22 | 28 | 550 | 537 | 564 | 571 | 578 | 940 | 947 | 946 | 944 | 242 | 002 | 033 | 053 | 056 | 858 | 438 | 443 | 436 | 429 | 422 | 98 | 37 |
| 23 | 32 | 578 | 585 | 592 | 599 | 686 | 242 | 941 | 940 | 938 | 937 | 008 | 809 | 060 | 062 | 063 | 422 | 413 | 408 | 401 | 394 | 24 | 36 |
| 94 | 86 | 806 | 813 | 620 | 627 | 634 | 937 | 935 | 934 | 932 | 931 | 083 | 065 | 066 | 860 | 069 | 394 | 387 | 380 | 373 | 366 | 29.20 | 33 |
| 25 | 37.40 | 9.61 634 | 641 | 648 | 655 | 662 | 2.95 931 | 930 | 920 | 927 | 925 | 8.04 069 | 078 | 072 | 073 | 875 | 0.38 365 | 332 | 352 | 345 | 838 | 16 | 34 |
| 26 | 44 | 862 | 669 | 676 | 682 | 689 | 925 | 924 | 922 | 921 | 928 | 875 | 076 | 070 | 879 | 080 | 338 | 331 | 324 | 318 | 311 | 12 | 33 |
| 27 | 48 | 682 | 696 | 703 | 718 | 717 | 920 | 918 | 917 | 915 | 914 | 880 | 082 | 083 | 885 | 086 | 811 | 304 | 297 | 290 | 283 | 8 | 32 |
| 28 | 52 | 717 | 724 | 731 | 738 | 745 | 914 | 912 | 911 | 909 | 908 | 086 | 088 | 089 | 091 | 092 | 283 | 276 | 262 | 262 | 255 | 4 | 31 |
| 29 | 56 | 740 | 732 | 759 | 766 | 773 | 208 | 907 | 903 | 904 | 982 | 822 | 893 | 825 | 096 | 098 | 203 | 240 | 241 | 234 | 227 | 22. 0 | 38 |
| 38 | 88. 8 | 9.61 773 | 780 | 787 | 793 | 880 | 9.95 982 | 901 | 899 | 828 | 897 | 8.04 028 | 899 | 101 | 102 | 103 | 0.38 227 | 220 | 213 | 287 | 208 | 56 | 29 |
| 81 | 4 | 600 | 807 | 814 | 821 | 828 | 897 | 893 | 024 | 892 | 091 | 103 | 105 | 106 | 108 | 189 | 280 | 193 | 186 | 179 | 172 | 62 | 28 |
| 89 | 8 | 828 | 835 | 842 | 849 | 856 | 821 | 882 | 088 | 886 | 885 | 109 | 111 | 112 | 114 | 115 | 172 | 165 | 158 | 161 | 144 | 48 | 27 |
| 83 | 19 | 856 | 868 | 870 | 876 | 883 | 885 | 084 | 882 | 881 | 879 | 110 | 116 | 118 | 119 | 121 | 144 | 137 | 130 | 124 | 117 | 44 | 26 |
| 34 | 18 | 883 | 890 | 827 | 904 | 911 | 079 | 078 | 076 | 873 | 873 | 121 | 122 | 124 | 125 | 127 | 117 | 110 | 103 | 090 | 009 | 21.40 | 25 |
| 35 | 38.20 | 9.61 911 | 918 | 925 | 932 | 939 | 9.95 873 | 872 | 871 | 869 | 868 | 8.84 127 | 128 | 129 | 131 | 132 | 0.38 089 | 882 | 075 | 068 | 061 | 36 | 24 |
| 80 | 24 | 939 | 946 | 952 | 959 | 966 | 808 | 060 | 865 | 863 | 862 | 132 | 134 | 135 | 137 | 138 | 061 | 054 | 048 | 641 | 034 | 82 | 23 |
| 37 | 28 | 906 | 973 | 980 | 987 | 294 | 862 | 068 | 852 | 808 | 856 | 138 | 148 | 141 | 142 | 144 | 034 | 027 | 820 | 813 | 006 | 28 | 22 |
| 30 | 32 | * 224 | 001 | 008 | 014 | 621 | 056 | 833 | 853 | 852 | 830 | 144 | 146 | 147 | 148 | 150 | * 006 | 922 | 992 | 986 | 979 | 24 | 21 |
| 89 | 36 | 9.69 021 | 028 | 035 | 042 | 049 | 850 | 842 | 847 | 846 | 844 | 138 | 151 | 163 | 154 | 156 | 0.37 979 | 972 | 963 | 958 | 951 | 21.98 | 28 |
| 48 | 38.40 | 9.69 049 | 006 | 063 | 869 | 075 | 2.96 844 | 843 | 842 | 840 | 839 | 8.84 156 | 157 | 158 | 168 | 161 | 0.37 951 | 944 | 937 | 931 | 924 | 16 | 19 |
| 41 | 44 | 876 | 883 | 090 | 097 | 104 | 839 | 837 | 836 | 834 | 833 | 161 | 163 | 164 | 166 | 167 | 924 | 917 | 910 | 903 | 896 | 12 | 18 |
| 42 | 48 | 104 | 111 | 118 | 124 | 131 | 833 | 831 | 038 | 029 | 827 | 167 | 158 | 170 | 171 | 173 | 826 | 882 | 882 | 076 | 869 | 8 | 17 |
| 43 | 62 | 131 | 138 | 145 | 152 | 159 | 827 | 026 | 824 | 823 | 821 | 173 | 174 | 176 | 177 | 179 | 862 | 082 | 855 | 840 | 841 | 4 | 18 |
| 44 | 66 | 159 | 166 | 172 | 179 | 186 | 821 | 020 | 818 | 817 | 015 | 172 | 180 | 102 | 183 | 105 | 841 | 834 | 828 | 821 | 814 | 21. 8 | 15 |
| 45 | 39. 0 | 9.62 186 | 193 | 280 | 207 | 214 | 9.90 815 | 814 | 813 | 811 | 010 | 8.84 105 | 186 | 187 | 189 | 190 | 8.87 014 | 887 | 880 | 793 | 786 | 56 | 14 |
| 46 | 4 | 914 | 228 | 227 | 234 | 241 | 810 | 088 | 087 | 005 | 084 | 128 | 122 | 193 | 195 | 196 | 786 | 780 | 773 | 766 | 759 | 52 | 18 |
| 47 | 0 | 241 | 248 | 255 | 261 | 268 | 804 | 802 | 801 | 799 | 798 | 195 | 198 | 199 | 201 | 202 | 752 | 732 | 740 | 739 | 732 | 48 | 12 |
| 48 | 12 | 208 | 275 | 282 | 289 | 296 | 720 | 726 | 795 | 794 | 792 | 202 | 204 | 205 | 286 | 208 | 732 | 725 | 718 | 711 | 704 | 44 | 11 |
| 49 | 10 | 296 | 302 | 309 | 316 | 322 | 792 | 721 | 789 | 788 | 780 | 260 | 209 | 211 | 212 | 214 | 764 | 698 | 621 | 604 | 677 | 20.40 | 18 |
| 00 | 32.20 | 9.62 323 | 330 | 337 | 343 | 368 | 9.95 786 | 780 | 783 | 782 | 780 | 6.84 214 | 216 | 217 | 218 | 220 | 0.37 677 | 670 | 663 | 657 | 658 | 86 | 2 |
| 61 | 24 | 350 | 357 | 364 | 371 | 377 | 786 | 772 | 777 | 776 | 775 | 220 | 221 | 223 | 224 | 225 | 698 | 643 | 636 | 829 | 623 | 82 | 6 |
| 52 | 28 | 377 | 364 | 321 | 396 | 465 | 775 | 773 | 772 | 770 | 759 | 925 | 227 | 220 | 230 | 231 | 623 | 616 | 602 | 682 | 595 | 28 | 7 |
| 53 | 32 | 403 | 411 | 418 | 425 | 432 | 769 | 767 | 766 | 764 | 763 | 231 | 233 | 234 | 236 | 237 | 595 | 302 | 582 | 675 | 568 | 24 | 6 |
| 54 | 86 | 432 | 439 | 446 | 469 | 469 | 763 | 761 | 760 | 758 | 757 | 237 | 239 | 248 | 242 | 243 | 660 | 561 | 554 | 040 | 541 | 20.28 | 5 |
| 55 | 39.40 | 9.62 452 | 466 | 473 | 472 | 486 | 9.95 767 | 705 | 754 | 753 | 751 | 8.04 243 | 246 | 246 | 247 | 249 | 0.37 541 | 534 | 527 | 521 | 514 | 16 | 4 |
| 56 | 44 | 480 | 423 | 660 | 507 | 513 | 761 | 798 | 748 | 747 | 745 | 242 | 250 | 252 | 253 | 265 | 514 | 507 | 508 | 493 | 487 | 12 | 8 |
| 57 | 48 | 518 | 528 | 527 | 534 | 541 | 745 | 744 | 742 | 741 | 739 | 256 | 236 | 258 | 259 | 961 | 487 | 480 | 473 | 466 | 452 | [illegible] | 2 |
| 58 | 52 | 541 | 547 | 654 | 561 | 568 | 782 | 738 | 736 | 735 | 733 | 261 | 282 | 264 | 265 | 267 | 432 | 453 | 446 | 432 | 432 | 4 | 1 |
| 59 | 56 | 568 | 675 | 081 | 588 | 525 | 788 | 732 | 731 | 729 | 728 | 287 | 268 | 269 | 271 | 272 | 432 | 425 | 419 | 412 | 400 | 28. 8 | 8 |
| | | $4^s$ 60" | $3^s$ 46" | $2^s$ 80" | $1^s$ 15" | $0^s$ 0" | $4^s$ 60" | $3^s$ 45" | $2^s$ 30" | $1^s$ 15" | $0^s$ 8" | $4^s$ 80" | $3^s$ 45" | $2^s$ 30" | $1^s$ 10" | $0^s$ 0" | $4^s$ 60" | $3^s$ 43" | $2^s$ 30" | $1^s$ 15" | $0^s$ 6" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | $10^h$ | 155° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | $4^h$ | 65° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 24° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 114° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 6" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 8" 6° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 8" 8° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 36. 8 | 8. 63 576 | 591 | 605 | 620 | 635 | 9. 47 222 | 217 | 212 | 207 | 282 | 9. 96 881 | 088 | 080 | 679 | 078 | 9. 84 718 | 720 | 722 | 724 | 726 | 56 | 59 |
| 1 | 4 | 635 | 650 | 605 | 680 | 695 | 202 | 197 | 193 | 188 | 183 | 978 | 078 | 077 | 070 | 075 | 720 | 729 | 731 | 733 | 735 | 59 | 58 |
| 2 | 8 | 695 | 709 | 791 | 739 | 754 | 103 | 178 | 173 | 168 | 163 | 075 | 075 | 074 | 073 | 073 | 735 | 737 | 732 | 741 | 743 | 48 | 57 |
| 3 | 12 | 754 | 709 | 784 | 798 | 813 | 103 | 159 | 154 | 149 | 141 | 873 | 072 | 071 | 671 | 070 | 743 | 745 | 747 | 749 | 751 | 44 | 56 |
| 4 | 16 | 913 | 820 | 842 | 857 | 872 | 144 | 139 | 134 | 129 | 124 | 070 | 069 | 009 | 068 | 067 | 751 | 753 | 755 | 757 | 759 | 23. 40 | 55 |
| 5 | 36. 20 | 8. 63 872 | 887 | 202 | 917 | 932 | 9. 47 124 | 119 | 115 | 110 | 105 | 9. 98 067 | 007 | 006 | 060 | 065 | 9. 84 759 | 761 | 703 | 765 | 767 | 36 | 54 |
| 6 | 24 | 939 | 946 | 901 | 976 | 921 | 105 | 100 | 095 | 090 | 085 | 865 | 064 | 003 | 063 | 002 | 767 | 769 | 772 | 774 | 776 | 32 | 53 |
| 7 | 98 | * 991 | 006 | 020 | 035 | 050 | 805 | 081 | 076 | 071 | 006 | 062 | 061 | 861 | 000 | 059 | 776 | 778 | 780 | 782 | 784 | 98 | 52 |
| 8 | 32 | 8. 64 050 | 065 | 079 | 094 | 109 | 060 | 001 | 050 | 051 | 846 | 059 | 059 | 058 | 057 | 057 | 784 | 780 | 788 | 720 | 792 | 24 | 51 |
| 9 | 36 | 109 | 194 | 138 | 153 | 108 | 046 | 042 | 037 | 039 | 097 | 057 | 050 | 055 | 655 | 054 | 792 | 794 | 790 | 728 | 800 | 93. 90 | 56 |
| 10 | 36. 40 | 8. 64 108 | 183 | 197 | 212 | 227 | 9. 47 027 | 022 | 017 | 012 | 007 | 9. 98 054 | 053 | 053 | 052 | 051 | 9. 84 800 | 802 | 804 | 806 | 808 | 10 | 49 |
| 11 | 44 | 297 | 942 | 250 | 271 | 286 | * 607 | 862 | 998 | 993 | 988 | 051 | 051 | 050 | 049 | 049 | 808 | 810 | 812 | 814 | 817 | 12 | 46 |
| 12 | 48 | 286 | 301 | 315 | 330 | 345 | 9. 46 988 | 983 | 978 | 973 | 908 | 649 | 048 | 017 | 040 | 046 | 817 | 812 | 891 | 823 | 825 | 8 | 47 |
| 13 | 52 | 345 | 360 | 374 | 389 | 404 | 908 | 963 | 959 | 954 | 949 | 046 | 045 | 044 | 044 | 043 | 825 | 897 | 829 | 831 | 833 | 4 | 46 |
| 14 | 56 | 404 | 418 | 433 | 448 | 403 | 949 | 944 | 939 | 934 | 922 | 043 | 042 | 042 | 041 | 040 | 833 | 835 | 837 | 839 | 841 | 23. 0 | 45 |
| 15 | 37. 0 | 8. 64 403 | 477 | 192 | 507 | 521 | 9. 46 929 | 924 | 919 | 915 | 910 | 9. 98 040 | 040 | 039 | 038 | 038 | 9. 84 841 | 843 | 845 | 847 | 849 | 56 | 44 |
| 16 | 4 | 521 | 536 | 551 | 505 | 580 | 910 | 905 | 900 | 895 | 890 | 038 | 037 | 636 | 030 | 035 | 849 | 851 | 853 | 855 | 857 | 52 | 43 |
| 17 | 8 | 580 | 595 | 609 | 624 | 639 | 990 | 885 | 880 | 876 | 871 | 035 | 034 | 034 | 033 | 032 | 857 | 859 | 861 | 863 | 806 | 48 | 42 |
| 18 | 12 | 639 | 653 | 668 | 083 | 697 | 871 | 800 | 801 | 856 | 851 | 032 | 032 | 031 | 030 | 030 | 866 | 868 | 870 | 872 | 874 | 44 | 41 |
| 19 | 16 | 697 | 712 | 727 | 741 | 756 | 851 | 846 | 841 | 830 | 831 | 030 | 029 | 029 | 097 | 027 | 874 | 870 | 878 | 880 | 882 | 22. 40 | 40 |
| 20 | 37. 20 | 8. 64 756 | 771 | 785 | 800 | 815 | 9. 46 831 | 827 | 029 | 817 | 812 | 9. 98 027 | 026 | 025 | 025 | 024 | 9. 84 882 | 884 | 880 | 888 | 890 | 30 | 39 |
| 21 | 24 | 815 | 829 | 844 | 859 | 873 | 812 | 807 | 802 | 797 | 792 | 024 | 023 | 023 | 022 | 021 | 890 | 822 | 894 | 820 | 828 | 32 | 38 |
| 22 | 28 | 873 | 888 | 902 | 917 | 932 | 722 | 787 | 782 | 778 | 773 | 621 | 021 | 020 | 019 | 019 | 898 | 900 | 902 | 904 | 906 | 98 | 37 |
| 23 | 32 | 939 | 946 | 261 | 975 | 990 | 773 | 769 | 763 | 758 | 753 | 019 | 618 | 017 | 017 | 016 | 906 | 968 | 210 | 912 | 914 | 94 | 36 |
| 94 | 36 | * 990 | 005 | 019 | 034 | 018 | 753 | 748 | 743 | 738 | 733 | 616 | 015 | 015 | 014 | 013 | 914 | 916 | 918 | 221 | 923 | 92. 90 | 35 |
| 25 | 37. 40 | 8. 65 048 | 063 | 078 | 092 | 107 | 9. 46 733 | 728 | 724 | 719 | 714 | 9. 98 013 | 012 | 012 | 011 | 010 | 9. 84 923 | 925 | 927 | 929 | 931 | 10 | 34 |
| 26 | 44 | 107 | 121 | 136 | 151 | 165 | 714 | 769 | 704 | 699 | 691 | 618 | 010 | 009 | 008 | 008 | 931 | 933 | 935 | 237 | 939 | 12 | 33 |
| 97 | 48 | 165 | 180 | 194 | 902 | 223 | 694 | 082 | 684 | 680 | 675 | 008 | 007 | 000 | 006 | 005 | 939 | 941 | 943 | 245 | 947 | 8 | 32 |
| 28 | 52 | 923 | 938 | 253 | 907 | 282 | 675 | 670 | 605 | 660 | 655 | 005 | 684 | 004 | 003 | 002 | 947 | 949 | 951 | 953 | 955 | 4 | 31 |
| 29 | 56 | 982 | 290 | 311 | 325 | 340 | 655 | 050 | 645 | 640 | 035 | * 002 | 002 | 001 | 000 | 929 | 955 | 957 | 959 | 201 | 963 | 22. 8 | 30 |
| 30 | 38. 8 | 8. 65 340 | 354 | 309 | 384 | 398 | 9. 46 635 | 630 | 020 | 091 | 010 | 9. 97 292 | 922 | 998 | 297 | 997 | 9. 84 903 | 965 | 967 | 269 | 971 | 56 | 29 |
| 31 | 4 | 398 | 419 | 427 | 442 | 456 | 616 | 011 | 606 | 601 | 590 | 997 | 990 | 925 | 995 | 224 | 971 | 973 | 975 | 977 | 972 | 52 | 28 |
| 32 | 8 | 456 | 471 | 485 | 500 | 514 | 526 | 591 | 586 | 581 | 576 | 294 | 293 | 923 | 992 | 991 | 979 | 981 | 984 | 986 | 988 | 48 | 97 |
| 33 | 12 | 514 | 529 | 543 | 558 | 572 | 576 | 571 | 507 | 562 | 557 | 991 | 990 | 220 | 982 | 988 | 988 | 920 | 992 | 994 | 990 | 44 | 26 |
| 34 | 16 | 072 | 587 | 001 | 616 | 620 | 557 | 552 | 547 | 549 | 537 | 988 | 988 | 987 | 986 | 980 | * 996 | 998 | 000 | 002 | 004 | 91. 40 | 25 |
| 35 | 38. 90 | 8. 65 630 | 645 | 659 | 074 | 688 | 9. 46 537 | 532 | 527 | 522 | 517 | 9. 97 286 | 985 | 284 | 984 | 283 | 9. 95 004 | 006 | 008 | 010 | 012 | 30 | 24 |
| 36 | 24 | 688 | 703 | 717 | 732 | 740 | 517 | 512 | 508 | 503 | 498 | 983 | 982 | 982 | 981 | 980 | 012 | 014 | 016 | 018 | 020 | 32 | 93 |
| 37 | 98 | 746 | 701 | 775 | 790 | 804 | 498 | 493 | 488 | 483 | 478 | 980 | 979 | 979 | 978 | 277 | 020 | 022 | 024 | 026 | 098 | 98 | 92 |
| 38 | 32 | 804 | 819 | 833 | 847 | 802 | 478 | 473 | 468 | 403 | 458 | 977 | 977 | 976 | 975 | 975 | 028 | 030 | 032 | 034 | 030 | 24 | 21 |
| 39 | 36 | 862 | 876 | 891 | 905 | 920 | 458 | 153 | 448 | 444 | 439 | 975 | 974 | 973 | 973 | 972 | 836 | 038 | 040 | 042 | 044 | 21. 90 | 20 |
| 40 | 38. 40 | 8. 65 920 | 934 | 949 | 963 | 978 | 9. 46 439 | 434 | 429 | 424 | 419 | 9. 97 972 | 971 | 971 | 970 | 969 | 9. 85 044 | 046 | 048 | 050 | 052 | 16 | 19 |
| 41 | 44 | * 976 | 992 | 000 | 021 | 635 | 412 | 114 | 409 | 404 | 399 | 909 | 208 | 268 | 967 | 906 | 859 | 054 | 056 | 058 | 061 | 12 | 18 |
| 42 | 48 | 8. 66 035 | 050 | 004 | 078 | 093 | 399 | 394 | 389 | 384 | 379 | 906 | 200 | 965 | 964 | 964 | 001 | 063 | 065 | 067 | 869 | 8 | 17 |
| 43 | 52 | 093 | 107 | 122 | 136 | 151 | 379 | 375 | 370 | 305 | 360 | 964 | 903 | 262 | 902 | 961 | 869 | 071 | 073 | 075 | 077 | 4 | 16 |
| 44 | 56 | 151 | 165 | 172 | 124 | 208 | 360 | 355 | 350 | 345 | 340 | 961 | 900 | 252 | 959 | 958 | 877 | 072 | 081 | 083 | 085 | 21. 0 | 15 |
| 45 | 39. 0 | 8. 66 208 | 223 | 237 | 251 | 266 | 9. 46 340 | 335 | 330 | 325 | 320 | 9. 97 958 | 957 | 257 | 956 | 955 | 9. 85 885 | 087 | 082 | 091 | 023 | 56 | 14 |
| 46 | 4 | 266 | 280 | 294 | 302 | 323 | 320 | 315 | 310 | 305 | 301 | 955 | 955 | 254 | 953 | 953 | 093 | 095 | 097 | 099 | 101 | 52 | 13 |
| 47 | 8 | 323 | 338 | 352 | 366 | 381 | 381 | 290 | 291 | 280 | 281 | 953 | 952 | 951 | 950 | 950 | 101 | 103 | 105 | 107 | 109 | 48 | 12 |
| 43 | 12 | 381 | 395 | 409 | 424 | 438 | 981 | 276 | 271 | 260 | 261 | 950 | 942 | 948 | 948 | 947 | 109 | 111 | 113 | 115 | 117 | 44 | 11 |
| 49 | 16 | 438 | 452 | 467 | 481 | 426 | 261 | 250 | 251 | 240 | 241 | 947 | 946 | 946 | 945 | 944 | 117 | 119 | 121 | 123 | 125 | 20. 40 | 10 |
| 50 | 39. 20 | 8. 66 496 | 510 | 524 | 539 | 553 | 9. 46·241 | 236 | 231 | 226 | 222 | 9. 97 944 | 944 | 943 | 942 | 241 | 9. 85 125 | 127 | 122 | 131 | 133 | 30 | 9 |
| 51 | 24 | 553 | 567 | 582 | 596 | 610 | 222 | 217 | 212 | 207 | 902 | 941 | 941 | 940 | 932 | 239 | 133 | 135 | 137 | 139 | 141 | 32 | 8 |
| 59 | 28 | 610 | 625 | 639 | 653 | 667 | 902 | 197 | 192 | 187 | 182 | 939 | 938 | 937 | 937 | 930 | 141 | 143 | 145 | 147 | 149 | 28 | 7 |
| 53 | 32 | 667 | 689 | 690 | 716 | 725 | 182 | 177 | 172 | 107 | 162 | 936 | 935 | 934 | 234 | 233 | 149 | 151 | 153 | 155 | 157 | 24 | 6 |
| 54 | 30 | 725 | 739 | 753 | 708 | 782 | 109 | 157 | 102 | 147 | 142 | 933 | 939 | 932 | 931 | 930 | 157 | 160 | 102 | 164 | 166 | 28. 20 | 5 |
| 55 | 39. 40 | 8. 66 789 | 720 | 811 | 825 | 839 | 9. 46 142 | 137 | 132 | 128 | 123 | 9. 97 930 | 930 | 929 | 228 | 927 | 9. 85 160 | 108 | 170 | 172 | 174 | 10 | 4 |
| 56 | 44 | 839 | 653 | 868 | 882 | 896 | 123 | 118 | 113 | 108 | 103 | 927 | 927 | 926 | 925 | 925 | 174 | 176 | 178 | 180 | 182 | 12 | 3 |
| 57 | 48 | 826 | 910 | 225 | 939 | 953 | 103 | 098 | 093 | 088 | 083 | 925 | 924 | 923 | 923 | 922 | 182 | 184 | 186 | 188 | 190 | 8 | 9 |
| 56 | 52 | * 953 | 968 | 982 | 996 | 010 | 083 | 078 | 073 | 068 | 063 | 922 | 921 | 990 | 920 | 919 | 190 | 192 | 194 | 196 | 198 | 4 | 1 |
| 59 | 56 | 8. 67 010 | 095 | 039 | 053 | 067 | 063 | 058 | 053 | 818 | 843 | 919 | 918 | 918 | 917 | 916 | 198 | 260 | 202 | 204 | 206 | 20. 0 | 6 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 9° 30" | 1° 15" | 0° 8" | 4° 68" | 3° 45" | 9° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 155° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 65° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 25° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 6s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 6s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 6 | 40. 0 | 9.62 696 | 609 | 660 | 615 | 622 | 9,95 728 | 726 | 725 | 723 | 722 | 6.64 279 | 274 | 275 | 277 | 278 | 6.37 405 | 390 | 399 | 385 | 376 | 58 | 59 |
| 1 | 4 | 629 | 699 | 635 | 642 | 549 | 722 | 798 | 719 | 717 | 716 | 270 | 980 | 901 | 263 | 994 | 678 | 371 | 386 | 368 | 361 | 52 | 60 |
| 2 | 9 | 649 | 656 | 682 | 569 | 678 | 716 | 714 | 713 | 711 | 710 | 204 | 206 | 207 | 289 | 990 | 651 | 344 | 335 | 331 | 324 | 46 | 57 |
| 6 | 12 | 676 | 803 | 808 | 696 | 703 | 710 | 708 | 767 | 705 | 794 | 290 | 292 | 293 | 295 | 998 | 324 | 317 | 310 | 384 | 297 | 44 | 56 |
| 4 | 16 | 703 | 710 | 717 | 723 | 730 | 704 | 762 | 701 | 750 | 698 | 996 | 296 | 299 | 300 | 309 | 997 | 290 | 266 | 277 | 976 | 19. 40 | 55 |
| 5 | 46. 20 | 9.69 730 | 737 | 744 | 758 | 757 | 9.95 698 | 897 | 695 | 604 | 502 | 6.64 302 | 503 | 305 | 308 | 368 | 6.67 970 | 263 | 256 | 259 | 243 | 66 | 54 |
| 6 | 24 | 757 | 754 | 770 | 777 | 764 | 699 | 891 | 689 | 688 | 686 | 500 | 300 | 311 | 319 | 314 | 243 | 238 | 230 | 223 | 216 | 32 | 53 |
| 7 | 25 | 784 | 791 | 707 | 804 | 811 | 688 | 865 | 883 | 669 | 880 | 314 | 315 | 317 | 319 | 320 | 218 | 209 | 203 | 196 | 109 | 28 | 59 |
| 8 | 69 | 911 | 918 | 894 | 831 | 838 | 680 | 679 | 877 | 678 | 674 | 520 | 391 | 323 | 324 | 325 | 189 | 102 | 176 | 162 | 152 | 94 | 51 |
| 9 | 36 | 938 | 048 | 851 | 858 | 885 | 674 | 573 | 871 | 670 | 668 | 326 | 327 | 329 | 330 | 652 | 162 | 155 | 149 | 142 | 135 | 19. 20 | 50 |
| 10 | 40. 48 | 9.62 865 | 871 | 878 | 685 | 892 | 6.96 086 | 657 | 685 | 584 | 563 | 6.64 332 | 333 | 335 | 336 | 337 | 5.57 135 | 129 | 122 | 115 | 108 | 16 | 49 |
| 11 | 44 | 092 | 890 | 908 | 912 | 918 | 653 | 651 | 680 | 658 | 857 | 537 | 339 | 340 | 342 | 343 | 108 | 102 | 025 | 080 | 082 | 12 | 45 |
| 12 | 46 | 618 | 925 | 932 | 930 | 945 | 657 | 655 | 654 | 652 | 661 | 343 | 345 | 346 | 346 | 349 | 682 | 075 | 868 | 881 | 055 | 6 | 47 |
| 13 | 52 | 945 | 952 | 959 | 965 | 072 | 651 | 649 | 648 | 646 | 545 | 649 | 381 | 359 | 384 | 355 | 955 | 048 | 841 | 035 | 828 | 4 | 46 |
| 14 | 68 | 972 | 079 | 906 | 999 | 099 | 645 | 843 | 642 | 640 | 639 | 655 | 357 | 558 | 366 | 351 | 628 | 021 | 014 | 006 | 001 | 19. 6 | 45 |
| 15 | 41. 6 | * 999 | 008 | 012 | 019 | 026 | 9.95 639 | 837 | 636 | 654 | 633 | 0.04 361 | 365 | 354 | 366 | 387 | * 601 | 994 | 950 | 981 | 974 | 56 | 44 |
| 16 | 4 | 9.63 626 | 032 | 039 | 046 | 052 | 633 | 831 | 630 | 528 | 627 | 367 | 350 | 676 | 379 | 373 | 0.36 974 | 988 | 961 | 054 | 046 | 52 | 43 |
| 17 | 6 | 652 | 059 | 086 | 679 | 979 | 627 | 695 | 624 | 699 | 621 | 673 | 375 | 376 | 370 | 379 | 948 | 941 | 034 | 928 | 921 | 48 | 42 |
| 16 | 19 | 079 | 088 | 093 | 009 | 106 | 621 | 619 | 618 | 818 | 515 | 579 | 361 | 352 | 394 | 305 | 921 | 914 | 907 | 981 | 094 | 44 | 41 |
| 19 | 16 | 166 | 113 | 110 | 196 | 133 | 615 | 613 | 619 | 616 | 609 | 385 | 387 | 398 | 390 | 391 | 694 | 807 | 001 | 574 | 657 | 18. 40 | 40 |
| 95 | 41. 28 | 9.63 133 | 139 | 148 | 153 | 159 | 9.95 600 | 607 | 606 | 804 | 503 | 5.94 321 | 393 | 394 | 398 | 397 | 6.56 887 | 861 | 854 | 847 | 841 | 35 | 69 |
| 21 | 94 | 159 | 188 | 173 | 179 | 196 | 683 | 601 | 608 | 598 | 597 | 597 | 399 | 400 | 409 | 403 | 641 | 034 | 827 | 021 | 814 | 62 | 65 |
| 92 | 20 | 186 | 193 | 199 | 906 | 213 | 507 | 595 | 594 | 592 | 591 | 403 | 405 | 486 | 480 | 409 | 614 | 887 | 601 | 794 | 787 | 25 | 67 |
| 23 | 62 | 213 | 219 | 926 | 233 | 239 | 691 | 589 | 588 | 586 | 585 | 409 | 411 | 412 | 414 | 415 | 707 | 781 | 774 | 767 | 761 | 24 | 66 |
| 94 | 66 | 239 | 246 | 252 | 259 | 266 | 585 | 883 | 589 | 580 | 579 | 415 | 417 | 416 | 420 | 421 | 761 | 784 | 748 | 741 | 734 | 10. 20 | 66 |
| 25 | 41. 40 | 9.66 966 | 279 | 979 | 206 | 292 | 9.95 679 | 577 | 576 | 574 | 573 | 8.64 491 | 423 | 424 | 426 | 427 | 0.36 734 | 728 | 721 | 714 | 708 | 18 | 34 |
| 26 | 41 | 292 | 299 | 306 | 312 | 319 | 673 | 571 | 570 | 568 | 567 | 427 | 429 | 430 | 432 | 133 | 708 | 701 | 894 | 888 | 601 | 19 | 33 |
| 27 | 48 | 619 | 326 | 332 | 539 | 345 | 567 | 565 | 564 | 562 | 661 | 433 | 435 | 436 | 438 | 439 | 681 | 674 | 668 | 661 | 655 | 9 | 32 |
| 26 | 62 | 345 | 369 | 359 | 365 | 572 | 561 | 559 | 856 | 856 | 555 | 439 | 441 | 442 | 444 | 445 | 655 | 648 | 641 | 635 | 690 | 4 | 61 |
| 29 | 58 | 672 | 379 | 395 | 392 | 309 | 655 | 553 | 552 | 550 | 549 | 445 | 447 | 448 | 456 | 451 | 620 | 621 | 515 | 505 | 602 | 18. 6 | 66 |
| 30 | 42. 0 | 9.66 595 | 405 | 412 | 418 | 425 | 9.95 549 | 547 | 546 | 544 | 545 | 6.64 451 | 453 | 454 | 456 | 457 | 0.36 602 | 595 | 588 | 582 | 576 | 56 | 29 |
| 31 | 4 | 425 | 432 | 436 | 445 | 451 | 545 | 541 | 540 | 538 | 537 | 457 | 459 | 460 | 482 | 483 | 575 | 556 | 569 | 555 | 549 | 52 | 26 |
| 32 | 6 | 451 | 488 | 465 | 471 | 478 | 537 | 535 | 534 | 532 | 531 | 483 | 465 | 458 | 456 | 489 | 549 | 542 | 535 | 599 | 522 | 48 | 27 |
| 36 | 19 | 478 | 484 | 491 | 490 | 604 | 531 | 529 | 528 | 526 | 595 | 460 | 471 | 472 | 474 | 475 | 622 | 516 | 569 | 569 | 406 | 44 | 26 |
| 34 | 18 | 504 | 511 | 517 | 524 | 531 | 625 | 593 | 529 | 528 | 519 | 475 | 477 | 478 | 486 | 401 | 498 | 409 | 483 | 476 | 469 | 17. 40 | 25 |
| 35 | 42. 28 | 9.63 531 | 537 | 544 | 550 | 557 | 9.96 619 | 517 | 816 | 814 | 513 | 6.04 481 | 483 | 464 | 486 | 487 | 0.36 469 | 463 | 456 | 450 | 443 | 66 | 24 |
| 36 | 24 | 557 | 584 | 570 | 877 | 563 | 613 | 511 | 510 | 500 | 507 | 487 | 489 | 490 | 492 | 493 | 443 | 436 | 430 | 423 | 417 | 62 | 96 |
| 67 | 26 | 583 | 596 | 597 | 603 | 618 | 607 | 505 | 564 | 509 | 500 | 493 | 495 | 406 | 498 | 580 | 417 | 419 | 493 | 397 | 398 | 28 | 29 |
| 30 | 32 | 618 | 816 | 823 | 620 | 836 | 500 | 499 | 497 | 406 | 494 | 600 | 501 | 503 | 504 | 586 | 528 | 384 | 377 | 371 | 384 | 24 | 91 |
| 69 | 36 | 636 | 843 | 649 | 656 | 682 | 494 | 493 | 491 | 498 | 486 | 606 | 507 | 609 | 610 | 512 | 664 | 357 | 351 | 344 | 338 | 17. 20 | 20 |
| 48 | 42. 40 | 9.63 669 | 669 | 675 | 582 | 809 | 9.96 490 | 407 | 485 | 484 | 482 | 6.04 512 | 513 | 515 | 516 | 516 | 6.56 538 | 331 | 325 | 318 | 311 | 16 | 19 |
| 41 | 44 | 689 | 695 | 792 | 708 | 715 | 482 | 461 | 470 | 478 | 476 | 518 | 819 | 591 | 622 | 594 | 511 | 305 | 290 | 292 | 286 | 12 | 10 |
| 42 | 48 | 715 | 721 | 726 | 735 | 741 | 476 | 475 | 473 | 479 | 470 | 524 | 525 | 527 | 626 | 530 | 285 | 279 | 272 | 965 | 959 | 8 | 17 |
| 46 | 52 | 741 | 748 | 754 | 761 | 767 | 470 | 469 | 467 | 466 | 461 | 538 | 531 | 533 | 534 | 538 | 250 | 259 | 246 | 239 | 933 | 4 | 16 |
| 44 | 66 | 767 | 774 | 760 | 707 | 704 | 464 | 463 | 461 | 459 | 456 | 535 | 837 | 539 | 541 | 542 | 933 | 226 | 220 | 216 | 206 | 17. 0 | 15 |
| 45 | 43. 0 | 9.63 794 | 800 | 867 | 815 | 890 | 6.95 458 | 455 | 455 | 453 | 452 | 5.04 542 | 544 | 545 | 547 | 548 | 6.36 206 | 280 | 193 | 187 | 180 | 56 | 14 |
| 46 | 4 | 690 | 828 | 833 | 039 | 046 | 462 | 458 | 449 | 447 | 448 | 548 | 550 | 551 | 553 | 554 | 180 | 174 | 187 | 181 | 154 | 52 | 13 |
| 47 | 6 | 646 | 859 | 859 | 665 | 879 | 446 | 444 | 443 | 441 | 440 | 554 | 556 | 557 | 659 | 560 | 154 | 148 | 141 | 135 | 128 | 48 | 12 |
| 46 | 12 | 972 | 879 | 605 | 692 | 898 | 440 | 438 | 437 | 435 | 434 | 666 | 569 | 563 | 565 | 566 | 128 | 191 | 115 | 106 | 102 | 44 | 11 |
| 49 | 16 | 690 | 906 | 911 | 919 | 924 | 434 | 432 | 430 | 499 | 427 | 566 | 559 | 570 | 571 | 573 | 102 | 005 | 989 | 002 | 876 | 16. 40 | 15 |
| 59 | 43. 90 | 9.63 924 | 931 | 937 | 944 | 950 | 9.96 427 | 428 | 424 | 423 | 421 | 0.04 573 | 574 | 576 | 577 | 579 | 6.66 078 | 069 | 053 | 056 | 050 | 36 | 6 |
| 51 | 24 | 950 | 957 | 963 | 970 | 976 | 491 | 420 | 418 | 417 | 415 | 579 | 506 | 582 | 583 | 585 | 650 | 843 | 037 | 030 | 024 | 32 | 6 |
| 62 | 28 | * 978 | 985 | 989 | 998 | 002 | 415 | 414 | 412 | 411 | 469 | 565 | 586 | 590 | 589 | 591 | * 024 | 017 | 011 | 084 | 908 | 28 | 7 |
| 63 | 62 | 9.64 002 | 009 | 015 | 029 | 098 | 400 | 400 | 466 | 484 | 403 | 591 | 592 | 594 | 596 | 597 | 0.35 998 | 991 | 985 | 978 | 972 | 94 | 6 |
| 54 | 36 | 698 | 035 | 041 | 040 | 054 | 403 | 401 | 460 | 390 | 397 | 697 | 599 | 890 | 602 | 603 | 979 | 968 | 959 | 952 | 948 | 16. 20 | 5 |
| 55 | 43. 40 | 9.64 654 | 061 | 067 | 074 | 080 | 6.96 697 | 395 | 394 | 392 | 391 | 9.04 803 | 605 | 508 | 800 | 609 | 6.35 948 | 939 | 933 | 925 | 925 | 16 | 4 |
| 66 | 44 | 608 | 807 | 893 | 109 | 166 | 391 | 389 | 388 | 385 | 384 | 699 | 811 | 812 | 614 | 616 | 920 | 913 | 987 | 900 | 694 | 19 | 3 |
| 57 | 46 | 106 | 113 | 119 | 126 | 132 | 564 | 363 | 301 | 380 | 378 | 518 | 617 | 619 | 698 | 622 | 894 | 887 | 051 | 874 | 888 | 0 | 2 |
| 58 | 69 | 132 | 139 | 148 | 152 | 163 | 678 | 377 | 375 | 374 | 372 | 692 | 623 | 825 | 626 | 628 | 968 | 861 | 855 | 048 | 842 | 4 | 1 |
| 59 | 56 | 158 | 165 | 171 | 178 | 104 | 679 | 371 | 369 | 368 | 366 | 628 | 829 | 631 | 632 | 634 | 842 | 835 | 029 | 922 | 616 | 16. 0 | 6 |
| | | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 154° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 64° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 25° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 50" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | | |
| 8 | 40. 0 | 8.67 067 | 082 | 096 | 110 | 124 | 9.46 043 | 038 | 033 | 028 | 023 | 9.97 216 | 816 | 215 | 914 | 913 | 9.85 206 | 208 | 210 | 212 | 214 | 66 | 59 |
| 1 | 4 | 124 | 139 | 153 | 167 | 101 | 023 | 018 | 514 | 002 | 004 | 913 | 813 | 912 | 211 | 911 | 214 | 216 | 218 | 220 | 222 | 52 | 58 |
| 2 | 8 | 181 | 125 | 209 | 224 | 238 | * 004 | 922 | 994 | 902 | 984 | 911 | 810 | 209 | 909 | 208 | 222 | 224 | 225 | 220 | 230 | 48 | 57 |
| 3 | 12 | 238 | 252 | 267 | 281 | 225 | 2.46 984 | 979 | 974 | 969 | 964 | 908 | 207 | 806 | 906 | 205 | 230 | 232 | 234 | 236 | 230 | 44 | 56 |
| 4 | 16 | 295 | 309 | 323 | 338 | 352 | 964 | 259 | 934 | 949 | 244 | 905 | 304 | 904 | 963 | 902 | 238 | 240 | 242 | 244 | 246 | 19.40 | 55 |
| 5 | 45. 20 | 8.67 352 | 366 | 380 | 324 | 409 | 2.45 944 | 239 | 934 | 929 | 224 | 9.27 902 | 202 | 901 | 200 | 829 | 6.85 246 | 248 | 250 | 202 | 254 | 36 | 64 |
| 6 | 24 | 409 | 423 | 437 | 451 | 455 | 924 | 912 | 214 | 902 | 204 | 692 | 099 | 898 | 897 | 097 | 254 | 256 | 250 | 260 | 262 | 32 | 63 |
| 7 | 28 | 465 | 472 | 494 | 508 | 522 | 984 | 899 | 894 | 889 | 084 | 897 | 096 | 895 | 895 | 894 | 262 | 264 | 266 | 268 | 270 | 28 | 62 |
| 8 | 32 | 522 | 535 | 550 | 564 | 579 | 884 | 872 | 875 | 870 | 865 | 894 | 893 | 822 | 892 | 091 | 270 | 272 | 274 | 276 | 278 | 24 | 51 |
| 9 | 36 | 579 | 593 | 607 | 621 | 635 | 865 | 860 | 855 | 050 | 843 | 821 | 890 | 890 | 882 | 088 | 278 | 280 | 282 | 284 | 286 | 19.20 | 50 |
| 10 | 10. 40 | 5.67 635 | 642 | 664 | 678 | 692 | 6.45 845 | 840 | 835 | 830 | 825 | 9.97 588 | 887 | 887 | 886 | 883 | 9.55 286 | 288 | 220 | 292 | 224 | 16 | 49 |
| 11 | 44 | 692 | 706 | 720 | 734 | 748 | 825 | 820 | 810 | 810 | 805 | 885 | 885 | 884 | 883 | 083 | 294 | 295 | 228 | 308 | 302 | 12 | 48 |
| 12 | 48 | 748 | 762 | 777 | 791 | 805 | 805 | 800 | 795 | 790 | 785 | 883 | 882 | 801 | 880 | 850 | 302 | 304 | 306 | 308 | 310 | 8 | 47 |
| 13 | 62 | 805 | 812 | 833 | 847 | 861 | 785 | 780 | 776 | 770 | 765 | 580 | 879 | 876 | 878 | 877 | 310 | 312 | 314 | 316 | 310 | 4 | 46 |
| 14 | 55 | 861 | 875 | 820 | 904 | 218 | 765 | 760 | 755 | 750 | 745 | 877 | 876 | 876 | 675 | 874 | 310 | 320 | 322 | 324 | 326 | 19. 0 | 45 |
| 15 | 41. 0 | 8.67 918 | 932 | 946 | 960 | 274 | 9.45 745 | 740 | 735 | 730 | 725 | 9.97 874 | 873 | 873 | 872 | 871 | 2.85 326 | 328 | 330 | 332 | 334 | 66 | 44 |
| 16 | 4 | * 974 | 988 | 002 | 016 | 030 | 725 | 720 | 715 | 710 | 705 | 871 | 871 | 870 | 659 | 068 | 334 | 336 | 338 | 340 | 342 | 62 | 43 |
| 17 | 8 | 8.68 030 | 045 | 059 | 073 | 087 | 705 | 700 | 625 | 690 | 605 | 868 | 868 | 867 | 866 | 366 | 342 | 344 | 346 | 348 | 350 | 48 | 42 |
| 18 | 12 | 087 | 101 | 115 | 129 | 143 | 605 | 500 | 575 | 670 | 665 | 855 | 865 | 864 | 063 | 863 | 350 | 352 | 354 | 356 | 350 | 44 | 41 |
| 19 | 16 | 143 | 157 | 171 | 185 | 122 | 665 | 660 | 655 | 650 | 645 | 863 | 862 | 061 | 861 | 860 | 358 | 360 | 362 | 364 | 366 | 18.40 | 40 |
| 20 | 41. 20 | 8.68 199 | 213 | 227 | 241 | 255 | 9.45 645 | 540 | 635 | 630 | 625 | 9.97 850 | 859 | 858 | 858 | 857 | 9.85 366 | 368 | 370 | 372 | 374 | 36 | 39 |
| 21 | 24 | 255 | 269 | 284 | 298 | 312 | 525 | 620 | 615 | 610 | 605 | 857 | 856 | 856 | 855 | 854 | 374 | 376 | 378 | 380 | 302 | 32 | 38 |
| 22 | 28 | 312 | 326 | 340 | 354 | 368 | 605 | 600 | 595 | 590 | 586 | 854 | 854 | 853 | 852 | 851 | 382 | 384 | 386 | 388 | 390 | 28 | 37 |
| 23 | 32 | 368 | 302 | 396 | 410 | 424 | 586 | 581 | 576 | 571 | 566 | 051 | 851 | 850 | 849 | 849 | 320 | 392 | 394 | 396 | 398 | 24 | 36 |
| 24 | 36 | 424 | 438 | 452 | 466 | 480 | 666 | 561 | 556 | 551 | 546 | 849 | 848 | 547 | 846 | 845 | 320 | 400 | 402 | 404 | 406 | 18.20 | 35 |
| 25 | 41. 40 | 8.68 480 | 424 | 608 | 522 | 535 | 9.45 546 | 541 | 635 | 531 | 526 | 9.97 846 | 845 | 844 | 044 | 043 | 6.85 406 | 408 | 410 | 412 | 414 | 16 | 34 |
| 26 | 44 | 636 | 550 | 564 | 578 | 522 | 526 | 521 | 516 | 511 | 506 | 843 | 842 | 841 | 041 | 840 | 414 | 416 | 410 | 420 | 422 | 12 | 33 |
| 27 | 48 | 692 | 606 | 620 | 634 | 648 | 606 | 501 | 426 | 491 | 486 | 840 | 839 | 832 | 830 | 837 | 422 | 424 | 426 | 420 | 430 | 8 | 32 |
| 28 | 52 | 648 | 662 | 676 | 690 | 704 | 486 | 401 | 476 | 471 | 466 | 837 | 836 | 036 | 835 | 834 | 430 | 432 | 434 | 436 | 438 | 4 | 31 |
| 22 | 56 | 704 | 718 | 732 | 745 | 752 | 466 | 461 | 456 | 451 | 446 | 834 | 834 | 033 | 832 | 031 | 430 | 440 | 442 | 444 | 446 | 16. 0 | 30 |
| 30 | 42. 5 | 8.68 752 | 773 | 787 | 801 | 815 | 9.45 446 | 441 | 436 | 431 | 425 | 9.97 831 | 831 | 830 | 022 | 822 | 9.85 446 | 448 | 450 | 452 | 454 | 66 | 29 |
| 31 | 4 | 815 | 829 | 843 | 857 | 871 | 425 | 420 | 415 | 410 | 405 | 822 | 028 | 827 | 826 | 826 | 454 | 456 | 458 | 460 | 462 | 62 | 28 |
| 32 | 8 | 871 | 885 | 829 | 913 | 927 | 405 | 400 | 395 | 390 | 385 | 826 | 825 | 824 | 824 | 823 | 462 | 464 | 466 | 460 | 470 | 48 | 27 |
| 33 | 12 | 927 | 941 | 955 | 969 | 282 | 385 | 380 | 375 | 370 | 365 | 823 | 822 | 821 | 821 | 020 | 470 | 472 | 474 | 476 | 478 | 44 | 26 |
| 34 | 16 | * 982 | 926 | 010 | 024 | 038 | 355 | 360 | 355 | 360 | 345 | 820 | 812 | 019 | 810 | 817 | 478 | 480 | 402 | 484 | 486 | 17.40 | 25 |
| 35 | 42. 20 | 8.69 038 | 052 | 066 | 080 | 094 | 9.46 345 | 340 | 335 | 330 | 325 | 9.97 817 | 816 | 816 | 815 | 814 | 2.85 486 | 488 | 490 | 492 | 494 | 36 | 24 |
| 36 | 24 | 094 | 108 | 122 | 135 | 149 | 325 | 320 | 315 | 310 | 305 | 814 | 814 | 813 | 812 | 011 | 484 | 496 | 428 | 500 | 502 | 32 | 23 |
| 37 | 28 | 149 | 163 | 177 | 191 | 205 | 305 | 300 | 295 | 220 | 205 | 811 | 811 | 810 | 809 | 800 | 502 | 604 | 606 | 508 | 510 | 28 | 22 |
| 30 | 32 | 205 | 219 | 233 | 247 | 260 | 285 | 280 | 275 | 270 | 265 | 800 | 888 | 807 | 806 | 866 | 610 | 512 | 514 | 516 | 518 | 24 | 21 |
| 39 | 36 | 260 | 274 | 288 | 302 | 316 | 265 | 260 | 255 | 250 | 245 | 806 | 805 | 804 | 803 | 803 | 518 | 520 | 522 | 524 | 526 | 17.20 | 20 |
| 40 | 42. 40 | 8.62 316 | 330 | 344 | 357 | 371 | 9.45 245 | 240 | 235 | 230 | 225 | 9.97 803 | 802 | 801 | 001 | 800 | 2.85 026 | 628 | 530 | 532 | 534 | 16 | 19 |
| 41 | 44 | 371 | 385 | 392 | 413 | 427 | 225 | 220 | 215 | 210 | 205 | 800 | 729 | 728 | 728 | 797 | 534 | 636 | 538 | 540 | 542 | 12 | 18 |
| 42 | 48 | 427 | 441 | 454 | 468 | 482 | 205 | 200 | 195 | 120 | 185 | 797 | 796 | 796 | 725 | 794 | 642 | 544 | 546 | 548 | 650 | 8 | 17 |
| 43 | 52 | 482 | 496 | 510 | 524 | 537 | 185 | 180 | 176 | 170 | 165 | 794 | 793 | 793 | 722 | 721 | 550 | 552 | 553 | 555 | 557 | 4 | 16 |
| 44 | 56 | 537 | 551 | 565 | 572 | 523 | 165 | 160 | 155 | 149 | 144 | 791 | 790 | 790 | 789 | 788 | 657 | 552 | 561 | 563 | 565 | 17. 0 | 15 |
| 45 | 43. 0 | 8.62 593 | 507 | 620 | 534 | 648 | 9.43 144 | 139 | 134 | 122 | 124 | 9.97 788 | 788 | 787 | 786 | 785 | 0.85 565 | 557 | 562 | 571 | 573 | 56 | 14 |
| 46 | 4 | 648 | 662 | 676 | 689 | 703 | 124 | 119 | 114 | 102 | 104 | 785 | 785 | 784 | 783 | 783 | 573 | 575 | 577 | 579 | 501 | 02 | 13 |
| 47 | 8 | 703 | 717 | 731 | 745 | 758 | 104 | 029 | 094 | 089 | 084 | 783 | 782 | 701 | 780 | 780 | 081 | 583 | 585 | 587 | 589 | 48 | 12 |
| 48 | 12 | 758 | 772 | 786 | 800 | 813 | 084 | 079 | 074 | 069 | 064 | 780 | 772 | 770 | 777 | 777 | 589 | 591 | 593 | 595 | 527 | 44 | 11 |
| 49 | 16 | 813 | 827 | 841 | 855 | 869 | 064 | 059 | 054 | 049 | 044 | 777 | 776 | 775 | 775 | 774 | 597 | 592 | 601 | 603 | 605 | 16.40 | 10 |
| 50 | 43. 20 | 0.62 869 | 882 | 895 | 210 | 924 | 9.43 044 | 039 | 034 | 029 | 024 | 9.97 774 | 773 | 772 | 772 | 771 | 9.85 505 | 607 | 509 | 611 | 513 | 36 | 9 |
| 51 | 24 | 224 | 937 | 951 | 965 | 979 | 024 | 019 | 014 | 008 | 003 | 771 | 770 | 769 | 759 | 768 | 613 | 615 | 617 | 619 | 621 | 32 | 8 |
| 62 | 28 | * 979 | 222 | 006 | 020 | 034 | * 003 | 928 | 293 | 288 | 283 | 768 | 767 | 767 | 766 | 765 | 621 | 623 | 625 | 627 | 629 | 28 | 7 |
| 53 | 32 | 8.70 034 | 047 | 061 | 075 | 089 | 9.44 983 | 978 | 973 | 268 | 963 | 765 | 764 | 764 | 763 | 762 | 629 | 631 | 533 | 635 | 637 | 24 | 6 |
| 54 | 36 | 089 | 102 | 116 | 130 | 144 | 963 | 958 | 053 | 248 | 943 | 762 | 762 | 761 | 760 | 752 | 637 | 632 | 641 | 643 | 645 | 16.20 | 5 |
| 55 | 43. 40 | 8.70 144 | 157 | 171 | 185 | 198 | 9.44 943 | 938 | 933 | 928 | 923 | 9.97 759 | 759 | 758 | 757 | 756 | 9.85 645 | 647 | 649 | 651 | 552 | 16 | 4 |
| 56 | 44 | 190 | 212 | 226 | 240 | 253 | 923 | 918 | 913 | 908 | 903 | 756 | 756 | 755 | 754 | 754 | 652 | 654 | 656 | 658 | 660 | 12 | 3 |
| 57 | 48 | 253 | 267 | 281 | 224 | 308 | 903 | 898 | 892 | 887 | 802 | 764 | 753 | 752 | 761 | 751 | 660 | 662 | 664 | 666 | 668 | 8 | 2 |
| 58 | 52 | 308 | 322 | 335 | 349 | 365 | 882 | 877 | 872 | 867 | 862 | 751 | 750 | 749 | 748 | 748 | 668 | 670 | 672 | 674 | 676 | 4 | 1 |
| 52 | 56 | 363 | 377 | 390 | 404 | 418 | 862 | 807 | 852 | 847 | 842 | 748 | 747 | 746 | 746 | 745 | 676 | 678 | 685 | 682 | 684 | 16. 0 | 0 |
| | | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 5" | 4s 60" | 3s 45" | 2s 35" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 154° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 64° |

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TABLA XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 26° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 116° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 8" 9° | 15" 1° | 30" 2° | 40" 3° | 60" 4° | 0" 0° | 10" 1° | 30" 2° | 45" 3° | 00" 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 00" 4° | | |
| 0 | 44. 0 | 9.64 184 | 191 | 107 | 204 | 210 | 9.95 366 | 364 | 363 | 301 | 360 | 0.94 034 | 036 | 637 | 639 | 640 | 9.35 810 | 009 | 893 | 790 | 799 | 00 | 59 |
| 1 | 4 | 210 | 217 | 223 | 229 | 236 | 360 | 358 | 357 | 355 | 354 | 040 | 542 | 643 | 645 | 946 | 790 | 783 | 777 | 771 | 764 | 02 | 58 |
| 2 | 8 | 236 | 242 | 249 | 255 | 262 | 354 | 352 | 351 | 349 | 348 | 946 | 648 | 649 | 651 | 952 | 764 | 758 | 701 | 745 | 738 | 48 | 57 |
| 3 | 12 | 262 | 268 | 275 | 281 | 288 | 348 | 346 | 344 | 343 | 341 | 952 | 654 | 656 | 657 | 059 | 738 | 732 | 725 | 719 | 712 | 44 | 56 |
| 4 | 16 | 288 | 294 | 301 | 307 | 313 | 341 | 340 | 338 | 337 | 335 | 659 | 660 | 662 | 663 | 695 | 712 | 700 | 999 | 693 | 687 | 19. 40 | 55 |
| 5 | 44. 20 | 0.94 313 | 320 | 326 | 333 | 339 | 9.95 335 | 334 | 332 | 331 | 329 | 9.04 965 | 666 | 668 | 669 | 671 | 0.35 687 | 680 | 674 | 667 | 661 | 36 | 54 |
| 6 | 24 | 339 | 346 | 352 | 359 | 365 | 329 | 327 | 326 | 324 | 323 | 971 | 673 | 674 | 976 | 677 | 661 | 954 | 048 | 041 | 635 | 32 | 53 |
| 7 | 28 | 365 | 371 | 378 | 384 | 391 | 323 | 321 | 320 | 318 | 317 | 677 | 879 | 680 | 682 | 883 | 635 | 529 | 622 | 618 | 602 | 29 | 52 |
| 8 | 32 | 391 | 397 | 404 | 410 | 417 | 317 | 315 | 313 | 312 | 310 | 683 | 685 | 687 | 888 | 690 | 609 | 603 | 596 | 590 | 583 | 24 | 51 |
| 9 | 36 | 417 | 123 | 429 | 436 | 442 | 310 | 309 | 307 | 306 | 304 | 090 | 691 | 693 | 894 | 696 | 983 | 577 | 571 | 564 | 550 | 19. 29 | 50 |
| 10 | 44. 40 | 9.64 442 | 149 | 455 | 462 | 468 | 9.95 304 | 303 | 301 | 300 | 298 | 5.04 696 | 697 | 692 | 700 | 702 | 9.39 558 | 551 | 545 | 538 | 532 | 18 | 49 |
| 11 | 44 | 468 | 474 | 481 | 487 | 494 | 298 | 296 | 295 | 293 | 292 | 702 | 704 | 705 | 707 | 708 | 532 | 525 | 519 | 513 | 500 | 12 | 48 |
| 12 | 48 | 421 | 500 | 506 | 513 | 519 | 292 | 290 | 289 | 287 | 286 | 705 | 710 | 711 | 713 | 714 | 909 | 000 | 494 | 487 | 481 | 8 | 47 |
| 13 | 52 | 519 | 526 | 532 | 539 | 545 | 286 | 284 | 282 | 281 | 279 | 714 | 716 | 718 | 719 | 721 | 481 | 474 | 468 | 461 | 455 | 4 | 40 |
| 14 | 56 | 545 | 551 | 558 | 564 | 571 | 279 | 278 | 270 | 275 | 273 | 721 | 722 | 724 | 725 | 727 | 455 | 449 | 442 | 435 | 429 | 15. 9 | 40 |
| 15 | 45. 0 | 9.64 571 | 577 | 583 | 590 | 596 | 9.95 273 | 272 | 270 | 268 | 267 | 5.04 727 | 728 | 730 | 732 | 733 | 8.35 429 | 423 | 417 | 410 | 404 | 55 | 44 |
| 16 | 4 | 596 | 683 | 699 | 615 | 622 | 267 | 265 | 264 | 262 | 261 | 733 | 735 | 736 | 738 | 739 | 404 | 397 | 391 | 385 | 378 | 52 | 43 |
| 17 | 8 | 622 | 828 | 635 | 641 | 647 | 281 | 259 | 257 | 256 | 254 | 739 | 741 | 743 | 744 | 746 | 378 | 372 | 360 | 359 | 353 | 45 | 42 |
| 18 | 12 | 647 | 654 | 680 | 687 | 873 | 254 | 253 | 251 | 250 | 248 | 746 | 747 | 749 | 750 | 752 | 353 | 346 | 340 | 333 | 327 | 44 | 41 |
| 19 | 16 | 873 | 879 | 686 | 892 | 698 | 248 | 247 | 245 | 243 | 242 | 752 | 753 | 705 | 757 | 758 | 327 | 321 | 314 | 308 | 302 | 14. 40 | 45 |
| 20 | 45. 20 | 9.64 698 | 705 | 711 | 718 | 724 | 9.95 242 | 240 | 239 | 237 | 236 | 0.04 758 | 760 | 761 | 763 | 764 | 9.35 302 | 295 | 289 | 282 | 278 | 36 | 39 |
| 21 | 24 | 724 | 730 | 737 | 743 | 749 | 236 | 234 | 232 | 231 | 229 | 764 | 766 | 768 | 769 | 771 | 276 | 270 | 263 | 257 | 251 | 32 | 38 |
| 22 | 28 | 749 | 756 | 762 | 789 | 775 | 229 | 228 | 226 | 225 | 223 | 771 | 772 | 774 | 775 | 777 | 251 | 244 | 238 | 231 | 225 | 28 | 37 |
| 23 | 32 | 775 | 781 | 788 | 794 | 800 | 223 | 222 | 220 | 218 | 217 | 777 | 778 | 780 | 782 | 783 | 225 | 219 | 212 | 296 | 280 | 24 | 36 |
| 24 | 36 | 800 | 807 | 813 | 819 | 826 | 217 | 210 | 214 | 212 | 211 | 783 | 785 | 786 | 788 | 789 | 200 | 123 | 187 | 181 | 174 | 14. 20 | 35 |
| 25 | 45. 40 | 9.64 826 | 832 | 832 | 845 | 851 | 9.95 211 | 209 | 207 | 206 | 204 | 8.04 789 | 791 | 793 | 794 | 796 | 0.35 174 | 188 | 161 | 155 | 149 | 15 | 34 |
| 26 | 44 | 951 | 858 | 864 | 870 | 877 | 204 | 203 | 201 | 200 | 198 | 796 | 797 | 799 | 800 | 802 | 149 | 142 | 138 | 138 | 123 | 12 | 33 |
| 27 | 48 | 577 | 883 | 889 | 896 | 902 | 198 | 196 | 195 | 193 | 192 | 802 | 804 | 805 | 807 | 808 | 123 | 117 | 111 | 194 | 098 | 8 | 32 |
| 28 | 52 | 902 | 908 | 915 | 921 | 927 | 192 | 190 | 189 | 187 | 185 | 808 | 810 | 811 | 813 | 815 | 598 | 092 | 985 | 079 | 073 | 4 | 31 |
| 29 | 56 | 927 | 934 | 940 | 948 | 953 | 185 | 104 | 182 | 181 | 179 | 815 | 810 | 818 | 819 | 821 | 573 | 090 | 060 | 854 | 047 | 14. 9 | 30 |
| 30 | 46. 0 | 9.64 953 | 959 | 965 | 972 | 978 | 9.95 179 | 178 | 176 | 174 | 173 | 8.04 821 | 821 | 824 | 826 | 827 | 5.35 047 | 041 | 035 | 028 | 022 | 59 | 29 |
| 31 | 4 | * 978 | 984 | 991 | 997 | 003 | 173 | 171 | 170 | 168 | 167 | 827 | 829 | 830 | 832 | 833 | * 022 | 019 | 009 | 003 | 997 | 52 | 28 |
| 32 | 8 | 9.65 993 | 010 | 016 | 022 | 029 | 167 | 165 | 163 | 162 | 160 | 533 | 835 | 837 | 838 | 840 | 0.34 997 | 090 | 284 | 978 | 971 | 48 | 27 |
| 33 | 12 | 929 | 035 | 041 | 018 | 054 | 160 | 152 | 157 | 155 | 154 | 840 | 841 | 843 | 845 | 846 | 271 | 965 | 959 | 952 | 946 | 44 | 26 |
| 34 | 16 | 054 | 060 | 067 | 973 | 079 | 154 | 152 | 151 | 149 | 148 | 846 | 818 | 849 | 851 | 852 | 946 | 949 | 933 | 927 | 921 | 13. 45 | 25 |
| 35 | 46. 20 | 9.63 079 | 086 | 092 | 098 | 104 | 9.95 148 | 146 | 144 | 143 | 141 | 0.04 852 | 854 | 856 | 857 | 859 | 9.34 221 | 914 | 288 | 002 | 896 | 30 | 24 |
| 36 | 24 | 104 | 111 | 117 | 123 | 130 | 141 | 140 | 138 | 137 | 135 | 859 | 860 | 862 | 863 | 865 | 096 | 889 | 883 | 877 | 870 | 32 | 23 |
| 37 | 28 | 130 | 136 | 142 | 149 | 155 | 135 | 133 | 132 | 130 | 129 | 865 | 867 | 888 | 870 | 871 | 870 | 864 | 858 | 851 | 845 | 28 | 22 |
| 38 | 32 | 155 | 161 | 167 | 174 | 180 | 129 | 127 | 125 | 124 | 122 | 871 | 873 | 875 | 878 | 578 | 845 | 832 | 833 | 820 | 820 | 24 | 21 |
| 39 | 36 | 180 | 186 | 193 | 199 | 205 | 122 | 121 | 119 | 117 | 116 | 878 | 879 | 881 | 883 | 884 | 820 | 814 | 807 | 881 | 795 | 13. 20 | 29 |
| 40 | 46. 40 | 9.65 205 | 211 | 216 | 224 | 230 | 9.95 116 | 114 | 113 | 111 | 110 | 0.84 884 | 886 | 887 | 889 | 890 | 0.34 795 | 789 | 782 | 779 | 770 | 16 | 19 |
| 41 | 44 | 230 | 237 | 243 | 249 | 255 | 110 | 108 | 106 | 105 | 103 | 890 | 892 | 894 | 895 | 897 | 770 | 783 | 757 | 751 | 745 | 12 | 18 |
| 42 | 48 | 255 | 262 | 288 | 274 | 281 | 103 | 102 | 100 | 098 | 097 | 897 | 898 | 000 | 901 | 903 | 745 | 738 | 732 | 726 | 719 | 8 | 17 |
| 43 | 52 | 281 | 287 | 293 | 299 | 306 | 997 | 095 | 094 | 092 | 090 | 993 | 905 | 906 | 908 | 910 | 719 | 713 | 707 | 701 | 894 | 4 | 19 |
| 44 | 56 | 306 | 312 | 318 | 324 | 331 | 590 | 089 | 087 | 086 | 084 | 910 | 911 | 913 | 914 | 916 | 694 | 688 | 682 | 676 | 669 | 13. 0 | 10 |
| 45 | 47. 0 | 9.65 331 | 337 | 343 | 350 | 356 | 2.95 084 | 083 | 981 | 079 | 078 | 0.04 916 | 917 | 919 | 921 | 922 | 9.34 569 | 663 | 657 | 650 | 844 | 56 | 14 |
| 46 | 4 | 356 | 362 | 368 | 375 | 381 | 878 | 079 | 075 | 073 | 071 | 922 | 924 | 925 | 927 | 929 | 944 | 838 | 632 | 625 | 619 | 02 | 13 |
| 47 | 8 | 381 | 387 | 323 | 400 | 406 | 571 | 070 | 068 | 007 | 085 | 929 | 930 | 932 | 933 | 935 | 619 | 613 | 607 | 600 | 594 | 48 | 12 |
| 48 | 12 | 406 | 412 | 418 | 425 | 431 | 865 | 003 | 062 | 090 | 059 | 935 | 937 | 938 | 949 | 941 | 994 | 588 | 582 | 575 | 569 | 44 | 11 |
| 49 | 19 | 431 | 437 | 443 | 450 | 456 | 859 | 057 | 055 | 054 | 052 | 941 | 943 | 045 | 949 | 948 | 569 | 563 | 557 | 650 | 544 | 12. 49 | 10 |
| 59 | 47. 20 | 9.65 458 | 462 | 488 | 475 | 481 | 9.95 852 | 051 | 049 | 047 | 046 | 0.04 948 | 949 | 951 | 953 | 254 | 5.34 544 | 538 | 532 | 025 | 519 | 38 | 9 |
| 91 | 24 | 481 | 487 | 493 | 500 | 506 | 848 | 044 | 043 | 041 | 032 | 954 | 950 | 957 | 959 | 961 | 919 | 513 | 507 | 580 | 494 | 32 | 8 |
| 92 | 28 | 596 | 512 | 519 | 524 | 531 | 039 | 038 | 036 | 535 | 033 | 981 | 962 | 964 | 965 | 267 | 494 | 488 | 482 | 476 | 469 | 25 | 7 |
| 53 | 32 | 531 | 537 | 543 | 549 | 556 | 033 | 031 | 035 | 928 | 027 | 967 | 969 | 970 | 972 | 273 | 489 | 463 | 457 | 451 | 444 | 21 | 9 |
| 54 | 36 | 556 | 582 | 568 | 574 | 580 | 027 | 020 | 023 | 022 | 020 | 973 | 975 | 977 | 975 | 280 | 444 | 138 | 432 | 426 | 420 | 12. 29 | 9 |
| 55 | 47. 40 | 9.99 580 | 587 | 593 | 599 | 605 | 9.95 020 | 019 | 017 | 015 | 014 | 5.04 980 | 981 | 983 | 985 | 986 | 0.34 420 | 413 | 407 | 401 | 395 | 18 | 4 |
| 50 | 44 | 605 | 912 | 618 | 624 | 630 | 914 | 012 | 011 | 009 | 007 | 996 | 988 | 989 | 991 | 993 | 395 | 388 | 382 | 379 | 370 | 12 | 3 |
| 57 | 48 | 630 | 636 | 843 | 649 | 055 | 507 | 096 | 004 | 003 | 001 | 993 | 994 | 998 | 997 | 299 | 370 | 364 | 357 | 351 | 345 | 8 | 2 |
| 58 | 52 | 655 | 501 | 667 | 974 | 680 | * 501 | 099 | 998 | 996 | 995 | * 999 | 001 | 802 | 004 | 905 | 345 | 339 | 333 | 326 | 320 | 4 | 1 |
| 99 | 56 | 680 | 686 | 692 | 698 | 705 | 9.94 995 | 093 | 991 | 290 | 988 | 0.99 905 | 807 | 809 | 019 | 912 | 320 | 314 | 398 | 302 | 295 | 12. 0 | 0 |
| | | 4° 60" | 3° 49" | 2° 30" | 1° 10" | 0° 8" | 4° 69" | 3° 49" | 2° 30' | 1° 15" | 9° 0" | 4° 90" | 3° 49" | 2° 30" | 1° 16" | 0° 5" | 4° 99" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 153° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 63° |

**Tabla XVI.** Logaritmos Versoo, Coversos, Subversos y Subcoversos.

| 26° / 115° | 1h / 7h | Verso / Coverso | | | | | Coverso / Subverso | | | | | Subverso / Subcoverso | | | | | Subcoverso / Verso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ | m s | 6″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 6″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 50″ 4° | 6″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 5″ 6° | 16″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 44. 6 | 8.70 418 | 431 | 445 | 459 | 472 | 9.44 842 | 837 | 832 | 827 | 822 | 9.97 743 | 744 | 743 | 743 | 742 | 2.85 584 | 686 | 688 | 690 | 692 | 36 | 69 |
| 1 | 4 | 472 | 466 | 508 | 513 | 527 | 822 | 817 | 812 | 867 | 001 | 742 | 741 | 740 | 746 | 739 | 692 | 624 | 696 | 698 | 780 | 52 | 36 |
| 2 | 8 | 527 | 541 | 554 | 566 | 582 | 861 | 796 | 791 | 786 | 781 | 739 | 736 | 737 | 737 | 736 | 788 | 702 | 784 | 766 | 708 | 48 | 67 |
| 3 | 12 | 582 | 596 | 689 | 623 | 636 | 781 | 776 | 771 | 766 | 761 | 736 | 735 | 735 | 734 | 733 | 788 | 716 | 712 | 714 | 716 | 44 | 66 |
| 4 | 16 | 636 | 630 | 663 | 677 | 691 | 761 | 756 | 731 | 746 | 741 | 733 | 732 | 732 | 731 | 730 | 716 | 718 | 728 | 722 | 724 | 16.40 | 56 |
| 5 | 44.20 | 8.76 691 | 704 | 718 | 732 | 745 | 9.44 741 | 735 | 731 | 726 | 721 | 9.97 730 | 729 | 729 | 728 | 727 | 9.86 724 | 726 | 727 | 729 | 731 | 36 | 54 |
| 5 | 24 | 745 | 759 | 773 | 786 | 800 | 721 | 715 | 718 | 765 | 700 | 727 | 727 | 726 | 725 | 724 | 731 | 733 | 735 | 737 | 739 | 32 | 53 |
| 7 | 28 | 800 | 613 | 627 | 641 | 864 | 768 | 695 | 690 | 685 | 680 | 724 | 724 | 723 | 722 | 721 | 739 | 741 | 743 | 745 | 747 | 26 | 52 |
| 5 | 32 | 851 | 868 | 881 | 895 | 909 | 680 | 675 | 676 | 655 | 560 | 721 | 721 | 728 | 719 | 718 | 747 | 749 | 751 | 753 | 763 | 24 | 61 |
| 9 | 36 | 909 | 922 | 936 | 249 | 963 | 660 | 653 | 650 | 644 | 639 | 718 | 718 | 717 | 716 | 716 | 755 | 757 | 752 | 761 | 763 | 16.28 | 58 |
| 18 | 44.40 | * 963 | 277 | 290 | 604 | 817 | 9.44 639 | 634 | 629 | 624 | 619 | 9.97 716 | 715 | 714 | 712 | 713 | 9.63 763 | 765 | 767 | 769 | 771 | 16 | 49 |
| 11 | 44 | 8.71 017 | 831 | 644 | 838 | 072 | 519 | 614 | 609 | 681 | 599 | 713 | 712 | 711 | 710 | 710 | 771 | 773 | 775 | 777 | 779 | 12 | 48 |
| 12 | 48 | 072 | 085 | 099 | 112 | 126 | 599 | 594 | 589 | 584 | 579 | 716 | 709 | 766 | 767 | 787 | 779 | 781 | 783 | 785 | 786 | 8 | 47 |
| 13 | 52 | 126 | 139 | 153 | 167 | 180 | 579 | 573 | 568 | 563 | 358 | 707 | 706 | 766 | 764 | 784 | 785 | 788 | 790 | 792 | 794 | 4 | 46 |
| 14 | 56 | 180 | 194 | 267 | 221 | 234 | 658 | 553 | 548 | 543 | 538 | 754 | 703 | 762 | 762 | 781 | .794 | 796 | 798 | 808 | 862 | 15. 0 | 45 |
| 15 | 45. 0 | 6.71 234 | 240 | 261 | 273 | 289 | 9.44 538 | 533 | 528 | 523 | 518 | 9.27 781 | 700 | 699 | 699 | 698 | 9.65 802 | 804 | 806 | 808 | 810 | 56 | 44 |
| 15 | 4 | 289 | 302 | 316 | 329 | 343 | 518 | 513 | 387 | 502 | 497 | 528 | 627 | 696 | 696 | 695 | 916 | 812 | 614 | 816 | 816 | 52 | 43 |
| 17 | 8 | 343 | 336 | 370 | 383 | 397 | 427 | 422 | 487 | 482 | 477 | 695 | 624 | 693 | 693 | 692 | 518 | 828 | 822 | 824 | 826 | 46 | 42 |
| 18 | 12 | 397 | 410 | 424 | 437 | 431 | 477 | 472 | 467 | 462 | 457 | 692 | 691 | 590 | 696 | 689 | 626 | 828 | 836 | 632 | 534 | 44 | 41 |
| 19 | 16 | 431 | 464 | 478 | 491 | 505 | 457 | 452 | 146 | 441 | 436 | 662 | 688 | 686 | 687 | 686 | 834 | 836 | 038 | 640 | 841 | 14.40 | 40 |
| 20 | 45.20 | 8.71 505 | 518 | 532 | 545 | 559 | 9.44 436 | 431 | 426 | 421 | 416 | 9.97 566 | 605 | 685 | 684 | 583 | 9.85 841 | 043 | 843 | 847 | 649 | 36 | 39 |
| 21 | 94 | 559 | 572 | 586 | 599 | 613 | 416 | 411 | 406 | 401 | 396 | 563 | 682 | 662 | 661 | 580 | 649 | 851 | 853 | 655 | 637 | 32 | 38 |
| 22 | 20 | 613 | 626 | 640 | 553 | 567 | 396 | 390 | 385 | 388 | 375 | 580 | 679 | 679 | 676 | 677 | 837 | 859 | 861 | 663 | 865 | 28 | 37 |
| 23 | 32 | 667 | 680 | 694 | 787 | 721 | 375 | 370 | 365 | 350 | 355 | 577 | 676 | 676 | 676 | 674 | 865 | 667 | 859 | 871 | 073 | 24 | 36 |
| 24 | 36 | 721 | 734 | 747 | 761 | 774 | 335 | 350 | 345 | 340 | 334 | 674 | 673 | 573 | 672 | 671 | 873 | 075 | 877 | 879 | 081 | 14.20 | 35 |
| 25 | 45.40 | 8.71 774 | 788 | 801 | 813 | 828 | 9.44 334 | 329 | 324 | 319 | 314 | 9.97 671 | 671 | 678 | 669 | 658 | 9.85 881 | 883 | 885 | 887 | 888 | 16 | 34 |
| 26 | 44 | 626 | 842 | 853 | 869 | 882 | 314 | 309 | 384 | 299 | 294 | 668 | 668 | 667 | 666 | 663 | 658 | 898 | 892 | 894 | 696 | 12 | 33 |
| 27 | 48 | 882 | 895 | 259 | 922 | 936 | 294 | 289 | 263 | 270 | 273 | 665 | 665 | 664 | 663 | 662 | 696 | 598 | 900 | 902 | 964 | 6 | 32 |
| 26 | 52 | 936 | 949 | 963 | 976 | 989 | 273 | 260 | 263 | 258 | 253 | 562 | 662 | 661 | 660 | 659 | 904 | 986 | 908 | 910 | 912 | 4 | 31 |
| 29 | 56 | • 969 | 603 | 616 | 838 | 643 | 233 | 246 | 243 | 238 | 232 | 552 | 639 | 658 | 657 | 656 | 912 | 914 | 916 | 918 | 920 | 14. 8 | 38 |
| 38 | 46. 0 | 8.72 643 | 056 | 576 | 653 | 097 | 9.44 232 | 227 | 222 | 217 | 212 | 9.97 656 | 656 | 655 | 654 | 553 | 9.85 926 | 922 | 924 | 926 | 928 | 56 | 29 |
| 31 | 4 | 697 | 116 | 123 | 137 | 156 | 212 | 207 | 202 | 127 | 192 | 653 | 653 | 632 | 651 | 650 | 928 | 938 | 931 | 933 | 935 | 52 | 28 |
| 32 | 6 | 156 | 164 | 177 | 190 | 204 | 192 | 186 | 161 | 176 | 171 | 556 | 650 | 649 | 648 | 647 | 933 | 937 | 939 | 941 | 943 | 48 | 27 |
| 33 | 12 | 204 | 217 | 231 | 244 | 257 | 171 | 166 | 161 | 156 | 131 | 647 | 647 | 646 | 645 | 644 | 943 | 945 | 947 | 949 | 951 | 44 | 26 |
| 34 | 15 | 257 | 271 | 284 | 298 | 311 | 151 | 146 | 141 | 135 | 138 | 644 | 644 | 543 | 642 | 542 | 931 | 953 | 955 | 957 | 959 | 13.40 | 25 |
| 35 | 16.20 | 8.72 311 | 324 | 338 | 351 | 364 | 9.44 130 | 125 | 126 | 115 | 110 | 9.97 642 | 641 | 640 | 639 | 639 | 9.65 959 | 961 | 963 | 965 | 957 | 36 | 24 |
| 36 | 24 | 364 | 376 | 391 | 404 | 418 | 110 | 183 | 180 | 094 | 589 | 639 | 636 | 637 | 636 | 536 | 967 | 969 | 971 | 972 | 974 | 32 | 23 |
| 37 | 20 | 418 | 431 | 444 | 468 | 471 | 089 | 084 | 679 | 874 | 569 | 636 | 633 | 634 | 633 | 633 | 974 | 976 | 970 | 960 | 982 | 28 | 22 |
| 38 | 32 | 471 | 485 | 496 | 511 | 623 | 869 | 064 | 659 | 034 | 048 | 533 | 632 | 631 | 630 | 636 | 962 | 984 | 956 | 988 | 990 | 24 | 91 |
| 39 | 36 | 523 | 338 | 551 | 565 | 578 | 546 | 043 | 038 | 033 | 028 | 630 | 629 | 628 | 627 | 627 | 996 | 992 | 994 | 996 | 998 | 13.20 | 28 |
| 40 | 46.40 | 8.72 578 | 591 | 664 | 616 | 631 | 9.44 020 | 023 | 018 | 013 | 087 | 9.97 527 | 626 | 625 | 624 | 624 | * 998 | 800 | 802 | 004 | 086 | 15 | 19 |
| 41 | 44 | 631 | 644 | 636 | 671 | 684 | • 807 | 082 | 997 | 992 | 907 | 624 | 623 | 629 | 621 | 621 | 9.56 886 | 608 | 809 | 811 | 813 | 12 | 18 |
| 42 | 48 | 684 | 698 | 711 | 724 | 738 | 9.43 987 | 282 | 977 | 972 | 967 | 621 | 626 | 619 | 618 | 618 | 813 | 615 | 017 | 619 | 021 | 8 | 17 |
| 43 | 52 | 738 | 751 | 764 | 777 | 791 | 967 | 961 | 936 | 951 | 946 | 518 | 617 | 616 | 615 | 615 | 621 | 823 | 823 | 627 | 029 | 4 | 16 |
| 44 | 56 | 721 | 804 | 817 | 631 | 844 | 946 | 941 | 936 | 931 | 925 | 513 | 614 | 613 | 612 | 612 | 029 | 631 | 833 | 836 | 037 | 13. 0 | 13 |
| 45 | 47. 0 | 8.79 844 | 857 | 678 | 684 | 897 | 9.43 925 | 920 | 915 | 910 | 985 | 9.97 612 | 611 | 618 | 689 | 609 | 9.86 037 | 839 | 041 | 843 | 045 | 56 | 14 |
| 46 | 4 | 697 | 918 | 924 | 937 | 950 | 255 | 900 | 825 | 889 | 884 | 602 | 608 | 687 | 606 | 606 | 645 | 646 | 048 | 058 | 852 | 52 | 13 |
| 47 | 8 | * 950 | 963 | 977 | 990 | 603 | 884 | 879 | 874 | 869 | 864 | 686 | 603 | 604 | 683 | 603 | 052 | 854 | 056 | 055 | 060 | 48 | 12 |
| 48 | 12 | 8.73 683 | 816 | 038 | 543 | 055 | 864 | 859 | 854 | 848 | 843 | 603 | 602 | 681 | 606 | 656 | 068 | 862 | 864 | 866 | 066 | 44 | 11 |
| 42 | 16 | 656 | 869 | 883 | 626 | 109 | 843 | 636 | 833 | 828 | 823 | 660 | 599 | 390 | 397 | 397 | 068 | 878 | 072 | 074 | 076 | 12.40 | 16 |
| 50 | 47.20 | 8.73 109 | 122 | 136 | 149 | 162 | 9.43 823 | 818 | 813 | 807 | 802 | 9.97 597 | 596 | 595 | 594 | 594 | 9.86 076 | 078 | 879 | 001 | 083 | 36 | 9 |
| 51 | 24 | 162 | 175 | 189 | 262 | 215 | 802 | 797 | 792 | 787 | 782 | 594 | 393 | 592 | 591 | 590 | 563 | 083 | 067 | 889 | 091 | 32 | 6 |
| 62 | 28 | 215 | 228 | 241 | 254 | 268 | 762 | 777 | 771 | 766 | 761 | 596 | 590 | 389 | 388 | 587 | 591 | 093 | 093 | 097 | 899 | 28 | 7 |
| 53 | 32 | 268 | 261 | 294 | 386 | 321 | 761 | 756 | 751 | 746 | 741 | 687 | 367 | 586 | 363 | 584 | 529 | 101 | 103 | 185 | 167 | 24 | 6 |
| 64 | 36 | 391 | 334 | 347 | 360 | 374 | 741 | 735 | 730 | 725 | 720 | 584 | 584 | 583 | 582 | 381 | 187 | 189 | 111 | 112 | 114 | 12.26 | 5 |
| 55 | 47.40 | 8.73 374 | 387 | 406 | 413 | 426 | 9.43 720 | 715 | 710 | 705 | 699 | 9.97 581 | 681 | 568 | 579 | 678 | 9.86 114 | 116 | 118 | 120 | 122 | 16 | 4 |
| 56 | 44 | 426 | 439 | 453 | 466 | 479 | 699 | 694 | 689 | 684 | 679 | 578 | 376 | 577 | 576 | 575 | 122 | 124 | 126 | 128 | 138 | 12 | 3 |
| 57 | 48 | 479 | 492 | 305 | 519 | 632 | 679 | 674 | 669 | 663 | 656 | 576 | 375 | 574 | 373 | 572 | 138 | 132 | 134 | 136 | 138 | 8 | 2 |
| 56 | 52 | 532 | 545 | 550 | 671 | 684 | 650 | 653 | 648 | 643 | 630 | 572 | 372 | 571 | 576 | 569 | 138 | 146 | 142 | 143 | 143 | 4 | 1 |
| 59 | 66 | 684 | 398 | 611 | 624 | 637 | 638 | 632 | 627 | 622 | 617 | 569 | 569 | 568 | 567 | 566 | 145 | 147 | 149 | 131 | 153 | 12. 5 | 0 |
| | | 4° 66″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 5″ | 4° 56″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 8″ | 4° 50″ | 3° 45″ | 2° 38″ | 1° 15″ | 0° 0″ | 4° 66″ | 3° 43″ | 2° 30″ | 1° 15″ | 0° 5″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 10h / 4h | 153° / 63° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 27° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 40. 0 | 9.65 705 | 711 | 717 | 723 | 729 | 9.94 988 | 986 | 985 | 983 | 909 | 0.85 812 | 014 | 015 | 017 | 018 | 0.34 995 | 289 | 283 | 977 | 271 | 56 | 59 |
| 1 | 4 | 729 | 736 | 749 | 748 | 764 | 989 | 980 | 978 | 977 | 975 | 018 | 020 | 099 | 093 | 025 | 971 | 964 | 258 | 952 | 946 | 62 | 68 |
| 9 | 0 | 754 | 760 | 767 | 773 | 779 | 975 | 974 | 972 | 970 | 969 | 025 | 026 | 020 | 030 | 031 | 246 | 240 | 933 | 227 | 221 | 48 | 57 |
| 3 | 19 | 779 | 785 | 791 | 798 | 804 | 969 | 967 | 966 | 964 | 969 | 031 | 033 | 034 | 036 | 038 | 921 | 215 | 209 | 202 | 196 | 44 | 56 |
| 4 | 16 | 004 | 810 | 815 | 822 | 898 | 962 | 961 | 959 | 957 | 956 | 038 | 039 | 041 | 043 | 044 | 195 | 190 | 184 | 178 | 172 | 11. 40 | 55 |
| 6 | 48. 20 | 9.65 828 | 835 | 841 | 847 | 853 | 9.94 956 | 954 | 953 | 951 | 949 | 8.85 044 | 046 | 047 | 049 | 051 | 0.34 172 | 165 | 159 | 153 | 147 | 36 | 54 |
| 6 | 24 | 853 | 859 | 865 | 879 | 878 | 949 | 948 | 946 | 945 | 943 | 051 | 052 | 054 | 055 | 057 | 147 | 141 | 135 | 128 | 122 | 32 | 53 |
| 7 | 28 | 878 | 884 | 890 | 096 | 902 | 943 | 941 | 940 | 938 | 936 | 057 | 059 | 060 | 062 | 864 | 192 | 116 | 110 | 104 | 098 | 28 | 59 |
| 8 | 32 | 902 | 909 | 915 | 991 | 927 | 936 | 935 | 933 | 932 | 930 | 061 | 065 | 067 | 068 | 070 | 898 | 091 | 085 | 079 | 073 | 94 | 51 |
| 9 | 36 | 927 | 933 | 939 | 946 | 952 | 930 | 928 | 997 | 925 | 993 | 070 | 079 | 073 | 075 | 077 | 073 | 067 | 061 | 054 | 048 | 11. 20 | 60 |
| 10 | 48. 40 | 9.65 952 | 958 | 964 | 970 | 976 | 9.94 923 | 929 | 990 | 919 | 917 | 0.05 077 | 078 | 080 | 081 | 083 | 0.34 048 | 049 | 036 | 030 | 024 | 16 | 49 |
| 11 | 44 | * 976 | 989 | 989 | 996 | 001 | 917 | 915 | 914 | 912 | 911 | 083 | 085 | 086 | 088 | 089 | * 024 | 018 | 011 | 005 | 999 | 12 | 40 |
| 12 | 48 | 9.66 001 | 007 | 013 | 019 | 026 | 911 | 909 | 907 | 906 | 904 | 089 | 091 | 093 | 094 | 096 | 0.33 999 | 993 | 987 | 981 | 975 | 8 | 47 |
| 13 | 52 | 026 | 039 | 038 | 014 | 050 | 904 | 902 | 901 | 899 | 898 | 096 | 098 | 099 | 101 | 102 | 975 | 968 | 962 | 956 | 950 | 4 | 46 |
| 14 | 56 | 050 | 056 | 062 | 068 | 075 | 098 | 896 | 894 | 893 | 891 | 102 | 104 | 106 | 107 | 109 | 950 | 944 | 938 | 932 | 995 | 11. 0 | 45 |
| 16 | 49. 0 | 9.66 075 | 081 | 087 | 093 | 099 | 9.94 891 | 889 | 888 | 886 | 885 | 8.05 109 | 111 | 112 | 114 | 115 | 0.33 995 | 919 | 913 | 907 | 901 | 56 | 44 |
| 16 | 4 | 099 | 105 | 111 | 117 | 124 | 085 | 883 | 881 | 880 | 878 | 115 | 117 | 119 | 120 | 122 | 901 | 095 | 889 | 883 | 876 | 52 | 43 |
| 17 | 8 | 194 | 130 | 136 | 149 | 148 | 878 | 876 | 875 | 873 | 871 | 122 | 124 | 125 | 127 | 129 | 876 | 870 | 864 | 858 | 852 | 48 | 49 |
| 18 | 12 | 148 | 154 | 160 | 166 | 173 | 871 | 870 | 868 | 067 | 865 | 199 | 130 | 139 | 133 | 135 | 852 | 846 | 840 | 834 | 827 | 44 | 41 |
| 19 | 16 | 173 | 179 | 186 | 191 | 197 | 065 | 863 | 862 | 860 | 858 | 135 | 137 | 138 | 140 | 149 | 827 | 891 | 815 | 809 | 803 | 10. 40 | 40 |
| 20 | 49. 20 | 9.66 197 | 203 | 209 | 915 | 221 | 9.94 858 | 857 | 855 | 854 | 852 | 8.05 142 | 143 | 145 | 146 | 148 | 0.33 803 | 797 | 791 | 785 | 779 | 36 | 39 |
| 91 | 91 | 221 | 298 | 234 | 248 | 246 | 852 | 850 | 849 | 847 | 845 | 148 | 150 | 151 | 153 | 155 | 772 | 772 | 766 | 760 | 754 | 39 | 38 |
| 22 | 98 | 246 | 252 | 258 | 264 | 970 | 845 | 814 | 849 | 840 | 839 | 155 | 156 | 158 | 160 | 161 | 754 | 748 | 742 | 736 | 730 | 98 | 37 |
| 93 | 32 | 270 | 976 | 282 | 289 | 295 | 839 | 837 | 836 | 834 | 832 | 161 | 163 | 165 | 166 | 168 | 730 | 724 | 718 | 711 | 705 | 94 | 36 |
| 94 | 36 | 995 | 301 | 307 | 313 | 319 | 832 | 831 | 829 | 827 | 026 | 160 | 169 | 171 | 173 | 174 | 705 | 699 | 693 | 687 | 681 | 10. 20 | 35 |
| 25 | 49. 40 | 9.66 319 | 325 | 331 | 337 | 343 | 9.94 026 | 824 | 822 | 821 | 819 | 8.05 174 | 176 | 178 | 179 | 181 | 0.33 681 | 675 | 669 | 663 | 657 | 16 | 34 |
| 26 | 44 | 343 | 349 | 356 | 369 | 368 | 819 | 818 | 816 | 814 | 013 | 181 | 182 | 184 | 186 | 187 | 657 | 651 | 644 | 638 | 632 | 19 | 33 |
| 27 | 48 | 368 | 374 | 380 | 386 | 392 | 813 | 811 | 809 | 808 | 806 | 187 | 189 | 191 | 199 | 194 | 632 | 626 | 620 | 614 | 608 | 8 | 32 |
| 28 | 62 | 392 | 398 | 404 | 410 | 416 | 806 | 804 | 803 | 801 | 799 | 194 | 196 | 197 | 199 | 201 | 608 | 602 | 596 | 590 | 584 | 4 | 31 |
| 99 | 56 | 416 | 492 | 428 | 434 | 441 | 799 | 798 | 796 | 795 | 793 | 201 | 202 | 204 | 205 | 907 | 584 | 578 | 579 | 666 | 559 | 10. 0 | 30 |
| 30 | 50. 0 | 9.66 441 | 447 | 453 | 459 | 465 | 9.94 793 | 791 | 790 | 788 | 786 | 8.05 207 | 209 | 210 | 212 | 914 | 0.33 659 | 553 | 547 | 541 | 535 | 56 | 99 |
| 31 | 4 | 465 | 471 | 477 | 483 | 489 | 786 | 785 | 783 | 781 | 780 | 914 | 215 | 217 | 219 | 990 | 535 | 529 | 523 | 517 | 511 | 59 | 20 |
| 32 | 8 | 489 | 495 | 501 | 507 | 513 | 700 | 778 | 776 | 775 | 773 | 920 | 922 | 924 | 295 | 297 | 511 | 505 | 499 | 493 | 487 | 48 | 97 |
| 33 | 19 | 513 | 519 | 525 | 531 | 537 | 773 | 771 | 770 | 768 | 767 | 257 | 229 | 230 | 932 | 233 | 487 | 481 | 475 | 469 | 463 | 44 | 96 |
| 34 | 16 | 537 | 544 | 550 | 556 | 562 | 767 | 765 | 763 | 769 | 760 | 233 | 235 | 237 | 238 | 940 | 463 | 456 | 450 | 444 | 438 | 9. 40 | 25 |
| 35 | 50. 20 | 9.66 662 | 568 | 574 | 580 | 586 | 9.94 760 | 758 | 757 | 755 | 753 | 8.05 240 | 949 | 243 | 245 | 947 | 0.33 438 | 432 | 426 | 420 | 414 | 36 | 24 |
| 36 | 94 | 686 | 592 | 598 | 604 | 610 | 753 | 759 | 750 | 748 | 747 | 947 | 248 | 250 | 252 | 253 | 414 | 408 | 402 | 396 | 390 | 32 | 23 |
| 37 | 98 | 610 | 616 | 622 | 628 | 634 | 747 | 745 | 743 | 742 | 740 | 253 | 255 | 257 | 258 | 960 | 390 | 384 | 378 | 379 | 366 | 98 | 22 |
| 38 | 32 | 634 | 640 | 646 | 659 | 658 | 740 | 738 | 737 | 735 | 734 | 960 | 262 | 263 | 265 | 266 | 366 | 360 | 354 | 340 | 342 | 94 | 21 |
| 39 | 36 | 658 | 664 | 670 | 676 | 689 | 734 | 732 | 730 | 729 | 727 | 266 | 968 | 270 | 271 | 273 | 342 | 336 | 330 | 324 | 310 | 9. 20 | 20 |
| 40 | 50. 40 | 9.66 682 | 688 | 694 | 700 | 706 | 9.94 727 | 725 | 794 | 729 | 720 | 8.05 273 | 275 | 276 | 278 | 280 | 0.33 318 | 312 | 306 | 300 | 294 | 16 | 19 |
| 41 | 44 | 706 | 712 | 719 | 795 | 731 | 790 | 719 | 717 | 715 | 714 | 280 | 281 | 283 | 285 | 286 | 294 | 288 | 281 | 975 | 269 | 12 | 10 |
| 42 | 48 | 731 | 737 | 743 | 749 | 755 | 714 | 712 | 710 | 709 | 707 | 286 | 988 | 990 | 291 | 293 | 269 | 263 | 257 | 951 | 245 | 8 | 17 |
| 43 | 52 | 755 | 761 | 767 | 773 | 779 | 707 | 705 | 704 | 702 | 700 | 293 | 295 | 296 | 298 | 300 | 245 | 939 | 233 | 997 | 291 | 4 | 16 |
| 44 | 56 | 779 | 785 | 791 | 797 | 803 | 700 | 699 | 697 | 695 | 694 | 300 | 301 | 303 | 305 | 306 | 221 | 215 | 209 | 203 | 197 | 9. 0 | 15 |
| 45 | 51. 0 | 9.66 803 | 809 | 815 | 821 | 897 | 9.94 594 | 699 | 690 | 689 | 687 | 8.05 306 | 308 | 310 | 311 | 313 | 0.33 197 | 191 | 185 | 179 | 173 | 56 | 14 |
| 46 | 4 | 897 | 833 | 839 | 845 | 851 | 687 | 685 | 684 | 682 | 680 | 313 | 315 | 316 | 318 | 390 | 173 | 167 | 161 | 155 | 149 | 59 | 13 |
| 47 | 8 | 851 | 057 | 863 | 869 | 875 | 680 | 679 | 677 | 675 | 674 | 320 | 391 | 323 | 325 | 326 | 149 | 143 | 137 | 131 | 126 | 48 | 19 |
| 48 | 12 | 875 | 881 | 887 | 893 | 899 | 674 | 672 | 670 | 669 | 667 | 326 | 398 | 330 | 331 | 333 | 125 | 119 | 113 | 107 | 101 | 44 | 11 |
| 49 | 16 | 899 | 905 | 911 | 917 | 923 | 667 | 665 | 664 | 662 | 660 | 333 | 335 | 336 | 338 | 340 | 101 | 095 | 089 | 083 | 077 | 8. 40 | 10 |
| 50 | 51. 90 | 9.66 993 | 928 | 934 | 940 | 946 | 9.94 660 | 659 | 657 | 655 | 654 | 0.85 340 | 341 | 313 | 345 | 346 | 0.33 077 | 079 | 066 | 060 | 054 | 36 | 9 |
| 51 | 24 | 946 | 952 | 958 | 964 | 970 | 654 | 659 | 650 | 649 | 647 | 346 | 348 | 350 | 351 | 353 | 054 | 048 | 042 | 036 | 030 | 32 | 8 |
| 52 | 28 | 970 | 976 | 982 | 988 | 994 | 647 | 645 | 644 | 649 | 640 | 353 | 355 | 356 | 358 | 360 | 030 | 024 | 018 | 012 | 006 | 98 | 7 |
| 53 | 32 | * 994 | 000 | 806 | 012 | 018 | 640 | 639 | 637 | 635 | 634 | 360 | 361 | 363 | 365 | 366 | * 006 | 000 | 994 | 988 | 989 | 94 | 6 |
| 54 | 36 | 9.67 018 | 024 | 030 | 036 | 042 | 634 | 632 | 630 | 629 | 627 | 366 | 368 | 370 | 371 | 373 | 8.32 989 | 976 | 970 | 964 | 958 | 8. 20 | 5 |
| 65 | 51. 40 | 9.67 042 | 048 | 054 | 060 | 066 | 9.94 627 | 695 | 624 | 622 | 620 | 0.05 373 | 375 | 376 | 378 | 380 | 0.32 958 | 959 | 946 | 940 | 934 | 16 | 4 |
| 66 | 44 | 066 | 072 | 078 | 084 | 090 | 620 | 619 | 617 | 615 | 614 | 380 | 381 | 383 | 385 | 386 | 934 | 998 | 922 | 916 | 910 | 12 | 3 |
| 57 | 48 | 090 | 096 | 101 | 107 | 113 | 614 | 612 | 610 | 609 | 607 | 386 | 388 | 390 | 391 | 393 | 910 | 904 | 099 | 893 | 887 | 8 | 9 |
| 58 | 52 | 113 | 119 | 195 | 131 | 137 | 607 | 605 | 604 | 609 | 600 | 393 | 395 | 396 | 398 | 400 | 887 | 881 | 875 | 869 | 863 | 4 | 1 |
| 59 | 66 | 137 | 143 | 149 | 155 | 161 | 600 | 599 | 597 | 595 | 593 | 400 | 101 | 403 | 405 | 407 | 863 | 857 | 851 | 845 | 839 | 0. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 152° |
| | | Coseoo | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 69° |

Digitized by Google

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 27° | 1h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117° | 7h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 0 | 48. 0 | 9.73 637 | 950 | 963 | 677 | 620 | 9.43 917 | 912 | 607 | 602 | 596 | 9.97 566 | 566 | 555 | 564 | 563 | 9.86 153 | 159 | 157 | 159 | 161 | 56 | 59 |
| 1 | 4 | 690 | 703 | 719 | 729 | 742 | 526 | 591 | 586 | 581 | 576 | 963 | 563 | 562 | 561 | 560 | 161 | 163 | 165 | 167 | 162 | 52 | 58 |
| 2 | 9 | 742 | 755 | 798 | 782 | 795 | 979 | 571 | 565 | 590 | 555 | 960 | 552 | 559 | 558 | 557 | 192 | 171 | 172 | 174 | 176 | 48 | 57 |
| 3 | 12 | 795 | 808 | 821 | 934 | 847 | 555 | 550 | 545 | 540 | 534 | 957 | 556 | 556 | 555 | 554 | 176 | 178 | 180 | 182 | 184 | 44 | 56 |
| 4 | 16 | 947 | 890 | 873 | 887 | 200 | 934 | 529 | 524 | 512 | 514 | 554 | 553 | 553 | 552 | 551 | 184 | 186 | 188 | 190 | 192 | 11. 40 | 65 |
| 5 | 48. 20 | 9.73 900 | 913 | 926 | 239 | 252 | 9.43 514 | 509 | 504 | 428 | 423 | 9.97 551 | 550 | 550 | 549 | 548 | 9.86 192 | 194 | 196 | 198 | 200 | 36 | 54 |
| 6 | 24 | * 952 | 965 | 978 | 991 | 095 | 423 | 488 | 483 | 478 | 473 | 548 | 547 | 547 | 546 | 545 | 200 | 201 | 293 | 205 | 207 | 32 | 53 |
| 7 | 28 | 9.74 005 | 018 | 031 | 044 | 057 | 473 | 467 | 462 | 457 | 452 | 545 | 544 | 543 | 543 | 542 | 207 | 209 | 211 | 213 | 215 | 28 | 62 |
| 8 | 32 | 957 | 070 | 083 | 096 | 102 | 452 | 447 | 442 | 436 | 431 | 542 | 541 | 540 | 540 | 539 | 215 | 217 | 219 | 221 | 223 | 24 | 51 |
| 9 | 36 | 109 | 122 | 135 | 149 | 162 | 431 | 426 | 421 | 416 | 411 | 539 | 538 | 537 | 537 | 535 | 223 | 225 | 227 | 229 | 230 | 11. 20 | 56 |
| 10 | 18. 40 | 8.74 162 | 175 | 188 | 201 | 214 | 9.43 411 | 405 | 400 | 325 | 320 | 9.97 536 | 535 | 534 | 534 | 533 | 9.86 230 | 232 | 234 | 236 | 230 | 16 | 49 |
| 11 | 44 | 214 | 227 | 240 | 253 | 296 | 390 | 385 | 372 | 374 | 362 | 633 | 532 | 531 | 531 | 530 | 238 | 240 | 242 | 244 | 216 | 12 | 48 |
| 12 | 48 | 266 | 279 | 222 | 305 | 318 | 369 | 364 | 359 | 351 | 348 | 530 | 529 | 528 | 527 | 527 | 216 | 248 | 250 | 252 | 254 | 8 | 47 |
| 13 | 92 | 310 | 331 | 344 | 357 | 370 | 340 | 343 | 338 | 333 | 328 | 527 | 526 | 525 | 524 | 524 | 254 | 255 | 257 | 259 | 261 | 4 | 46 |
| 14 | 56 | 370 | 383 | 397 | 410 | 423 | 328 | 323 | 317 | 312 | 307 | 524 | 523 | 522 | 521 | 521 | 261 | 293 | 265 | 267 | 269 | 11. 0 | 45 |
| 15 | 49. 0 | 8.74 423 | 436 | 442 | 462 | 475 | 9.43 307 | 302 | 297 | 291 | 286 | 9.97 521 | 520 | 512 | 518 | 518 | 9.86 269 | 271 | 273 | 276 | 277 | 56 | 44 |
| 16 | 4 | 475 | 488 | 501 | 514 | 527 | 286 | 281 | 276 | 271 | 266 | 518 | 517 | 516 | 515 | 514 | 277 | 272 | 281 | 282 | 284 | 62 | 43 |
| 17 | 9 | 527 | 540 | 553 | 566 | 679 | 296 | 266 | 255 | 250 | 245 | 514 | 514 | 513 | 512 | 511 | 284 | 286 | 288 | 290 | 292 | 48 | 42 |
| 18 | 12 | 579 | 592 | 605 | 618 | 631 | 246 | 240 | 234 | 229 | 224 | 511 | 511 | 510 | 509 | 508 | 292 | 294 | 296 | 298 | 360 | 44 | 41 |
| 19 | 19 | 631 | 644 | 657 | 670 | 683 | 224 | 219 | 214 | 209 | 203 | 608 | 508 | 507 | 506 | 505 | 300 | 302 | 304 | 366 | 367 | 16. 40 | 40 |
| 20 | 49. 20 | 9.74 983 | 626 | 709 | 722 | 735 | 9.43 203 | 198 | 123 | 188 | 183 | 9.97 505 | 504 | 504 | 503 | 502 | 9.86 307 | 309 | 311 | 313 | 315 | 36 | 39 |
| 21 | 24 | 735 | 748 | 761 | 774 | 707 | 183 | 177 | 172 | 167 | 162 | 502 | 501 | 501 | 500 | 429 | 315 | 317 | 319 | 321 | 323 | 32 | 38 |
| 22 | 28 | 787 | 800 | 813 | 826 | 838 | 162 | 157 | 151 | 146 | 141 | 499 | 498 | 498 | 497 | 496 | 323 | 325 | 327 | 329 | 331 | 28 | 37 |
| 23 | 32 | 938 | 851 | 864 | 877 | 090 | 141 | 136 | 131 | 125 | 120 | 496 | 495 | 494 | 494 | 493 | 331 | 332 | 334 | 336 | 338 | 24 | 36 |
| 24 | 36 | 990 | 203 | 916 | 929 | 942 | 120 | 115 | 110 | 105 | 100 | 493 | 492 | 491 | 491 | 490 | 338 | 340 | 342 | 344 | 346 | 10. 20 | 35 |
| 25 | 49. 40 | 8.74 942 | 955 | 968 | 981 | 994 | 9.43 100 | 024 | 089 | 084 | 079 | 9.97 490 | 482 | 488 | 488 | 487 | 9.86 346 | 348 | 350 | 352 | 354 | 16 | 34 |
| 29 | 44 | * 994 | 667 | 026 | 033 | 045 | 979 | 074 | 068 | 063 | 058 | 487 | 486 | 485 | 484 | 484 | 354 | 356 | 357 | 359 | 361 | 12 | 33 |
| 27 | 48 | 8.79 946 | 059 | 072 | 084 | 097 | 958 | 053 | 048 | 042 | 637 | 484 | 483 | 482 | 481 | 481 | 361 | 363 | 365 | 367 | 369 | 8 | 32 |
| 28 | 52 | 997 | 110 | 123 | 136 | 149 | 037 | 032 | 027 | 022 | 016 | 481 | 486 | 479 | 478 | 478 | 362 | 371 | 373 | 375 | 377 | 4 | 31 |
| 29 | 56 | 149 | 162 | 175 | 188 | 201 | * 016 | 011 | 006 | 001 | 996 | 478 | 477 | 476 | 475 | 474 | 377 | 379 | 380 | 382 | 384 | 16. 0 | 30 |
| 30 | 50. 0 | 8.75 201 | 214 | 227 | 239 | 252 | 9.42 996 | 990 | 285 | 280 | 975 | 9.97 474 | 474 | 473 | 472 | 471 | 9.86 384 | 386 | 388 | 390 | 392 | 56 | 22 |
| 31 | 4 | 252 | 265 | 278 | 291 | 304 | 975 | 969 | 264 | 259 | 954 | 471 | 471 | 470 | 469 | 468 | 392 | 394 | 396 | 398 | 400 | 62 | 28 |
| 32 | 8 | 304 | 317 | 330 | 343 | 355 | 954 | 949 | 943 | 938 | 933 | 468 | 467 | 467 | 466 | 465 | 400 | 402 | 403 | 405 | 407 | 48 | 27 |
| 33 | 12 | 355 | 368 | 381 | 394 | 407 | 933 | 928 | 923 | 917 | 212 | 465 | 464 | 464 | 463 | 462 | 407 | 409 | 411 | 413 | 415 | 44 | 26 |
| 34 | 16 | 497 | 420 | 433 | 416 | 450 | 912 | 207 | 902 | 897 | 891 | 462 | 461 | 466 | 460 | 452 | 415 | 417 | 412 | 421 | 423 | 9. 40 | 25 |
| 35 | 50. 20 | 8.75 458 | 471 | 484 | 497 | 510 | 9.42 891 | 886 | 881 | 876 | 870 | 9.97 459 | 458 | 457 | 457 | 456 | 9.86 423 | 424 | 426 | 428 | 430 | 36 | 24 |
| 36 | 24 | 916 | 523 | 536 | 549 | 591 | 870 | 865 | 060 | 855 | 850 | 456 | 455 | 454 | 454 | 453 | 430 | 432 | 434 | 436 | 438 | 32 | 23 |
| 37 | 28 | 561 | 574 | 587 | 900 | 613 | 950 | 844 | 839 | 034 | 829 | 453 | 452 | 451 | 450 | 450 | 438 | 440 | 442 | 444 | 446 | 28 | 22 |
| 38 | 32 | 613 | 625 | 938 | 651 | 664 | 829 | 824 | 818 | 913 | 808 | 450 | 449 | 448 | 447 | 447 | 446 | 447 | 449 | 451 | 453 | 24 | 21 |
| 39 | 36 | 664 | 677 | 990 | 763 | 715 | 808 | 803 | 797 | 722 | 787 | 447 | 446 | 445 | 444 | 443 | 453 | 455 | 457 | 459 | 461 | 9. 20 | 20 |
| 40 | 50. 40 | 8.75 715 | 728 | 741 | 754 | 797 | 9.42 787 | 782 | 777 | 771 | 766 | 9.97 443 | 443 | 442 | 441 | 440 | 9.86 461 | 463 | 465 | 467 | 468 | 16 | 19 |
| 41 | 44 | 797 | 779 | 792 | 805 | 818 | 766 | 761 | 756 | 750 | 745 | 440 | 440 | 432 | 438 | 437 | 468 | 470 | 472 | 474 | 476 | 12 | 18 |
| 42 | 48 | 918 | 831 | 843 | 859 | 869 | 746 | 740 | 735 | 730 | 724 | 437 | 436 | 436 | 435 | 434 | 476 | 478 | 480 | 482 | 484 | 8 | 17 |
| 43 | 62 | 869 | 882 | 895 | 907 | 920 | 724 | 719 | 714 | 709 | 703 | 434 | 433 | 433 | 432 | 431 | 484 | 486 | 488 | 489 | 491 | 4 | 16 |
| 44 | 56 | 920 | 933 | 949 | 959 | 971 | 703 | 698 | 693 | 688 | 682 | 431 | 430 | 429 | 429 | 428 | 421 | 493 | 495 | 497 | 499 | 9. 0 | 15 |
| 45 | 51. 0 | * 971 | 284 | 297 | 010 | 023 | 9.42 682 | 677 | 672 | 667 | 662 | 9.97 428 | 427 | 426 | 426 | 425 | 9.86 499 | 501 | 503 | 505 | 507 | 56 | 14 |
| 46 | 4 | 8.76 023 | 035 | 048 | 061 | 074 | 662 | 956 | 651 | 646 | 641 | 425 | 424 | 423 | 422 | 422 | 507 | 509 | 510 | 512 | 514 | 52 | 13 |
| 47 | 8 | 074 | 086 | 099 | 112 | 125 | 641 | 635 | 630 | 525 | 626 | 422 | 421 | 420 | 419 | 418 | 514 | 516 | 518 | 520 | 522 | 48 | 12 |
| 48 | 12 | 125 | 138 | 150 | 163 | 176 | 920 | 611 | 609 | 604 | 599 | 418 | 418 | 417 | 416 | 415 | 622 | 524 | 526 | 528 | 529 | 44 | 11 |
| 49 | 16 | 176 | 189 | 201 | 214 | 227 | 599 | 593 | 588 | 583 | 578 | 415 | 414 | 414 | 413 | 412 | 522 | 531 | 533 | 535 | 537 | 8. 40 | 10 |
| 50 | 51. 20 | 9.76 227 | 240 | 252 | 265 | 278 | 9.42 578 | 572 | 567 | 562 | 557 | 9.97 412 | 411 | 411 | 410 | 409 | 9.96 637 | 532 | 541 | 543 | 545 | 36 | 9 |
| 61 | 24 | 278 | 290 | 303 | 316 | 329 | 557 | 552 | 546 | 541 | 536 | 409 | 408 | 408 | 407 | 406 | 545 | 547 | 548 | 550 | 552 | 32 | 8 |
| 92 | 20 | 329 | 341 | 354 | 367 | 380 | 536 | 531 | 525 | 520 | 515 | 406 | 405 | 404 | 404 | 403 | 552 | 554 | 556 | 558 | 560 | 28 | 7 |
| 93 | 32 | 380 | 322 | 405 | 418 | 431 | 515 | 510 | 504 | 499 | 494 | 403 | 402 | 401 | 400 | 400 | 560 | 562 | 564 | 566 | 568 | 24 | 6 |
| 54 | 36 | 431 | 443 | 456 | 469 | 481 | 494 | 489 | 483 | 478 | 473 | 460 | 392 | 398 | 397 | 397 | 568 | 569 | 571 | 573 | 575 | 8. 20 | 5 |
| 55 | 51. 40 | 8.76 481 | 494 | 507 | 519 | 532 | 9.42 473 | 468 | 462 | 457 | 452 | 9.97 327 | 396 | 395 | 394 | 393 | 9.86 575 | 577 | 579 | 581 | 583 | 16 | 4 |
| 96 | 44 | 532 | 545 | 558 | 570 | 583 | 452 | 447 | 441 | 436 | 431 | 323 | 393 | 392 | 391 | 390 | 583 | 585 | 587 | 588 | 590 | 12 | 3 |
| 97 | 48 | 983 | 596 | 698 | 621 | 634 | 431 | 426 | 420 | 415 | 410 | 320 | 389 | 389 | 388 | 387 | 520 | 592 | 594 | 596 | 598 | 8 | 2 |
| 98 | 92 | 934 | 946 | 652 | 672 | 684 | 410 | 465 | 399 | 394 | 389 | 387 | 386 | 386 | 385 | 384 | 698 | 600 | 602 | 604 | 606 | 4 | 1 |
| 59 | 56 | 684 | 997 | 710 | 722 | 735 | 382 | 384 | 378 | 373 | 368 | 384 | 383 | 382 | 382 | 381 | 606 | 607 | 609 | 611 | 613 | 8. 0 | 0 |
| | | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 6″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 6s 6″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 10h | 152° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 4h | 62° |

**Tabla XVI.** Logaritmos, Senos, Cosenos, Secantes y Cosecantes.

| 28° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 3° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 52. 8 | 9.67 161 | 187 | 173 | 179 | 185 | 9.94 593 | 592 | 590 | 566 | 667 | 3.63 407 | 486 | 410 | 412 | 413 | 3.32 839 | 633 | 827 | 821 | 615 | 56 | 59 |
| 1 | 4 | 185 | 191 | 197 | 282 | 208 | 567 | 585 | 563 | 582 | 560 | 413 | 415 | 417 | 418 | 420 | 615 | 889 | 803 | 728 | 722 | 32 | 58 |
| 2 | 8 | 208 | 214 | 228 | 226 | 232 | 588 | 578 | 577 | 575 | 573 | 420 | 422 | 423 | 425 | 427 | 722 | 786 | 788 | 774 | 768 | 48 | 57 |
| 3 | 12 | 232 | 238 | 244 | 250 | 258 | 373 | 572 | 576 | 560 | 867 | 427 | 428 | 430 | 432 | 433 | 768 | 762 | 755 | 750 | 744 | 44 | 53 |
| 4 | 16 | 256 | 262 | 268 | 274 | 988 | 657 | 565 | 563 | 562 | 580 | 433 | 435 | 437 | 438 | 448 | 744 | 730 | 732 | 726 | 728 | 7.46 | 55 |
| 5 | 52. 20 | 9.67 280 | 285 | 291 | 297 | 303 | 9.94 560 | 558 | 558 | 555 | 553 | 3.85 440 | 442 | 444 | 445 | 447 | 0.39 728 | 715 | 702 | 703 | 827 | 36 | 54 |
| 6 | 24 | 383 | 382 | 315 | 321 | 327 | 553 | 551 | 558 | 548 | 546 | 447 | 449 | 488 | 452 | 454 | 627 | 691 | 685 | 679 | 673 | 32 | 53 |
| 7 | 28 | 327 | 333 | 332 | 345 | 350 | 546 | 515 | 543 | 541 | 540 | 454 | 455 | 457 | 459 | 450 | 673 | 667 | 651 | 555 | 650 | 28 | 52 |
| 6 | 32 | 350 | 356 | 362 | 388 | 374 | 548 | 538 | 536 | 535 | 533 | 460 | 482 | 464 | 465 | 487 | 650 | 644 | 638 | 632 | 626 | 24 | 51 |
| 9 | 36 | 374 | 388 | 386 | 322 | 328 | 333 | 531 | 522 | 528 | 526 | 467 | 489 | 471 | 472 | 474 | 626 | 628 | 614 | 608 | 882 | 7.28 | 58 |
| 10 | 52. 40 | 9.67 398 | 404 | 482 | 415 | 421 | 9.94 526 | 524 | 523 | 521 | 519 | 3.05 474 | 478 | 477 | 472 | 481 | 0.39 602 | 598 | 591 | 585 | 579 | 18 | 49 |
| 11 | 44 | 421 | 427 | 433 | 439 | 445 | 512 | 518 | 515 | 514 | 513 | 481 | 482 | 484 | 485 | 487 | 572 | 573 | 557 | 561 | 555 | 12 | 48 |
| 12 | 48 | 445 | 451 | 457 | 463 | 468 | 513 | 511 | 509 | 507 | 508 | 487 | 489 | 421 | 493 | 494 | 655 | 549 | 543 | 537 | 532 | 6 | 47 |
| 13 | 32 | 468 | 474 | 488 | 488 | 422 | 506 | 584 | 502 | 501 | 429 | 424 | 425 | 498 | 492 | 501 | 532 | 528 | 528 | 514 | 588 | 4 | 46 |
| 14 | 56 | 422 | 498 | 584 | 510 | 515 | 492 | 497 | 496 | 494 | 422 | 501 | 583 | 584 | 586 | 508 | 586 | 582 | 496 | 428 | 485 | 7. 6 | 45 |
| 15 | 53. 0 | 9.67 515 | 521 | 527 | 533 | 539 | 9.94 492 | 421 | 482 | 487 | 485 | 0.05 508 | 502 | 511 | 513 | 515 | 3.32 485 | 479 | 473 | 457 | 461 | 58 | 44 |
| 16 | 4 | 532 | 545 | 551 | 557 | 582 | 485 | 484 | 482 | 488 | 472 | 515 | 518 | 618 | 520 | 521 | 481 | 455 | 449 | 443 | 438 | 52 | 43 |
| 17 | 8 | 562 | 568 | 574 | 588 | 586 | 479 | 477 | 475 | 474 | 472 | 521 | 523 | 825 | 528 | 528 | 436 | 432 | 426 | 420 | 414 | 48 | 42 |
| 18 | 12 | 586 | 592 | 528 | 504 | 809 | 472 | 473 | 468 | 467 | 465 | 828 | 530 | 532 | 533 | 535 | 414 | 408 | 402 | 396 | 391 | 44 | 41 |
| 19 | 16 | 609 | 615 | 621 | 627 | 833 | 485 | 463 | 462 | 460 | 458 | 535 | 537 | 538 | 548 | 542 | 391 | 385 | 372 | 373 | 367 | 6 40 | 40 |
| 20 | 53. 20 | 9.67 633 | 839 | 645 | 650 | 856 | 9.94 458 | 457 | 455 | 453 | 451 | 0.05 542 | 543 | 545 | 547 | 549 | 3.32 367 | 561 | 355 | 350 | 344 | 35 | 39 |
| 21 | 24 | 656 | 662 | 868 | 674 | 880 | 451 | 450 | 448 | 448 | 445 | 549 | 550 | 552 | 554 | 555 | 344 | 338 | 339 | 326 | 390 | 32 | 38 |
| 92 | 28 | 680 | 885 | 691 | 697 | 703 | 445 | 443 | 441 | 439 | 438 | 555 | 557 | 552 | 561 | 582 | 320 | 315 | 309 | 303 | 297 | 28 | 37 |
| 93 | 32 | 703 | 709 | 715 | 721 | 726 | 438 | 438 | 434 | 433 | 431 | 362 | 584 | 568 | 587 | 582 | 297 | 291 | 965 | 272 | 274 | 24 | 38 |
| 24 | 38 | 728 | 732 | 738 | 744 | 750 | 431 | 429 | 428 | 426 | 424 | 589 | 571 | 572 | 574 | 576 | 274 | 288 | 262 | 258 | 258 | 6. 20 | 35 |
| 25 | 53. 40 | 9.87 750 | 758 | 761 | 787 | 773 | 9.94 424 | 422 | 421 | 419 | 417 | 0.05 676 | 578 | 572 | 581 | 583 | 3.32 250 | 244 | 939 | 233 | 227 | 16 | 34 |
| 28 | 44 | 773 | 772 | 785 | 791 | 796 | 417 | 416 | 414 | 412 | 410 | 583 | 584 | 586 | 588 | 590 | 227 | 221 | 215 | 289 | 284 | 12 | 33 |
| 97 | 48 | 726 | 802 | 806 | 814 | 820 | 410 | 409 | 407 | 485 | 404 | 520 | 521 | 593 | 525 | 596 | 284 | 128 | 192 | 188 | 188 | 8 | 32 |
| 98 | 52 | 820 | 828 | 831 | 837 | 843 | 484 | 402 | 488 | 398 | 397 | 626 | 598 | 808 | 682 | 603 | 180 | 174 | 169 | 183 | 157 | 4 | 31 |
| 99 | 36 | 843 | 849 | 855 | 860 | 866 | 327 | 395 | 393 | 392 | 390 | 603 | 605 | 687 | 888 | 610 | 157 | 151 | 145 | 148 | 134 | 6. 8 | 33 |
| 36 | 54. 0 | 9.67 868 | 872 | 878 | 684 | 820 | 9.94 398 | 388 | 388 | 385 | 383 | 0.05 610 | 612 | 614 | 615 | 617 | 3.32 134 | 128 | 122 | 116 | 110 | 56 | 29 |
| 31 | 4 | 620 | 895 | 901 | 907 | 213 | 383 | 381 | 380 | 378 | 376 | 617 | 619 | 520 | 622 | 824 | 118 | 185 | 099 | 823 | 087 | 52 | 98 |
| 32 | 8 | 913 | 919 | 924 | 930 | 236 | 376 | 374 | 373 | 371 | 369 | 624 | 628 | 627 | 822 | 631 | 087 | 861 | 876 | 078 | 064 | 48 | 27 |
| 33 | 12 | 936 | 949 | 948 | 953 | 259 | 389 | 358 | 366 | 381 | 362 | 631 | 832 | 834 | 838 | 838 | 084 | 858 | 052 | 847 | 841 | 44 | 26 |
| 34 | 16 | 959 | 965 | 271 | 977 | 282 | 362 | 381 | 359 | 357 | 355 | 638 | 639 | 641 | 643 | 545 | 811 | 835 | 029 | 023 | 318 | 5.48 | 25 |
| 35 | 54. 20 | * 982 | 988 | 294 | 888 | 086 | 9.94 355 | 354 | 352 | 358 | 349 | 3.33 645 | 646 | 648 | 650 | 651 | * 818 | 812 | 008 | 000 | 294 | 36 | 24 |
| 38 | 24 | 9.68 008 | 811 | 817 | 823 | 029 | 349 | 347 | 345 | 343 | 342 | 651 | 653 | 655 | 657 | 658 | 0.31 994 | 989 | 983 | 277 | 971 | 32 | 23 |
| 37 | 28 | 829 | 835 | 840 | 848 | 852 | 342 | 340 | 338 | 337 | 335 | 658 | 668 | 662 | 863 | 665 | 971 | 965 | 988 | 254 | 948 | 28 | 22 |
| 38 | 32 | 052 | 058 | 063 | 069 | 075 | 335 | 333 | 331 | 338 | 328 | 685 | 687 | 682 | 670 | 672 | 948 | 942 | 937 | 231 | 225 | 24 | 21 |
| 39 | 36 | 075 | 881 | 087 | 892 | 098 | 328 | 326 | 324 | 323 | 321 | 672 | 874 | 676 | 677 | 679 | 925 | 919 | 913 | 988 | 902 | 3.28 | 23 |
| 40 | 54. 40 | 9.68 098 | 104 | 110 | 115 | 121 | 9.94 321 | 319 | 318 | 316 | 314 | 0.08 679 | 881 | 882 | 684 | 686 | 0.31 209 | 826 | 820 | 885 | 879 | 18 | 19 |
| 41 | 44 | 121 | 127 | 133 | 132 | 144 | 814 | 312 | 311 | 389 | 307 | 686 | 688 | 882 | 521 | 893 | 579 | 873 | 867 | 861 | 856 | 12 | 18 |
| 42 | 48 | 144 | 150 | 156 | 182 | 167 | 307 | 305 | 384 | 382 | 300 | 623 | 895 | 626 | 698 | 788 | 858 | 868 | 844 | 838 | 833 | 6 | 17 |
| 43 | 82 | 187 | 173 | 179 | 185 | 198 | 300 | 292 | 297 | 295 | 293 | 700 | 781 | 703 | 785 | 787 | 633 | 027 | 821 | 815 | 810 | 4 | 18 |
| 44 | 56 | 198 | 198 | 202 | 288 | 213 | 293 | 292 | 298 | 288 | 286 | 707 | 788 | 710 | 712 | 714 | 610 | 804 | 798 | 722 | 787 | 5. 6 | 15 |
| 45 | 55. 0 | 9.66 213 | 219 | 225 | 231 | 237 | 9.94 286 | 285 | 283 | 281 | 279 | 0.83 714 | 715 | 717 | 719 | 721 | 8.31 787 | 781 | 775 | 769 | 763 | 36 | 14 |
| 46 | 4 | 237 | 242 | 248 | 254 | 260 | 279 | 278 | 276 | 274 | 273 | 721 | 722 | 724 | 726 | 727 | 763 | 758 | 752 | 746 | 748 | 52 | 13 |
| 47 | 8 | 268 | 285 | 271 | 277 | 283 | 273 | 271 | 289 | 287 | 266 | 727 | 722 | 731 | 733 | 734 | 748 | 735 | 722 | 723 | 718 | 48 | 12 |
| 48 | 12 | 283 | 288 | 224 | 380 | 385 | 286 | 264 | 282 | 288 | 259 | 734 | 736 | 738 | 740 | 741 | 718 | 719 | 786 | 700 | 895 | 44 | 11 |
| 49 | 16 | 305 | 311 | 317 | 323 | 328 | 259 | 257 | 255 | 253 | 252 | 741 | 743 | 745 | 747 | 748 | 695 | 689 | 683 | 877 | 672 | 4.48 | 18 |
| 50 | 55. 20 | 9.68 328 | 334 | 340 | 348 | 351 | 9.94 252 | 250 | 248 | 247 | 245 | 0.05 748 | 758 | 752 | 753 | 755 | 8.31 672 | 666 | 668 | 654 | 649 | 36 | 9 |
| 51 | 24 | 351 | 357 | 383 | 369 | 374 | 245 | 943 | 241 | 240 | 236 | 755 | 757 | 759 | 760 | 762 | 649 | 643 | 637 | 631 | 626 | 32 | 6 |
| 52 | 28 | 374 | 388 | 386 | 391 | 397 | 238 | 236 | 234 | 233 | 231 | 762 | 764 | 766 | 767 | 769 | 626 | 620 | 614 | 689 | 603 | 28 | 7 |
| 53 | 32 | 397 | 403 | 489 | 414 | 420 | 231 | 229 | 227 | 226 | 224 | 769 | 771 | 773 | 774 | 776 | 683 | 527 | 591 | 586 | 580 | 24 | 5 |
| 54 | 36 | 420 | 496 | 132 | 437 | 443 | 224 | 222 | 928 | 219 | 217 | 776 | 778 | 780 | 781 | 783 | 660 | 574 | 568 | 563 | 557 | 4. 20 | 3 |
| 55 | 35. 40 | 9.68 443 | 449 | 154 | 460 | 466 | 9.94 217 | 216 | 913 | 212 | 218 | 0.06 783 | 785 | 787 | 788 | 790 | 0.31 657 | 551 | 546 | 540 | 534 | 16 | 4 |
| 56 | 44 | 466 | 472 | 477 | 483 | 489 | 210 | 208 | 286 | 205 | 283 | 790 | 792 | 794 | 795 | 797 | 534 | 528 | 523 | 517 | 511 | 12 | 3 |
| 57 | 48 | 489 | 494 | 508 | 506 | 512 | 203 | 201 | 199 | 198 | 196 | 797 | 729 | 681 | 802 | 804 | 511 | 586 | 588 | 494 | 488 | 8 | 2 |
| 68 | 52 | 512 | 517 | 523 | 629 | 534 | 196 | 194 | 192 | 191 | 189 | 804 | 888 | 886 | 809 | 811 | 488 | 483 | 477 | 471 | 466 | 4 | 1 |
| 39 | 36 | 534 | 548 | 546 | 551 | 557 | 182 | 187 | 185 | 184 | 182 | 611 | 613 | 816 | 816 | 818 | 468 | 460 | 454 | 449 | 443 | 4. 6 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 8″ | 4° 60″ | 3° 45″ | 2° 38″ | 1° 15″ | 0° 0″ | 4° 66″ | 3° 45″ | 2° 38″ | 1° 15″ | 8° 0″ | 4° 68″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 6″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 151° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 61° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 28° / 116° | 1ʰ / 7ʰ | Verso / Coverso 0″ 0° | 15″ 1° | 36″ 2° | 45″ 3° | 60″ 4° | Coverso / Subverso 8″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | Subverso / Subcoverso 0″ 0° | 15″ 1° | 36″ 2° | 45″ 3° | 66″ 4° | Subcoverso / Verso 8″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| • | m s | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 52. 0 | 9. 76 735 | 748 | 760 | 773 | 786 | 9. 49 368 | 363 | 357 | 352 | 347 | 9. 97 961 | 386 | 379 | 379 | 378 | 9. 86 613 | 615 | 817 | 819 | 621 | 56 | 59 |
| 1 | 4 | 786 | 798 | 811 | 824 | 836 | 347 | 342 | 336 | 331 | 326 | 978 | 377 | 376 | 275 | 375 | 621 | 623 | 624 | 626 | 628 | 52 | 58 |
| 2 | 8 | 836 | 849 | 862 | 874 | 887 | 226 | 321 | 315 | 316 | 305 | 375 | 374 | 373 | 372 | 371 | 628 | 630 | 632 | 634 | 636 | 48 | 57 |
| 9 | 12 | 887 | 200 | 912 | 925 | 937 | 265 | 299 | 294 | 289 | 284 | 971 | 371 | 376 | 369 | 368 | 636 | 638 | 640 | 642 | 643 | 44 | 58 |
| 4 | 16 | 937 | 950 | 963 | 975 | 988 | 284 | 278 | 273 | 268 | 263 | 268 | 367 | 367 | 366 | 365 | 843 | 645 | 647 | 849 | 651 | 7. 40 | 55 |
| 5 | 52. 26 | * 988 | 061 | 013 | 026 | 039 | 9. 42 263 | 257 | 252 | 247 | 242 | 9. 27 265 | 364 | 363 | 363 | 362 | 9. 86 851 | 653 | 655 | 657 | 652 | 36 | 54 |
| 6 | 21 | 9. 77 039 | 051 | 064 | 076 | 089 | 242 | 236 | 231 | 226 | 221 | 262 | 361 | 380 | 360 | 359 | 659 | 661 | 662 | 664 | 666 | 92 | 53 |
| 7 | 28 | 089 | 102 | 114 | 127 | 132 | 221 | 215 | 210 | 205 | 199 | 259 | 358 | 357 | 356 | 356 | 666 | 668 | 676 | 672 | 674 | 28 | 52 |
| 8 | 22 | 139 | 152 | 165 | 177 | 190 | 199 | 194 | 189 | 184 | 178 | 256 | 355 | 354 | 353 | 352 | 674 | 676 | 678 | 672 | 681 | 24 | 51 |
| 9 | 96 | 190 | 202 | 215 | 227 | 240 | 178 | 173 | 168 | 183 | 157 | 252 | 352 | 351 | 350 | 349 | 681 | 683 | 685 | 687 | 682 | 7. 20 | 50 |
| 10 | 52. 40 | 2. 77 248 | 253 | 265 | 278 | 290 | 9. 42 157 | 152 | 147 | 141 | 136 | 9. 97 349 | 348 | 348 | 347 | 346 | 9. 86 689 | 691 | 693 | 695 | 696 | 16 | 49 |
| 11 | 44 | 290 | 303 | 316 | 328 | 341 | 136 | 131 | 126 | 120 | 115 | 246 | 345 | 344 | 344 | 343 | 696 | 698 | 700 | 702 | 784 | 12 | 48 |
| 12 | 48 | 341 | 353 | 366 | 378 | 391 | 115 | 110 | 105 | 099 | 694 | 243 | 342 | 341 | 341 | 340 | 704 | 786 | 708 | 710 | 712 | 8 | 47 |
| 13 | 59 | 391 | 404 | 416 | 429 | 441 | 694 | 089 | 083 | 078 | 673 | 340 | 339 | 338 | 337 | 337 | 712 | 713 | 715 | 717 | 719 | 4 | 46 |
| 14 | 56 | 441 | 454 | 466 | 479 | 492 | 073 | 068 | 082 | 857 | 052 | 237 | 336 | 335 | 334 | 333 | 719 | 721 | 723 | 725 | 727 | 7. 6 | 45 |
| 15 | 52. 0 | 8. 77 492 | 504 | 517 | 529 | 542 | 9. 42 052 | 046 | 041 | 636 | 630 | 9. 97 333 | 333 | 332 | 331 | 330 | 9. 86 727 | 729 | 730 | 732 | 734 | 56 | 44 |
| 16 | 4 | 542 | 554 | 567 | 579 | 592 | 030 | 025 | 020 | 615 | 069 | 236 | 329 | 329 | 328 | 327 | 734 | 736 | 738 | 740 | 742 | 52 | 43 |
| 17 | 8 | 592 | 604 | 617 | 629 | 642 | * 069 | 004 | 999 | 994 | 988 | 927 | 326 | 325 | 325 | 324 | 742 | 744 | 746 | 747 | 749 | 48 | 42 |
| 18 | 12 | 642 | 655 | 667 | 680 | 692 | 9. 41 988 | 983 | 978 | 972 | 967 | 924 | 323 | 322 | 321 | 321 | 749 | 751 | 753 | 755 | 757 | 44 | 41 |
| 19 | 16 | 692 | 765 | 717 | 730 | 742 | 967 | 962 | 957 | 951 | 946 | 321 | 320 | 319 | 318 | 317 | 757 | 759 | 761 | 763 | 764 | 6. 40 | 40 |
| 20 | 53. 20 | 8. 77 742 | 755 | 767 | 780 | 792 | 9. 41 946 | 941 | 935 | 930 | 925 | 9. 97 317 | 317 | 316 | 315 | 314 | 9. 66 764 | 766 | 768 | 770 | 772 | 96 | 39 |
| 21 | 24 | 792 | 865 | 817 | 836 | 842 | 925 | 928 | 914 | 969 | 904 | 214 | 313 | 313 | 312 | 311 | 772 | 774 | 776 | 778 | 786 | 92 | 28 |
| 22 | 28 | 842 | 855 | 867 | 880 | 892 | 904 | 898 | 893 | 888 | 882 | 211 | 310 | 309 | 309 | 308 | 780 | 781 | 783 | 765 | 787 | 28 | 37 |
| 22 | 32 | 892 | 905 | 917 | 930 | 942 | 282 | 877 | 872 | 867 | 861 | 308 | 307 | 306 | 305 | 265 | 787 | 789 | 791 | 793 | 725 | 24 | 36 |
| 24 | 36 | 942 | 955 | 987 | 980 | 992 | 861 | 856 | 851 | 845 | 840 | 285 | 304 | 383 | 302 | 301 | 795 | 796 | 798 | 806 | 802 | 6. 28 | 35 |
| 25 | 53. 40 | * 292 | 005 | 017 | 029 | 042 | 9. 41 840 | 835 | 829 | 824 | 819 | 2. 27 301 | 301 | 300 | 299 | 298 | 9. 86 802 | 804 | 806 | 808 | 810 | 16 | 34 |
| 26 | 44 | 8. 76 042 | 054 | 667 | 079 | 092 | 812 | 814 | 808 | 803 | 798 | 298 | 227 | 297 | 296 | 295 | 816 | 812 | 813 | 815 | 617 | 12 | 33 |
| 27 | 48 | 092 | 104 | 117 | 129 | 112 | 728 | 792 | 787 | 782 | 776 | 295 | 224 | 293 | 293 | 292 | 817 | 819 | 821 | 823 | 825 | 8 | 32 |
| 28 | 52 | 142 | 154 | 166 | 179 | 191 | 776 | 771 | 766 | 761 | 755 | 292 | 221 | 290 | 289 | 289 | 225 | 827 | 828 | 836 | 832 | 4 | 31 |
| 22 | 56 | 191 | 204 | 216 | 229 | 241 | 755 | 756 | 745 | 739 | 734 | 289 | 288 | 287 | 286 | 285 | 232 | 834 | 836 | 838 | 846 | 6. 0 | 38 |
| 30 | 54. 0 | 6. 72 241 | 254 | 266 | 278 | 291 | 9. 41 734 | 729 | 723 | 718 | 713 | 2. 27 285 | 285 | 284 | 283 | 282 | 9. 86 840 | 842 | 843 | 845 | 847 | 56 | 29 |
| 21 | 4 | 291 | 303 | 316 | 328 | 341 | 713 | 707 | 702 | 697 | 691 | 282 | 281 | 281 | 280 | 279 | 247 | 849 | 851 | 853 | 855 | 52 | 28 |
| 39 | 8 | 241 | 353 | 365 | 278 | 390 | 691 | 686 | 681 | 676 | 670 | 279 | 278 | 277 | 277 | 276 | 855 | 857 | 858 | 860 | 862 | 48 | 27 |
| 33 | 12 | 990 | 403 | 415 | 427 | 440 | 670 | 665 | 660 | 654 | 649 | 276 | 275 | 274 | 273 | 273 | 862 | 864 | 866 | 868 | 870 | 44 | 26 |
| 34 | 16 | 439 | 452 | 465 | 477 | 489 | 649 | 644 | 638 | 633 | 628 | 273 | 272 | 271 | 270 | 269 | 870 | 872 | 874 | 875 | 877 | 5. 46 | 25 |
| 35 | 54. 20 | 2. 78 489 | 502 | 514 | 527 | 539 | 9. 41 628 | 622 | 617 | 612 | 606 | 9. 97 269 | 269 | 268 | 267 | 266 | 9. 88 877 | 879 | 881 | 883 | 885 | 36 | 24 |
| 36 | 24 | 539 | 551 | 564 | 378 | 589 | 606 | 601 | 596 | 590 | 585 | 266 | 265 | 265 | 264 | 263 | 885 | 887 | 889 | 890 | 892 | 32 | 23 |
| 37 | 28 | 589 | 601 | 613 | 626 | 638 | 585 | 580 | 575 | 569 | 564 | 283 | 262 | 261 | 261 | 260 | 892 | 894 | 896 | 828 | 200 | 28 | 22 |
| 38 | 32 | 638 | 650 | 663 | 675 | 688 | 564 | 559 | 553 | 548 | 543 | 280 | 259 | 258 | 257 | 256 | 900 | 902 | 904 | 905 | 907 | 24 | 21 |
| 39 | 36 | 688 | 706 | 712 | 725 | 737 | 543 | 537 | 532 | 527 | 521 | 256 | 256 | 255 | 254 | 253 | 967 | 909 | 911 | 912 | 215 | 5. 20 | 26 |
| 40 | 54. 40 | 8. 78 737 | 749 | 762 | 774 | 786 | 9. 41 521 | 518 | 511 | 565 | 560 | 9. 97 253 | 252 | 252 | 251 | 250 | 9. 86 915 | 917 | 918 | 926 | 922 | 16 | 19 |
| 41 | 44 | 706 | 799 | 811 | 824 | 836 | 560 | 495 | 489 | 484 | 479 | 250 | 249 | 248 | 248 | 247 | 922 | 924 | 926 | 928 | 930 | 12 | 18 |
| 42 | 48 | 836 | 848 | 861 | 873 | 885 | 479 | 473 | 468 | 463 | 457 | 247 | 246 | 245 | 244 | 244 | 930 | 932 | 933 | 935 | 937 | 2 | 17 |
| 43 | 52 | 885 | 898 | 916 | 922 | 235 | 457 | 452 | 447 | 441 | 436 | 244 | 243 | 242 | 241 | 240 | 937 | 939 | 941 | 943 | 945 | 4 | 16 |
| 44 | 56 | 935 | 947 | 959 | 972 | 984 | 436 | 431 | 425 | 428 | 415 | 240 | 240 | 239 | 238 | 237 | 945 | 947 | 948 | 958 | 952 | 5. 0 | 15 |
| 45 | 55. 0 | * 984 | 996 | 009 | 021 | 633 | 9. 41 416 | 409 | 464 | 399 | 393 | 9. 97 237 | 236 | 235 | 235 | 234 | 9. 86 952 | 954 | 956 | 958 | 960 | 56 | 14 |
| 46 | 4 | 8. 79 033 | 645 | 058 | 676 | 082 | 393 | 388 | 383 | 377 | 372 | 234 | 233 | 232 | 231 | 231 | 960 | 962 | 963 | 965 | 287 | 52 | 13 |
| 47 | 8 | 082 | 095 | 107 | 112 | 132 | 372 | 367 | 361 | 356 | 351 | 231 | 230 | 229 | 228 | 227 | 967 | 969 | 971 | 973 | 275 | 48 | 12 |
| 48 | 12 | 132 | 144 | 156 | 169 | 181 | 351 | 345 | 316 | 335 | 329 | 227 | 227 | 226 | 225 | 224 | 275 | 976 | 978 | 986 | 282 | 44 | 11 |
| 42 | 16 | 161 | 193 | 265 | 218 | 230 | 229 | 324 | 319 | 313 | 308 | 224 | 223 | 223 | 222 | 221 | 982 | 984 | 986 | 988 | 290 | 4. 40 | 18 |
| 56 | 55. 20 | 8. 79 230 | 242 | 255 | 267 | 279 | 9. 41 308 | 302 | 297 | 292 | 286 | 9. 97 221 | 220 | 219 | 218 | 218 | 9. 86 996 | 991 | 993 | 995 | 997 | 36 | 9 |
| 51 | 24 | 279 | 291 | 301 | 316 | 328 | 286 | 281 | 276 | 270 | 265 | 218 | 217 | 216 | 215 | 214 | * 997 | 999 | 001 | 683 | 064 | 32 | 2 |
| 52 | 28 | 228 | 346 | 353 | 365 | 377 | 265 | 260 | 254 | 249 | 244 | 214 | 214 | 213 | 212 | 211 | 9. 97 804 | 006 | 008 | 610 | 812 | 28 | 7 |
| 53 | 92 | 377 | 396 | 402 | 414 | 426 | 244 | 238 | 233 | 228 | 222 | 211 | 210 | 209 | 202 | 268 | 612 | 014 | 016 | 618 | 619 | 24 | 6 |
| 54 | 96 | 426 | 439 | 451 | 463 | 475 | 222 | 217 | 212 | 206 | 281 | 208 | 207 | 206 | 205 | 235 | 019 | 021 | 023 | 625 | 827 | 4. 20 | 5 |
| 55 | 55. 40 | 8. 79 475 | 488 | 500 | 512 | 524 | 9. 41 201 | 196 | 196 | 185 | 179 | 9. 97 205 | 204 | 203 | 202 | 201 | 9. 87 627 | 029 | 031 | 032 | 034 | 16 | 4 |
| 56 | 44 | 524 | 537 | 549 | 561 | 573 | 179 | 174 | 169 | 163 | 158 | 201 | 201 | 200 | 199 | 198 | 034 | 036 | 038 | 040 | 042 | 12 | 9 |
| 57 | 48 | 573 | 585 | 598 | 616 | 622 | 158 | 153 | 147 | 142 | 137 | 198 | 197 | 196 | 196 | 195 | 042 | 044 | 045 | 047 | 649 | 8 | 2 |
| 58 | 52 | 822 | 634 | 647 | 659 | 671 | 137 | 131 | 126 | 121 | 115 | 195 | 194 | 193 | 192 | 192 | 049 | 051 | 053 | 055 | 657 | 4 | 1 |
| 52 | 56 | 671 | 683 | 695 | 708 | 720 | 115 | 110 | 104 | 099 | 094 | 192 | 191 | 190 | 189 | 188 | 057 | 658 | 060 | 862 | 064 | 4. 6 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 38″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 0″ | 4° 66″ | 3° 45″ | 2° 38′ | 1° 15″ | 8° 0″ | m s | ′ |
| | | Subverso / Coverso | | | | | Coverso / Verso | | | | | Verso / Subcoverso | | | | | Subcoverso / Subverso | | | | | 10ʰ / 4ʰ | 151° / 61° |

**Tabla XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 29° | 1h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 119° | 7h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 8s | 15″ 1s | 30″ 9s | 45″ 3s | 60″ 4s | | |
| 8 | 56. 0 | 9.68 657 | 563 | 569 | 574 | 580 | 9.94 182 | 180 | 178 | 177 | 175 | 0.05 818 | 820 | 822 | 823 | 825 | 0.31 443 | 437 | 431 | 426 | 420 | 56 | 59 |
| 1 | 4 | 580 | 586 | 591 | 597 | 603 | 175 | 173 | 171 | 170 | 168 | 825 | 827 | 829 | 830 | 832 | 420 | 414 | 409 | 403 | 397 | 52 | 58 |
| 2 | 8 | 603 | 608 | 614 | 690 | 625 | 168 | 166 | 164 | 163 | 161 | 832 | 834 | 836 | 837 | 839 | 397 | 392 | 386 | 380 | 375 | 48 | 57 |
| 3 | 12 | 625 | 631 | 637 | 642 | 648 | 161 | 169 | 157 | 156 | 154 | 839 | 841 | 843 | 844 | 846 | 375 | 369 | 363 | 358 | 352 | 44 | 56 |
| 4 | 16 | 648 | 654 | 660 | 665 | 671 | 154 | 159 | 150 | 149 | 147 | 846 | 848 | 850 | 851 | 853 | 352 | 346 | 340 | 335 | 329 | 3. 40 | 55 |
| 6 | 56. 20 | 9.68 671 | 677 | 682 | 688 | 694 | 9.94 147 | 145 | 143 | 142 | 140 | 8.05 853 | 855 | 857 | 858 | 860 | 8.31 329 | 323 | 310 | 312 | 306 | 36 | 54 |
| 6 | 94 | 691 | 699 | 705 | 711 | 716 | 140 | 138 | 136 | 135 | 133 | 860 | 862 | 864 | 865 | 867 | 306 | 301 | 295 | 289 | 284 | 32 | 53 |
| 7 | 28 | 716 | 722 | 728 | 733 | 739 | 133 | 131 | 129 | 128 | 126 | 867 | 869 | 871 | 872 | 874 | 284 | 278 | 272 | 267 | 261 | 28 | 52 |
| 8 | 32 | 739 | 746 | 760 | 756 | 762 | 126 | 124 | 122 | 120 | 119 | 874 | 876 | 878 | 880 | 881 | 961 | 265 | 250 | 244 | 238 | 24 | 51 |
| 9 | 36 | 762 | 767 | 773 | 779 | 784 | 119 | 117 | 115 | 113 | 112 | 881 | 883 | 885 | 887 | 888 | 238 | 933 | 227 | 291 | 216 | 3. 20 | 50 |
| 10 | 56. 40 | 9.68 784 | 790 | 796 | 001 | 807 | 9.94 112 | 110 | 108 | 106 | 105 | 0.05 888 | 090 | 892 | 894 | 895 | 0.31 216 | 210 | 204 | 199 | 193 | 16 | 49 |
| 11 | 44 | 867 | 813 | 818 | 824 | 829 | 105 | 103 | 101 | 099 | 098 | 895 | 897 | 899 | 901 | 902 | 193 | 187 | 182 | 176 | 171 | 12 | 48 |
| 12 | 48 | 829 | 835 | 841 | 846 | 852 | 098 | 096 | 094 | 099 | 090 | 902 | 204 | 906 | 908 | 910 | 171 | 165 | 159 | 154 | 148 | 8 | 47 |
| 13 | 59 | 852 | 858 | 863 | 869 | 875 | 890 | 089 | 087 | 685 | 083 | 910 | 911 | 913 | 915 | 917 | 148 | 142 | 137 | 131 | 125 | 4 | 46 |
| 14 | 66 | 875 | 886 | 886 | 092 | 897 | 083 | 082 | 080 | 078 | 076 | 917 | 918 | 920 | 922 | 994 | 125 | 120 | 114 | 168 | 103 | 3. 8 | 45 |
| 15 | 57. 0 | 9.68 897 | 903 | 909 | 914 | 920 | 9.94 676 | 075 | 073 | 071 | 069 | 0.05 994 | 925 | 927 | 929 | 931 | 0.31 103 | 097 | 091 | 086 | 080 | 56 | 44 |
| 16 | 4 | 920 | 925 | 931 | 937 | 942 | 069 | 068 | 066 | 064 | 062 | 931 | 932 | 934 | 236 | 938 | 080 | 075 | 069 | 063 | 058 | 62 | 43 |
| 17 | 8 | 942 | 918 | 954 | 959 | 965 | 062 | 060 | 059 | 057 | 055 | 938 | 910 | 941 | 943 | 945 | 058 | 052 | 046 | 041 | 035 | 48 | 42 |
| 18 | 12 | 965 | 970 | 976 | 989 | 987 | 055 | 053 | 059 | 050 | 048 | 945 | 947 | 948 | 950 | 952 | 036 | 030 | 024 | 018 | 013 | 44 | 41 |
| 19 | 16 | * 987 | 993 | 999 | 004 | 010 | 848 | 046 | 044 | 043 | 041 | 959 | 954 | 956 | 957 | 959 | * 013 | 007 | 001 | 996 | 990 | 2. 48 | 40 |
| 20 | 57. 20 | 9.69 010 | 015 | 021 | 027 | 032 | 9.94 041 | 039 | 037 | 036 | 034 | 0.05 959 | 961 | 963 | 964 | 966 | 8.30 990 | 985 | 279 | 973 | 268 | 36 | 39 |
| 21 | 24 | 032 | 038 | 044 | 049 | 065 | 034 | 032 | 030 | 028 | 027 | 966 | 968 | 970 | 972 | 973 | 968 | 969 | 956 | 951 | 945 | 32 | 38 |
| 22 | 28 | 055 | 060 | 066 | 079 | 077 | 027 | 025 | 093 | 021 | 020 | 973 | 975 | 977 | 979 | 980 | 915 | 940 | 234 | 928 | 923 | 28 | 37 |
| 23 | 32 | 077 | 083 | 088 | 094 | 100 | 020 | 018 | 016 | 014 | 012 | 980 | 982 | 984 | 986 | 908 | 923 | 917 | 912 | 906 | 900 | 24 | 36 |
| 24 | 36 | 100 | 105 | 111 | 116 | 129 | 012 | 011 | 069 | 007 | 005 | 988 | 989 | 991 | 993 | 995 | 900 | 895 | 882 | 884 | 870 | 9. 26 | 35 |
| 25 | 57. 40 | 9.69 192 | 198 | 133 | 139 | 144 | * 005 | 004 | 002 | 000 | 998 | * 996 | 996 | 998 | 000 | 002 | 8.30 078 | 872 | 867 | 861 | 856 | 16 | 34 |
| 26 | 44 | 144 | 150 | 156 | 161 | 167 | 9.93 998 | 996 | 996 | 993 | 991 | 8.06 009 | 684 | 005 | 007 | 009 | 856 | 850 | 844 | 839 | 833 | 12 | 33 |
| 27 | 48 | 167 | 179 | 178 | 184 | 189 | 991 | 989 | 988 | 986 | 984 | 809 | 611 | 012 | 014 | 016 | 833 | 828 | 829 | 816 | 811 | 8 | 32 |
| 23 | 62 | 189 | 195 | 200 | 906 | 919 | 984 | 982 | 980 | 979 | 977 | 016 | 018 | 020 | 091 | 023 | 811 | 805 | 800 | 794 | 788 | 4 | 31 |
| 29 | 56 | 912 | 217 | 223 | 228 | 934 | 977 | 975 | 973 | 971 | 970 | 023 | 025 | 027 | 029 | 030 | 788 | 783 | 777 | 772 | 766 | 2. 8 | 30 |
| 30 | 58. 0 | 9.69 934 | 239 | 945 | 951 | 256 | 9.93 970 | 968 | 966 | 964 | 963 | 0.06 830 | 032 | 034 | 036 | 037 | 0.30 766 | 761 | 755 | 749 | 744 | 56 | 29 |
| 31 | 4 | 256 | 262 | 967 | 273 | 279 | 963 | 961 | 959 | 957 | 955 | 837 | 039 | 041 | 043 | 045 | 744 | 738 | 733 | 727 | 721 | 62 | 28 |
| 32 | 8 | 979 | 284 | 290 | 295 | 301 | 955 | 954 | 952 | 950 | 948 | 045 | 046 | 048 | 050 | 052 | 721 | 716 | 710 | 705 | 699 | 48 | 27 |
| 33 | 12 | 301 | 300 | 312 | 318 | 323 | 948 | 946 | 945 | 943 | 941 | 059 | 054 | 055 | 057 | 059 | 699 | 694 | 688 | 682 | 677 | 44 | 26 |
| 34 | 16 | 323 | 329 | 334 | 340 | 345 | 941 | 939 | 937 | 936 | 934 | 059 | 061 | 063 | 064 | 066 | 677 | 671 | 666 | 660 | 655 | 1. 40 | 25 |
| 35 | 58. 20 | 9.69 345 | 351 | 366 | 369 | 368 | 9.93 934 | 939 | 930 | 929 | 927 | 0.06 066 | 068 | 070 | 071 | 073 | 0.38 655 | 649 | 644 | 638 | 632 | 36 | 24 |
| 36 | 24 | 368 | 373 | 379 | 384 | 390 | 927 | 925 | 993 | 921 | 920 | 873 | 075 | 077 | 879 | 080 | 632 | 627 | 621 | 616 | 610 | 39 | 93 |
| 37 | 28 | 390 | 395 | 401 | 406 | 412 | 920 | 918 | 916 | 914 | 912 | 080 | 889 | 084 | 086 | 088 | 610 | 605 | 599 | 594 | 588 | 28 | 22 |
| 38 | 32 | 412 | 418 | 423 | 429 | 434 | 912 | 911 | 909 | 907 | 905 | 088 | 089 | 091 | 093 | 095 | 580 | 582 | 577 | 571 | 566 | 24 | 21 |
| 39 | 36 | 434 | 440 | 445 | 451 | 456 | 905 | 983 | 902 | 900 | 898 | 095 | 097 | 098 | 160 | 102 | 566 | 660 | 555 | 549 | 544 | 1. 20 | 28 |
| 48 | 58. 40 | 9.69 456 | 462 | 468 | 473 | 479 | 9.93 898 | 896 | 894 | 893 | 891 | 8.06 102 | 104 | 106 | 107 | 109 | 0.30 544 | 538 | 532 | 527 | 521 | 16 | 19 |
| 41 | 44 | 479 | 184 | 490 | 495 | 501 | 891 | 889 | 887 | 886 | 884 | 109 | 111 | 113 | 115 | 116 | 521 | 616 | 510 | 505 | 499 | 12 | 18 |
| 42 | 48 | 601 | 506 | 512 | 517 | 523 | 884 | 882 | 880 | 878 | 876 | 116 | 118 | 120 | 122 | 124 | 499 | 494 | 488 | 483 | 477 | 8 | 17 |
| 43 | 59 | 623 | 528 | 534 | 539 | 545 | 876 | 875 | 873 | 871 | 869 | 124 | 126 | 127 | 199 | 131 | 477 | 472 | 466 | 461 | 455 | 4 | 16 |
| 44 | 66 | 545 | 551 | 556 | 669 | 567 | 869 | 867 | 866 | 864 | 862 | . 131 | 133 | 134 | 136 | 138 | 455 | 449 | 444 | 438 | 433 | 1. 0 | 15 |
| 45 | 59. 0 | 9.09 567 | 573 | 578 | 584 | 589 | 9.93 862 | 860 | 858 | 857 | 855 | 0.06 138 | 140 | 142 | 143 | 145 | 0.30 433 | 427 | 422 | 416 | 411 | 56 | 14 |
| 48 | 4 | 589 | 595 | 600 | 606 | 611 | 855 | 853 | 851 | 849 | 847 | 145 | 147 | 142 | 151 | 153 | 411 | 405 | 400 | 394 | 389 | 59 | 13 |
| 47 | 8 | 611 | 617 | 622 | 628 | 633 | 847 | 846 | 844 | 842 | 840 | 153 | 154 | 156 | 158 | 160 | 389 | 383 | 378 | 379 | 367 | 48 | 19 |
| 48 | 12 | 633 | 639 | 644 | 650 | 655 | 840 | 838 | 837 | 835 | 833 | 160 | 161 | 163 | 165 | 167 | 367 | 361 | 356 | 350 | 345 | 44 | 11 |
| 49 | 16 | 655 | 661 | 666 | 679 | 677 | 833 | 831 | 829 | 898 | 826 | 167 | 169 | 171 | 179 | 174 | 315 | 339 | 334 | 328 | 323 | 0. 40 | 18 |
| 50 | 59. 20 | 9.69 677 | 683 | 688 | 694 | 699 | 9.93 826 | 824 | 822 | 890 | 819 | 0.06 174 | 176 | 178 | 180 | 181 | 8.30 323 | 317 | 312 | 306 | 301 | 36 | 9 |
| 61 | 24 | 699 | 705 | 710 | 716 | 721 | 819 | 817 | 815 | 813 | 811 | 181 | 183 | 185 | 187 | 189 | 301 | 296 | 290 | 284 | 279 | 32 | 8 |
| 69 | 28 | 721 | 797 | 732 | 738 | 743 | 811 | 809 | 808 | 806 | 804 | 189 | 191 | 192 | 194 | 196 | 279 | 273 | 268 | 262 | 257 | 28 | 7 |
| 53 | 32 | 743 | 749 | 754 | 760 | 765 | 804 | 802 | 800 | 799 | 797 | 196 | 198 | 200 | 201 | 203 | 257 | 251 | 246 | 940 | 235 | 24 | 6 |
| 54 | 36 | 765 | 771 | 776 | 782 | 787 | 797 | 795 | 793 | 791 | 789 | 203 | 205 | 207 | 209 | 211 | 236 | 229 | 224 | 218 | 213 | 0. 20 | 6 |
| 55 | 59. 40 | 9.69 787 | 793 | 798 | 804 | 809 | 9.93 789 | 788 | 786 | 784 | 782 | 0.06 911 | 212 | 214 | 216 | 218 | 0.38 213 | 207 | 202 | 196 | 191 | 16 | 4 |
| 56 | 44 | 809 | 815 | 890 | 826 | 831 | 789 | 780 | 779 | 777 | 775 | 918 | 220 | 221 | 223 | 225 | 191 | 185 | 180 | 174 | 169 | 12 | 3 |
| 57 | 48 | 831 | 837 | 842 | 848 | 853 | 775 | 773 | 771 | 769 | 768 | 225 | 227 | 229 | 231 | 232 | 169 | 163 | 158 | 152 | 147 | 8 | 2 |
| 58 | 62 | 853 | 859 | 864 | 870 | 875 | 768 | 766 | 764 | 769 | 760 | 232 | 934 | 230 | 238 | 240 | 147 | 141 | 136 | 130 | 125 | 4 | 1 |
| 59 | 66 | 875 | 801 | 886 | 892 | 897 | 760 | 769 | 757 | 755 | 753 | 940 | 241 | 943 | 245 | 247 | 125 | 119 | 114 | 108 | 103 | 0. 0 | 0 |
| | | 4s 60″ | 3s 45″ | 9s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 8s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 68″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 10h | 150° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 4h | 60° |

Digitized by Google

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 29° | 1h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 119° | 7h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 6″ 6s | | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 8s | | 15″ 1s | 36″ 2s | 45″ 3s | 00″ 4s | 0″ 0s | | 16″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 6 | 56. 0 | 6. 79 | 720 | 732 | 744 | 757 | 769 | 9. 41 | 694 | 608 | 083 | 678 | 672 | 9. 97 | 188 | 167 | 187 | 166 | 185 | 9. 87 | 664 | 066 | 060 | 070 | 679 | 66 | 59 |
| 1 | 4 | | 769 | 781 | 792 | 803 | 818 | | 072 | 667 | 062 | 058 | 651 | | 185 | 184 | 183 | 183 | 189 | | ˙072 | 673 | 675 | 677 | 679 | 62 | 56 |
| 2 | 6 | | 618 | 836 | 842 | 054 | 086 | | 051 | 615 | 040 | 035 | 099 | | 102 | 181 | 100 | 179 | 178 | | 079 | 081 | 663 | 685 | 088 | 48 | 07 |
| 3 | 12 | | 666 | 879 | 891 | 903 | 915 | | 029 | 024 | 019 | 613 | 008 | | 178 | 178 | 177 | 176 | 175 | | 086 | 088 | 090 | 692 | 094 | 44 | 66 |
| 4 | 10 | | 915 | 927 | 930 | 052 | 964 | * | 068 | 003 | 997 | 992 | 980 | | 175 | 174 | 174 | 173 | 172 | | 094 | 096 | 098 | 090 | 101 | 3. 40 | 05 |
| 5 | 56. 20 | * | 064 | 976 | 988 | 000 | 012 | 9. 46 | 086 | 981 | 976 | 970 | 965 | 9. 97 | 172 | 171 | 170 | 169 | 169 | 9. 67 | 101 | 103 | 105 | 167 | 169 | 36 | 04 |
| 6 | 24 | 6. 96 | 612 | 025 | 027 | 049 | 061 | | 985 | 966 | 954 | 949 | 943 | | 169 | 168 | 107 | 166 | 165 | | 109 | 111 | 112 | 114 | 116 | 32 | 62 |
| 7 | 28 | | 081 | 073 | 685 | 098 | 110 | | 943 | 938 | 933 | 927 | 922 | | 165 | 165 | 164 | 163 | 162 | | 116 | 118 | 126 | 122 | 124 | 28 | 52 |
| 9 | 32 | | 116 | 122 | 134 | 146 | 158 | | 929 | 917 | 911 | 906 | 900 | | 162 | 161 | 160 | 180 | 109 | | 124 | 125 | 127 | 120 | 131 | 24 | 61 |
| 9 | 36 | | 158 | 171 | 103 | 195 | 267 | | 900 | 895 | 896 | 884 | 879 | | 159 | 158 | 157 | 156 | 150 | | 131 | 133 | 135 | 137 | 138 | 3. 26 | 00 |
| 10 | 58. 40 | 8. 80 | 207 | 219 | 221 | 242 | 255 | 9. 46 | 879 | 874 | 868 | 863 | 857 | 9. 97 | 156 | 155 | 154 | 153 | 152 | 9. 67 | 138 | 140 | 142 | 144 | 146 | 16 | 49 |
| 11 | 44 | | 255 | 268 | 280 | 292 | 364 | | 857 | 852 | 847 | 841 | 836 | | 152 | 151 | 150 | 156 | 149 | | 146 | 148 | 149 | 151 | 153 | 12 | 48 |
| 12 | 46 | | 204 | 310 | 328 | 346 | 352 | | 836 | 836 | 825 | 820 | 814 | | 149 | 148 | 147 | 146 | 145 | | 153 | 155 | 157 | 159 | 161 | 8 | 47 |
| 13 | 52 | | 352 | 365 | 377 | 389 | 401 | | 814 | 869 | 804 | 798 | 793 | | 145 | 145 | 144 | 143 | 142 | | 161 | 162 | 184 | 166 | 168 | 4 | 46 |
| 14 | 56 | | 461 | 413 | 425 | 437 | 449 | | 793 | 787 | 782 | 777 | 771 | | 142 | 142 | 141 | 146 | 139 | | 168 | 170 | 172 | 174 | 175 | 3. 0 | 45 |
| 10 | 57. 0 | 8. 96 | 449 | 481 | 474 | 486 | 498 | 9. 46 | 771 | 766 | 760 | 755 | 750 | 9. 97 | 139 | 138 | 137 | 137 | 136 | 9. 87 | 175 | 177 | 179 | 181 | 183 | 56 | 44 |
| 16 | 4 | | 498 | 510 | 522 | 534 | 546 | | 756 | 744 | 739 | 734 | 728 | | 136 | 135 | 134 | 133 | 132 | | 183 | 185 | 187 | 188 | 196 | 52 | 43 |
| 17 | 6 | | 046 | 558 | 570 | 582 | 594 | | 728 | 722 | 717 | 712 | 767 | | 132 | 132 | 131 | 136 | 129 | | 190 | 192 | 194 | 196 | 190 | 48 | 42 |
| 19 | 12 | | 694 | 667 | 619 | 831 | 643 | | 707 | 701 | 898 | 690 | 685 | | 129 | 120 | 128 | 127 | 126 | | 198 | 199 | 201 | 203 | 265 | 44 | 41 |
| 19 | 16 | | 643 | 655 | 887 | 679 | 691 | | 885 | 680 | 874 | 689 | 663 | | 128 | 125 | 124 | 123 | 123 | | 205 | 207 | 209 | 211 | 212 | 2. 40 | 40 |
| 26 | 57. 20 | 8. 96 | 891 | 703 | 715 | 727 | 739 | 9. 40 | 663 | 658 | 653 | 647 | 649 | 0. 97 | 123 | 122 | 121 | 120 | 119 | 9. 87 | 212 | 214 | 216 | 218 | 226 | 36 | 39 |
| 21 | 24 | | 730 | 761 | 763 | 770 | 768 | | 642 | 836 | 631 | 626 | 020 | | 119 | 118 | 118 | 117 | 116 | | 226 | 222 | 223 | 225 | 227 | 32 | 38 |
| 22 | 28 | | 788 | 866 | 012 | 824 | 836 | | 620 | 615 | 809 | 664 | 599 | | 116 | 115 | 114 | 113 | 113 | | 227 | 229 | 231 | 233 | 235 | 28 | 37 |
| 23 | 32 | | 638 | 848 | 860 | 872 | 884 | | 599 | 593 | 508 | 582 | 577 | | 113 | 112 | 111 | 116 | 109 | | 235 | 236 | 238 | 240 | 242 | 24 | 36 |
| 24 | 26 | | 884 | 896 | 908 | 920 | 932 | | 677 | 572 | 588 | 561 | 555 | | 169 | 169 | 108 | 107 | 166 | | 242 | 244 | 246 | 247 | 249 | 2. 26 | 35 |
| 25 | 57. 40 | 8. 80 | 932 | 944 | 950 | 968 | 980 | 9. 40 | 555 | 550 | 545 | 539 | 534 | 9. 97 | 106 | 165 | 164 | 104 | 163 | 9. 67 | 249 | 251 | 253 | 255 | 257 | 16 | 34 |
| 26 | 44 | * | 980 | 992 | 004 | 016 | 628 | | 534 | 528 | 523 | 518 | 512 | | 103 | 102 | 161 | 166 | 099 | | 257 | 259 | 260 | 262 | 264 | 12 | 33 |
| 27 | 48 | 8. 81 | 628 | 040 | 052 | 004 | 676 | | 612 | 507 | 501 | 490 | 496 | | 099 | 698 | 698 | 697 | 096 | | 264 | 266 | 268 | 276 | 271 | 0 | 32 |
| 28 | 52 | | 676 | 008 | 100 | 112 | 194 | | 496 | 485 | 479 | 474 | 469 | | 696 | 005 | 694 | 094 | 093 | | 271 | 273 | 276 | 277 | 279 | 4 | 31 |
| 29 | 56 | | 124 | 136 | 148 | 160 | 172 | | 469 | 463 | 458 | 453 | 447 | | 093 | 692 | 091 | 090 | 089 | | 279 | 981 | 283 | 284 | 286 | 2. 0 | 30 |
| 30 | 58. 0 | 8. 81 | 172 | 184 | 106 | 208 | 220 | 9. 40 | 447 | 442 | 430 | 431 | 425 | 9. 97 | 089 | 089 | 088 | 087 | 086 | 9. 07 | 286 | 288 | 290 | 292 | 294 | 56 | 29 |
| 31 | 4 | | 220 | 232 | 244 | 256 | 288 | | 425 | 420 | 415 | 469 | 464 | | 086 | 685 | 084 | 081 | 083 | | 294 | 296 | 297 | 299 | 301 | 62 | 28 |
| 32 | 0 | | 268 | 280 | 292 | 304 | 310 | | 404 | 398 | 393 | 388 | 382 | | 683 | 082 | 081 | 080 | 079 | | 301 | 363 | 305 | 306 | 308 | 48 | 27 |
| 33 | 12 | | 316 | 328 | 340 | 352 | 364 | | 382 | 377 | 371 | 366 | 360 | | 079 | 079 | 078 | 077 | 076 | | 308 | 310 | 312 | 314 | 316 | 44 | 26 |
| 34 | 18 | | 364 | 378 | 388 | 400 | 412 | | 660 | 355 | 350 | 344 | 339 | | 676 | 075 | 074 | 074 | 073 | | 316 | 317 | 319 | 321 | 322 | 1. 46 | 25 |
| 35 | 56. 20 | 8. 61 | 412 | 424 | 436 | 448 | 460 | 9. 40 | 339 | 333 | 328 | 322 | 317 | 9. 97 | 073 | 072 | 071 | 070 | 069 | 9. 87 | 323 | 325 | 327 | 329 | 330 | 36 | 24 |
| 36 | 24 | | 460 | 472 | 484 | 496 | 508 | | 317 | 312 | 366 | 361 | 205 | | 069 | 669 | 068 | 067 | 066 | | 330 | 332 | 334 | 336 | 338 | 32 | 23 |
| 37 | 20 | | 608 | 519 | 531 | 543 | 555 | | 295 | 296 | 284 | 279 | 274 | | 066 | 065 | 064 | 064 | 663 | | 338 | 340 | 341 | 343 | 345 | 28 | 22 |
| 38 | 32 | | 555 | 567 | 579 | 091 | 603 | | 274 | 288 | 263 | 257 | 252 | | 063 | 662 | 061 | 060 | 659 | | 345 | 347 | 349 | 351 | 352 | 24 | 21 |
| 39 | 36 | | 603 | 615 | 627 | 839 | 661 | | 252 | 246 | 241 | 236 | 230 | | 059 | 058 | 058 | 057 | 056 | | 352 | 354 | 356 | 358 | 360 | 1. 20 | 20 |
| 40 | 58. 40 | 8. 81 | 651 | 663 | 675 | 687 | 698 | 9. 40 | 230 | 225 | 219 | 214 | 208 | 9. 97 | 056 | 055 | 054 | 054 | 053 | 9. 67 | 360 | 362 | 363 | 365 | 367 | 16 | 19 |
| 41 | 44 | | 698 | 710 | 722 | 734 | 746 | | 268 | 203 | 197 | 192 | 187 | | 653 | 052 | 051 | 050 | 049 | | 367 | 369 | 371 | 373 | 374 | 12 | 18 |
| 42 | 48 | | 740 | 758 | 770 | 782 | 794 | | 187 | 181 | 176 | 170 | 165 | | 649 | 049 | 048 | 047 | 646 | | 374 | 376 | 378 | 380 | 382 | 6 | 17 |
| 43 | 52 | | 794 | 808 | 818 | 829 | 841 | | 165 | 159 | 154 | 149 | 143 | | 646 | 045 | 044 | 043 | 643 | | 382 | 384 | 385 | 387 | 389 | 4 | 16 |
| 44 | 56 | | 641 | 653 | 865 | 877 | 889 | | 143 | 138 | 132 | 127 | 191 | | 043 | 042 | 041 | 040 | 639 | | 382 | 391 | 392 | 395 | 396 | 1. 0 | 15 |
| 45 | 59. 0 | 6. 61 | 889 | 901 | 913 | 925 | 936 | 9. 40 | 121 | 116 | 110 | 105 | 100 | 9. 97 | 039 | 038 | 038 | 037 | 036 | 9. 87 | 390 | 398 | 400 | 402 | 404 | 66 | 14 |
| 46 | 4 | | 938 | 040 | 980 | 972 | 984 | | 100 | 094 | 089 | 083 | 078 | | 036 | 035 | 034 | 033 | 633 | | 404 | 466 | 407 | 469 | 411 | 52 | 13 |
| 47 | 8 | * | 984 | 096 | 008 | 020 | 031 | | 078 | 072 | 067 | 061 | 056 | | 033 | 632 | 031 | 630 | 029 | | 411 | 413 | 415 | 417 | 418 | 48 | 12 |
| 46 | 12 | 9. 82 | 031 | 043 | 055 | 087 | 079 | | 056 | 051 | 045 | 040 | 035 | | 029 | 028 | 028 | 027 | 026 | | 418 | 420 | 422 | 424 | 426 | 44 | 11 |
| 49 | 16 | | 079 | 091 | 103 | 115 | 126 | | 634 | 029 | 023 | 018 | 012 | | 026 | 625 | 024 | 623 | 022 | | 426 | 428 | 429 | 431 | 433 | 0. 40 | 10 |
| 60 | 59. 20 | 6. 02 | 126 | 138 | 150 | 162 | 174 | * | 612 | 007 | 002 | 996 | 991 | 9. 97 | 022 | 022 | 021 | 020 | 019 | 9. 67 | 432 | 435 | 437 | 439 | 440 | 36 | 9 |
| 91 | 24 | | 174 | 186 | 197 | 269 | 221 | 9. 39 | 991 | 985 | 980 | 974 | 969 | | 019 | 018 | 017 | 017 | 016 | | 440 | 442 | 444 | 446 | 448 | 32 | 6 |
| 62 | 28 | | 221 | 233 | 245 | 257 | 269 | | 969 | 963 | 958 | 952 | 947 | | 616 | 015 | 014 | 013 | 012 | | 448 | 450 | 451 | 453 | 455 | 28 | 7 |
| 63 | 32 | | 269 | 280 | 292 | 364 | 316 | | 947 | 942 | 936 | 931 | 925 | | 012 | 012 | 611 | 016 | 009 | | 455 | 457 | 459 | 466 | 462 | 24 | 6 |
| 54 | 36 | | 316 | 328 | 340 | 351 | 363 | | 925 | 920 | 914 | 909 | 903 | | 009 | 008 | 067 | 606 | 066 | | 462 | 484 | 466 | 468 | 470 | 9. 20 | 5 |
| 65 | 59. 40 | 6. 82 | 362 | 375 | 387 | 399 | 410 | 9. 39 | 903 | 898 | 892 | 887 | 881 | 9. 97 | 606 | 605 | 604 | 003 | 002 | 9. 67 | 476 | 471 | 473 | 476 | 477 | 16 | 4 |
| 56 | 44 | | 410 | 422 | 434 | 446 | 458 | | 681 | 876 | 871 | 865 | 860 | * | 602 | 001 | 001 | 006 | 999 | | 477 | 479 | 481 | 482 | 484 | 12 | 3 |
| 97 | 48 | | 458 | 469 | 481 | 493 | 505 | | 860 | 854 | 849 | 843 | 838 | 9. 96 | 999 | 998 | 997 | 996 | 996 | | 484 | 486 | 489 | 490 | 492 | 8 | 2 |
| 98 | 62 | | 665 | 517 | 528 | 540 | 552 | | 838 | 832 | 827 | 821 | 816 | | 996 | 995 | 994 | 993 | 992 | | 492 | 493 | 495 | 497 | 499 | 4 | 1 |
| 99 | 66 | | 502 | 564 | 576 | 587 | 599 | | 816 | 810 | 805 | 799 | 794 | | 992 | 991 | 996 | 990 | 989 | | 499 | 501 | 502 | 604 | 506 | 0. 6 | 0 |
| | | 4s 86″ | | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | | 3s 40″ | 2s 30″ | 1s 10″ | 0s 0″ | 4s 60″ | | 3s 45″ | 2s 30″ | 1s 15″ | 0s 6″ | 4s 60″ | | 3s 45″ | 2s 30″ | 1s 16″ | 0s 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 10h | 150° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 4h | 60° |

Digitized by Google

**TABLA XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 30° | 2h | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120° | 8h | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | | |
| ′ | m s | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 50″ 4° | | 0″ 0° | 10″ 1° | 30″ 2° | 45″ 3° | 00″ 4° | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 00″ 4° | | |
| 2 | 0. 0 | 9.69 | 697 | 902 | 908 | 913 | 919 | 9.93 | 703 | 751 | 749 | 748 | 746 | 0.26 | 247 | 249 | 251 | 252 | 254 | 2.30 | 103 | 098 | 092 | 007 | 081 | 06 | 50 |
| 1 | 4 | | 919 | 994 | 930 | 235 | 941 | | 746 | 744 | 742 | 740 | 738 | | 254 | 256 | 258 | 260 | 252 | | 081 | 070 | 070 | 060 | 059 | 02 | 58 |
| 2 | 8 | | 941 | 940 | 952 | 957 | 963 | | 738 | 737 | 735 | 733 | 731 | | 259 | 263 | 905 | 267 | 269 | | 859 | 054 | 048 | 043 | 037 | 48 | 57 |
| 3 | 12 | | 963 | 968 | 973 | 979 | 984 | | 731 | 729 | 728 | 726 | 724 | | 269 | 271 | 272 | 274 | 275 | | 037 | 032 | 027 | 021 | 016 | 44 | 56 |
| 4 | 16 | * | 984 | 990 | 995 | 001 | 006 | | 724 | 792 | 720 | 718 | 717 | | 276 | 278 | 280 | 282 | 283 | * | 816 | 010 | 005 | 999 | 994 | 60. 40 | 55 |
| 6 | 0. 20 | 2.70 | 806 | 012 | 817 | 093 | 028 | 9.03 | 717 | 715 | 713 | 711 | 709 | 0.00 | 283 | 985 | 287 | 289 | 291 | 0.20 | 094 | 988 | 983 | 977 | 972 | 36 | 54 |
| 6 | 24 | | 828 | 033 | 839 | 044 | 050 | | 709 | 707 | 706 | 704 | 702 | | 291 | 293 | 294 | 296 | 298 | | 972 | 267 | 961 | 056 | 050 | 32 | 03 |
| 7 | 28 | | 050 | 055 | 861 | 066 | 072 | | 782 | 700 | 098 | 696 | 695 | | 298 | 300 | 302 | 304 | 305 | | 950 | 945 | 939 | 934 | 928 | 28 | 02 |
| 0 | 32 | | 079 | 077 | 082 | 088 | 093 | | 095 | 693 | 691 | 089 | 087 | | 305 | 307 | 389 | 311 | 313 | | 028 | 923 | 910 | 012 | 907 | 24 | 51 |
| 9 | 36 | | 093 | 099 | 104 | 110 | 115 | | 687 | 685 | 604 | 682 | 680 | | 313 | 315 | 316 | 318 | 320 | | 907 | 901 | 806 | 890 | 885 | 52. 20 | 50 |
| 10 | 0. 40 | 0.70 | 115 | 121 | 126 | 131 | 137 | 9.93 | 080 | 078 | 076 | 674 | 073 | 0.06 | 390 | 322 | 324 | 326 | 327 | 0.20 | 805 | 879 | 874 | 809 | 863 | 10 | 42 |
| 11 | 44 | | 137 | 142 | 148 | 153 | 159 | | 673 | 671 | 069 | 667 | 665 | | 327 | 329 | 331 | 333 | 335 | | 003 | 808 | 852 | 847 | 841 | 12 | 48 |
| 19 | 48 | | 159 | 164 | 109 | 175 | 100 | | 665 | 663 | 662 | 660 | 658 | | 335 | 337 | 338 | 348 | 342 | | 841 | 836 | 831 | 025 | 820 | 8 | 47 |
| 13 | 52 | | 180 | 185 | 191 | 196 | 202 | | 658 | 656 | 654 | 652 | 050 | | 342 | 344 | 346 | 348 | 350 | | 820 | 814 | 809 | 804 | 798 | 4 | 46 |
| 14 | 56 | | 902 | 287 | 213 | 218 | 924 | | 650 | 640 | 647 | 015 | 643 | | 350 | 351 | 353 | 355 | 357 | | 700 | 793 | 787 | 782 | 776 | 59. 0 | 45 |
| 15 | 1. 0 | 0.70 | 294 | 299 | 234 | 240 | 245 | 9.93 | 643 | 641 | 539 | 030 | 536 | 8.06 | 357 | 359 | 361 | 362 | 364 | 0.29 | 776 | 771 | 766 | 760 | 755 | 50 | 44 |
| 10 | 4 | | 245 | 251 | 256 | 201 | 267 | | 636 | 634 | 632 | 630 | 628 | | 364 | 360 | 368 | 378 | 372 | | 755 | 749 | 744 | 739 | 733 | 02 | 43 |
| 17 | 8 | | 267 | 272 | 278 | 283 | 288 | | 628 | 627 | 525 | 623 | 621 | | 372 | 373 | 375 | 377 | 379 | | 733 | 728 | 722 | 717 | 712 | 48 | 42 |
| 10 | 12 | | 288 | 294 | 299 | 385 | 310 | | 621 | 019 | 617 | 615 | 614 | | 379 | 381 | 383 | 385 | 385 | | 712 | 786 | 701 | 625 | 090 | 44 | 41 |
| 19 | 16 | | 310 | 316 | 321 | 326 | 332 | | 614 | 612 | 610 | 088 | 606 | | 386 | 388 | 390 | 392 | 394 | | 690 | 084 | 079 | 074 | 608 | 58. 40 | 40 |
| 20 | 1. 20 | 9.70 | 332 | 337 | 343 | 348 | 353 | 9.93 | 606 | 604 | 503 | 501 | 599 | 0.06 | 394 | 396 | 397 | 399 | 401 | 0.99 | 050 | 653 | 657 | 059 | 647 | 30 | 39 |
| 21 | 24 | | 353 | 359 | 304 | 369 | 375 | | 599 | 597 | 595 | 593 | 591 | | 401 | 403 | 405 | 407 | 409 | | 647 | 641 | 030 | 631 | 025 | 32 | 38 |
| 99 | 28 | | 375 | 380 | 386 | 391 | 396 | | 091 | 590 | 508 | 586 | 584 | | 409 | 410 | 412 | 414 | 416 | | 025 | 620 | 014 | 609 | 604 | 28 | 37 |
| 93 | 32 | | 390 | 402 | 407 | 413 | 418 | | 084 | 589 | 500 | 578 | 577 | | 416 | 418 | 420 | 422 | 423 | | 604 | 598 | 503 | 587 | 502 | 24 | 36 |
| 94 | 36 | | 418 | 423 | 429 | 434 | 439 | | 077 | 575 | 573 | 571 | 569 | | 423 | 425 | 427 | 429 | 431 | | 582 | 577 | 571 | 560 | 561 | 58. 20 | 35 |
| 95 | 1. 40 | 0.78 | 439 | 445 | 450 | 456 | 461 | 9.23 | 569 | 507 | 505 | 564 | 562 | 0.08 | 431 | 433 | 435 | 430 | 438 | 0.29 | 561 | 555 | 550 | 544 | 539 | 16 | 34 |
| 96 | 44 | | 461 | 466 | 472 | 477 | 482 | | 562 | 560 | 558 | 556 | 554 | | 438 | 440 | 442 | 444 | 446 | | 539 | 534 | 028 | 523 | 618 | 12 | 33 |
| 27 | 48 | | 482 | 488 | 493 | 499 | 504 | | 054 | 559 | 551 | 549 | 547 | | 445 | 448 | 449 | 451 | 453 | | 518 | 512 | 507 | 501 | 495 | 8 | 32 |
| 28 | 09 | | 504 | 509 | 515 | 520 | 525 | | 047 | 046 | 543 | 541 | 539 | | 463 | 455 | 457 | 459 | 461 | | 490 | 401 | 405 | 480 | 470 | 4 | 31 |
| 29 | 06 | | 525 | 531 | 036 | 549 | 547 | | 539 | 038 | 536 | 534 | 532 | | 461 | 462 | 464 | 466 | 468 | | 470 | 469 | 464 | 458 | 453 | 58. 0 | 30 |
| 30 | 2. 0 | 9.70 | 547 | 552 | 068 | 563 | 508 | 9.93 | 532 | 530 | 528 | 596 | 525 | 0.06 | 468 | 470 | 472 | 474 | 475 | 0.29 | 453 | 448 | 442 | 137 | 432 | 56 | 20 |
| 31 | 4 | | 668 | 574 | 079 | 504 | 590 | | 025 | 523 | 521 | 519 | 517 | | 475 | 477 | 479 | 481 | 483 | | 432 | 420 | 421 | 416 | 410 | 02 | 20 |
| 32 | 8 | | 590 | 595 | 000 | 606 | 611 | | 517 | 515 | 513 | 512 | 510 | | 403 | 485 | 487 | 488 | 490 | | 410 | 405 | 480 | 394 | 389 | 48 | 27 |
| 33 | 12 | | 611 | 617 | 622 | 627 | 633 | | 010 | 508 | 586 | 504 | 509 | | 490 | 499 | 494 | 496 | 498 | | 389 | 383 | 378 | 373 | 367 | 44 | 26 |
| 34 | 16 | | 633 | 630 | 643 | 649 | 554 | | 502 | 500 | 499 | 497 | 495 | | 498 | 500 | 501 | 503 | 505 | | 367 | 362 | 357 | 351 | 345 | 07. 40 | 90 |
| 35 | 9. 20 | 0.70 | 654 | 659 | 665 | 670 | 675 | 9.93 | 495 | 493 | 491 | 489 | 487 | 0.06 | 505 | 507 | 509 | 511 | 613 | 0.29 | 345 | 341 | 336 | 338 | 325 | 30 | 24 |
| 36 | 24 | | 675 | 681 | 686 | 691 | 697 | | 487 | 485 | 404 | 482 | 480 | | 513 | 510 | 610 | 518 | 590 | | 325 | 319 | 314 | 309 | 383 | 32 | 23 |
| 37 | 28 | | 697 | 709 | 707 | 713 | 718 | | 480 | 470 | 476 | 474 | 472 | | 520 | 522 | 524 | 526 | 528 | | 303 | 298 | 293 | 287 | 982 | 28 | 22 |
| 38 | 39 | | 713 | 723 | 729 | 734 | 739 | | 472 | 478 | 469 | 467 | 465 | | 528 | 530 | 531 | 533 | 535 | | 282 | 277 | 271 | 260 | 261 | 24 | 21 |
| 39 | 36 | | 739 | 745 | 700 | 755 | 701 | | 465 | 463 | 401 | 459 | 457 | | 035 | 537 | 639 | 541 | 543 | | 261 | 255 | 250 | 245 | 239 | 57. 20 | 20 |
| 40 | 2. 40 | 9.70 | 701 | 766 | 771 | 777 | 782 | 2.03 | 457 | 456 | 454 | 452 | 450 | 2.06 | 643 | 544 | 546 | 048 | 550 | 0.29 | 239 | 234 | 229 | 223 | 918 | 15 | 10 |
| 41 | 44 | | 782 | 787 | 703 | 798 | 803 | | 450 | 448 | 446 | 444 | 442 | | 050 | 552 | 554 | 056 | 558 | | 218 | 213 | 207 | 202 | 197 | 12 | 18 |
| 49 | 48 | | 803 | 009 | 814 | 819 | 825 | | 442 | 441 | 439 | 437 | 435 | | 558 | 569 | 501 | 663 | 565 | | 197 | 191 | 186 | 181 | 176 | 8 | 17 |
| 43 | 52 | | 825 | 830 | 836 | 840 | 846 | | 435 | 433 | 431 | 429 | 427 | | 965 | 567 | 000 | 571 | 573 | | 176 | 170 | 105 | 160 | 154 | 4 | 16 |
| 44 | 56 | | 846 | 051 | 856 | 852 | 867 | | 427 | 490 | 424 | 422 | 420 | | 073 | 575 | 576 | 578 | 580 | | 154 | 149 | 144 | 138 | 133 | 57. 0 | 10 |
| 45 | 3. 0 | 9.70 | 007 | 872 | 878 | 883 | 888 | 9.93 | 420 | 418 | 416 | 414 | 412 | 0.06 | 580 | 582 | 584 | 536 | 588 | 0.29 | 133 | 128 | 122 | 117 | 112 | 55 | 14 |
| 46 | 4 | | 888 | 894 | 899 | 904 | 909 | | 412 | 410 | 400 | 407 | 405 | | 588 | 090 | 591 | 593 | 595 | | 112 | 100 | 101 | 096 | 091 | 02 | 13 |
| 47 | 8 | | 909 | 915 | 920 | 925 | 931 | | 405 | 403 | 401 | 399 | 397 | | 025 | 597 | 599 | 601 | 603 | | 091 | 005 | 000 | 070 | 069 | 48 | 12 |
| 40 | 12 | | 931 | 036 | 941 | 947 | 952 | | 397 | 395 | 394 | 392 | 398 | | 603 | 685 | 006 | 008 | 610 | | 050 | 064 | 859 | 063 | 048 | 44 | 11 |
| 49 | 10 | | 052 | 957 | 962 | 968 | 973 | | 390 | 388 | 386 | 384 | 382 | | 010 | 012 | 614 | 016 | 618 | | 848 | 843 | 038 | 039 | 027 | 56. 40 | 12 |
| 50 | 3. 20 | 9.70 | 073 | 978 | 984 | 989 | 994 | 0.93 | 382 | 300 | 370 | 377 | 375 | 2.06 | 010 | 620 | 621 | 523 | 025 | 0.29 | 027 | 029 | 016 | 011 | 006 | 36 | 2 |
| 01 | 24 | * | 994 | 999 | 006 | 010 | 015 | | 375 | 373 | 371 | 369 | 307 | | 020 | 527 | 029 | 631 | 033 | * | 005 | 081 | 995 | 990 | 985 | 32 | 2 |
| 52 | 28 | 2.71 | 015 | 021 | 026 | 031 | 036 | | 367 | 365 | 363 | 301 | 300 | | 033 | 635 | 037 | 639 | 640 | 2.28 | 905 | 979 | 974 | 909 | 904 | 28 | 7 |
| 53 | 32 | | 030 | 042 | 047 | 052 | 058 | | 360 | 358 | 356 | 354 | 359 | | 640 | 642 | 044 | 646 | 648 | | 964 | 950 | 903 | 040 | 942 | 24 | 6 |
| 54 | 36 | | 058 | 063 | 068 | 073 | 079 | | 359 | 350 | 348 | 346 | 344 | | 648 | 650 | 602 | 654 | 656 | | 942 | 937 | 932 | 927 | 221 | 66. 20 | 5 |
| 55 | 3. 40 | 9.71 | 079 | 084 | 009 | 094 | 100 | 9.93 | 344 | 343 | 341 | 339 | 337 | 9.06 | 555 | 057 | 559 | 601 | 603 | 0.98 | 021 | 910 | 911 | 906 | 900 | 16 | 4 |
| 06 | 44 | | 100 | 105 | 110 | 116 | 121 | | 337 | 336 | 333 | 331 | 329 | | 003 | 665 | 667 | 669 | 571 | | 980 | 895 | 890 | 884 | 879 | 12 | 3 |
| 57 | 48 | | 121 | 126 | 131 | 137 | 142 | | 329 | 327 | 396 | 324 | 322 | | 671 | 673 | 674 | 676 | 678 | | 079 | 874 | 869 | 863 | 858 | 0 | 2 |
| 53 | 02 | | 142 | 147 | 152 | 158 | 163 | | 392 | 320 | 318 | 310 | 314 | | 678 | 680 | 602 | 084 | 686 | | 858 | 853 | 848 | 842 | 837 | 4 | 1 |
| 00 | 06 | | 163 | 168 | 173 | 179 | 184 | | 314 | 312 | 310 | 300 | 307 | | 686 | 688 | 090 | 692 | 693 | | 837 | 032 | 827 | 821 | 816 | 56. 0 | 2 |
| | | | 4° 60″ | 3° 40″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | | Coseno | | | | | | Secante | | | | | | Cosecante | | | | | | 0h | 149° |
| | | Coseno | | | | | | Seno | | | | | | Cosecante | | | | | | Secante | | | | | | 3h | 59° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 30° | 2m | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| " | m s | 0" 8s | | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 8s | | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | | 15" 1s | 30" 2s | 45" 3s | 60" 4s | | |
| 0 | 0. 8 | 8.82 | 599 | 611 | 623 | 635 | 646 | 9.39 | 794 | 789 | 783 | 778 | 772 | 9.96 | 989 | 988 | 987 | 986 | 985 | 0.87 | 506 | 508 | 510 | 512 | 513 | 56 | 69 |
| 1 | 4 | | 646 | 658 | 670 | 682 | 693 | | 772 | 767 | 761 | 756 | 750 | | 985 | 985 | 984 | 983 | 982 | | 513 | 515 | 517 | 519 | 521 | 62 | 58 |
| 2 | 8 | | 693 | 705 | 717 | 729 | 741 | | 750 | 745 | 739 | 734 | 728 | | 982 | 981 | 980 | 979 | 979 | | 521 | 523 | 524 | 526 | 528 | 48 | 67 |
| 3 | 12 | | 741 | 752 | 764 | 776 | 788 | | 728 | 723 | 717 | 712 | 706 | | 979 | 978 | 977 | 976 | 975 | | 528 | 530 | 532 | 633 | 535 | 44 | 66 |
| 4 | 16 | | 788 | 799 | 811 | 823 | 835 | | 706 | 701 | 695 | 690 | 684 | | 975 | 974 | 973 | 973 | 972 | | 535 | 537 | 539 | 541 | 543 | 59. 40 | 55 |
| 5 | 0. 20 | 8.82 | 835 | 846 | 858 | 870 | 882 | 9.39 | 684 | 679 | 674 | 668 | 663 | 9.96 | 972 | 971 | 970 | 969 | 968 | 0.87 | 543 | 544 | 546 | 548 | 550 | 36 | 54 |
| 6 | 24 | | 882 | 893 | 905 | 917 | 929 | | 663 | 657 | 652 | 646 | 641 | | 968 | 968 | 967 | 966 | 965 | | 550 | 552 | 553 | 555 | 557 | 32 | 53 |
| 7 | 28 | | 929 | 940 | 952 | 964 | 976 | | 641 | 635 | 630 | 624 | 619 | | 965 | 964 | 963 | 962 | 962 | | 557 | 559 | 561 | 563 | 564 | 28 | 52 |
| 8 | 32 | * | 076 | 987 | 999 | 011 | 022 | | 619 | 613 | 608 | 602 | 597 | | 962 | 961 | 960 | 959 | 958 | | 564 | 566 | 568 | 570 | 572 | 24 | 61 |
| 9 | 36 | 8.83 | 022 | 034 | 046 | 057 | 069 | | 597 | 591 | 586 | 580 | 575 | | 958 | 967 | 956 | 956 | 955 | | 572 | 573 | 575 | 577 | 579 | 59. 28 | 50 |
| 10 | 0. 40 | 8.83 | 069 | 081 | 093 | 104 | 116 | 9.39 | 575 | 569 | 564 | 558 | 553 | 9.96 | 055 | 954 | 953 | 952 | 951 | 9.87 | 579 | 581 | 583 | 584 | 586 | 16 | 49 |
| 11 | 44 | | 116 | 128 | 140 | 152 | 163 | | 553 | 547 | 542 | 536 | 531 | | 951 | 951 | 950 | 949 | 948 | | 586 | 588 | 590 | 592 | 593 | 12 | 48 |
| 12 | 48 | | 163 | 175 | 187 | 198 | 210 | | 631 | 525 | 520 | 514 | 509 | | 948 | 947 | 946 | 945 | 945 | | 593 | 595 | 597 | 599 | 601 | 8 | 47 |
| 13 | 52 | | 210 | 222 | 233 | 245 | 257 | | 509 | 503 | 498 | 492 | 487 | | 945 | 944 | 943 | 942 | 941 | | 601 | 603 | 604 | 606 | 608 | 4 | 46 |
| 14 | 56 | | 257 | 268 | 280 | 292 | 303 | | 487 | 481 | 476 | 470 | 465 | | 941 | 940 | 939 | 939 | 938 | | 608 | 610 | 612 | 613 | 615 | 59. 0 | 45 |
| 15 | 1. 0 | 8.83 | 303 | 315 | 327 | 338 | 350 | 9.39 | 465 | 459 | 454 | 448 | 443 | 9.96 | 038 | 937 | 936 | 935 | 934 | 9.87 | 615 | 617 | 619 | 621 | 623 | 56 | 44 |
| 16 | 4 | | 350 | 362 | 373 | 385 | 397 | | 443 | 437 | 432 | 426 | 421 | | 034 | 933 | 933 | 932 | 931 | | 623 | 624 | 626 | 628 | 630 | 52 | 43 |
| 17 | 8 | | 397 | 408 | 420 | 432 | 443 | | 421 | 415 | 410 | 404 | 399 | | 931 | 930 | 929 | 928 | 927 | | 630 | 632 | 633 | 635 | 637 | 48 | 42 |
| 18 | 12 | | 443 | 455 | 467 | 478 | 490 | | 399 | 393 | 388 | 382 | 377 | | 927 | 927 | 926 | 925 | 924 | | 637 | 639 | 641 | 642 | 644 | 44 | 41 |
| 19 | 16 | | 490 | 502 | 513 | 525 | 537 | | 377 | 371 | 366 | 360 | 355 | | 924 | 923 | 922 | 922 | 921 | | 644 | 646 | 648 | 650 | 652 | 58. 40 | 40 |
| 20 | 1. 20 | 8.83 | 537 | 548 | 560 | 572 | 583 | 9.39 | 355 | 349 | 344 | 338 | 333 | 9.96 | 921 | 920 | 919 | 918 | 917 | 0.87 | 652 | 653 | 655 | 657 | 659 | 36 | 39 |
| 21 | 24 | | 683 | 595 | 607 | 618 | 630 | | 333 | 327 | 322 | 316 | 311 | | 917 | 916 | 916 | 915 | 914 | | 659 | 661 | 662 | 664 | 666 | 32 | 38 |
| 22 | 28 | | 630 | 642 | 653 | 665 | 676 | | 311 | 305 | 300 | 294 | 289 | | 914 | 913 | 912 | 911 | 910 | | 666 | 668 | 670 | 671 | 673 | 28 | 37 |
| 23 | 32 | | 676 | 688 | 700 | 711 | 723 | | 289 | 283 | 278 | 272 | 267 | | 910 | 910 | 909 | 908 | 907 | | 673 | 675 | 677 | 679 | 680 | 24 | 36 |
| 24 | 36 | | 723 | 734 | 746 | 758 | 769 | | 267 | 261 | 256 | 250 | 245 | | 907 | 906 | 905 | 904 | 904 | | 680 | 682 | 684 | 686 | 688 | 58. 20 | 35 |
| 25 | 1. 40 | 8.83 | 769 | 781 | 793 | 804 | 816 | 9.30 | 245 | 239 | 234 | 228 | 223 | 9.96 | 904 | 903 | 902 | 901 | 900 | 9.87 | 688 | 690 | 691 | 693 | 695 | 16 | 34 |
| 26 | 44 | | 816 | 828 | 839 | 851 | 862 | | 223 | 217 | 212 | 206 | 201 | | 900 | 899 | 898 | 897 | 897 | | 695 | 697 | 699 | 700 | 702 | 12 | 33 |
| 27 | 48 | | 862 | 874 | 885 | 897 | 909 | | 201 | 195 | 189 | 184 | 178 | | 897 | 896 | 895 | 894 | 893 | | 702 | 704 | 706 | 708 | 709 | 8 | 32 |
| 28 | 52 | | 909 | 920 | 932 | 944 | 955 | | 178 | 173 | 167 | 162 | 156 | | 893 | 892 | 891 | 891 | 890 | | 709 | 711 | 713 | 715 | 717 | 4 | 31 |
| 29 | 66 | * | 955 | 967 | 978 | 990 | 001 | | 166 | 151 | 145 | 140 | 134 | | 890 | 889 | 888 | 887 | 886 | | 717 | 718 | 720 | 722 | 724 | 58. 8 | 30 |
| 30 | 2. 0 | 8.84 | 001 | 013 | 025 | 036 | 048 | 9.39 | 134 | 129 | 123 | 118 | 112 | 9.96 | 886 | 885 | 885 | 884 | 883 | 9.87 | 724 | 726 | 727 | 729 | 731 | 66 | 29 |
| 31 | 4 | | 048 | 059 | 071 | 082 | 094 | | 112 | 107 | 181 | 096 | 090 | | 883 | 882 | 881 | 880 | 879 | | 731 | 733 | 735 | 736 | 738 | 52 | 28 |
| 32 | 8 | | 094 | 106 | 117 | 129 | 140 | | 090 | 084 | 079 | 873 | 068 | | 879 | 879 | 878 | 877 | 876 | | 738 | 740 | 742 | 744 | 745 | 48 | 27 |
| 33 | 12 | | 140 | 152 | 163 | 175 | 187 | | 068 | 062 | 057 | 051 | 046 | | 876 | 875 | 874 | 873 | 873 | | 745 | 747 | 749 | 751 | 753 | 44 | 26 |
| 34 | 16 | | 187 | 198 | 210 | 221 | 233 | | 046 | 040 | 035 | 029 | 024 | | 873 | 872 | 871 | 870 | 869 | | 753 | 754 | 756 | 758 | 760 | 57. 40 | 25 |
| 35 | 2. 20 | 8.84 | 233 | 244 | 256 | 267 | 279 | 9.39 | 024 | 018 | 013 | 007 | 001 | 9.96 | 869 | 868 | 867 | 866 | 866 | 9.87 | 760 | 762 | 764 | 765 | 767 | 36 | 24 |
| 36 | 24 | | 279 | 291 | 302 | 314 | 325 | * | 081 | 996 | 990 | 985 | 979 | | 866 | 865 | 864 | 863 | 862 | | 767 | 769 | 771 | 773 | 774 | 32 | 23 |
| 37 | 23 | | 325 | 337 | 348 | 360 | 371 | 9.38 | 979 | 974 | 968 | 963 | 957 | | 862 | 861 | 860 | 860 | 859 | | 774 | 776 | 778 | 780 | 782 | 28 | 22 |
| 38 | 32 | | 371 | 383 | 394 | 405 | 417 | | 057 | 952 | 946 | 940 | 935 | | 859 | 858 | 857 | 856 | 855 | | 782 | 783 | 785 | 787 | 789 | 21 | 21 |
| 39 | 36 | | 417 | 429 | 440 | 452 | 464 | | 935 | 929 | 924 | 918 | 913 | | 855 | 854 | 853 | 853 | 852 | | 789 | 791 | 792 | 794 | 796 | 57. 20 | 20 |
| 40 | 2. 40 | 8.84 | 464 | 475 | 487 | 498 | 510 | 9.38 | 913 | 907 | 902 | 896 | 891 | 9.96 | 852 | 851 | 850 | 849 | 848 | 9.87 | 796 | 798 | 800 | 801 | 803 | 16 | 19 |
| 41 | 44 | | 510 | 521 | 533 | 544 | 556 | | 891 | 885 | 880 | 874 | 868 | | 848 | 847 | 847 | 846 | 845 | | 803 | 805 | 807 | 808 | 810 | 12 | 18 |
| 42 | 48 | | 556 | 567 | 579 | 590 | 602 | | 868 | 863 | 857 | 852 | 846 | | 845 | 844 | 843 | 842 | 841 | | 810 | 812 | 814 | 816 | 817 | 8 | 17 |
| 43 | 52 | | 602 | 613 | 625 | 636 | 648 | | 846 | 841 | 835 | 830 | 824 | | 841 | 841 | 840 | 839 | 838 | | 817 | 819 | 821 | 823 | 825 | 4 | 16 |
| 44 | 56 | | 648 | 660 | 671 | 682 | 694 | | 824 | 818 | 813 | 807 | 802 | | 838 | 837 | 836 | 835 | 834 | | 825 | 826 | 828 | 830 | 832 | 57. 8 | 15 |
| 46 | 3. 0 | 8.84 | 694 | 705 | 717 | 728 | 739 | 9.38 | 802 | 796 | 791 | 785 | 780 | 9.96 | 834 | 834 | 833 | 832 | 831 | 9.87 | 832 | 834 | 835 | 837 | 839 | 56 | 14 |
| 46 | 4 | | 739 | 751 | 762 | 774 | 785 | | 780 | 774 | 769 | 763 | 757 | | 831 | 830 | 829 | 828 | 827 | | 839 | 841 | 843 | 844 | 846 | 52 | 13 |
| 47 | 8 | | 785 | 797 | 808 | 820 | 831 | | 757 | 752 | 746 | 741 | 735 | | 827 | 827 | 826 | 825 | 824 | | 846 | 848 | 850 | 862 | 853 | 48 | 12 |
| 48 | 12 | | 831 | 843 | 854 | 866 | 877 | | 735 | 730 | 724 | 718 | 713 | | 824 | 823 | 822 | 821 | 821 | | 853 | 855 | 857 | 859 | 861 | 44 | 11 |
| 49 | 16 | | 877 | 889 | 900 | 911 | 923 | | 713 | 707 | 702 | 696 | 691 | | 821 | 820 | 819 | 818 | 817 | | 861 | 862 | 864 | 866 | 868 | 56. 40 | 10 |
| 50 | 3. 20 | 8.84 | 923 | 934 | 946 | 957 | 969 | 9.38 | 691 | 685 | 680 | 674 | 668 | 9.96 | 817 | 816 | 815 | 814 | 814 | 0.87 | 868 | 870 | 871 | 873 | 875 | 36 | 9 |
| 51 | 24 | * | 069 | 980 | 992 | 003 | 015 | | 668 | 663 | 657 | 852 | 646 | | 814 | 813 | 812 | 811 | 810 | | 875 | 877 | 879 | 880 | 882 | 32 | 8 |
| 52 | 28 | 8.85 | 815 | 026 | 037 | 049 | 060 | | 646 | 641 | 635 | 629 | 624 | | 810 | 809 | 808 | 808 | 807 | | 882 | 884 | 886 | 887 | 889 | 28 | 7 |
| 53 | 32 | | 060 | 072 | 083 | 095 | 106 | | 624 | 618 | 613 | 607 | 602 | | 807 | 806 | 805 | 804 | 803 | | 889 | 891 | 893 | 896 | 896 | 24 | 6 |
| 54 | 36 | | 106 | 117 | 129 | 148 | 152 | | 602 | 596 | 590 | 585 | 579 | | 803 | 802 | 801 | 800 | 800 | | 896 | 898 | 900 | 902 | 904 | 56. 20 | 5 |
| 65 | 3. 40 | 8.85 | 152 | 163 | 174 | 186 | 197 | 9.38 | 579 | 571 | 568 | 563 | 557 | 9.96 | 800 | 799 | 798 | 797 | 796 | 9.87 | 904 | 905 | 907 | 909 | 911 | 16 | 4 |
| 56 | 44 | | 197 | 209 | 220 | 232 | 243 | | 557 | 551 | 546 | 540 | 535 | | 796 | 795 | 794 | 793 | 793 | | 911 | 913 | 914 | 916 | 918 | 12 | 3 |
| 57 | 48 | | 243 | 254 | 266 | 277 | 289 | | 535 | 529 | 524 | 510 | 512 | | 793 | 792 | 791 | 790 | 789 | | 918 | 920 | 921 | 923 | 925 | 8 | 2 |
| 58 | 52 | | 289 | 300 | 311 | 323 | 334 | | 512 | 507 | 501 | 496 | 490 | | 789 | 788 | 787 | 786 | 786 | | 925 | 927 | 929 | 930 | 932 | 4 | 1 |
| 59 | 56 | | 334 | 346 | 357 | 368 | 380 | | 490 | 484 | 479 | 473 | 468 | | 786 | 785 | 784 | 783 | 782 | | 939 | 934 | 936 | 938 | 939 | 66. 0 | 0 |
| . | | 4s 60" | | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | | 3s 45" | 2s 30" | 1s 15" | 0s 0" | m s | " |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 149° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 59° |

Digitized by Google

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 31° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 121° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | . |
| 0 | 4. 0 | 9.71 184 | 169 | 194 | 206 | 205 | 9.93 307 | 305 | 363 | 361 | 229 | 6.60 093 | 625 | 697 | 692 | 701 | 0.28 016 | 811 | 866 | 006 | 725 | 06 | 59 |
| 1 | 4 | 205 | 210 | 215 | 221 | 926 | 299 | 297 | 295 | 293 | 291 | 701 | 703 | 705 | 707 | 709 | 795 | 790 | 785 | 779 | 774 | 59 | 56 |
| 2 | 8 | 228 | 231 | 936 | 242 | 247 | 291 | 282 | 288 | 286 | 264 | 709 | 711 | 712 | 714 | 716 | 774 | 769 | 763 | 758 | 753 | 48 | 57 |
| 3 | 12 | 247 | 252 | 257 | 283 | 288 | 284 | 282 | 280 | 278 | 976 | 718 | 718 | 790 | 722 | 724 | 753 | 748 | 743 | 737 | 732 | 44 | 56 |
| 4 | 19 | 288 | 273 | 278 | 284 | 289 | 276 | 274 | 272 | 270 | 299 | 724 | 726 | 728 | 730 | 731 | 732 | 727 | 722 | 718 | 711 | 55. 40 | 55 |
| 5 | 4. 20 | 9.71 289 | 294 | 299 | 305 | 310 | 9.93 289 | 267 | 265 | 263 | 261 | 0.69 731 | 733 | 735 | 737 | 739 | 0.26 711 | 706 | 701 | 895 | 890 | 36 | 54 |
| 6 | 24 | 310 | 315 | 320 | 326 | 331 | 261 | 259 | 257 | 255 | 953 | 739 | 741 | 743 | 745 | 747 | 090 | 605 | 660 | 674 | 969 | 32 | 53 |
| 7 | 28 | 331 | 338 | 341 | 346 | 352 | 253 | 201 | 242 | 248 | 248 | 747 | 749 | 751 | 752 | 754 | 669 | 984 | 859 | 854 | 948 | 28 | 52 |
| 8 | 32 | 352 | 357 | 362 | 367 | 373 | 246 | 244 | 242 | 240 | 238 | 704 | 756 | 758 | 790 | 782 | 048 | 943 | 638 | 633 | 997 | 24 | 51 |
| 9 | 36 | 373 | 378 | 383 | 588 | 393 | 238 | 236 | 234 | 232 | 230 | 782 | 764 | 788 | 760 | 770 | 027 | 822 | 817 | 012 | 607 | 55. 20 | 50 |
| 10 | 4. 40 | 9.71 393 | 399 | 404 | 409 | 414 | 9.93 230 | 228 | 227 | 225 | 223 | 0.09 770 | 772 | 773 | 775 | 777 | 0.20 607 | 601 | 596 | 591 | 589 | 16 | 49 |
| 11 | 44 | 414 | 420 | 428 | 430 | 435 | 223 | 221 | 219 | 217 | 210 | 777 | 772 | 781 | 783 | 785 | 006 | 580 | 575 | 570 | 566 | 12 | 46 |
| 12 | 48 | 435 | 440 | 446 | 451 | 456 | 210 | 215 | 211 | 209 | 207 | 705 | 767 | 789 | 791 | 793 | 063 | 580 | 554 | 549 | 544 | 6 | 47 |
| 13 | 69 | 406 | 461 | 487 | 472 | 477 | 207 | 206 | 204 | 202 | 900 | 793 | 794 | 799 | 798 | 800 | 044 | 539 | 533 | 528 | 523 | 4 | 48 |
| 14 | 56 | 477 | 482 | 467 | 423 | 498 | 200 | 198 | 199 | 194 | 192 | 800 | 602 | 804 | 808 | 808 | 023 | 518 | 513 | 507 | 502 | 55. 6 | 45 |
| 15 | 0. 0 | 9.71 498 | 503 | 508 | 013 | 519 | 9.23 122 | 190 | 188 | 186 | 184 | 6.06 608 | 810 | 812 | 814 | 816 | 0.28 602 | 497 | 422 | 487 | 481 | 58 | 44 |
| 16 | 4 | 019 | 524 | 529 | 534 | 539 | 104 | 183 | 161 | 179 | 177 | 016 | 017 | 819 | 821 | 823 | 481 | 476 | 471 | 488 | 461 | 69 | 43 |
| 17 | 6 | 039 | 545 | 550 | 555 | 560 | 177 | 175 | 173 | 171 | 189 | 623 | 825 | 827 | 829 | 031 | 481 | 455 | 450 | 445 | 440 | 48 | 42 |
| 16 | 12 | 590 | 595 | 571 | 576 | 581 | 199 | 167 | 165 | 163 | 161 | 631 | 833 | 835 | 837 | 839 | 440 | 435 | 429 | 424 | 419 | 44 | 41 |
| 19 | 18 | 081 | 588 | 591 | 596 | 602 | 161 | 160 | 158 | 156 | 154 | 039 | 040 | 842 | 844 | 846 | 419 | 414 | 409 | 404 | 398 | 54. 40 | 40 |
| 20 | 0. 20 | 9.71 002 | 867 | 612 | 617 | 922 | 0.93 154 | 152 | 150 | 148 | 146 | 0.06 846 | 048 | 850 | 852 | 854 | 0.28 398 | 393 | 388 | 383 | 378 | 36 | 39 |
| 21 | 24 | 622 | 928 | 933 | 638 | 943 | 146 | 144 | 142 | 140 | 138 | 651 | 856 | 858 | 860 | 862 | 378 | 372 | 367 | 382 | 357 | 32 | 36 |
| 22 | 28 | 643 | 848 | 654 | 659 | 864 | 120 | 136 | 135 | 133 | 131 | 062 | 864 | 885 | 887 | 889 | 257 | 352 | 348 | 341 | 336 | 28 | 27 |
| 23 | 32 | 684 | 862 | 674 | 679 | 885 | 131 | 120 | 127 | 125 | 123 | 669 | 071 | 873 | 875 | 877 | 336 | 331 | 328 | 321 | 315 | 24 | 39 |
| 24 | 36 | 005 | 690 | 895 | 700 | 765 | 123 | 121 | 112 | 117 | 115 | 077 | 072 | 881 | 883 | 885 | 315 | 310 | 305 | 300 | 295 | 54. 20 | 35 |
| 25 | 5. 40 | 9.71 705 | 710 | 716 | 721 | 728 | 9.93 115 | 113 | 111 | 109 | 108 | 6.66 685 | 887 | 889 | 891 | 892 | 0.28 296 | 296 | 284 | 979 | 974 | 16 | 34 |
| 28 | 44 | 726 | 731 | 736 | 741 | 747 | 106 | 106 | 104 | 102 | 100 | 022 | 891 | 898 | 898 | 900 | 274 | 209 | 264 | 259 | 253 | 12 | 33 |
| 27 | 48 | 747 | 759 | 757 | 762 | 797 | 106 | 090 | 098 | 094 | 092 | 200 | 902 | 904 | 909 | 908 | 253 | 248 | 243 | 238 | 233 | 8 | 32 |
| 28 | 02 | 767 | 779 | 778 | 763 | 788 | 022 | 090 | 088 | 088 | 004 | 208 | 910 | 919 | 914 | 916 | 233 | 228 | 222 | 217 | 212 | 4 | 31 |
| 29 | 58 | 788 | 793 | 798 | 003 | 809 | 664 | 082 | 080 | 679 | 077 | 916 | 918 | 920 | 921 | 923 | 212 | 207 | 262 | 197 | 191 | 54. 0 | 36 |
| 30 | 6. 6 | 9.71 809 | 614 | 819 | 694 | 029 | 9.93 077 | 075 | 073 | 071 | 069 | 6.60 923 | 925 | 927 | 929 | 931 | 6.28 191 | 188 | 181 | 176 | 171 | 58 | 29 |
| 31 | 4 | 829 | 634 | 839 | 845 | 850 | 069 | 007 | 065 | 063 | 081 | 931 | 933 | 935 | 937 | 939 | 271 | 166 | 161 | 185 | 150 | 52 | 28 |
| 32 | 6 | 650 | 855 | 860 | 695 | 870 | 061 | 059 | 057 | 055 | 053 | 939 | 241 | 943 | 945 | 947 | 150 | 145 | 140 | 135 | 130 | 48 | 27 |
| 33 | 12 | 876 | 675 | 681 | 686 | 691 | 053 | 051 | 949 | 048 | 646 | 247 | 249 | 951 | 902 | 954 | 130 | 125 | 119 | 114 | 109 | 44 | 26 |
| 34 | 16 | 691 | 096 | 901 | 969 | 911 | 016 | 044 | 042 | 640 | 038 | 254 | 956 | 950 | 960 | 989 | 109 | 104 | 099 | 094 | 089 | 53. 40 | 25 |
| 35 | 6. 20 | 9.71 911 | 917 | 922 | 927 | 932 | 0.23 038 | 036 | 034 | 032 | 030 | 0.06 262 | 964 | 966 | 988 | 970 | 6.28 089 | 083 | 076 | 073 | 088 | 39 | 24 |
| 36 | 24 | 932 | 937 | 942 | 947 | 252 | 030 | 098 | 026 | 024 | 629 | 070 | 072 | 974 | 978 | 278 | 088 | 063 | 658 | 683 | 048 | 32 | 23 |
| 37 | 20 | 952 | 958 | 963 | 988 | 973 | 622 | 020 | 018 | 618 | 014 | 078 | 980 | 982 | 984 | 986 | 648 | 042 | 037 | 632 | 027 | 28 | 22 |
| 36 | 32 | 973 | 976 | 983 | 268 | 993 | 614 | 013 | 011 | 009 | 007 | 968 | 987 | 989 | 991 | 993 | 697 | 022 | 017 | 019 | 007 | 24 | 21 |
| 39 | 36 | * 093 | 999 | 904 | 009 | 014 | * 067 | 005 | 003 | 001 | 999 | * 993 | 995 | 997 | 999 | 001 | * 007 | 061 | 296 | 991 | 988 | 53. 20 | 26 |
| 40 | 6. 40 | 9.72 014 | 012 | 024 | 029 | 034 | 9.92 999 | 997 | 995 | 993 | 991 | 9.07 061 | 003 | 005 | 007 | 009 | 0.27 986 | 981 | 278 | 971 | 966 | 19 | 19 |
| 41 | 44 | 634 | 040 | 045 | 050 | 055 | 991 | 989 | 967 | 985 | 983 | 009 | 011 | 013 | 015 | 017 | 966 | 960 | 255 | 950 | 945 | 12 | 18 |
| 42 | 48 | 055 | 660 | 668 | 078 | 675 | 283 | 281 | 979 | 977 | 976 | 017 | 619 | 021 | 023 | 024 | 945 | 940 | 935 | 930 | 925 | 8 | 17 |
| 43 | 02 | 075 | 080 | 086 | 621 | 098 | 978 | 974 | 972 | 270 | 968 | 024 | 626 | 028 | 030 | 032 | 295 | 920 | 214 | 909 | 904 | 4 | 16 |
| 44 | 69 | 096 | 101 | 196 | 111 | 118 | 266 | 266 | 964 | 962 | 980 | 032 | 634 | 036 | 038 | 040 | 904 | 899 | 894 | 869 | 884 | 53. 0 | 15 |
| 48 | 7. 6 | 9.72 118 | 121 | 126 | 132 | 137 | 9.92 960 | 258 | 958 | 954 | 952 | 0.07 046 | 042 | 044 | 049 | 048 | 0.27 884 | 879 | 874 | 868 | 663 | 08 | 14 |
| 46 | 4 | 137 | 142 | 147 | 152 | 157 | 952 | 950 | 948 | 948 | 944 | 048 | 050 | 052 | 054 | 636 | 663 | 858 | 853 | 846 | 843 | 62 | 13 |
| 47 | 8 | 157 | 162 | 167 | 172 | 177 | 944 | 942 | 946 | 938 | 936 | 056 | 058 | 060 | 062 | 684 | 843 | 838 | 633 | 626 | 823 | 48 | 12 |
| 48 | 12 | 177 | 183 | 188 | 193 | 198 | 938 | 934 | 932 | 931 | 929 | 064 | 066 | 068 | 669 | 071 | 023 | 817 | 812 | 607 | 002 | 44 | 11 |
| 49 | 16 | 198 | 263 | 208 | 213 | 918 | 929 | 927 | 925 | 923 | 921 | 071 | 073 | 075 | 077 | 079 | 862 | 797 | 792 | 787 | 782 | 02. 40 | 10 |
| 56 | 7. 20 | 9.72 218 | 223 | 228 | 233 | 238 | 2.92 921 | 919 | 917 | 915 | 913 | 0.07 079 | 061 | 083 | 085 | 687 | 6.27 782 | 777 | 772 | 767 | 762 | 38 | 9 |
| 61 | 24 | 236 | 244 | 249 | 254 | 259 | 913 | 911 | 999 | 967 | 905 | 067 | 062 | 091 | 093 | 095 | 782 | 758 | 751 | 746 | 741 | 39 | 6 |
| 02 | 28 | 259 | 264 | 299 | 274 | 279 | 905 | 903 | 901 | 899 | 697 | 095 | 097 | 099 | 101 | 163 | 741 | 736 | 731 | 726 | 721 | 28 | 7 |
| 53 | 32 | 279 | 284 | 289 | 294 | 299 | 097 | 895 | 893 | 891 | 889 | 103 | 105 | 107 | 169 | 111 | 721 | 716 | 711 | 708 | 701 | 24 | 6 |
| 54 | 36 | 299 | 365 | 310 | 315 | 320 | 069 | 887 | 885 | 083 | 881 | 111 | 113 | 115 | 117 | 119 | 701 | 995 | 890 | 985 | 660 | 62. 20 | 5 |
| 65 | 7. 46 | 9.72 320 | 325 | 330 | 335 | 346 | 9.92 881 | 879 | 878 | 876 | 874 | 0.67 119 | 121 | 122 | 124 | 126 | 6.27 680 | 675 | 670 | 865 | 660 | 16 | 4 |
| 36 | 44 | 340 | 345 | 350 | 305 | 360 | 874 | 672 | 870 | 868 | 686 | 129 | 126 | 130 | 132 | 134 | 660 | 655 | 856 | 645 | 640 | 12 | 3 |
| 57 | 48 | 360 | 368 | 370 | 375 | 381 | 868 | 864 | 669 | 680 | 858 | 134 | 136 | 138 | 140 | 142 | 640 | 635 | 830 | 825 | 619 | 8 | 2 |
| 08 | 62 | 361 | 366 | 391 | 398 | 401 | 058 | 656 | 854 | 852 | 850 | 142 | 144 | 146 | 148 | 150 | 619 | 914 | 609 | 804 | 599 | 4 | 1 |
| 59 | 66 | 401 | 406 | 411 | 419 | 421 | 859 | 848 | 046 | 844 | 849 | 150 | 162 | 154 | 156 | 150 | 599 | 594 | 589 | 584 | 579 | 52. 6 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 6″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 16″ | 6° 0″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 0″ | m s | ″ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 0h | 146° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 58° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 31° | 2h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 121° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 4. 0 | 8.65 | 380 | 391 | 403 | 414 | 425 | 9.36 | 408 | 462 | 457 | 451 | 445 | 9.96 | 782 | 781 | 780 | 779 | 770 | 9.67 | 939 | 941 | 943 | 945 | 946 | 56 | 59 |
| 1 | 4 | | 425 | 437 | 448 | 459 | 471 | | 445 | 440 | 434 | 429 | 423 | | 779 | 778 | 777 | 770 | 775 | | 946 | 918 | 950 | 952 | 954 | 52 | 58 |
| 2 | 8 | | 471 | 482 | 494 | 605 | 510 | | 423 | 418 | 412 | 406 | 401 | | 775 | 774 | 773 | 772 | 772 | | 951 | 955 | 257 | 959 | 961 | 48 | 57 |
| 3 | 12 | | 516 | 528 | 539 | 650 | 562 | | 401 | 395 | 390 | 384 | 378 | | 772 | 771 | 770 | 709 | 768 | | 961 | 003 | 964 | 966 | 908 | 44 | 56 |
| 4 | 16 | | 562 | 573 | 584 | 596 | 607 | | 378 | 373 | 367 | 362 | 356 | | 768 | 767 | 766 | 765 | 765 | | 968 | 070 | 971 | 973 | 978 | 56. 40 | 55 |
| 5 | 4. 20 | 8.85 | 607 | 619 | 630 | 641 | 653 | 2.38 | 358 | 350 | 345 | 339 | 334 | 9.96 | 785 | 764 | 763 | 702 | 701 | 9.87 | 975 | 977 | 979 | 980 | 982 | 36 | 54 |
| 6 | 24 | | 653 | 664 | 675 | 087 | 028 | | 334 | 328 | 322 | 317 | 311 | | 761 | 760 | 759 | 758 | 758 | | 982 | 984 | 980 | 988 | 980 | 32 | 53 |
| 7 | 28 | | 698 | 789 | 721 | 732 | 743 | | 311 | 300 | 300 | 294 | 289 | | 758 | 757 | 750 | 755 | 784 | | 980 | 991 | 993 | 995 | 998 | 28 | 52 |
| 8 | 32 | | 743 | 755 | 756 | 777 | 789 | | 289 | 283 | 276 | 272 | 266 | | 754 | 753 | 752 | 751 | 750 | * | 990 | 998 | 008 | 002 | 004 | 24 | 51 |
| 9 | 36 | | 789 | 800 | 811 | 823 | 834 | | 266 | 251 | 255 | 250 | 244 | | 750 | 750 | 749 | 748 | 747 | 9.88 | 884 | 005 | 887 | 009 | 011 | 56. 20 | 50 |
| 10 | 4. 40 | 5.85 | 834 | 845 | 857 | 868 | 879 | 9.38 | 244 | 238 | 233 | 227 | 220 | 9.96 | 747 | 746 | 745 | 744 | 743 | 9.88 | 011 | 012 | 014 | 018 | 818 | 16 | 49 |
| 11 | 44 | | 879 | 891 | 902 | 913 | 925 | | 222 | 916 | 210 | 205 | 199 | | 743 | 743 | 742 | 741 | 740 | | 018 | 020 | 021 | 023 | 025 | 12 | 48 |
| 12 | 48 | | 925 | 936 | 947 | 958 | 970 | | 199 | 194 | 188 | 182 | 177 | | 746 | 739 | 738 | 737 | 736 | | 095 | 027 | 028 | 030 | 032 | 8 | 47 |
| 13 | 52 | * | 970 | 981 | 992 | 004 | 015 | | 177 | 171 | 166 | 100 | 164 | | 730 | 735 | 735 | 734 | 733 | | 032 | 834 | 030 | 037 | 039 | 4 | 46 |
| 14 | 56 | 8.86 | 915 | 626 | 038 | 049 | 060 | | 154 | 149 | 143 | 138 | 132 | | 733 | 732 | 731 | 730 | 729 | | 039 | 041 | 043 | 048 | 848 | 56. 0 | 45 |
| 15 | 5. 0 | 8.86 | 060 | 071 | 083 | 094 | 185 | 9.38 | 132 | 120 | 191 | 115 | 110 | 9.96 | 729 | 798 | 728 | 727 | 796 | 9.88 | 048 | 048 | 050 | 059 | 053 | 56 | 44 |
| 16 | 4 | | 105 | 117 | 128 | 132 | 150 | | 110 | 104 | 098 | 093 | 087 | | 790 | 725 | 724 | 723 | 722 | | 053 | 055 | 087 | 059 | 001 | 52 | 43 |
| 17 | 8 | | 180 | 152 | 173 | 184 | 190 | | 087 | 081 | 076 | 070 | 683 | | 722 | 791 | 728 | 720 | 719 | | 061 | 062 | 064 | 060 | 008 | 48 | 42 |
| 18 | 12 | | 196 | 207 | 218 | 229 | 241 | | 005 | 082 | 053 | 048 | 042 | | 719 | 718 | 717 | 718 | 715 | | 068 | 009 | 071 | 073 | 076 | 44 | 41 |
| 19 | 16 | | 241 | 962 | 263 | 274 | 280 | | 042 | 037 | 031 | 025 | 020 | | 715 | 714 | 713 | 713 | 712 | | 075 | 676 | 078 | 088 | 082 | 54. 40 | 40 |
| 20 | 5. 20 | 8.86 | 286 | 227 | 308 | 328 | 331 | * | 020 | 014 | 008 | 003 | 907 | 9.96 | 712 | 711 | 710 | 709 | 708 | 9.88 | 082 | 084 | 085 | 887 | 089 | 36 | 39 |
| 21 | 24 | | 331 | 342 | 353 | 364 | 370 | 9.37 | 927 | 991 | 980 | 980 | 975 | | 708 | 707 | 706 | 785 | 705 | | 089 | 091 | 092 | 094 | 096 | 32 | 38 |
| 22 | 28 | | 376 | 387 | 398 | 410 | 421 | | 975 | 969 | 963 | 958 | 952 | | 705 | 704 | 703 | 702 | 761 | | 090 | 098 | 100 | 101 | 103 | 28 | 37 |
| 23 | 32 | | 421 | 432 | 443 | 454 | 466 | | 952 | 940 | 941 | 935 | 930 | | 701 | 700 | 692 | 098 | 607 | | 103 | 105 | 167 | 188 | 110 | 24 | 36 |
| 24 | 36 | | 466 | 477 | 468 | 499 | 511 | | 930 | 924 | 918 | 913 | 007 | | 897 | 097 | 696 | 595 | 694 | | 110 | 112 | 114 | 116 | 117 | 54. 20 | 35 |
| 25 | 5. 40 | 8.86 | 611 | 822 | 533 | 544 | 550 | 9.37 | 907 | 901 | 898 | 890 | 885 | 9.96 | 694 | 893 | 690 | 891 | 890 | 9.88 | 117 | 110 | 121 | 123 | 194 | 16 | 34 |
| 26 | 44 | | 856 | 067 | 578 | 589 | 000 | | 885 | 879 | 873 | 868 | 862 | | 690 | 089 | 089 | 688 | 687 | | 121 | 120 | 128 | 130 | 131 | 12 | 33 |
| 27 | 48 | | 600 | 612 | 023 | 634 | 645 | | 562 | 886 | 851 | 815 | 840 | | 687 | 086 | 685 | 084 | 683 | | 131 | 133 | 135 | 137 | 139 | 8 | 32 |
| 28 | 52 | | 645 | 686 | 668 | 079 | 690 | | 848 | 834 | 828 | 823 | 817 | | 683 | 082 | 681 | 681 | 680 | | 130 | 140 | 149 | 144 | 146 | 4 | 31 |
| 29 | 56 | | 690 | 761 | 713 | 724 | 735 | | 817 | 811 | 806 | 800 | 794 | | 688 | 679 | 678 | 677 | 676 | | 146 | 147 | 149 | 151 | 153 | 54. 0 | 30 |
| 30 | 6. 0 | 8.86 | 735 | 740 | 757 | 768 | 780 | 9.37 | 794 | 780 | 783 | 778 | 772 | 9.96 | 676 | 875 | 674 | 673 | 073 | 9.88 | 153 | 154 | 156 | 158 | 100 | 56 | 29 |
| 31 | 4 | | 780 | 791 | 802 | 813 | 824 | | 772 | 760 | 761 | 755 | 749 | | 673 | 072 | 671 | 670 | 669 | | 160 | 162 | 183 | 166 | 167 | 52 | 28 |
| 32 | 8 | | 824 | 835 | 847 | 858 | 869 | | 749 | 744 | 738 | 732 | 727 | | 669 | 668 | 067 | 666 | 665 | | 167 | 109 | 170 | 172 | 174 | 48 | 27 |
| 33 | 12 | | 809 | 880 | 892 | 903 | 914 | | 727 | 791 | 715 | 710 | 704 | | 665 | 068 | 604 | 663 | 669 | | 174 | 176 | 177 | 179 | 181 | 44 | 26 |
| 34 | 16 | | 914 | 925 | 936 | 947 | 959 | | 704 | 099 | 093 | 687 | 682 | | 662 | 681 | 660 | 659 | 058 | | 181 | 183 | 184 | 180 | 188 | 53. 40 | 25 |
| 35 | 6. 20 | * | 959 | 970 | 981 | 992 | 003 | 9.37 | 682 | 070 | 678 | 068 | 059 | 9.96 | 658 | 057 | 656 | 656 | 055 | 9.88 | 188 | 190 | 199 | 193 | 195 | 36 | 24 |
| 36 | 24 | 8.87 | 003 | 014 | 020 | 037 | 048 | | 659 | 853 | 648 | 642 | 630 | | 655 | 654 | 653 | 652 | 051 | | 195 | 197 | 199 | 200 | 209 | 32 | 23 |
| 37 | 28 | | 548 | 859 | 070 | 081 | 092 | | 636 | 631 | 625 | 619 | 614 | | 651 | 650 | 649 | 618 | 018 | | 200 | 204 | 200 | 007 | 909 | 28 | 22 |
| 38 | 32 | | 892 | 104 | 115 | 126 | 137 | | 814 | 008 | 082 | 597 | 591 | | 848 | 647 | 646 | 645 | 044 | | 209 | 211 | 913 | 214 | 210 | 24 | 21 |
| 39 | 36 | | 137 | 148 | 159 | 170 | 182 | | 621 | 885 | 580 | 074 | 568 | | 644 | 643 | 619 | 641 | 640 | | 216 | 218 | 220 | 222 | 223 | 53. 20 | 20 |
| 40 | 6. 40 | 8.87 | 182 | 193 | 204 | 215 | 228 | 9.37 | 568 | 083 | 557 | 559 | 546 | 9.96 | 640 | 630 | 030 | 838 | 637 | 9.88 | 223 | 205 | 027 | 029 | 020 | 16 | 19 |
| 41 | 44 | | 226 | 237 | 248 | 259 | 271 | | 546 | 540 | 535 | 599 | 523 | | 637 | 636 | 635 | 634 | 633 | | 230 | 232 | 234 | 236 | 237 | 12 | 18 |
| 42 | 48 | | 271 | 282 | 293 | 304 | 315 | | 623 | 818 | 512 | 506 | 501 | | 633 | 032 | 031 | 630 | 030 | | 237 | 239 | 241 | 243 | 044 | 8 | 17 |
| 43 | 52 | | 315 | 326 | 337 | 348 | 360 | | 601 | 495 | 489 | 484 | 478 | | 630 | 029 | 628 | 697 | 028 | | 244 | 246 | 248 | 950 | 251 | 4 | 16 |
| 44 | 56 | | 360 | 371 | 382 | 393 | 404 | | 478 | 472 | 467 | 461 | 455 | | 690 | 625 | 024 | 623 | 620 | | 281 | 263 | 255 | 257 | 059 | 53. 0 | 15 |
| 45 | 7. 0 | 8.67 | 404 | 415 | 426 | 437 | 448 | 9.37 | 455 | 450 | 414 | 438 | 433 | 9.96 | 602 | 622 | 021 | 020 | 619 | 9.88 | 259 | 280 | 902 | 264 | 206 | 56 | 14 |
| 46 | 4 | | 448 | 460 | 471 | 489 | 493 | | 433 | 427 | 121 | 410 | 110 | | 619 | 018 | 817 | 016 | 615 | | 266 | 207 | 209 | 271 | 973 | 52 | 13 |
| 47 | 8 | | 493 | 604 | 615 | 326 | 537 | | 410 | 404 | 399 | 393 | 387 | | 616 | 614 | 013 | 013 | 619 | | 273 | 274 | 276 | 278 | 280 | 48 | 12 |
| 48 | 12 | | 537 | 846 | 559 | 670 | 582 | | 387 | 381 | 370 | 370 | 304 | | 612 | 011 | 610 | 609 | 608 | | 280 | 281 | 283 | 288 | 287 | 44 | 11 |
| 49 | 16 | | 582 | 593 | 604 | 815 | 020 | | 364 | 359 | 353 | 347 | 349 | | 688 | 007 | 600 | 605 | 604 | | 287 | 988 | 090 | 292 | 994 | 52. 40 | 10 |
| 50 | 7. 20 | 9.87 | 690 | 637 | 648 | 059 | 670 | 9.37 | 342 | 336 | 330 | 325 | 319 | 9.95 | 684 | 004 | 603 | 602 | 001 | 9.88 | 294 | 295 | 297 | 290 | 301 | 36 | 9 |
| 51 | 24 | | 670 | 681 | 699 | 703 | 714 | | 319 | 313 | 308 | 302 | 296 | | 681 | 000 | 599 | 598 | 597 | | 301 | 302 | 384 | 306 | 308 | 32 | 8 |
| 52 | 28 | | 714 | 725 | 736 | 747 | 759 | | 296 | 291 | 285 | 279 | 274 | | 597 | 596 | 595 | 595 | 594 | | 308 | 310 | 311 | 313 | 316 | 28 | 7 |
| 53 | 32 | | 759 | 770 | 781 | 792 | 803 | | 274 | 268 | 262 | 287 | 251 | | 521 | 593 | 592 | 591 | 590 | | 315 | 317 | 310 | 320 | 322 | 24 | 6 |
| 54 | 36 | | 803 | 614 | 826 | 836 | 847 | | 251 | 245 | 239 | 234 | 298 | | 690 | 589 | 588 | 587 | 586 | | 322 | 324 | 325 | 397 | 329 | 52. 20 | 5 |
| 55 | 7. 40 | 9.87 | 847 | 858 | 809 | 880 | 891 | 9.37 | 228 | 222 | 217 | 211 | 005 | 9.96 | 580 | 580 | 585 | 584 | 583 | 9.88 | 329 | 331 | 332 | 334 | 338 | 16 | 4 |
| 56 | 44 | | 891 | 202 | 913 | 924 | 935 | | 205 | 200 | 194 | 188 | 183 | | 883 | 862 | 581 | 580 | 579 | | 330 | 338 | 339 | 341 | 343 | 12 | 3 |
| 57 | 48 | | 935 | 946 | 957 | 968 | 979 | | 183 | 177 | 171 | 105 | 160 | | 679 | 578 | 577 | 570 | 576 | | 343 | 340 | 346 | 348 | 358 | 8 | 2 |
| 58 | 52 | * | 979 | 990 | 001 | 013 | 004 | | 160 | 154 | 148 | 143 | 137 | | 576 | 575 | 874 | 573 | 572 | | 350 | 352 | 353 | 355 | 357 | 4 | 1 |
| 59 | 56 | 8.88 | 024 | 035 | 048 | 057 | 008 | | 137 | 131 | 120 | 120 | 114 | | 572 | 571 | 570 | 669 | 568 | | 357 | 389 | 360 | 362 | 364 | 52. 0 | 0 |
| | | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 148° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 58° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 32° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 122° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 2° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 10" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 2° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 8. 0 | 9.72 421 | 426 | 431 | 436 | 441 | 9.92 842 | 842 | 838 | 836 | 834 | 2.07 158 | 160 | 162 | 164 | 166 | 0.27 579 | 574 | 569 | 564 | 552 | 36 | 59 |
| 1 | 4 | 441 | 446 | 451 | 456 | 461 | 834 | 832 | 830 | 828 | 826 | 166 | 168 | 170 | 172 | 174 | 559 | 554 | 549 | 544 | 539 | 32 | 58 |
| 2 | 8 | 461 | 466 | 471 | 477 | 482 | 826 | 824 | 822 | 820 | 818 | 174 | 176 | 178 | 180 | 182 | 539 | 534 | 522 | 523 | 518 | 48 | 37 |
| 3 | 12 | 482 | 487 | 492 | 497 | 502 | 818 | 816 | 814 | 812 | 810 | 182 | 184 | 186 | 188 | 190 | 518 | 513 | 508 | 503 | 420 | 44 | 56 |
| 4 | 16 | 502 | 507 | 512 | 517 | 522 | 810 | 808 | 806 | 804 | 803 | 190 | 192 | 194 | 196 | 197 | 498 | 493 | 488 | 483 | 470 | 51. 40 | 53 |
| 5 | 2. 20 | 9.72 022 | 627 | 532 | 537 | 542 | 2.92 803 | 801 | 799 | 797 | 795 | 0.27 197 | 199 | 201 | 203 | 205 | 0.27 478 | 473 | 468 | 463 | 458 | 36 | 54 |
| 6 | 24 | 542 | 547 | 552 | 557 | 562 | 795 | 793 | 791 | 789 | 787 | 205 | 207 | 209 | 211 | 213 | 458 | 453 | 448 | 443 | 438 | 32 | 03 |
| 7 | 28 | 262 | 567 | 572 | 577 | 582 | 787 | 785 | 783 | 781 | 779 | 213 | 215 | 217 | 219 | 221 | 438 | 433 | 428 | 423 | 410 | 28 | 52 |
| 8 | 32 | 282 | 587 | 592 | 597 | 602 | 779 | 777 | 775 | 773 | 771 | 221 | 223 | 225 | 227 | 229 | 418 | 413 | 408 | 403 | 398 | 24 | 31 |
| 9 | 36 | 502 | 607 | 612 | 617 | 622 | 771 | 769 | 767 | 765 | 763 | 229 | 231 | 233 | 235 | 237 | 398 | 393 | 388 | 383 | 372 | 51. 20 | 52 |
| 12 | 8.40 | 9.72 622 | 628 | 633 | 638 | 643 | 2.92 763 | 761 | 759 | 757 | 755 | 0.07 237 | 239 | 241 | 243 | 245 | 0.27 378 | 372 | 357 | 362 | 357 | 16 | 49 |
| 11 | 44 | 343 | 648 | 653 | 658 | 663 | 755 | 753 | 751 | 749 | 747 | 245 | 247 | 249 | 251 | 253 | 357 | 352 | 347 | 342 | 337 | 12 | 48 |
| 12 | 48 | 663 | 668 | 573 | 678 | 683 | 747 | 745 | 743 | 741 | 739 | 253 | 255 | 257 | 259 | 261 | 337 | 332 | 327 | 322 | 317 | 8 | 47 |
| 13 | 52 | 683 | 688 | 693 | 698 | 703 | 739 | 737 | 735 | 733 | 731 | 261 | 263 | 265 | 267 | 269 | 017 | 312 | 307 | 302 | 297 | 4 | 43 |
| 14 | 56 | 703 | 708 | 713 | 718 | 723 | 731 | 729 | 727 | 725 | 723 | 269 | 271 | 273 | 275 | 277 | 297 | 292 | 287 | 282 | 277 | 51. 0 | 45 |
| 15 | 9. 0 | 9.72 723 | 728 | 733 | 738 | 743 | 9.92 723 | 721 | 719 | 717 | 715 | 0.07 277 | 279 | 281 | 283 | 285 | 0.27 277 | 272 | 267 | 262 | 257 | 36 | 44 |
| 16 | 4 | 743 | 748 | 753 | 758 | 763 | 715 | 713 | 711 | 709 | 707 | 285 | 287 | 289 | 291 | 293 | 257 | 252 | 247 | 242 | 237 | 02 | 43 |
| 17 | 8 | 763 | 768 | 773 | 778 | 783 | 707 | 705 | 703 | 701 | 699 | 293 | 295 | 297 | 299 | 301 | 237 | 232 | 227 | 222 | 217 | 48 | 42 |
| 18 | 12 | 783 | 788 | 793 | 798 | 803 | 699 | 697 | 695 | 693 | 691 | 301 | 303 | 305 | 307 | 309 | 217 | 212 | 207 | 202 | 197 | 44 | 41 |
| 19 | 16 | 803 | 808 | 813 | 818 | 823 | 691 | 689 | 687 | 685 | 683 | 309 | 311 | 313 | 315 | 317 | 197 | 122 | 187 | 182 | 177 | 50. 40 | 42 |
| 20 | 9. 20 | 2.72 823 | 828 | 833 | 838 | 843 | 9.92 683 | 681 | 679 | 677 | 675 | 0.07 317 | 319 | 321 | 323 | 325 | 0.27 177 | 172 | 167 | 162 | 157 | 36 | 39 |
| 21 | 24 | 843 | 848 | 853 | 858 | 863 | 675 | 673 | 671 | 669 | 667 | 325 | 327 | 329 | 331 | 333 | 157 | 152 | 147 | 142 | 137 | 32 | 38 |
| 22 | 28 | 863 | 868 | 873 | 878 | 883 | 667 | 665 | 663 | 661 | 659 | 333 | 335 | 337 | 339 | 341 | 137 | 132 | 127 | 122 | 117 | 28 | 37 |
| 23 | 32 | 883 | 888 | 892 | 897 | 902 | 659 | 657 | 656 | 653 | 651 | 341 | 343 | 345 | 347 | 349 | 117 | 112 | 108 | 103 | 098 | 24 | 36 |
| 24 | 36 | 902 | 907 | 912 | 917 | 922 | 651 | 649 | 647 | 645 | 643 | 349 | 351 | 353 | 355 | 357 | 098 | 093 | 088 | 083 | 078 | 50. 20 | 35 |
| 25 | 9. 40 | 9.72 922 | 927 | 932 | 937 | 942 | 9.92 643 | 641 | 639 | 637 | 635 | 0.07 357 | 359 | 361 | 363 | 365 | 0.27 078 | 873 | 068 | 063 | 058 | 16 | 34 |
| 26 | 44 | 942 | 947 | 952 | 957 | 962 | 635 | 633 | 631 | 629 | 627 | 365 | 367 | 369 | 371 | 373 | 058 | 053 | 048 | 043 | 038 | 12 | 33 |
| 27 | 48 | 962 | 967 | 972 | 977 | 982 | 627 | 625 | 623 | 621 | 619 | 573 | 375 | 377 | 379 | 381 | 038 | 033 | 028 | 023 | 018 | 8 | 32 |
| 28 | 02 | * 982 | 987 | 992 | 997 | 002 | 619 | 617 | 615 | 613 | 611 | 381 | 383 | 385 | 387 | 389 | * 018 | 013 | 008 | 003 | 998 | 4 | 31 |
| 29 | 36 | 9.73 002 | 007 | 012 | 017 | 022 | 611 | 609 | 607 | 605 | 603 | 389 | 391 | 393 | 395 | 397 | 0.26 998 | 993 | 988 | 983 | 978 | 50. 0 | 30 |
| 30 | 10. 0 | 9.73 022 | 027 | 032 | 037 | 041 | 9.92 603 | 601 | 599 | 597 | 595 | 2.07 397 | 399 | 401 | 403 | 405 | 0.26 978 | 973 | 968 | 963 | 959 | 56 | 29 |
| 31 | 4 | 041 | 046 | 051 | 056 | 061 | 595 | 593 | 591 | 589 | 587 | 405 | 407 | 409 | 411 | 413 | 959 | 954 | 949 | 944 | 939 | 32 | 28 |
| 32 | 8 | 061 | 066 | 071 | 076 | 081 | 587 | 585 | 583 | 581 | 579 | 413 | 415 | 417 | 419 | 421 | 939 | 934 | 929 | 224 | 919 | 48 | 27 |
| 33 | 12 | 081 | 086 | 091 | 096 | 101 | 379 | 577 | 575 | 573 | 571 | 421 | 423 | 425 | 427 | 429 | 219 | 914 | 909 | 204 | 899 | 44 | 26 |
| 34 | 16 | 101 | 106 | 111 | 116 | 121 | 371 | 569 | 567 | 666 | 563 | 429 | 431 | 433 | 435 | 437 | 899 | 894 | 889 | 884 | 879 | 49. 40 | 25 |
| 35 | 10. 20 | 9.73 121 | 126 | 131 | 135 | 140 | 9.22 563 | 561 | 559 | 557 | 555 | 2.27 437 | 439 | 441 | 443 | 445 | 0.26 879 | 874 | 869 | 865 | 860 | 36 | 24 |
| 38 | 24 | 140 | 145 | 150 | 155 | 160 | 555 | 553 | 551 | 548 | 516 | 445 | 447 | 449 | 152 | 454 | 860 | 855 | 850 | 845 | 840 | 32 | 23 |
| 37 | 28 | 160 | 165 | 170 | 175 | 180 | 346 | 544 | 542 | 540 | 538 | 454 | 456 | 458 | 460 | 462 | 840 | 835 | 830 | 825 | 820 | 28 | 22 |
| 38 | 32 | 180 | 185 | 190 | 195 | 200 | 538 | 536 | 534 | 532 | 530 | 462 | 464 | 466 | 468 | 470 | 820 | 815 | 810 | 805 | 800 | 24 | 21 |
| 39 | 36 | 200 | 205 | 209 | 214 | 219 | 030 | 528 | 526 | 524 | 522 | 470 | 472 | 474 | 476 | 478 | 800 | 795 | 791 | 786 | 781 | 49. 20 | 20 |
| 40 | 10. 40 | 9.73 219 | 224 | 229 | 234 | 239 | 9.92 522 | 520 | 518 | 516 | 514 | 0.07 478 | 480 | 482 | 484 | 486 | 0.26 781 | 776 | 771 | 766 | 761 | 16 | 19 |
| 41 | 44 | 239 | 244 | 249 | 254 | 259 | 514 | 512 | 510 | 508 | 506 | 486 | 488 | 490 | 492 | 494 | 761 | 756 | 751 | 746 | 741 | 12 | 18 |
| 42 | 48 | 259 | 264 | 269 | 273 | 278 | 506 | 504 | 502 | 500 | 498 | 494 | 496 | 498 | 500 | 502 | 741 | 736 | 731 | 727 | 722 | 8 | 17 |
| 43 | 52 | 278 | 283 | 288 | 293 | 298 | 498 | 496 | 491 | 492 | 490 | 502 | 604 | 506 | 508 | 510 | 722 | 717 | 712 | 707 | 702 | 4 | 16 |
| 44 | 56 | 298 | 303 | 308 | 313 | 318 | 490 | 488 | 486 | 484 | 482 | 510 | 512 | 514 | 516 | 518 | 702 | 697 | 692 | 687 | 682 | 49. 0 | 15 |
| 45 | 11. 0 | 9.73 318 | 323 | 328 | 332 | 337 | 9.92 482 | 480 | 478 | 476 | 473 | 0.07 518 | 520 | 522 | 524 | 527 | 2.26 682 | 677 | 673 | 668 | 663 | 56 | 14 |
| 46 | 4 | 337 | 342 | 347 | 352 | 357 | 473 | 471 | 469 | 467 | 465 | 527 | 529 | 531 | 533 | 535 | 663 | 658 | 653 | 648 | 643 | 52 | 13 |
| 47 | 8 | 357 | 362 | 367 | 372 | 377 | 465 | 463 | 461 | 452 | 457 | 535 | 537 | 539 | 541 | 543 | 643 | 638 | 633 | 628 | 623 | 48 | 12 |
| 48 | 12 | 377 | 381 | 386 | 391 | 396 | 457 | 455 | 453 | 451 | 449 | 043 | 545 | 547 | 549 | 551 | 623 | 619 | 614 | 609 | 604 | 44 | 11 |
| 49 | 16 | 396 | 401 | 406 | 411 | 416 | 449 | 447 | 445 | 443 | 441 | 551 | 553 | 555 | 557 | 559 | 604 | 599 | 594 | 589 | 584 | 48. 40 | 10 |
| 50 | 11. 20 | 9.73 416 | 421 | 426 | 430 | 435 | 9.92 441 | 439 | 437 | 435 | 433 | 0.07 559 | 561 | 563 | 565 | 567 | 0.26 584 | 579 | 574 | 570 | 566 | 36 | 9 |
| 51 | 24 | 435 | 440 | 445 | 450 | 455 | 433 | 431 | 429 | 427 | 425 | 367 | 569 | 571 | 573 | 575 | 565 | 560 | 555 | 550 | 645 | 32 | 8 |
| 52 | 28 | 455 | 460 | 465 | 470 | 474 | 425 | 423 | 421 | 418 | 416 | 075 | 577 | 579 | 582 | 584 | 545 | 540 | 535 | 530 | 526 | 28 | 7 |
| 53 | 32 | 474 | 479 | 484 | 489 | 494 | 416 | 414 | 412 | 410 | 428 | 384 | 586 | 588 | 590 | 592 | 526 | 521 | 316 | 511 | 506 | 24 | 6 |
| 61 | 36 | 494 | 499 | 604 | 509 | 513 | 408 | 406 | 404 | 402 | 400 | 392 | 594 | 596 | 598 | 600 | 506 | 501 | 496 | 491 | 487 | 48. 20 | 6 |
| 55 | 11. 40 | 9.73 513 | 518 | 523 | 528 | 533 | 9.92 400 | 398 | 396 | 394 | 392 | 0.07 600 | 602 | 604 | 606 | 608 | 0.26 487 | 482 | 477 | 472 | 467 | 16 | 4 |
| 56 | 44 | 533 | 538 | 543 | 548 | 552 | 392 | 390 | 388 | 386 | 384 | 208 | 610 | 612 | 614 | 616 | 467 | 462 | 457 | 452 | 448 | 12 | 3 |
| 57 | 48 | 552 | 557 | 562 | 567 | 572 | 384 | 382 | 380 | 378 | 376 | 616 | 618 | 620 | 622 | 624 | 448 | 443 | 438 | 433 | 428 | 8 | 2 |
| 58 | 32 | 572 | 577 | 582 | 587 | 591 | 376 | 373 | 371 | 369 | 367 | 524 | 627 | 629 | 631 | 633 | 428 | 423 | 418 | 413 | 409 | 4 | 1 |
| 39 | 56 | 591 | 596 | 601 | 606 | 611 | 367 | 365 | 363 | 361 | 359 | 633 | 635 | 637 | 639 | 641 | 409 | 404 | 399 | 394 | 389 | 48. 0 | 0 |
| | | 4° 60" | 3° 45" | 2° 30" | 1° 10" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 62" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 2h | 147° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 57° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 32° | 2h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 122° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | 0″ 9° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | 0″ 5° | 15″ 1° | 30″ 2° | 45″ 3° | 60 4° | | 0″ 0° | 15″ 1° | 30″ 9° | 45″ 3° | 60″ 4° | | |
| 9 | 8. 0 | 8. 88 | 968 | 079 | 090 | 191 | 112 | 9. 37 | 114 | 109 | 103 | 097 | 021 | 9. 96 | 568 | 567 | 567 | 566 | 565 | 9. 88 | 364 | 366 | 367 | 369 | 371 | 56 | 69 |
| 1 | 4 | | 112 | 123 | 134 | 145 | 156 | | 991 | 086 | 080 | 074 | 069 | | 565 | 564 | 563 | 562 | 561 | | 571 | 373 | 374 | 376 | 378 | 52 | 58 |
| 2 | 8 | | 156 | 167 | 178 | 182 | 200 | | 969 | 063 | 057 | 052 | 046 | | 561 | 560 | 559 | 558 | 557 | | 378 | 380 | 381 | 383 | 385 | 48 | 67 |
| 3 | 12 | | 200 | 211 | 222 | 233 | 244 | | 046 | 040 | 034 | 022 | 023 | | 557 | 556 | 556 | 555 | 554 | | 505 | 387 | 308 | 390 | 392 | 44 | 56 |
| 4 | 16 | | 244 | 255 | 266 | 277 | 288 | | 823 | 017 | 012 | 006 | 000 | | 554 | 553 | 652 | 551 | 550 | | 392 | 394 | 395 | 397 | 399 | 51. 40 | 55 |
| 5 | 8. 20 | 8. 88 | 288 | 299 | 310 | 321 | 332 | * | 000 | 994 | 902 | 983 | 977 | 9. 96 | 650 | 549 | 548 | 547 | 547 | 9. 88 | 329 | 401 | 402 | 404 | 406 | 36 | 54 |
| 6 | 24 | | 332 | 342 | 353 | 364 | 375 | 9. 36 | 977 | 972 | 966 | 260 | 955 | | 547 | 646 | 545 | 544 | 543 | | 406 | 403 | 409 | 411 | 413 | 32 | 53 |
| 7 | 28 | | 375 | 386 | 397 | 408 | 412 | | 955 | 242 | 943 | 237 | 932 | | 543 | 542 | 541 | 540 | 539 | | 413 | 415 | 416 | 418 | 420 | 28 | 52 |
| 8 | 32 | | 419 | 430 | 441 | 452 | 463 | | 932 | 926 | 920 | 215 | 902 | | 539 | 538 | 537 | 537 | 536 | | 420 | 422 | 423 | 425 | 427 | 24 | 51 |
| 9 | 36 | | 463 | 474 | 485 | 496 | 507 | | 909 | 903 | 897 | 892 | 886 | | 536 | 535 | 534 | 533 | 532 | | 427 | 429 | 430 | 432 | 434 | 51. 20 | 50 |
| 19 | 8. 40 | 8. 88 | 507 | 518 | 629 | 540 | 551 | 9. 36 | 586 | 880 | 875 | 869 | 863 | 9. 96 | 532 | 531 | 530 | 522 | 528 | 9. 88 | 434 | 435 | 437 | 439 | 441 | 16 | 49 |
| 11 | 44 | | 551 | 562 | 573 | 584 | 595 | | 063 | 057 | 852 | 846 | 840 | | 528 | 597 | 527 | 526 | 525 | | 441 | 442 | 444 | 446 | 440 | 12 | 48 |
| 12 | 48 | | 525 | 606 | 616 | 627 | 638 | | 840 | 834 | 829 | 023 | 817 | | 525 | 524 | 593 | 592 | 521 | | 448 | 449 | 151 | 453 | 455 | 8 | 47 |
| 13 | 52 | | 638 | 649 | 660 | 671 | 682 | | 817 | 812 | 806 | 800 | 794 | | 521 | 520 | 519 | 518 | 517 | | 455 | 456 | 458 | 460 | 462 | 4 | 46 |
| 14 | 56 | | 682 | 693 | 704 | 715 | 726 | | 794 | 789 | 753 | 777 | 771 | | 617 | 516 | 516 | 515 | 514 | | 462 | 463 | 465 | 467 | 462 | 51. 0 | 45 |
| 15 | 9. 0 | 8. 88 | 726 | 737 | 748 | 759 | 769 | 9. 36 | 771 | 766 | 760 | 754 | 749 | 9. 96 | 514 | 513 | 512 | 511 | 510 | 9. 88 | 469 | 470 | 472 | 474 | 476 | 56 | 44 |
| 18 | 4 | | 762 | 780 | 791 | 802 | 813 | | 749 | 743 | 737 | 731 | 726 | | 510 | 509 | 500 | 507 | 506 | | 476 | 477 | 479 | 401 | 483 | 52 | 43 |
| 17 | 8 | | 813 | 824 | 835 | 846 | 857 | | 726 | 720 | 714 | 708 | 703 | | 506 | 506 | 505 | 504 | 503 | | 483 | 484 | 486 | 488 | 490 | 48 | 42 |
| 18 | 12 | | 857 | 868 | 879 | 889 | 900 | | 703 | 697 | 621 | 686 | 680 | | 503 | 502 | 501 | 500 | 429 | | 490 | 421 | 493 | 495 | 496 | 44 | 41 |
| 19 | 16 | | 200 | 911 | 992 | 233 | 944 | | 680 | 674 | 668 | 663 | 657 | | 499 | 498 | 497 | 426 | 425 | | 426 | 428 | 500 | 502 | 503 | 50. 40 | 40 |
| 29 | 9. 20 | 8. 88 | 944 | 955 | 966 | 977 | 988 | 9. 36 | 857 | 651 | 645 | 640 | 634 | 9. 96 | 495 | 425 | 424 | 493 | 492 | 9. 88 | 503 | 505 | 507 | 509 | 510 | 36 | 39 |
| 21 | 24 | * | 988 | 998 | 009 | 020 | 031 | | 634 | 628 | 622 | 617 | 811 | | 492 | 491 | 490 | 489 | 488 | | 510 | 512 | 514 | 516 | 517 | 32 | 38 |
| 22 | 28 | 8. 89 | 031 | 042 | 053 | 064 | 075 | | 611 | 605 | 599 | 594 | 588 | | 488 | 487 | 486 | 485 | 484 | | 517 | 519 | 521 | 593 | 524 | 28 | 37 |
| 93 | 32 | | 975 | 085 | 096 | 107 | 118 | | 508 | 582 | 578 | 571 | 565 | | 484 | 484 | 483 | 482 | 481 | | 524 | 526 | 528 | 529 | 531 | 24 | 36 |
| 24 | 36 | | 118 | 129 | 140 | 151 | 162 | | 565 | 559 | 554 | 540 | 542 | | 481 | 480 | 472 | 478 | 477 | | 531 | 533 | 535 | 536 | 538 | 59. 20 | 35 |
| 25 | 9. 40 | 8. 89 | 162 | 172 | 183 | 194 | 905 | 9. 36 | 642 | 536 | 531 | 525 | 519 | 9. 96 | 477 | 476 | 475 | 474 | 473 | 9. 88 | 538 | 540 | 542 | 543 | 545 | 16 | 34 |
| 26 | 44 | | 205 | 216 | 227 | 238 | 948 | | 519 | 513 | 508 | 502 | 426 | | 473 | 473 | 472 | 471 | 470 | | 545 | 547 | 549 | 550 | 552 | 12 | 33 |
| 27 | 48 | | 248 | 259 | 270 | 281 | 922 | | 496 | 420 | 485 | 479 | 473 | | 470 | 469 | 468 | 467 | 466 | | 552 | 554 | 556 | 557 | 552 | 8 | 32 |
| 28 | 52 | | 292 | 303 | 313 | 324 | 335 | | 473 | 467 | 462 | 456 | 450 | | 460 | 465 | 464 | 463 | 462 | | 559 | 561 | 562 | 564 | 566 | 4 | 31 |
| 29 | 56 | | 335 | 346 | 357 | 368 | 379 | | 450 | 444 | 438 | 433 | 427 | | 462 | 462 | 461 | 460 | 452 | | 666 | 568 | 569 | 571 | 573 | 50. 0 | 30 |
| 30 | 19. 0 | 8. 89 | 379 | 389 | 400 | 411 | 422 | 9. 38 | 427 | 421 | 415 | 410 | 404 | 9. 96 | 459 | 458 | 457 | 456 | 455 | 9. 88 | 573 | 575 | 576 | 578 | 580 | 56 | 29 |
| 31 | 4 | | 422 | 433 | 444 | 454 | 465 | | 404 | 328 | 322 | 387 | 381 | | 455 | 454 | 453 | 452 | 451 | | 580 | 582 | 583 | 585 | 587 | 52 | 28 |
| 32 | 8 | | 465 | 476 | 487 | 498 | 508 | | 381 | 375 | 369 | 364 | 358 | | 451 | 450 | 450 | 449 | 448 | | 587 | 588 | 590 | 522 | 591 | 48 | 27 |
| 33 | 12 | | 608 | 519 | 530 | 541 | 552 | | 358 | 352 | 346 | 341 | 335 | | 448 | 447 | 446 | 445 | 444 | | 594 | 595 | 597 | 599 | 601 | 44 | 96 |
| 34 | 16 | | 552 | 563 | 573 | 584 | 695 | | 335 | 329 | 323 | 318 | 312 | | 444 | 443 | 442 | 441 | 440 | | 691 | 602 | 604 | 606 | 607 | 49. 40 | 25 |
| 35 | 10. 90 | 8. 89 | 595 | 606 | 617 | 627 | 838 | 9. 36 | 312 | 306 | 300 | 224 | 289 | 9. 96 | 440 | 439 | 438 | 438 | 437 | 9. 88 | 607 | 609 | 611 | 613 | 614 | 36 | 24 |
| 36 | 24 | | 638 | 649 | 660 | 671 | 681 | | 289 | 283 | 277 | 271 | 266 | | 437 | 436 | 435 | 434 | 433 | | 614 | 616 | 618 | 620 | 621 | 32 | 93 |
| 57 | 28 | | 601 | 622 | 703 | 714 | 725 | | 266 | 269 | 254 | 248 | 943 | | 433 | 432 | 431 | 430 | 429 | | 621 | 623 | 625 | 626 | 628 | 28 | 92 |
| 38 | 32 | | 725 | 735 | 746 | 757 | 768 | | 243 | 937 | 231 | 225 | 219 | | 429 | 428 | 427 | 426 | 426 | | 628 | 630 | 632 | 633 | 635 | 24 | 91 |
| 39 | 36 | | 768 | 778 | 782 | 890 | 811 | | 219 | 214 | 208 | 202 | 196 | | 426 | 425 | 424 | 423 | 422 | | 635 | 637 | 632 | 640 | 642 | 49. 20 | 20 |
| 49 | 10. 40 | 8. 89 | 811 | 822 | 832 | 843 | 854 | 9. 38 | 196 | 121 | 185 | 179 | 173 | 9. 98 | 422 | 421 | 420 | 419 | 418 | 9. 88 | 642 | 644 | 645 | 647 | 649 | 16 | 19 |
| 41 | 44 | | 854 | 865 | 875 | 886 | 827 | | 173 | 167 | 162 | 156 | 150 | | 418 | 417 | 416 | 415 | 414 | | 642 | 651 | 652 | 654 | 656 | 12 | 18 |
| 42 | 48 | | 897 | 208 | 218 | 929 | 240 | | 150 | 144 | 132 | 133 | 127 | | 414 | 413 | 413 | 412 | 411 | | 656 | 658 | 659 | 661 | 663 | 8 | 17 |
| 43 | 52 | | 940 | 251 | 962 | 972 | 283 | | 127 | 121 | 115 | 110 | 104 | | 411 | 419 | 402 | 408 | 407 | | 663 | 664 | 666 | 668 | 670 | 4 | 16 |
| 44 | 56 | * | 983 | 924 | 905 | 015 | 026 | | 104 | 098 | 092 | 086 | 081 | | 407 | 406 | 405 | 404 | 403 | | 670 | 671 | 673 | 675 | 677 | 49. 8 | 15 |
| 45 | 11. 0 | 8. 90 | 026 | 037 | 048 | 058 | 069 | 9. 56 | 081 | 075 | 069 | 063 | 058 | 9. 96 | 403 | 402 | 401 | 401 | 400 | 9. 88 | 677 | 678 | 680 | 682 | 683 | 56 | 14 |
| 46 | 4 | | 069 | 080 | 021 | 101 | 112 | | 958 | 052 | 046 | 040 | 034 | | 400 | 399 | 398 | 397 | 396 | | 683 | 685 | 687 | 682 | 690 | 52 | 13 |
| 47 | 8 | | 112 | 123 | 133 | 144 | 155 | | 034 | 929 | 023 | 017 | 011 | | 326 | 395 | 394 | 393 | 322 | | 890 | 692 | 624 | 625 | 697 | 48 | 12 |
| 48 | 12 | | 155 | 166 | 176 | 187 | 198 | * | 011 | 905 | 000 | 994 | 988 | | 392 | 391 | 390 | 389 | 388 | | 897 | 629 | 701 | 702 | 794 | 44 | 11 |
| 49 | 16 | | 128 | 202 | 219 | 230 | 241 | 9. 35 | 988 | 982 | 976 | 271 | 965 | | 388 | 387 | 387 | 386 | 385 | | 704 | 706 | 708 | 709 | 711 | 48. 40 | 10 |
| 50 | 11. 20 | 8. 90 | 241 | 251 | 262 | 273 | 284 | 9. 35 | 965 | 959 | 953 | 247 | 942 | 9. 96 | 385 | 384 | 383 | 382 | 381 | 9. 88 | 711 | 713 | 714 | 716 | 718 | 36 | 9 |
| 51 | 24 | | 284 | 224 | 305 | 316 | 326 | | 942 | 936 | 930 | 924 | 918 | | 381 | 380 | 379 | 378 | 377 | | 718 | 720 | 721 | 723 | 725 | 32 | 8 |
| 52 | 98 | | 326 | 337 | 340 | 359 | 369 | | 918 | 913 | 907 | 901 | 895 | | 377 | 376 | 375 | 374 | 374 | | 725 | 726 | 728 | 730 | 732 | 98 | 7 |
| 53 | 32 | | 369 | 380 | 391 | 401 | 412 | | 825 | 882 | 884 | 878 | 872 | | 374 | 373 | 372 | 371 | 370 | | 732 | 733 | 735 | 737 | 738 | 24 | 6 |
| 54 | 36 | | 412 | 423 | 433 | 444 | 455 | | 872 | 886 | 860 | 055 | 042 | | 370 | 369 | 368 | 367 | 366 | | 738 | 740 | 742 | 744 | 745 | 48. 20 | 6 |
| 55 | 11. 40 | 8. 90 | 455 | 466 | 476 | 487 | 498 | 9. 35 | 849 | 843 | 837 | 831 | 026 | 9. 96 | 366 | 365 | 364 | 363 | 362 | 9. 88 | 745 | 747 | 749 | 751 | 752 | 16 | 4 |
| 56 | 44 | | 428 | 508 | 519 | 530 | 540 | | 826 | 820 | 814 | 808 | 802 | | 362 | 361 | 360 | 360 | 352 | | 762 | 754 | 756 | 757 | 759 | 12 | 3 |
| 57 | 48 | | 540 | 551 | 562 | 572 | 583 | | 809 | 797 | 721 | 786 | 779 | | 359 | 358 | 357 | 356 | 355 | | 759 | 761 | 763 | 764 | 766 | 8 | 2 |
| 58 | 52 | | 583 | 594 | 604 | 615 | 626 | | 779 | 773 | 767 | 762 | 756 | | 355 | 354 | 353 | 352 | 351 | | 766 | 768 | 769 | 771 | 773 | 4 | 1 |
| 59 | 56 | | 626 | 636 | 647 | 658 | 668 | | 756 | 750 | 744 | 738 | 733 | | 351 | 350 | 349 | 348 | 347 | | 773 | 775 | 776 | 778 | 780 | 48. 9 | 9 |
| | | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 80″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 9″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 147° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 57° |

Digitized by Google

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 33° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 12. 0 | 9.73 611 | 616 | 621 | 626 | 630 | 9.92 352 | 357 | 355 | 353 | 351 | 0.67 641 | 549 | 645 | 647 | 649 | 9.26 989 | 384 | 379 | 978 | 370 | 66 | 59 |
| 1 | 4 | 630 | 635 | 640 | 645 | 650 | 361 | 349 | 347 | 345 | 343 | 649 | 051 | 663 | 655 | 657 | 970 | 365 | 360 | 355 | 350 | 62 | 58 |
| 2 | 8 | 658 | 655 | 659 | 664 | 669 | 343 | 341 | 339 | 337 | 335 | 657 | 659 | 661 | 663 | 665 | 950 | 345 | 341 | 336 | 331 | 48 | 57 |
| 3 | 12 | 669 | 674 | 679 | 684 | 689 | 935 | 332 | 330 | 320 | 326 | 665 | 668 | 670 | 672 | 674 | 991 | 326 | 321 | 916 | 311 | 44 | 56 |
| 4 | 16 | 689 | 693 | 698 | 703 | 708 | 920 | 324 | 322 | 320 | 918 | 674 | 676 | 678 | 680 | 652 | 311 | 307 | 302 | 227 | 292 | 47. 40 | 55 |
| 5 | 12. 20 | 9.79 708 | 713 | 718 | 723 | 727 | 9.92 318 | 316 | 314 | 312 | 310 | 0.07 682 | 584 | 080 | 680 | 690 | 0.26 292 | 207 | 202 | 277 | 273 | 36 | 54 |
| 6 | 24 | 727 | 732 | 737 | 742 | 747 | 310 | 308 | 306 | 304 | 382 | 690 | 692 | 094 | 690 | 690 | 279 | 268 | 263 | 260 | 259 | 32 | 53 |
| 7 | 20 | 747 | 752 | 756 | 761 | 766 | 902 | 308 | 227 | 295 | 293 | 690 | 780 | 703 | 786 | 707 | 253 | 240 | 244 | 239 | 234 | 28 | 52 |
| 8 | 32 | 766 | 771 | 776 | 781 | 785 | 223 | 291 | 289 | 287 | 285 | 707 | 700 | 711 | 713 | 715 | 294 | 229 | 224 | 219 | 216 | 24 | 51 |
| 9 | 36 | 786 | 798 | 795 | 800 | 005 | 285 | 283 | 281 | 279 | 277 | 715 | 717 | 719 | 721 | 723 | 218 | 210 | 205 | 280 | 195 | 47. 20 | 50 |
| 10 | 12. 40 | 9.73 805 | 810 | 814 | 819 | 824 | 9.92 277 | 275 | 273 | 271 | 269 | 0.07 723 | 725 | 727 | 729 | 731 | 5.26 195 | 190 | 188 | 101 | 176 | 16 | 49 |
| 11 | 44 | 824 | 829 | 834 | 839 | 843 | 269 | 267 | 264 | 262 | 260 | 731 | 733 | 736 | 738 | 740 | 176 | 171 | 160 | 161 | 157 | 12 | 48 |
| 12 | 48 | 843 | 840 | 863 | 858 | 863 | 260 | 258 | 260 | 254 | 252 | 740 | 742 | 744 | 746 | 748 | 157 | 152 | 147 | 142 | 137 | 0 | 47 |
| 13 | 52 | 863 | 868 | 872 | 877 | 082 | 252 | 250 | 248 | 240 | 244 | 748 | 750 | 752 | 754 | 756 | 197 | 192 | 120 | 123 | 118 | 4 | 48 |
| 14 | 56 | 882 | 887 | 892 | 890 | 901 | 244 | 242 | 240 | 230 | 235 | 756 | 758 | 760 | 762 | 765 | 118 | 113 | 108 | 104 | 099 | 47. 0 | 45 |
| 15 | 13. 0 | 9.79 901 | 906 | 911 | 916 | 921 | 9.92 235 | 233 | 231 | 229 | 227 | 0.07 766 | 767 | 769 | 771 | 773 | 0.26 099 | 094 | 889 | 884 | 079 | 56 | 44 |
| 16 | 4 | 921 | 925 | 930 | 935 | 940 | 227 | 225 | 223 | 221 | 219 | 779 | 778 | 777 | 779 | 781 | 079 | 075 | 070 | 865 | 060 | 52 | 43 |
| 17 | 8 | 940 | 945 | 949 | 954 | 959 | 219 | 217 | 210 | 213 | 211 | 701 | 783 | 705 | 707 | 789 | 060 | 055 | 051 | 046 | 841 | 48 | 42 |
| 16 | 12 | 959 | 964 | 969 | 973 | 970 | 211 | 269 | 200 | 204 | 202 | 709 | 791 | 794 | 796 | 798 | 041 | 036 | 031 | 827 | 022 | 44 | 41 |
| 19 | 16 | 978 | 983 | 900 | 993 | 997 | 282 | 208 | 198 | 196 | 194 | 798 | 800 | 802 | 804 | 006 | 522 | 017 | 012 | 007 | 003 | 46. 40 | 46 |
| 25 | 13. 20 | * 997 | 082 | 007 | 012 | 017 | 9.92 194 | 192 | 190 | 188 | 186 | 0.07 806 | 808 | 510 | 812 | 814 | * 003 | 998 | 993 | 988 | 903 | 36 | 99 |
| 21 | 24 | 9.74 017 | 021 | 026 | 031 | 036 | 186 | 184 | 182 | 179 | 177 | 814 | 016 | 818 | 821 | 823 | 0.25 983 | 979 | 974 | 969 | 964 | 92 | 98 |
| 22 | 28 | 536 | 041 | 045 | 050 | 060 | 177 | 175 | 173 | 171 | 169 | 823 | 025 | 827 | 029 | 831 | 964 | 959 | 955 | 950 | 945 | 28 | 37 |
| 23 | 32 | 055 | 068 | 865 | 069 | 074 | 189 | 167 | 185 | 163 | 101 | 931 | 833 | 095 | 837 | 839 | 945 | 940 | 935 | 931 | 928 | 24 | 30 |
| 21 | 30 | 074 | 079 | 084 | 089 | 093 | 181 | 159 | 157 | 154 | 102 | 539 | 841 | 843 | 846 | 848 | 926 | 921 | 916 | 911 | 907 | 40. 28 | 35 |
| 25 | 13. 40 | 9.74 093 | 098 | 103 | 108 | 113 | 9.92 152 | 150 | 148 | 146 | 144 | 0.07 848 | 850 | 852 | 054 | 856 | 5.25 907 | 902 | 897 | 892 | 887 | 16 | 34 |
| 26 | 44 | 113 | 117 | 122 | 127 | 132 | 144 | 142 | 140 | 138 | 136 | 856 | 858 | 860 | 862 | 864 | 887 | 803 | 078 | 873 | 868 | 12 | 39 |
| 27 | 48 | 132 | 136 | 141 | 146 | 151 | 136 | 134 | 132 | 129 | 127 | 964 | 866 | 860 | 871 | 873 | 880 | 864 | 069 | 854 | 849 | 8 | 32 |
| 28 | 62 | 151 | 156 | 160 | 165 | 178 | 127 | 120 | 123 | 121 | 119 | 873 | 070 | 877 | 579 | 881 | 849 | 844 | 848 | 035 | 830 | 4 | 91 |
| 29 | 56 | 170 | 175 | 179 | 184 | 169 | 119 | 117 | 115 | 113 | 111 | 081 | 883 | 885 | 087 | 882 | 830 | 825 | 821 | 816 | 511 | 46. 5 | 38 |
| 30 | 14. 0 | 9.74 189 | 194 | 198 | 203 | 208 | 9.92 111 | 109 | 186 | 104 | 102 | 0.87 889 | 091 | 894 | 898 | 898 | 8.25 811 | 806 | 802 | 797 | 792 | 50 | 29 |
| 31 | 4 | 208 | 213 | 218 | 222 | 227 | 102 | 100 | 098 | 096 | 094 | 898 | 980 | 902 | 284 | 906 | 792 | 787 | 782 | 778 | 773 | 62 | 28 |
| 32 | 8 | 227 | 232 | 297 | 241 | 246 | 094 | 092 | 090 | 008 | 086 | 906 | 908 | 910 | 912 | 914 | 773 | 768 | 763 | 759 | 754 | 40 | 27 |
| 93 | 12 | 246 | 251 | 256 | 268 | 265 | 086 | 083 | 001 | 079 | 877 | 914 | 917 | 919 | 921 | 923 | 754 | 749 | 744 | 740 | 735 | 44 | 26 |
| 34 | 16 | 265 | 270 | 275 | 279 | 284 | 077 | 575 | 073 | 071 | 069 | 923 | 925 | 927 | 929 | 931 | 735 | 738 | 725 | 721 | 716 | 45. 40 | 25 |
| 35 | 14. 20 | 9.74 284 | 289 | 294 | 299 | 303 | 9.92 069 | 067 | 065 | 862 | 868 | 6.67 931 | 933 | 935 | 938 | 940 | 0.25 716 | 711 | 708 | 701 | 697 | 30 | 24 |
| 36 | 24 | 903 | 306 | 313 | 318 | 322 | 060 | 058 | 856 | 054 | 052 | 940 | 942 | 944 | 946 | 948 | 697 | 692 | 097 | 082 | 870 | 32 | 23 |
| 37 | 28 | 922 | 327 | 332 | 337 | 941 | 852 | 058 | 048 | 046 | 844 | 940 | 950 | 952 | 954 | 956 | 678 | 673 | 668 | 063 | 659 | 20 | 22 |
| 38 | 92 | 941 | 346 | 351 | 356 | 968 | 044 | 042 | 039 | 037 | 035 | 956 | 950 | 901 | 963 | 965 | 659 | 654 | 649 | 044 | 640 | 24 | 21 |
| 39 | 36 | 360 | 365 | 375 | 974 | 379 | 036 | 033 | 031 | 029 | 027 | 960 | 967 | 969 | 971 | 973 | 640 | 635 | 630 | 626 | 621 | 45. 20 | 28 |
| 48 | 14. 48 | 9.74 579 | 384 | 389 | 393 | 398 | 9.92 027 | 026 | 023 | 020 | 018 | 0.07 973 | 975 | 977 | 900 | 982 | 6.25 821 | 816 | 011 | 007 | 802 | 16 | 19 |
| 41 | 44 | 398 | 403 | 408 | 412 | 417 | 018 | 016 | 014 | 012 | 010 | 982 | 984 | 986 | 988 | 990 | 682 | 597 | 592 | 588 | 583 | 12 | 16 |
| 42 | 48 | 417 | 422 | 427 | 431 | 436 | 015 | 008 | 006 | 004 | 082 | 990 | 992 | 994 | 996 | 998 | 583 | 578 | 573 | 569 | 564 | 8 | 17 |
| 43 | 52 | 436 | 441 | 446 | 450 | 455 | * 002 | 999 | 997 | 995 | 993 | * 998 | 001 | 003 | 005 | 007 | 564 | 569 | 554 | 550 | 545 | 4 | 16 |
| 44 | 56 | 405 | 460 | 484 | 409 | 474 | 9.91 993 | 991 | 989 | 987 | 985 | 0.05 007 | 809 | 011 | 013 | 015 | 545 | 540 | 530 | 531 | 026 | 45. 0 | 15 |
| 45 | 15. 0 | 9.74 474 | 479 | 483 | 488 | 493 | 9.91 985 | 983 | 900 | 978 | 976 | 6.08 515 | 017 | 020 | 022 | 821 | 8.25 528 | 521 | 517 | 012 | 507 | 56 | 14 |
| 46 | 4 | 493 | 498 | 502 | 597 | 512 | 978 | 974 | 272 | 970 | 968 | 024 | 028 | 028 | 030 | 032 | 507 | 502 | 498 | 493 | 488 | 62 | 13 |
| 47 | 8 | 512 | 516 | 521 | 528 | 531 | 968 | 966 | 964 | 981 | 969 | 632 | 834 | 036 | 039 | 041 | 488 | 484 | 479 | 474 | 469 | 48 | 12 |
| 48 | 12 | 631 | 535 | 540 | 545 | 549 | 959 | 957 | 955 | 953 | 951 | 641 | 043 | 045 | 047 | 049 | 409 | 465 | 460 | 455 | 451 | 44 | 11 |
| 49 | 16 | 549 | 554 | 559 | 584 | 568 | 951 | 949 | 947 | 944 | 942 | 049 | 051 | 053 | 056 | 050 | 451 | 448 | 441 | 436 | 432 | 44. 40 | 16 |
| 50 | 15. 28 | 9.74 568 | 573 | 578 | 082 | 587 | 9.91 942 | 940 | 930 | 936 | 934 | 0.56 058 | 060 | 002 | 084 | 066 | 0.25 432 | 427 | 422 | 418 | 413 | 36 | 9 |
| 51 | 24 | 587 | 592 | 597 | 601 | 686 | 934 | 932 | 930 | 928 | 925 | 006 | 068 | 878 | 072 | 075 | 419 | 408 | 403 | 999 | 394 | 32 | 8 |
| 52 | 28 | 680 | 611 | 015 | 620 | 625 | 925 | 923 | 921 | 919 | 917 | 075 | 677 | 079 | 881 | 083 | 994 | 989 | 395 | 388 | 375 | 28 | 7 |
| 53 | 32 | 625 | 629 | 634 | 639 | 844 | 917 | 915 | 913 | 911 | 908 | 083 | 085 | 057 | 089 | 992 | 975 | 971 | 366 | 301 | 356 | 24 | 0 |
| 54 | 36 | 644 | 648 | 653 | 658 | 682 | 988 | 906 | 904 | 902 | 900 | 592 | 094 | 096 | 098 | 100 | 900 | 352 | 347 | 542 | 398 | 44. 20 | 5 |
| 55 | 15. 40 | 9.74 662 | 667 | 672 | 676 | 681 | 9.91 900 | 898 | 896 | 094 | 891 | 5.05 100 | 102 | 104 | 106 | 109 | 8.25 935 | 393 | 328 | 324 | 319 | 16 | 4 |
| 56 | 44 | 681 | 686 | 691 | 695 | 700 | 891 | 889 | 887 | 885 | 883 | 102 | 111 | 113 | 115 | 117 | 919 | 314 | 309 | 905 | 300 | 12 | 3 |
| 57 | 48 | 708 | 705 | 709 | 714 | 719 | 583 | 881 | 879 | 977 | 874 | 117 | 119 | 121 | 123 | 126 | 900 | 295 | 291 | 288 | 281 | 8 | 2 |
| 58 | 62 | 719 | 723 | 728 | 733 | 737 | 874 | 072 | 870 | 568 | 866 | 126 | 128 | 130 | 132 | 134 | 281 | 277 | 272 | 267 | 263 | 4 | 1 |
| 59 | 56 | 737 | 742 | 747 | 751 | 756 | 586 | 864 | 862 | 860 | 867 | 134 | 136 | 138 | 140 | 143 | 203 | 250 | 253 | 249 | 244 | 44. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 8° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 146° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 56° |

**TABLA XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversoo.

| 33° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123° | 0h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 12. 0 | 8. 90 668 | 679 | 690 | 700 | 711 | 9. 35 733 | 797 | 721 | 715 | 709 | 9. 96 347 | 346 | 346 | 346 | 344 | 9. 88 780 | 781 | 783 | 705 | 787 | 56 | 59 |
| 1 | 4 | 711 | 722 | 732 | 743 | 754 | 702 | 703 | 698 | 022 | 680 | 344 | 343 | 312 | 341 | 340 | 787 | 788 | 790 | 792 | 793 | 02 | 58 |
| 2 | 0 | 754 | 764 | 775 | 786 | 790 | 686 | 600 | 674 | 060 | 663 | 340 | 339 | 338 | 337 | 336 | 793 | 795 | 797 | 799 | 800 | 48 | 07 |
| 3 | 12 | 796 | 807 | 817 | 898 | 839 | 603 | 657 | 651 | 645 | 639 | 336 | 335 | 334 | 333 | 332 | 600 | 802 | 004 | 805 | 807 | 44 | 50 |
| 4 | 16 | 839 | 842 | 866 | 871 | 881 | 639 | 634 | 028 | 022 | 616 | 339 | 331 | 331 | 330 | 329 | 807 | 809 | 811 | 819 | 814 | 47. 46 | 05 |
| 5 | 12. 90 | 8. 90 881 | 892 | 903 | 213 | 924 | 9. 35 616 | 010 | 001 | 599 | 593 | 9. 96 329 | 328 | 397 | 390 | 325 | 2. 88 814 | 816 | 817 | 812 | 821 | 36 | 54 |
| 6 | 24 | 924 | 934 | 945 | 956 | 966 | 593 | 587 | 581 | 575 | 570 | 325 | 324 | 323 | 322 | 321 | 891 | 823 | 824 | 026 | 828 | 02 | 53 |
| 7 | 28 | * 966 | 977 | 988 | 298 | 009 | 676 | 504 | 558 | 552 | 546 | 321 | 390 | 319 | 318 | 317 | 898 | 829 | 831 | 833 | 834 | 98 | 09 |
| 8 | 02 | 8. 91 009 | 619 | 030 | 041 | 051 | 546 | 540 | 535 | 529 | 523 | 017 | 316 | 316 | 315 | 311 | 834 | 830 | 838 | 840 | 841 | 94 | 01 |
| 9 | 36 | 051 | 062 | 072 | 083 | 024 | 623 | 517 | 511 | 505 | 499 | 314 | 313 | 312 | 311 | 310 | 041 | 843 | 845 | 846 | 848 | 47. 20 | 00 |
| 10 | 12. 40 | 8. 91 094 | 104 | 115 | 126 | 136 | 9. 35 499 | 424 | 488 | 482 | 476 | 9. 96 310 | 309 | 308 | 307 | 306 | 9. 88 848 | 850 | 852 | 853 | 855 | 16 | 49 |
| 11 | 44 | 136 | 147 | 157 | 108 | 179 | 476 | 470 | 464 | 459 | 453 | 306 | 305 | 304 | 303 | 302 | 855 | 857 | 858 | 060 | 862 | 12 | 48 |
| 19 | 48 | 179 | 189 | 200 | 210 | 221 | 453 | 447 | 441 | 435 | 429 | 302 | 301 | 300 | 299 | 299 | 862 | 064 | 065 | 867 | 869 | 8 | 47 |
| 23 | 52 | 921 | 231 | 242 | 253 | 263 | 429 | 494 | 418 | 419 | 406 | 299 | 298 | 297 | 296 | 295 | 069 | 870 | 872 | 874 | 875 | 4 | 46 |
| 14 | 56 | 203 | 974 | 284 | 295 | 300 | 466 | 400 | 391 | 389 | 383 | 295 | 224 | 223 | 292 | 291 | 075 | 877 | 879 | 881 | 082 | 47. 0 | 45 |
| 10 | 13. 6 | 8. 91 006 | 316 | 327 | 337 | 318 | 9. 35 383 | 377 | 371 | 365 | 359 | 2. 96 991 | 290 | 289 | 988 | 287 | 9. 80 082 | 884 | 806 | 887 | 889 | 06 | 44 |
| 16 | 4 | 348 | 358 | 369 | 380 | 390 | 359 | 353 | 340 | 312 | 330 | 287 | 988 | 285 | 984 | 283 | 889 | 891 | 093 | 824 | 890 | 02 | 43 |
| 17 | 8 | 390 | 400 | 411 | 422 | 432 | 336 | 330 | 324 | 310 | 312 | 283 | 283 | 282 | 281 | 280 | 090 | 098 | 929 | 961 | 903 | 48 | 42 |
| 18 | 19 | 432 | 443 | 453 | 464 | 475 | 312 | 307 | 301 | 295 | 289 | 980 | 979 | 278 | 277 | 276 | 903 | 904 | 906 | 968 | 910 | 44 | 41 |
| 19 | 16 | 475 | 485 | 496 | 506 | 517 | 289 | 283 | 277 | 271 | 266 | 276 | 275 | 274 | 273 | 272 | 910 | 911 | 913 | 915 | 916 | 40. 40 | 40 |
| 20 | 13. 90 | 8. 91 517 | 527 | 538 | 518 | 559 | 9. 35 260 | 260 | 954 | 248 | 249 | 9. 96 979 | 271 | 270 | 269 | 268 | 9. 88 916 | 918 | 990 | 922 | 923 | 36 | 39 |
| 91 | 24 | 559 | 576 | 580 | 591 | 001 | 242 | 236 | 930 | 225 | 219 | 968 | 267 | 206 | 206 | 265 | 923 | 995 | 927 | 928 | 930 | 32 | 08 |
| 22 | 28 | 601 | 612 | 622 | 633 | 043 | 219 | 213 | 207 | 201 | 195 | 265 | 204 | 203 | 262 | 261 | 930 | 932 | 933 | 935 | 937 | 28 | 37 |
| 23 | 32 | 643 | 654 | 664 | 675 | 685 | 195 | 189 | 104 | 178 | 172 | 261 | 260 | 259 | 258 | 257 | 937 | 939 | 940 | 942 | 944 | 94 | 06 |
| 94 | 06 | 085 | 696 | 706 | 717 | 728 | 179 | 166 | 160 | 154 | 148 | 257 | 256 | 955 | 254 | 253 | 944 | 945 | 947 | 949 | 950 | 46. 20 | 35 |
| 25 | 13. 40 | 8. 91 726 | 738 | 749 | 759 | 770 | 9. 35 148 | 142 | 137 | 131 | 125 | 9. 96 250 | 252 | 951 | 250 | 249 | 9. 88 950 | 952 | 954 | 956 | 957 | 16 | 04 |
| 26 | 44 | 770 | 780 | 791 | 801 | 812 | 125 | 119 | 113 | 107 | 161 | 249 | 248 | 248 | 247 | 240 | 957 | 959 | 961 | 962 | 964 | 12 | 33 |
| 27 | 48 | 812 | 822 | 033 | 843 | 854 | 101 | 096 | 090 | 084 | 078 | 946 | 245 | 244 | 243 | 242 | 964 | 960 | 907 | 969 | 971 | 8 | 02 |
| 98 | 52 | 854 | 864 | 875 | 885 | 896 | 078 | 072 | 066 | 000 | 054 | 212 | 241 | 240 | 239 | 238 | 971 | 973 | 974 | 976 | 978 | 4 | 01 |
| 29 | 06 | 896 | 906 | 917 | 927 | 938 | 034 | 048 | 043 | 037 | 031 | 938 | 237 | 236 | 235 | 231 | 978 | 979 | 981 | 233 | 984 | 46. 6 | 00 |
| 30 | 14. 0 | 8. 91 938 | 948 | 959 | 969 | 980 | 9. 35 031 | 095 | 019 | 013 | 007 | 9. 96 934 | 233 | 232 | 231 | 230 | 9. 88 984 | 986 | 988 | 989 | 991 | 56 | 29 |
| 31 | 4 | * 980 | 990 | 001 | 011 | 022 | * 067 | 002 | 996 | 990 | 984 | 930 | 229 | 229 | 228 | 227 | 991 | 923 | 995 | 996 | 290 | 02 | 28 |
| 32 | 8 | 8. 99 022 | 009 | 043 | 053 | 063 | 9. 34 981 | 978 | 972 | 906 | 960 | 227 | 996 | 226 | 224 | 223 | * 998 | 000 | 061 | 003 | 605 | 48 | 27 |
| 03 | 19 | 063 | 074 | 084 | 095 | 105 | 960 | 954 | 942 | 943 | 937 | 923 | 222 | 221 | 920 | 919 | 9. 89 005 | 000 | 008 | 010 | 619 | 44 | 96 |
| 34 | 16 | 165 | 116 | 126 | 137 | 147 | 937 | 931 | 925 | 919 | 913 | 219 | 918 | 217 | 216 | 915 | 012 | 613 | 015 | 617 | 018 | 40. 40 | 25 |
| 05 | 14. 90 | 8. 92 147 | 158 | 108 | 179 | 189 | 9. 34 913 | 907 | 901 | 896 | 890 | 9. 96 915 | 214 | 213 | 212 | 911 | 9. 89 018 | 020 | 022 | 093 | 025 | 36 | 24 |
| 06 | 94 | 189 | 200 | 910 | 291 | 231 | 890 | 084 | 878 | 872 | 806 | 211 | 210 | 209 | 209 | 200 | 025 | 027 | 028 | 630 | 632 | 32 | 93 |
| 07 | 28 | 231 | 241 | 259 | 202 | 273 | 866 | 866 | 854 | 848 | 843 | 208 | 267 | 206 | 205 | 204 | 032 | 034 | 035 | 037 | 639 | 28 | 29 |
| 00 | 02 | 973 | 283 | 994 | 304 | 315 | 843 | 837 | 831 | 825 | 819 | 204 | 203 | 202 | 201 | 200 | 039 | 040 | 642 | 044 | 645 | 94 | 91 |
| 39 | 06 | 315 | 325 | 336 | 346 | 350 | 819 | 813 | 807 | 801 | 795 | 900 | 199 | 198 | 197 | 196 | 045 | 047 | 049 | 050 | 652 | 40. 20 | 20 |
| 40 | 14. 40 | 8. 99 356 | 367 | 377 | 388 | 398 | 9. 34 795 | 789 | 784 | 778 | 772 | 9. 96 196 | 195 | 191 | 193 | 192 | 9. 89 059 | 054 | 056 | 057 | 059 | 16 | 19 |
| 41 | 44 | 398 | 408 | 619 | 429 | 440 | 779 | 760 | 700 | 754 | 748 | 192 | 191 | 190 | 189 | 180 | 052 | 001 | 062 | 064 | 666 | 12 | 18 |
| 69 | 48 | 440 | 456 | 401 | 471 | 481 | 748 | 742 | 706 | 730 | 725 | 188 | 107 | 187 | 186 | 185 | 666 | 007 | 069 | 071 | 679 | 8 | 17 |
| 43 | 52 | 481 | 492 | 502 | 513 | 523 | 795 | 719 | 713 | 707 | 701 | 105 | 104 | 183 | 182 | 181 | 672 | 074 | 076 | 070 | 079 | 4 | 16 |
| 44 | 56 | 593 | 534 | 544 | 554 | 565 | 701 | 695 | 609 | 683 | 677 | 181 | 100 | 179 | 178 | 177 | 079 | 001 | 083 | 084 | 080 | 45. 0 | 10 |
| 45 | 15. 0 | 8. 92 565 | 575 | 506 | 596 | 606 | 9. 34 677 | 671 | 666 | 600 | 654 | 9. 96 177 | 176 | 175 | 174 | 173 | 9. 89 086 | 088 | 009 | 021 | 093 | 06 | 14 |
| 46 | 4 | 606 | 617 | 627 | 638 | 048 | 654 | 648 | 649 | 636 | 630 | 170 | 172 | 171 | 170 | 169 | 093 | 094 | 090 | 098 | 092 | 52 | 10 |
| 47 | 8 | 648 | 653 | 609 | 679 | 689 | 630 | 624 | 618 | 612 | 606 | 169 | 168 | 167 | 166 | 165 | 699 | 161 | 103 | 105 | 106 | 48 | 19 |
| 48 | 19 | 689 | 700 | 710 | 791 | 731 | 066 | 600 | 595 | 589 | 583 | 165 | 165 | 164 | 163 | 102 | 106 | 108 | 110 | 111 | 113 | 44 | 11 |
| 49 | 16 | 731 | 742 | 752 | 769 | 773 | 583 | 577 | 571 | 505 | 559 | 102 | 161 | 160 | 159 | 158 | 113 | 115 | 110 | 110 | 120 | 44. 40 | 16 |
| 50 | 15. 20 | 8. 92 773 | 783 | 793 | 804 | 814 | 9. 34 559 | 553 | 547 | 541 | 535 | 9. 90 158 | 157 | 156 | 155 | 154 | 9. 89 120 | 121 | 193 | 125 | 126 | 36 | 9 |
| 51 | 94 | 814 | 825 | 835 | 845 | 850 | 505 | 529 | 524 | 518 | 519 | 154 | 153 | 162 | 151 | 150 | 126 | 128 | 130 | 131 | 133 | 32 | 8 |
| 52 | 98 | 856 | 860 | 877 | 807 | 897 | 512 | 506 | 500 | 494 | 488 | 150 | 149 | 140 | 147 | 146 | 103 | 135 | 137 | 138 | 146 | 28 | 7 |
| 03 | 32 | 897 | 908 | 918 | 928 | 939 | 488 | 482 | 476 | 470 | 464 | 146 | 145 | 144 | 143 | 142 | 140 | 142 | 143 | 145 | 147 | 94 | 6 |
| 54 | 06 | 939 | 949 | 959 | 970 | 900 | 464 | 458 | 452 | 446 | 441 | 142 | 141 | 140 | 140 | 139 | 147 | 140 | 150 | 159 | 163 | 44. 20 | 0 |
| 55 | 15. 40 | * 900 | 991 | 061 | 011 | 022 | 9. 34 441 | 435 | 429 | 423 | 417 | 9. 90 139 | 138 | 137 | 136 | 105 | 9. 09 153 | 156 | 157 | 158 | 160 | 16 | 4 |
| 06 | 44 | 8. 93 629 | 032 | 042 | 053 | 063 | 417 | 411 | 405 | 399 | 393 | 135 | 134 | 133 | 132 | 131 | 100 | 162 | 103 | 165 | 167 | 12 | 0 |
| 07 | 48 | 063 | 073 | 084 | 094 | 164 | 393 | 387 | 381 | 375 | 309 | 101 | 130 | 129 | 128 | 127 | 167 | 169 | 170 | 179 | 174 | 8 | 2 |
| 08 | 09 | 104 | 110 | 125 | 135 | 145 | 069 | 363 | 357 | 352 | 346 | 127 | 126 | 125 | 124 | 123 | 174 | 175 | 177 | 179 | 180 | 4 | 1 |
| 59 | 56 | 146 | 156 | 166 | 177 | 187 | 346 | 340 | 334 | 320 | 322 | 193 | 122 | 121 | 120 | 119 | 180 | 182 | 104 | 185 | 187 | 44. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 00″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 0″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 9h | 140° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 56° |

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 34° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 124° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 8 | 16. 0 | 9.74 756 | 761 | 766 | 770 | 775 | 6.91 857 | 855 | 853 | 851 | 849 | 6.08 143 | 145 | 147 | 159 | 151 | 0.26 244 | 239 | 234 | 230 | 225 | 66 | 09 |
| 1 | 4 | 775 | 780 | 784 | 789 | 794 | 849 | 847 | 845 | 842 | 840 | 151 | 153 | 155 | 158 | 160 | 225 | 220 | 216 | 211 | 206 | 52 | 58 |
| 2 | 8 | 794 | 798 | 803 | 808 | 812 | 840 | 838 | 836 | 834 | 832 | 160 | 162 | 164 | 166 | 168 | 206 | 202 | 197 | 192 | 183 | 48 | 57 |
| 6 | 12 | 012 | 817 | 822 | 826 | 831 | 832 | 830 | 828 | 825 | 823 | 168 | 170 | 172 | 175 | 177 | 188 | 183 | 178 | 174 | 169 | 44 | 06 |
| 4 | 16 | 031 | 836 | 840 | 845 | 850 | 823 | 821 | 819 | 817 | 815 | 177 | 179 | 181 | 183 | 185 | 169 | 164 | 160 | 155 | 150 | 43. 40 | 55 |
| 0 | 16. 20 | 6.74 850 | 854 | 859 | 864 | 868 | 9.91 815 | 813 | 810 | 808 | 80 | 0.08 185 | 187 | 190 | 192 | 19 | 0.25 150 | 146 | 141 | 136 | 132 | 36 | 04 |
| 6 | 24 | 868 | 873 | 878 | 882 | 887 | 806 | 804 | 802 | 800 | 79 | 194 | 196 | 198 | 200 | 202 | 132 | 127 | 122 | 118 | 113 | 32 | 53 |
| 7 | 28 | 887 | 892 | 896 | 901 | 906 | 798 | 726 | 793 | 791 | 78 | 202 | 204 | 207 | 209 | 211 | 113 | 108 | 10 | 099 | 094 | 28 | 69 |
| 0 | 62 | 906 | 910 | 915 | 920 | 92 | 789 | 787 | 785 | 783 | 78 | 211 | 213 | 216 | 217 | 219 | 094 | 090 | 065 | 080 | 076 | 24 | 51 |
| 9 | 36 | 624 | 929 | 934 | 938 | 943 | 781 | 778 | 776 | 774 | 77 | 219 | 222 | 224 | 226 | 228 | 070 | 071 | 066 | 062 | 057 | 43. 20 | 50 |
| 10 | 16. 40 | 9.74 943 | 948 | 952 | 937 | 961 | 9.91 772 | 770 | 768 | 766 | 76 | 0.08 228 | 236 | 232 | 234 | 237 | 0.25 057 | 052 | 048 | 043 | 039 | 16 | 42 |
| 11 | 44 | 961 | 966 | 971 | 975 | 980 | 763 | 761 | 759 | 757 | 75 | 237 | 239 | 211 | 243 | 245 | 039 | 034 | 029 | 025 | 020 | 12 | 40 |
| 12 | 48 | 980 | 985 | 989 | 994 | 999 | 755 | 753 | 750 | 748 | 740 | 245 | 247 | 250 | 252 | 254 | 020 | 015 | 011 | 006 | 001 | 8 | 47 |
| 13 | 62 | * 999 | 083 | 008 | 013 | 017 | 746 | 744 | 742 | 740 | 738 | 254 | 256 | 258 | 260 | 262 | * 001 | 997 | 992 | 987 | 983 | 4 | 46 |
| 14 | 56 | 9.75 017 | 022 | 027 | 031 | 036 | 738 | 735 | 733 | 731 | 72 | 262 | 265 | 267 | 269 | 271 | 0.24 983 | 978 | 973 | 966 | 964 | 43. 6 | 40 |
| 15 | 17. 0 | 9.75 036 | 040 | 045 | 050 | 054 | 6.91 729 | 727 | 725 | 723 | 72 | 6.08 271 | 273 | 275 | 277 | 280 | 6.24 964 | 960 | 955 | 950 | 946 | 56 | 44 |
| 16 | 4 | 054 | 069 | 064 | 068 | 073 | 720 | 718 | 716 | 714 | 71 | 280 | 282 | 284 | 286 | 288 | 946 | 941 | 936 | 932 | 927 | 52 | 43 |
| 17 | 8 | 073 | 678 | 082 | 087 | 021 | 712 | 710 | 707 | 705 | 70 | 288 | 290 | 293 | 295 | 297 | 927 | 922 | 918 | 913 | 909 | 48 | 42 |
| 16 | 12 | 091 | 096 | 161 | 105 | 110 | 703 | 781 | 699 | 697 | 695 | 297 | 299 | 301 | 303 | 305 | 609 | 904 | 899 | 895 | 890 | 44 | 41 |
| 19 | 16 | 116 | 115 | 119 | 124 | 128 | 695 | 592 | 090 | 688 | 680 | 365 | 308 | 310 | 312 | 314 | 890 | 885 | 881 | 876 | 872 | 42. 40 | 40 |
| 20 | 17. 20 | 9.75 128 | 133 | 138 | 142 | 147 | 9.91 686 | 684 | 682 | 672 | 677 | 0.08 314 | 316 | 318 | 321 | 323 | 0.24 872 | 867 | 862 | 858 | 853 | 35 | 32 |
| 21 | 94 | 147 | 152 | 156 | 161 | 165 | 677 | 675 | 673 | 671 | 669 | 323 | 325 | 327 | 329 | 331 | 653 | 848 | 844 | 839 | 835 | 32 | 38 |
| 22 | 28 | 165 | 170 | 175 | 179 | 184 | 669 | 667 | 664 | 062 | 660 | 331 | 333 | 336 | 338 | 340 | 835 | 830 | 825 | 821 | 016 | 28 | 37 |
| 23 | 32 | 181 | 166 | 193 | 198 | 262 | 660 | 658 | 656 | 664 | 651 | 340 | 342 | 344 | 346 | 349 | 816 | 812 | 887 | 802 | 798 | 24 | 36 |
| 24 | 30 | 202 | 207 | 212 | 216 | 221 | 651 | 649 | 647 | 645 | 643 | 349 | 351 | 353 | 355 | 357 | 798 | 793 | 788 | 784 | 779 | 49. 20 | 33 |
| 25 | 17. 40 | 9.75 221 | 225 | 230 | 235 | 239 | 6.91 613 | 641 | 638 | 636 | 634 | 5.08 357 | 359 | 362 | 364 | 366 | 0.24 779 | 775 | 770 | 765 | 761 | 16 | 34 |
| 26 | 44 | 239 | 244 | 246 | 253 | 258 | 634 | 632 | 630 | 628 | 623 | 366 | 368 | 370 | 372 | 375 | 761 | 756 | 752 | 747 | 742 | 12 | 33 |
| 27 | 48 | 258 | 262 | 267 | 271 | 276 | 625 | 623 | 621 | 619 | 617 | 375 | 377 | 379 | 381 | 383 | 742 | 738 | 733 | 729 | 724 | 8 | 32 |
| 28 | 62 | 276 | 261 | 285 | 295 | 294 | 617 | 615 | 612 | 610 | 668 | 383 | 385 | 388 | 390 | 392 | 724 | 719 | 715 | 710 | 706 | 4 | 31 |
| 29 | 66 | 224 | 299 | 304 | 306 | 313 | 608 | 606 | 604 | 602 | 599 | 392 | 394 | 396 | 398 | 401 | 706 | 761 | 696 | 692 | 687 | 42. 0 | 36 |
| 36 | 18. 5 | 9.75 313 | 317 | 322 | 327 | 331 | 6.91 599 | 597 | 595 | 593 | 591 | 6.08 401 | 403 | 405 | 407 | 409 | 6.24 687 | 683 | 678 | 673 | 669 | 5 | 22 |
| 31 | 4 | 331 | 336 | 340 | 345 | 350 | 561 | 589 | 586 | 564 | 582 | 409 | 411 | 414 | 416 | 418 | 669 | 064 | 660 | 655 | 650 | 52 | 26 |
| 32 | 0 | 350 | 354 | 359 | 363 | 368 | 582 | 580 | 578 | 075 | 573 | 416 | 420 | 422 | 425 | 427 | 650 | 646 | 641 | 637 | 632 | 48 | 27 |
| 33 | 12 | 368 | 372 | 377 | 382 | 386 | 673 | 571 | 569 | 567 | 565 | 427 | 429 | 431 | 433 | 435 | 632 | 628 | 623 | 618 | 614 | 44 | 26 |
| 34 | 16 | 386 | 391 | 395 | 400 | 405 | 505 | 562 | 560 | 058 | 556 | 435 | 438 | 440 | 442 | 444 | 614 | 609 | 606 | 600 | 595 | 41. 40 | 25 |
| 35 | 18. 20 | 9.75 405 | 409 | 414 | 418 | 423 | 6.91 556 | 554 | 552 | 549 | 547 | 5.08 444 | 446 | 448 | 451 | 453 | 6.24 595 | 591 | 586 | 582 | 577 | 36 | 24 |
| 36 | 24 | 423 | 427 | 432 | 437 | 441 | 547 | 546 | 543 | 541 | 538 | 453 | 455 | 457 | 459 | 462 | 677 | 573 | 668 | 563 | 559 | 32 | 23 |
| 37 | 28 | 441 | 446 | 450 | 455 | 459 | 538 | 536 | 534 | 532 | 530 | 462 | 464 | 406 | 468 | 470 | 559 | 554 | 658 | 545 | 541 | 28 | 22 |
| 30 | 32 | 452 | 464 | 469 | 473 | 478 | 530 | 528 | 525 | 523 | 521 | 470 | 472 | 475 | 477 | 479 | 541 | 536 | 531 | 527 | 522 | 24 | 21 |
| 39 | 36 | 475 | 482 | 487 | 491 | 496 | 521 | 519 | 017 | 514 | 512 | 479 | 481 | 483 | 406 | 488 | 522 | 518 | 613 | 509 | 564 | 41. 20 | 20 |
| 46 | 18. 40 | 9.75 496 | 001 | 505 | 510 | 514 | 9.91 512 | 510 | 508 | 506 | 504 | 5.08 488 | 490 | 492 | 494 | 496 | 0.24 504 | 499 | 496 | 490 | 486 | 16 | 16 |
| 41 | 44 | 614 | 619 | 623 | 528 | 533 | 504 | 501 | 499 | 497 | 495 | 496 | 429 | 501 | 503 | 505 | 466 | 481 | 477 | 472 | 467 | 12 | 16 |
| 42 | 48 | 633 | 037 | 542 | 546 | 051 | 495 | 493 | 490 | 488 | 486 | 505 | 507 | 510 | 512 | 514 | 467 | 463 | 458 | 451 | 449 | 0 | 17 |
| 43 | 52 | 651 | 555 | 560 | 064 | 569 | 486 | 484 | 482 | 479 | 477 | 614 | 516 | 518 | 521 | 523 | 449 | 445 | 440 | 436 | 431 | 4 | 10 |
| 44 | 56 | 562 | 574 | 578 | 583 | 587 | 477 | 475 | 473 | 471 | 469 | 523 | 625 | 527 | 529 | 531 | 431 | 426 | 422 | 417 | 413 | 41. 0 | 15 |
| 45 | 19. 6 | 9.76 507 | 592 | 596 | 601 | 605 | 9.91 469 | 466 | 404 | 462 | 460 | 0.08 531 | 534 | 536 | 538 | 540 | 0.24 413 | 408 | 404 | 399 | 395 | 56 | 14 |
| 46 | 4 | 663 | 610 | 615 | 619 | 624 | 460 | 458 | 455 | 453 | 401 | 540 | 542 | 545 | 547 | 549 | 395 | 390 | 385 | 381 | 376 | 52 | 13 |
| 47 | 0 | 624 | 626 | 633 | 637 | 642 | 451 | 449 | 447 | 444 | 442 | 649 | 551 | 553 | 556 | 558 | 376 | 372 | 367 | 363 | 358 | 48 | 12 |
| 48 | 12 | 642 | 640 | 651 | 655 | 660 | 442 | 440 | 438 | 436 | 433 | 558 | 560 | 562 | 564 | 567 | 358 | 354 | 319 | 345 | 340 | 44 | 11 |
| 49 | 16 | 660 | 665 | 669 | 674 | 678 | 433 | 431 | 429 | 427 | 425 | 667 | 569 | 571 | 573 | 575 | 340 | 335 | 331 | 326 | 322 | 40. 40 | 10 |
| 60 | 19. 26 | 9.75 678 | 683 | 687 | 692 | 696 | 6.91 425 | 422 | 420 | 418 | 416 | 0.08 575 | 578 | 580 | 582 | 584 | 6.24 322 | 317 | 313 | 308 | 304 | 36 | 6 |
| 51 | 24 | 596 | 701 | 706 | 710 | 714 | 416 | 414 | 411 | 409 | 407 | 684 | 586 | 589 | 591 | 593 | 301 | 299 | 295 | 290 | 286 | 32 | 8 |
| 52 | 28 | 714 | 719 | 724 | 728 | 733 | 407 | 405 | 463 | 400 | 398 | 593 | 595 | 597 | 660 | 602 | 286 | 281 | 277 | 272 | 267 | 28 | 7 |
| 63 | 32 | 733 | 737 | 742 | 746 | 751 | 398 | 396 | 394 | 392 | 389 | 602 | 604 | 606 | 606 | 611 | 267 | 263 | 258 | 254 | 249 | 24 | 6 |
| 54 | 36 | 751 | 755 | 760 | 764 | 769 | 389 | 387 | 386 | 383 | 381 | 611 | 613 | 615 | 617 | 619 | 249 | 245 | 246 | 236 | 231 | 40. 20 | 6 |
| 55 | 19. 40 | 6.75 759 | 773 | 778 | 782 | 757 | 9.91 381 | 370 | 376 | 374 | 372 | 5.08 619 | 622 | 624 | 626 | 628 | 0.24 231 | 227 | 222 | 218 | 213 | 16 | 4 |
| 56 | 44 | 787 | 791 | 796 | 000 | 805 | 372 | 370 | 367 | 365 | 363 | 628 | 636 | 633 | 635 | 637 | 213 | 209 | 204 | 200 | 195 | 12 | 3 |
| 67 | 48 | 505 | 609 | 814 | 619 | 823 | 353 | 361 | 359 | 356 | 354 | 637 | 639 | 641 | 644 | 646 | 196 | 191 | 166 | 181 | 177 | 8 | 2 |
| 56 | 62 | 523 | 828 | 632 | 637 | 841 | 354 | 352 | 306 | 345 | 345 | 646 | 648 | 650 | 652 | 655 | 177 | 172 | 168 | 163 | 159 | 4 | 1 |
| 09 | 66 | 641 | 046 | 830 | 855 | 609 | 346 | 343 | 341 | 339 | 336 | 655 | 657 | 659 | 661 | 664 | 109 | 154 | 150 | 145 | 141 | 40. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 66″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 145° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 55° |

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**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 34° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 124° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 9″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 9° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 16. 9 | 8. 23 187 | 197 | 208 | 218 | [illegible] | 9. 34 322 | 316 | 319 | 304 | 298 | 9. 96 119 | 118 | 117 | 116 | 115 | 9. 89 187 | 189 | 129 | 192 | 194 | 56 | 59 |
| 1 | 4 | 228 | 239 | 249 | 259 | [illegible] | 298 | 292 | 286 | 280 | 274 | 115 | 114 | 113 | 112 | 112 | 194 | 195 | 197 | 199 | 200 | 02 | 58 |
| 2 | 8 | 270 | 280 | 290 | 301 | 711 | 274 | 268 | 262 | 256 | 251 | 112 | 111 | 110 | 109 | 108 | 200 | 202 | 204 | 205 | 207 | 48 | 07 |
| 3 | 12 | 311 | 321 | 332 | 342 | [illegible] | 251 | 245 | 239 | 233 | 227 | 108 | 107 | 106 | 105 | 104 | 207 | 209 | 219 | 212 | 214 | 44 | 55 |
| 4 | 16 | 352 | 362 | 373 | 383 | 393 | 227 | 221 | 215 | 209 | 203 | 194 | 103 | 102 | 101 | 100 | 214 | 216 | 217 | 219 | 221 | 43. 40 | 55 |
| 5 | 16. 20 | 8. 93 393 | 404 | 414 | 424 | 435 | 9. 34 203 | 197 | 191 | 185 | 179 | 2. 96 100 | 099 | 098 | 097 | 096 | 9. 89 221 | 222 | 224 | 226 | 227 | 36 | 04 |
| 6 | 24 | 435 | 445 | 455 | 465 | 476 | 179 | 173 | 167 | 161 | 155 | 096 | 095 | 094 | 993 | 092 | 227 | 229 | 231 | 232 | 234 | 32 | 53 |
| 7 | 28 | 476 | 486 | 496 | 507 | [illegible] | 155 | 149 | 143 | 137 | 132 | 092 | 091 | 090 | 989 | 088 | 234 | 236 | 237 | 235 | 241 | 28 | 52 |
| 6 | 32 | 517 | 527 | 538 | 518 | 558 | 132 | 126 | 120 | 114 | 108 | 088 | 087 | 086 | 085 | 084 | 241 | 242 | 214 | 246 | 247 | 24 | 51 |
| 2 | 36 | 558 | 568 | 579 | 589 | 599 | 108 | 102 | 096 | 090 | 084 | 984 | 083 | 082 | 982 | 081 | 247 | 219 | 251 | 252 | 254 | 43. 29 | 59 |
| 10 | 16. 40 | 8. 93 599 | 609 | 620 | 630 | 640 | 9. 34 084 | 078 | 072 | 066 | 060 | 9. 96 081 | 080 | 079 | 078 | 077 | 9. 89 254 | 256 | 257 | 259 | 261 | 16 | 49 |
| 11 | 44 | 640 | 651 | 601 | 671 | 681 | 060 | 054 | 048 | 042 | 036 | 077 | 076 | 075 | 074 | 073 | 261 | 262 | 251 | 266 | 267 | 12 | 48 |
| 12 | 48 | 681 | 692 | 702 | 712 | 722 | 936 | 030 | 024 | 018 | 012 | 973 | 072 | 071 | 070 | 069 | 267 | 269 | 271 | 272 | 274 | 8 | 47 |
| 13 | 52 | 722 | 733 | 743 | 753 | 763 | * 612 | 006 | 009 | 994 | 988 | 069 | 068 | 067 | 066 | 065 | 274 | 276 | 277 | 279 | 281 | 4 | 46 |
| 14 | 66 | 763 | 774 | 784 | 794 | 804 | 9. 33 988 | 982 | 976 | 970 | 965 | 665 | 064 | 063 | 062 | 061 | 281 | 282 | 284 | 286 | 287 | 43. 0 | 45 |
| 15 | 17. 0 | 8. 93 801 | 815 | 825 | 835 | 845 | 9. 33 965 | 959 | 953 | 947 | 941 | 9. 96 061 | 060 | 059 | 058 | 057 | 9. 89 287 | 289 | 291 | 292 | 294 | 56 | 44 |
| 16 | 4 | 845 | 856 | 866 | 876 | 886 | 941 | 935 | 929 | 923 | 917 | 057 | 056 | 055 | 054 | 053 | 294 | 296 | 297 | 299 | 301 | 02 | 43 |
| 17 | 8 | 886 | 897 | 907 | 917 | 927 | 917 | 911 | 905 | 899 | 893 | 953 | 052 | 051 | 050 | 049 | 301 | 393 | 304 | 306 | 308 | 48 | 42 |
| 18 | 12 | 927 | 938 | 948 | 958 | 968 | 893 | 887 | 881 | 875 | 869 | 049 | 048 | 047 | 046 | 046 | 308 | 309 | 311 | 313 | 314 | 44 | 41 |
| 19 | 16 | * 968 | 979 | 989 | 999 | 009 | 869 | 863 | 857 | 851 | 845 | 946 | 045 | 044 | 043 | 942 | 314 | 316 | 318 | 319 | 321 | 42. 49 | 40 |
| 29 | 17. 20 | 8. 94 009 | 019 | 030 | 040 | 050 | 9. 33 845 | 839 | 833 | 827 | 821 | 9. 96 042 | 041 | 040 | 039 | 038 | 9. 89 321 | 323 | 324 | 326 | 328 | 36 | 39 |
| 21 | 24 | 950 | 060 | 071 | 081 | 091 | 821 | 815 | 809 | 803 | 797 | 038 | 037 | 036 | 035 | 034 | 328 | 329 | 331 | 333 | 334 | 32 | 38 |
| 22 | 28 | 991 | 101 | 111 | 122 | 132 | 797 | 791 | 785 | 779 | 773 | 034 | 033 | 032 | 031 | 030 | 334 | 336 | 338 | 339 | 341 | 28 | 37 |
| 23 | 32 | 132 | 142 | 152 | 162 | 173 | 773 | 767 | 761 | 755 | 749 | 030 | 929 | 028 | 027 | 026 | 341 | 343 | 344 | 346 | 348 | 24 | 36 |
| 24 | 39 | 173 | 183 | 193 | 203 | 213 | 749 | 743 | 737 | 731 | 725 | 026 | 025 | 024 | 023 | 022 | 348 | 349 | 351 | 353 | 354 | 42. 20 | 35 |
| 25 | 17. 40 | 8. 94 213 | 224 | 234 | 214 | 254 | 9. 33 725 | 719 | 713 | 707 | 701 | 9. 96 022 | 021 | 020 | 019 | 018 | 9. 89 354 | 356 | 357 | 359 | 361 | 16 | 34 |
| 26 | 41 | 254 | 264 | 275 | 285 | 295 | 701 | 695 | 689 | 683 | 677 | 918 | 017 | 016 | 015 | 014 | 361 | 362 | 364 | 366 | 367 | 12 | 33 |
| 27 | 48 | 295 | 305 | 315 | 325 | 336 | 677 | 671 | 665 | 659 | 653 | 914 | 013 | 012 | 911 | 010 | 367 | 369 | 371 | 372 | 374 | 8 | 32 |
| 28 | 52 | 336 | 346 | 356 | 366 | 376 | 653 | 647 | 611 | 635 | 629 | 910 | 009 | 008 | 007 | 006 | 374 | 376 | 377 | 379 | 381 | 4 | 31 |
| 29 | 56 | 376 | 387 | 397 | 407 | 417 | 629 | 623 | 617 | 611 | 605 | 600 | 005 | 004 | 003 | 902 | 381 | 382 | 384 | 386 | 387 | 42. 9 | 30 |
| 30 | 18. 0 | 8. 94 417 | 427 | 137 | 448 | 458 | 9. 33 605 | 599 | 593 | 587 | 581 | * 002 | 002 | 001 | 009 | 999 | 9. 89 387 | 389 | 391 | 392 | 394 | 56 | 29 |
| 31 | 4 | 458 | 468 | 478 | 488 | 498 | 581 | 575 | 569 | 563 | 557 | 9. 95 999 | 998 | 297 | 996 | 995 | 391 | 396 | 397 | 399 | 401 | 02 | 28 |
| 32 | 6 | 498 | 599 | 519 | 529 | 539 | 557 | 551 | 515 | 539 | 533 | 995 | 994 | 993 | 992 | 991 | 491 | 402 | 404 | 406 | 497 | 48 | 27 |
| 33 | 12 | 539 | 549 | 559 | 579 | 580 | 033 | 527 | 521 | 515 | 509 | 991 | 990 | 989 | 988 | 987 | 407 | 409 | 411 | 412 | 414 | 44 | 26 |
| 34 | 16 | 089 | 590 | 600 | 610 | 620 | 009 | 503 | 497 | 491 | 485 | 287 | 986 | 985 | 984 | 983 | 414 | 416 | 417 | 419 | 421 | 41. 49 | 25 |
| 35 | 18. 20 | 8. 94 629 | 030 | 641 | 651 | 661 | 2. 33 485 | 479 | 473 | 167 | 461 | 9. 95 983 | 982 | 981 | 980 | 979 | 2. 89 421 | 422 | 424 | 426 | 427 | 36 | 24 |
| 36 | 24 | 661 | 671 | 681 | 691 | 701 | 461 | 455 | 449 | 443 | 437 | 979 | 978 | 977 | 976 | 975 | 427 | 429 | 431 | 432 | 434 | 32 | 23 |
| 37 | 28 | 701 | 712 | 722 | 732 | 742 | 437 | 431 | 425 | 419 | 413 | 975 | 974 | 973 | 972 | 971 | 434 | 436 | 437 | 439 | 441 | 28 | 22 |
| 38 | 32 | 742 | 752 | 702 | 772 | 782 | 413 | 197 | 401 | 395 | 389 | 971 | 970 | 969 | 968 | 967 | 441 | 442 | 414 | 446 | 447 | 24 | 21 |
| 39 | 36 | 782 | 793 | 803 | 813 | 823 | 389 | 383 | 377 | 371 | 365 | 967 | 966 | 965 | 964 | 963 | 447 | 449 | 450 | 452 | 454 | 41. 20 | 20 |
| 40 | 16. 49 | 8. 94 823 | 833 | 843 | 853 | 863 | 9. 33 365 | 359 | 353 | 347 | 341 | 9. 95 963 | 962 | 961 | 960 | 959 | 9. 89 454 | 455 | 457 | 459 | 460 | 16 | 19 |
| 41 | 44 | 863 | 874 | 881 | 894 | 904 | 341 | 335 | 329 | 323 | 317 | 259 | 958 | 957 | 956 | 955 | 460 | 462 | 464 | 465 | 467 | 12 | 18 |
| 42 | 48 | 904 | 914 | 924 | 934 | 914 | 317 | 311 | 304 | 298 | 292 | 955 | 954 | 253 | 952 | 951 | 467 | 469 | 479 | 472 | 474 | 6 | 17 |
| 43 | 52 | 914 | 954 | 964 | 975 | 985 | 292 | 286 | 289 | 274 | 268 | 951 | 950 | 949 | 948 | 947 | 474 | 475 | 477 | 479 | 480 | 4 | 16 |
| 44 | 06 | * 985 | 995 | 005 | 015 | 925 | 268 | 262 | 256 | 259 | 244 | 947 | 946 | 945 | 944 | 943 | 480 | 482 | 484 | 485 | 487 | 41. 0 | 10 |
| 45 | 12. 9 | 8. 25 025 | 035 | 045 | 055 | 965 | 9. 33 244 | 238 | 232 | 226 | 220 | 9. 95 943 | 942 | 941 | 940 | 939 | 9. 89 487 | 489 | 490 | 492 | 493 | 50 | 14 |
| 46 | 4 | 065 | 075 | 986 | 096 | 106 | 220 | 214 | 208 | 202 | 196 | 939 | 938 | 937 | 936 | 936 | 493 | 495 | 497 | 498 | 500 | 02 | 13 |
| 47 | 8 | 106 | 116 | 126 | 136 | 146 | 196 | 190 | 184 | 178 | 172 | 936 | 935 | 934 | 933 | 932 | 500 | 502 | 503 | 505 | 597 | 48 | 12 |
| 48 | 12 | 146 | 156 | 166 | 176 | 186 | 172 | 166 | 169 | 154 | 148 | 932 | 931 | 930 | 929 | 928 | 507 | 598 | 510 | 512 | 513 | 44 | 11 |
| 42 | 16 | 186 | 196 | 297 | 217 | 227 | 148 | 141 | 135 | 129 | 123 | 928 | 927 | 926 | 925 | 924 | 513 | 515 | 517 | 518 | 020 | 40. 40 | 16 |
| 50 | 19. 20 | 6. 25 227 | 237 | 247 | 257 | 267 | 9. 33 123 | 117 | 111 | 105 | 099 | 2. 95 924 | 923 | 922 | 921 | 920 | 2. 69 520 | 522 | 523 | 525 | 526 | 36 | 9 |
| 51 | 24 | 267 | 277 | 287 | 297 | 307 | 099 | 093 | 087 | 081 | 075 | 920 | 919 | 918 | 917 | 916 | 526 | 528 | 530 | 531 | 533 | 32 | 8 |
| 52 | 28 | 307 | 317 | 327 | 337 | 347 | 675 | 069 | 063 | 057 | 651 | 916 | 915 | 914 | 913 | 912 | 033 | 535 | 536 | 538 | 540 | 28 | 7 |
| 53 | 32 | 347 | 357 | 367 | 378 | 388 | 051 | 045 | 039 | 033 | 927 | 212 | 911 | 919 | 909 | 968 | 549 | 541 | 543 | 545 | 546 | 24 | 6 |
| 54 | 36 | 388 | 398 | 408 | 416 | 428 | 627 | 021 | 914 | 008 | 602 | 908 | 907 | 906 | 905 | 964 | 546 | 548 | 550 | 551 | 553 | 46. 20 | 5 |
| 55 | 12. 40 | 8. 95 428 | 438 | 448 | 458 | 468 | * 002 | 996 | 990 | 984 | 978 | 2. 95 904 | 903 | 902 | 901 | 900 | 2. 69 553 | 555 | 556 | 558 | 559 | 10 | 4 |
| 56 | 44 | 468 | 478 | 488 | 498 | 598 | 9. 32 978 | 972 | 966 | 960 | 954 | 990 | 899 | 898 | 897 | 896 | 539 | 561 | 503 | 564 | 566 | 12 | 3 |
| 57 | 48 | 008 | 518 | 528 | 538 | 548 | 954 | 948 | 942 | 936 | 930 | 896 | 895 | 894 | 893 | 892 | 566 | 568 | 569 | 571 | 573 | 6 | 2 |
| 58 | 52 | 048 | 558 | 568 | 578 | 588 | 939 | 924 | 918 | 911 | 995 | 692 | 821 | 890 | 889 | 888 | 573 | 574 | 576 | 576 | 579 | 4 | 1 |
| 52 | 56 | 568 | 598 | 698 | 618 | 628 | 295 | 899 | 893 | 887 | 881 | 888 | 887 | 686 | 885 | 884 | 579 | 581 | 582 | 584 | 586 | 40. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 2h | 145° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 65° |

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**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 35° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | 0″ 0s | 15″ 1s | 30″ 2s | 45″ 3s | 60″ 4s | | |
| 8 | 20. 8 | 9.75 859 | 864 | 868 | 873 | 877 | 9.91 336 | 334 | 332 | 330 | 328 | 6.68 804 | 806 | 608 | 670 | 672 | 0.24 141 | 136 | 132 | 127 | 123 | 50 | 52 |
| 1 | 4 | 877 | 882 | 886 | 891 | 895 | 328 | 325 | 323 | 391 | 319 | 672 | 675 | 877 | 679 | 681 | 123 | 118 | 114 | 109 | 105 | 52 | 88 |
| 2 | 8 | 895 | 908 | 964 | 909 | 913 | 319 | 317 | 314 | 312 | 310 | 681 | 683 | 686 | 688 | 620 | 105 | 106 | 096 | 021 | 007 | 48 | 57 |
| 3 | 19 | 913 | 918 | 922 | 927 | 931 | 310 | 308 | 305 | 383 | 381 | 090 | 092 | 695 | 697 | 699 | 687 | 082 | 078 | 073 | 009 | 44 | 50 |
| 4 | 16 | 931 | 936 | 946 | 945 | 949 | 381 | 299 | 297 | 994 | 292 | 099 | 701 | 703 | 706 | 708 | 889 | 064 | 066 | 855 | 051 | 39. 40 | 05 |
| 5 | 20. 20 | 9.75 949 | 954 | 958 | 963 | 957 | 9.91 292 | 290 | 288 | 286 | 283 | 0.08 708 | 718 | 712 | 714 | 717 | 0.94 051 | 046 | 042 | 037 | 633 | 36 | 54 |
| 0 | 24 | 967 | 972 | 976 | 981 | 985 | 283 | 281 | 279 | 977 | 274 | 717 | 719 | 721 | 723 | 726 | 033 | 628 | 024 | 819 | 015 | 32 | 53 |
| 7 | 28 | * 985 | 998 | 994 | 999 | 003 | 274 | 272 | 270 | 968 | 266 | 720 | 728 | 730 | 732 | 734 | * 016 | 018 | 800 | 001 | 997 | 28 | 82 |
| 8 | 39 | 9.76 603 | 608 | 812 | 017 | 821 | 266 | 263 | 261 | 259 | 257 | 734 | 737 | 732 | 741 | 743 | 0.23 927 | 992 | 988 | 983 | 972 | 94 | 51 |
| 9 | 36 | 021 | 026 | 030 | 035 | 039 | 257 | 254 | 252 | 956 | 248 | 743 | 746 | 748 | 750 | 752 | 979 | 974 | 270 | 265 | 901 | 39. 20 | 58 |
| 10 | 20. 46 | 9.76 039 | 044 | 048 | 052 | 057 | 9.91 248 | 215 | 213 | 241 | 239 | 0.08 752 | 755 | 757 | 759 | 761 | 0.93 961 | 256 | 252 | 948 | 943 | 16 | 49 |
| 11 | 44 | 057 | 061 | 066 | 070 | 075 | 239 | 237 | 234 | 232 | 230 | 701 | 703 | 766 | 768 | 770 | 943 | 932 | 934 | 930 | 925 | 12 | 48 |
| 12 | 48 | 075 | 079 | 084 | 088 | 093 | 238 | 228 | 225 | 923 | 221 | 770 | 772 | 775 | 777 | 779 | 925 | 921 | 210 | 912 | 207 | 8 | 47 |
| 13 | 82 | 693 | 897 | 162 | 166 | 111 | 221 | 219 | 217 | 214 | 212 | 779 | 781 | 783 | 706 | 788 | 907 | 963 | 898 | 894 | 689 | 4 | 40 |
| 14 | 86 | 111 | 115 | 128 | 124 | 129 | 212 | 210 | 208 | 265 | 203 | 788 | 796 | 792 | 795 | 797 | 882 | 885 | 886 | 878 | 871 | 39. 0 | 45 |
| 15 | 21. 6 | 9.76 129 | 133 | 137 | 142 | 146 | 9.91 203 | 901 | 199 | 196 | 194 | 0.08 797 | 729 | 801 | 804 | 886 | 8.23 871 | 657 | 863 | 858 | 854 | 50 | 44 |
| 16 | 4 | 146 | 151 | 155 | 180 | 164 | 194 | 192 | 190 | 188 | 185 | 806 | 808 | 810 | 812 | 815 | 854 | 819 | 845 | 840 | 836 | 52 | 43 |
| 17 | 8 | 164 | 169 | 173 | 178 | 182 | 185 | 183 | 181 | 179 | 176 | 815 | 817 | 819 | 821 | 894 | 836 | 031 | 827 | 829 | 818 | 48 | 42 |
| 18 | 12 | 182 | 187 | 191 | 195 | 200 | 176 | 174 | 172 | 170 | 167 | 824 | 826 | 828 | 838 | 833 | 810 | 813 | 889 | 865 | 800 | 44 | 41 |
| 19 | 16 | 208 | 264 | 209 | 213 | 218 | 107 | 165 | 163 | 161 | 158 | 833 | 835 | 837 | 639 | 842 | 800 | 796 | 791 | 787 | 782 | 38. 48 | 40 |
| 26 | 21. 20 | 9.76 218 | 222 | 297 | 231 | 236 | 9.91 158 | 156 | 154 | 152 | 149 | 8.08 842 | 844 | 846 | 848 | 851 | 0.23 782 | 778 | 773 | 769 | 764 | 30 | 39 |
| 21 | 24 | 236 | 248 | 244 | 249 | 253 | 149 | 147 | 145 | 143 | 141 | 851 | 853 | 855 | 857 | 859 | 764 | 768 | 756 | 751 | 747 | 32 | 38 |
| 22 | 28 | 253 | 258 | 262 | 267 | 271 | 141 | 138 | 136 | 134 | 132 | 852 | 862 | 864 | 806 | 868 | 747 | 742 | 738 | 733 | 729 | 20 | 37 |
| 23 | 32 | 971 | 276 | 280 | 285 | 289 | 132 | 129 | 197 | 125 | 123 | 868 | 871 | 073 | 875 | 877 | 729 | 724 | 728 | 715 | 711 | 94 | 30 |
| 94 | 36 | 989 | 293 | 998 | 302 | 307 | 123 | 126 | 118 | 116 | 114 | 877 | 886 | 802 | 884 | 886 | 711 | 767 | 762 | 698 | 693 | 38. 20 | 35 |
| 25 | 21. 40 | 9.76 307 | 311 | 316 | 320 | 324 | 9.91 114 | 111 | 109 | 107 | 105 | 0.08 886 | 889 | 891 | 893 | 895 | 0.20 693 | 889 | 684 | 680 | 676 | 16 | 34 |
| 26 | 41 | 321 | 329 | 333 | 338 | 342 | 105 | 102 | 166 | 098 | 096 | 895 | 898 | 900 | 902 | 981 | 678 | 871 | 667 | 602 | 658 | 12 | 33 |
| 27 | 48 | 042 | 347 | 351 | 356 | 360 | 096 | 893 | 691 | 089 | 887 | 904 | 907 | 969 | 911 | 913 | 058 | 853 | 649 | 644 | 640 | 8 | 32 |
| 28 | 52 | 366 | 364 | 369 | 373 | 378 | 087 | 084 | 082 | 080 | 878 | 913 | 910 | 918 | 926 | 922 | 840 | 836 | 631 | 627 | 822 | 4 | 31 |
| 29 | 56 | 078 | 382 | 387 | 391 | 395 | 078 | 075 | 073 | 071 | 069 | 992 | 925 | 927 | 929 | 931 | 022 | 018 | 613 | 609 | 685 | 38. 0 | 36 |
| 30 | 22. 0 | 9.76 395 | 400 | 404 | 109 | 413 | 9.91 009 | 066 | 064 | 062 | 060 | 0.68 931 | 934 | 936 | 938 | 940 | 8.23 005 | 880 | 596 | 591 | 587 | 50 | 29 |
| 31 | 4 | 413 | 418 | 422 | 426 | 431 | 060 | 057 | 055 | 653 | 051 | 910 | 943 | 945 | 947 | 919 | 587 | 582 | 578 | 574 | 569 | 52 | 28 |
| 32 | 8 | 431 | 135 | 440 | 441 | 148 | 051 | 048 | 846 | 644 | 042 | 949 | 952 | 954 | 956 | 958 | 569 | 565 | 566 | 550 | 562 | 48 | 27 |
| 33 | 12 | 448 | 453 | 457 | 462 | 466 | 642 | 039 | 037 | 035 | 833 | 956 | 961 | 963 | 965 | 967 | 052 | 547 | 543 | 538 | 534 | 44 | 28 |
| 34 | 16 | 466 | 471 | 475 | 479 | 484 | 033 | 036 | 828 | 026 | 823 | 967 | 970 | 972 | 974 | 977 | 534 | 529 | 525 | 521 | 510 | 07. 40 | 25 |
| 35 | 22. 20 | 9.70 484 | 488 | 493 | 427 | 561 | 9.91 023 | 821 | 019 | 017 | 014 | 0.68 977 | 979 | 981 | 983 | 986 | 0.23 516 | 512 | 507 | 503 | 499 | 36 | 24 |
| 30 | 91 | 861 | 566 | 516 | 515 | 519 | 814 | 812 | 016 | 068 | 805 | 986 | 988 | 990 | 992 | 995 | 499 | 494 | 498 | 485 | 461 | 32 | 23 |
| 37 | 28 | 519 | 524 | 528 | 532 | 537 | * 605 | 063 | 601 | 999 | 990 | * 995 | 997 | 999 | 801 | 004 | 481 | 476 | 472 | 468 | 403 | 28 | 22 |
| 38 | 32 | 537 | 511 | 546 | 550 | 554 | 9.98 996 | 994 | 992 | 990 | 987 | 8.69 064 | 666 | 008 | 816 | 613 | 463 | 459 | 454 | 450 | 448 | 24 | 21 |
| 39 | 36 | 554 | 552 | 563 | 568 | 572 | 987 | 985 | 283 | 980 | 978 | 013 | 615 | 017 | 628 | 022 | 446 | 441 | 437 | 439 | 428 | 37. 20 | 28 |
| 48 | 22. 40 | 9.70 672 | 576 | 581 | 585 | 590 | 9.96 978 | 976 | 974 | 971 | 969 | 8.82 822 | 624 | 626 | 629 | 031 | 0.93 428 | 424 | 419 | 415 | 410 | 16 | 19 |
| 41 | 44 | 890 | 594 | 598 | 603 | 667 | 969 | 967 | 965 | 962 | 960 | 031 | 833 | 635 | 638 | 040 | 410 | 406 | 402 | 397 | 393 | 12 | 18 |
| 42 | 48 | 667 | 612 | 616 | 620 | 625 | 960 | 958 | 956 | 953 | 951 | 840 | 042 | 044 | 047 | 649 | 393 | 388 | 384 | 380 | 375 | 0 | 17 |
| 43 | 59 | 625 | 622 | 634 | 638 | 642 | 951 | 949 | 946 | 914 | 942 | 049 | 051 | 054 | 056 | 058 | 075 | 371 | 366 | 362 | 388 | 4 | 16 |
| 44 | 66 | 642 | 647 | 651 | 655 | 660 | 942 | 940 | 937 | 935 | 933 | 068 | 660 | 003 | 065 | 067 | 358 | 383 | 349 | 345 | 340 | 37. 8 | 15 |
| 45 | 93. 8 | 9.76 660 | 664 | 669 | 673 | 677 | 9.96 933 | 931 | 928 | 926 | 924 | 8.09 067 | 869 | 072 | 074 | 076 | 0.23 340 | 330 | 331 | 327 | 323 | 56 | 14 |
| 46 | 4 | 077 | 682 | 686 | 621 | 695 | 924 | 921 | 919 | 917 | 915 | 876 | 079 | 681 | 683 | 085 | 323 | 318 | 314 | 309 | 365 | 52 | 13 |
| 47 | 8 | 695 | 699 | 704 | 708 | 712 | 915 | 912 | 910 | 968 | 906 | 085 | 088 | 096 | 092 | 694 | 066 | 301 | 296 | 222 | 988 | 48 | 12 |
| 48 | 12 | 712 | 717 | 721 | 726 | 730 | 986 | 983 | 901 | 899 | 896 | 694 | 097 | 099 | 101 | 104 | 288 | 283 | 279 | 274 | 270 | 44 | 11 |
| 49 | 10 | 730 | 734 | 739 | 743 | 747 | 896 | 894 | 892 | 896 | 887 | 184 | 106 | 108 | 110 | 113 | 270 | 260 | 261 | 257 | 253 | 30. 40 | 10 |
| 56 | 23. 28 | 9.76 747 | 752 | 756 | 761 | 765 | 9.90 887 | 885 | 883 | 886 | 878 | 0.69 113 | 118 | 117 | 120 | 122 | 0.23 953 | 248 | 244 | 239 | 235 | 30 | 9 |
| 51 | 24 | 765 | 709 | 774 | 778 | 782 | 878 | 870 | 874 | 871 | 869 | 122 | 124 | 126 | 122 | 131 | 235 | 231 | 226 | 222 | 218 | 32 | 8 |
| 62 | 28 | 782 | 787 | 791 | 796 | 800 | 862 | 867 | 864 | 862 | 860 | 131 | 133 | 136 | 138 | 140 | 218 | 210 | 269 | 264 | 200 | 28 | 7 |
| 63 | 32 | 880 | 804 | 809 | 813 | 817 | 860 | 858 | 855 | 853 | 851 | 140 | 142 | 145 | 147 | 149 | 200 | 190 | 191 | 167 | 183 | 24 | 0 |
| 54 | 36 | 817 | 822 | 826 | 830 | 835 | 051 | 848 | 846 | 844 | 842 | 149 | 152 | 154 | 186 | 158 | 183 | 178 | 174 | 170 | 165 | 36. 20 | 5 |
| 55 | 23. 40 | 9.76 835 | 839 | 844 | 848 | 852 | 9.90 842 | 839 | 837 | 835 | 832 | 0.89 158 | 161 | 163 | 165 | 158 | 0.23 185 | 161 | 158 | 152 | 148 | 16 | 4 |
| 86 | 44 | 852 | 857 | 861 | 865 | 870 | 832 | 838 | 828 | 820 | 823 | 168 | 170 | 172 | 174 | 177 | 148 | 143 | 132 | 135 | 130 | 12 | 3 |
| 87 | 48 | 870 | 874 | 878 | 883 | 887 | 823 | 821 | 819 | 810 | 814 | 177 | 179 | 181 | 184 | 186 | 130 | 126 | 122 | 117 | 113 | 0 | 2 |
| 58 | 52 | 887 | 891 | 896 | 906 | 264 | 814 | 812 | 810 | 807 | 805 | 186 | 188 | 190 | 193 | 195 | 113 | 109 | 104 | 100 | 098 | 4 | 1 |
| 59 | 56 | 904 | 962 | 913 | 216 | 922 | 865 | 863 | 806 | 790 | 796 | 195 | 127 | 900 | 202 | 204 | 096 | 091 | 887 | 882 | 078 | 36. 8 | 0 |
| | | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 36″ | 1s 13″ | 0s 8″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 0″ | 4s 60″ | 3s 45″ | 2s 30″ | 1s 15″ | 0s 8″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 144° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 54° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 35° | 2h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | | 15" 1° | 30" 2° | 45" 3° | 68" 4° | 0" 8° | | 15" 1° | 38" 2° | 45" 3° | 60" 4° | 0" 0° | | 10" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 0 | 28. 8 | 8. 20 | 628 | 638 | 648 | 668 | 668 | 9. 32 | 881 | 875 | 869 | 663 | 857 | 9. 96 | 884 | 883 | 882 | 861 | 880 | 0. 89 | 586 | 087 | 589 | 521 | 592 | 56 | 59 |
| 1 | 4 | | 668 | 678 | 688 | 698 | 708 | | 857 | 851 | 845 | 839 | 833 | | 880 | 872 | 878 | 877 | 876 | | 592 | 594 | 596 | 527 | 592 | 52 | 58 |
| 2 | 8 | | 788 | 718 | 728 | 738 | 748 | | 833 | 826 | 828 | 814 | 808 | | 876 | 875 | 874 | 873 | 872 | | 592 | 681 | 682 | 664 | 605 | 48 | 57 |
| 3 | 12 | | 748 | 758 | 768 | 779 | 788 | | 808 | 802 | 726 | 790 | 784 | | 872 | 871 | 870 | 809 | 868 | | 505 | 607 | 609 | 510 | 612 | 44 | 56 |
| 4 | 16 | | 788 | 728 | 808 | 818 | 828 | | 784 | 778 | 772 | 766 | 768 | | 868 | 867 | 866 | 865 | 864 | | 512 | 614 | 615 | 617 | 619 | 39. 40 | 55 |
| 5 | 20. 20 | 8. 95 | 828 | 838 | 848 | 858 | 868 | 9. 32 | 760 | 754 | 748 | 741 | 735 | 9. 96 | 864 | 863 | 862 | 861 | 860 | 9. 89 | 519 | 620 | 622 | 624 | 625 | 30 | 54 |
| 5 | 24 | | 868 | 878 | 888 | 898 | 288 | | 735 | 729 | 723 | 717 | 711 | | 860 | 859 | 858 | 857 | 856 | | 525 | 627 | 628 | 638 | 632 | 32 | 53 |
| 7 | 28 | | 908 | 918 | 228 | 938 | 948 | | 711 | 705 | 699 | 693 | 687 | | 856 | 855 | 854 | 853 | 852 | | 532 | 533 | 635 | 637 | 638 | 28 | 52 |
| 8 | 32 | | 946 | 258 | 968 | 978 | 988 | | 587 | 581 | 675 | 068 | 662 | | 852 | 851 | 850 | 849 | 848 | | 538 | 640 | 642 | 643 | 645 | 24 | 51 |
| 9 | 30 | * | 908 | 998 | 008 | 018 | 028 | | 662 | 656 | 650 | 644 | 038 | | 848 | 847 | 846 | 845 | 844 | | 545 | 647 | 648 | 650 | 651 | 39. 28 | 68 |
| 10 | 20. 40 | 8. 96 | 028 | 838 | 048 | 858 | 068 | 2. 32 | 638 | 632 | 626 | 620 | 614 | 9. 25 | 844 | 843 | 842 | 841 | 840 | 9. 89 | 551 | 653 | 655 | 656 | 658 | 16 | 49 |
| 11 | 44 | | 668 | 078 | 088 | 098 | 188 | | 614 | 508 | 601 | 595 | 582 | | 848 | 839 | 838 | 837 | 836 | | 558 | 660 | 661 | 603 | 665 | 12 | 48 |
| 12 | 48 | | 180 | 118 | 128 | 138 | 148 | | 582 | 583 | 577 | 571 | 565 | | 836 | 835 | 834 | 833 | 832 | | 665 | 666 | 668 | 669 | 671 | 8 | 47 |
| 13 | 52 | | 148 | 158 | 168 | 170 | 188 | | 565 | 659 | 553 | 547 | 541 | | 832 | 831 | 830 | 822 | 828 | | 571 | 673 | 674 | 676 | 678 | 4 | 40 |
| 14 | 56 | | 188 | 197 | 207 | 217 | 227 | | 541 | 534 | 528 | 522 | 516 | | 828 | 827 | 826 | 825 | 824 | | 678 | 679 | 681 | 683 | 684 | 39. 0 | 45 |
| 15 | 21. 0 | 8. 96 | 227 | 237 | 247 | 257 | 267 | 9. 32 | 610 | 510 | 584 | 428 | 492 | 9. 95 | 824 | 823 | 822 | 821 | 820 | 9. 89 | 584 | 686 | 687 | 689 | 621 | 66 | 44 |
| 16 | 4 | | 267 | 277 | 287 | 297 | 307 | | 492 | 486 | 400 | 473 | 467 | | 820 | 812 | 818 | 817 | 816 | | 691 | 692 | 694 | 626 | 697 | 62 | 43 |
| 17 | 8 | | 387 | 317 | 326 | 336 | 346 | | 467 | 461 | 455 | 449 | 443 | | 816 | 815 | 814 | 813 | 912 | | 697 | 692 | 701 | 782 | 784 | 48 | 42 |
| 18 | 12 | | 346 | 356 | 366 | 376 | 386 | | 443 | 437 | 431 | 425 | 418 | | 812 | 811 | 818 | 889 | 808 | | 784 | 705 | 707 | 782 | 710 | 44 | 41 |
| 19 | 16 | | 386 | 396 | 480 | 416 | 426 | | 418 | 412 | 406 | 400 | 394 | | 888 | 887 | 806 | 885 | 804 | | 718 | 712 | 714 | 715 | 717 | 38. 40 | 40 |
| 28 | 21. 20 | 8. 96 | 420 | 436 | 445 | 455 | 465 | 9. 32 | 394 | 388 | 382 | 376 | 370 | 9. 95 | 804 | 803 | 802 | 801 | 800 | 2. 89 | 717 | 718 | 720 | 722 | 723 | 36 | 39 |
| 21 | 24 | | 465 | 475 | 485 | 425 | 585 | | 370 | 363 | 357 | 351 | 345 | | 088 | 799 | 728 | 797 | 796 | | 723 | 725 | 727 | 728 | 730 | 32 | 38 |
| 22 | 28 | | 585 | 516 | 525 | 535 | 545 | | 345 | 339 | 333 | 327 | 321 | | 796 | 795 | 794 | 793 | 792 | | 730 | 732 | 733 | 735 | 736 | 28 | 37 |
| 23 | 32 | | 545 | 554 | 564 | 574 | 584 | | 321 | 315 | 308 | 302 | 290 | | 792 | 791 | 790 | 789 | 788 | | 736 | 738 | 740 | 741 | 743 | 24 | 36 |
| 24 | 36 | | 584 | 594 | 604 | 014 | 624 | | 290 | 220 | 284 | 278 | 272 | | 788 | 787 | 786 | 785 | 784 | | 743 | 745 | 746 | 748 | 749 | 38. 20 | 35 |
| 25 | 21. 40 | 8. 96 | 624 | 634 | 644 | 653 | 663 | 9. 32 | 272 | 266 | 259 | 253 | 247 | 9. 95 | 784 | 783 | 782 | 781 | 780 | 9. 89 | 749 | 751 | 753 | 754 | 756 | 16 | 34 |
| 26 | 44 | | 663 | 073 | 083 | 623 | 783 | | 247 | 241 | 235 | 229 | 223 | | 788 | 772 | 778 | 777 | 776 | | 766 | 758 | 759 | 761 | 762 | 12 | 33 |
| 27 | 48 | | 703 | 713 | 723 | 732 | 742 | | 223 | 217 | 210 | 204 | 128 | | 776 | 775 | 774 | 773 | 772 | | 762 | 764 | 766 | 767 | 769 | 8 | 32 |
| 28 | 02 | | 742 | 752 | 762 | 772 | 782 | | 128 | 192 | 186 | 180 | 174 | | 772 | 771 | 770 | 769 | 768 | | 762 | 771 | 772 | 774 | 776 | 4 | 31 |
| 29 | 56 | | 782 | 792 | 882 | 911 | 821 | | 174 | 168 | 161 | 155 | 142 | | 768 | 767 | 766 | 761 | 763 | | 776 | 777 | 779 | 788 | 782 | 38. 0 | 30 |
| 30 | 22. 0 | 8. 95 | 821 | 831 | 841 | 851 | 861 | 9. 32 | 149 | 143 | 137 | 131 | 125 | 9. 95 | 763 | 762 | 761 | 760 | 752 | 9. 89 | 782 | 784 | 785 | 787 | 789 | 56 | 29 |
| 31 | 4 | | 861 | 871 | 880 | 828 | 900 | | 125 | 112 | 112 | 186 | 180 | | 759 | 758 | 757 | 756 | 755 | | 789 | 790 | 792 | 723 | 795 | 52 | 28 |
| 32 | 0 | | 908 | 910 | 920 | 938 | 940 | | 180 | 091 | 088 | 082 | 876 | | 755 | 754 | 753 | 752 | 751 | | 795 | 797 | 798 | 800 | 882 | 48 | 27 |
| 33 | 12 | | 940 | 949 | 259 | 962 | 972 | | 076 | 069 | 063 | 857 | 851 | | 751 | 750 | 749 | 748 | 747 | | 802 | 883 | 865 | 806 | 888 | 44 | 26 |
| 34 | 16 | * | 979 | 982 | 999 | 009 | 018 | | 051 | 045 | 039 | 033 | 826 | | 747 | 746 | 745 | 744 | 743 | | 888 | 818 | 811 | 913 | 815 | 37. 40 | 25 |
| 35 | 22. 20 | 8. 97 | 018 | 028 | 038 | 048 | 058 | 9. 32 | 026 | 020 | 014 | 008 | 002 | 9. 95 | 743 | 742 | 741 | 740 | 739 | 9. 89 | 815 | 816 | 818 | 819 | 821 | 36 | 24 |
| 36 | 24 | | 058 | 868 | 077 | 087 | 097 | * | 002 | 996 | 920 | 983 | 977 | | 732 | 738 | 737 | 736 | 735 | | 821 | 823 | 824 | 826 | 828 | 32 | 23 |
| 37 | 28 | | 097 | 107 | 117 | 127 | 136 | 9. 31 | 977 | 971 | 965 | 959 | 953 | | 735 | 734 | 733 | 732 | 731 | | 828 | 829 | 831 | 832 | 834 | 28 | 22 |
| 38 | 32 | | 136 | 146 | 156 | 166 | 176 | | 953 | 947 | 940 | 234 | 928 | | 731 | 738 | 729 | 728 | 727 | | 834 | 835 | 837 | 839 | 840 | 24 | 21 |
| 39 | 36 | | 176 | 186 | 125 | 205 | 215 | | 928 | 922 | 916 | 910 | 903 | | 727 | 726 | 725 | 724 | 723 | | 848 | 842 | 844 | 845 | 847 | 37. 20 | 28 |
| 40 | 22. 40 | 8. 27 | 215 | 225 | 235 | 244 | 254 | 9. 31 | 903 | 897 | 891 | 885 | 879 | 9. 25 | 723 | 722 | 721 | 720 | 719 | 2. 99 | 847 | 849 | 850 | 852 | 853 | 16 | 19 |
| 41 | 44 | | 254 | 261 | 274 | 284 | 223 | | 879 | 873 | 867 | 868 | 854 | | 712 | 718 | 717 | 716 | 715 | | 853 | 855 | 857 | 858 | 800 | 12 | 18 |
| 42 | 48 | | 293 | 303 | 313 | 323 | 333 | | 854 | 848 | 842 | 836 | 830 | | 715 | 714 | 713 | 712 | 711 | | 860 | 862 | 863 | 865 | 866 | 8 | 17 |
| 43 | 52 | | 333 | 343 | 352 | 362 | 372 | | 830 | 823 | 817 | 811 | 805 | | 711 | 718 | 709 | 788 | 707 | | 866 | 868 | 870 | 871 | 873 | 4 | 16 |
| 44 | 56 | | 372 | 382 | 391 | 401 | 411 | | 885 | 792 | 793 | 786 | 780 | | 707 | 786 | 705 | 704 | 783 | | 873 | 875 | 876 | 878 | 879 | 37. 0 | 15 |
| 45 | 23. 0 | 8. 97 | 411 | 421 | 431 | 448 | 450 | 9. 31 | 780 | 774 | 768 | 762 | 756 | 2. 95 | 703 | 702 | 701 | 700 | 692 | 9. 89 | 879 | 881 | 883 | 884 | 886 | 56 | 14 |
| 46 | 4 | | 450 | 460 | 470 | 480 | 482 | | 756 | 749 | 743 | 737 | 731 | | 699 | 628 | 696 | 695 | 694 | | 886 | 887 | 882 | 891 | 892 | 52 | 13 |
| 47 | 8 | | 489 | 499 | 502 | 519 | 522 | | 731 | 725 | 719 | 712 | 706 | | 094 | 623 | 692 | 621 | 690 | | 892 | 894 | 896 | 897 | 899 | 48 | 12 |
| 48 | 12 | | 629 | 539 | 548 | 558 | 568 | | 706 | 700 | 094 | 688 | 682 | | 690 | 689 | 688 | 687 | 686 | | 892 | 900 | 982 | 984 | 905 | 44 | 11 |
| 49 | 16 | · | 568 | 577 | 587 | 597 | 607 | | 682 | 675 | 669 | 663 | 657 | | 586 | 685 | 684 | 683 | 682 | | 985 | 987 | 288 | 210 | 912 | 36. 40 | 10 |
| 50 | 23. 20 | 8. 97 | 687 | 616 | 626 | 636 | 040 | 9. 31 | 657 | 651 | 644 | 638 | 632 | 9. 95 | 682 | 681 | 680 | 679 | 678 | 9. 89 | 912 | 213 | 915 | 917 | 918 | 36 | 2 |
| 51 | 24 | | 646 | 656 | 605 | 675 | 085 | | 632 | 626 | 620 | 614 | 607 | | 678 | 677 | 676 | 670 | 674 | | 918 | 920 | 921 | 923 | 925 | 32 | 8 |
| 52 | 28 | | 685 | 695 | 704 | 714 | 724 | | 687 | 681 | 595 | 582 | 583 | | 674 | 673 | 672 | 671 | 678 | | 925 | 226 | 228 | 929 | 231 | 28 | 7 |
| 53 | 32 | | 724 | 734 | 743 | 753 | 763 | | 583 | 576 | 570 | 564 | 558 | | 670 | 669 | 668 | 667 | 666 | | 931 | 233 | 234 | 936 | 238 | 24 | 6 |
| 54 | 36 | | 763 | 773 | 762 | 792 | 882 | | 558 | 552 | 546 | 532 | 533 | | 666 | 665 | 664 | 663 | 662 | | 938 | 939 | 241 | 242 | 944 | 36. 28 | 5 |
| 50 | 23. 40 | 8. 97 | 802 | 812 | 821 | 831 | 841 | 9. 31 | 033 | 527 | 521 | 515 | 588 | 9. 90 | 662 | 661 | 668 | 659 | 658 | 9. 89 | 944 | 946 | 247 | 942 | 250 | 16 | 4 |
| 56 | 44 | | 841 | 851 | 868 | 870 | 880 | | 508 | 502 | 496 | 498 | 484 | | 658 | 657 | 656 | 656 | 654 | | 950 | 952 | 254 | 955 | 957 | 12 | 3 |
| 57 | 48 | | 880 | 889 | 899 | 289 | 919 | | 484 | 477 | 471 | 465 | 459 | | 654 | 653 | 652 | 058 | 649 | | 957 | 958 | 968 | 962 | 963 | 8 | 2 |
| 58 | 52 | | 912 | 928 | 938 | 948 | 258 | | 459 | 453 | 447 | 440 | 434 | | 649 | 648 | 647 | 646 | 645 | | 963 | 965 | 267 | 268 | 978 | 4 | 1 |
| 52 | 56 | | 958 | 967 | 977 | 987 | 996 | | 434 | 428 | 422 | 416 | 409 | | 645 | 644 | 643 | 642 | 641 | | 278 | 971 | 973 | 975 | 976 | 36. 0 | 0 |
| | | 4° 68" | | 3° 46" | 2° 30" | 1° 15" | 0° 0" | 4° 58" | | 3° 45" | 2° 30" | 1° 15" | 0° 0" | 4° 66" | | 3° 45" | 2° 30" | 1° 15" | 8° 8" | 4° 66" | | 3° 45" | 2° 30" | 1° 15" | 8° 0" | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 144° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 04° |

**Tabla XVI.** **Logaritmos, Senos, Cosenos, Secantes y Cosecantes.**

| 36° | 2ʰ | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 126° | 8ʰ | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 6° | 15″ 1° | 30″ 2° | 46″ 3° | 60″ 4° | 0″ 9° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 24. 6 | 9.76 922 | 926 | 931 | 935 | 939 | 2.99 796 | 793 | 791 | 789 | 787 | 0.09 204 | 207 | 209 | 211 | 213 | 0.23 078 | 074 | 069 | 065 | 061 | 56 | 59 |
| 1 | 4 | 939 | 944 | 948 | 952 | 957 | 787 | 784 | 789 | 780 | 777 | 213 | 216 | 218 | 220 | 225 | 061 | 056 | 052 | 048 | 043 | 52 | 58 |
| 2 | 8 | 957 | 961 | 905 | 970 | 274 | 777 | 775 | 773 | 771 | 768 | 223 | 225 | 227 | 229 | 232 | 043 | 039 | 035 | 030 | 026 | 48 | 57 |
| 3 | 12 | 974 | 978 | 983 | 987 | 291 | 768 | 766 | 764 | 701 | 759 | 232 | 234 | 236 | 239 | 241 | 026 | 022 | 017 | 013 | 009 | 44 | 56 |
| 4 | 20 | * 991 | 996 | 000 | 004 | 009 | 759 | 757 | 754 | 752 | 760 | 241 | 243 | 246 | 248 | 250 | * 009 | 004 | 000 | 996 | 991 | 35. 40 | 55 |
| 6 | 24. 20 | 9.77 009 | 013 | 017 | 022 | 026 | 9.90 750 | 748 | 745 | 743 | 741 | 0.09 250 | 252 | 255 | 257 | 259 | 0.22 991 | 987 | 983 | 978 | 974 | 36 | 54 |
| 6 | 24 | 926 | 030 | 035 | 039 | 043 | 741 | 738 | 736 | 731 | 734 | 259 | 262 | 264 | 966 | 269 | 974 | 970 | 965 | 961 | 957 | 32 | 53 |
| 7 | 28 | 043 | 048 | 052 | 056 | 061 | 731 | 729 | 727 | 724 | 722 | 269 | 271 | 273 | 276 | 278 | 957 | 959 | 968 | 944 | 239 | 28 | 52 |
| 9 | 32 | 061 | 065 | 069 | 074 | 078 | 722 | 720 | 718 | 715 | 713 | 278 | 280 | 282 | 285 | 287 | 939 | 935 | 931 | 926 | 922 | 24 | 51 |
| 9 | 36 | 978 | 089 | 087 | 091 | 095 | 713 | 711 | 708 | 706 | 704 | 287 | 289 | 292 | 291 | 296 | 922 | 918 | 913 | 909 | 905 | 35. 20 | 50 |
| 19 | 24. 40 | 9.77 095 | 100 | 104 | 108 | 112 | 9.90 704 | 701 | 699 | 697 | 694 | 0.09 296 | 299 | 301 | 303 | 306 | 0.22 905 | 930 | 896 | 892 | 888 | 16 | 42 |
| 11 | 44 | 119 | 117 | 121 | 125 | 130 | 694 | 692 | 690 | 688 | 685 | 306 | 308 | 310 | 312 | 315 | 888 | 883 | 879 | 875 | 870 | 12 | 48 |
| 12 | 48 | 130 | 134 | 138 | 143 | 147 | 685 | 683 | 681 | 678 | 676 | 315 | 317 | 319 | 322 | 324 | 870 | 866 | 862 | 857 | 853 | 6 | 47 |
| 13 | 62 | 147 | 151 | 156 | 160 | 164 | 676 | 674 | 671 | 669 | 667 | 324 | 396 | 329 | 331 | 333 | 653 | 849 | 811 | 840 | 836 | 4 | 46 |
| 14 | 66 | 164 | 169 | 173 | 177 | 182 | 667 | 664 | 602 | 660 | 657 | 333 | 336 | 338 | 340 | 343 | 636 | 831 | 827 | 823 | 818 | 35. 0 | 45 |
| 15 | 25. 0 | 9.77 189 | 186 | 190 | 194 | 199 | 9.90 657 | 655 | 653 | 051 | 648 | 0.02 343 | 345 | 347 | 319 | 352 | 0.22 818 | 814 | 810 | 806 | 801 | 56 | 44 |
| 10 | 4 | 199 | 203 | 207 | 212 | 216 | 648 | 646 | 644 | 641 | 639 | 352 | 354 | 356 | 359 | 361 | 801 | 797 | 793 | 788 | 784 | 52 | 43 |
| 17 | 8 | 216 | 220 | 295 | 929 | 23 | 639 | 637 | 634 | 632 | 630 | 361 | 363 | 366 | 368 | 370 | 784 | 780 | 775 | 771 | 767 | 48 | 42 |
| 18 | 12 | 233 | 237 | 242 | 246 | 250 | 630 | 027 | 625 | 623 | 620 | 370 | 373 | 375 | 377 | 380 | 767 | 762 | 758 | 754 | 750 | 44 | 41 |
| 19 | 16 | 250 | 255 | 259 | 263 | 268 | 620 | 618 | 616 | 613 | 611 | 380 | 382 | 384 | 387 | 389 | 750 | 745 | 711 | 737 | 732 | 34 40 | 40 |
| 20 | 25. 26 | 9.77 268 | 272 | 276 | 280 | 285 | 9.90 611 | 609 | 606 | 604 | 602 | 0.09 389 | 391 | 391 | 396 | 398 | 0.22 732 | 728 | 721 | 720 | 715 | 36 | 39 |
| 21 | 24 | 285 | 289 | 293 | 298 | 302 | 602 | 599 | 597 | 595 | 592 | 398 | 401 | 403 | 405 | 408 | 715 | 711 | 707 | 702 | 698 | 32 | 38 |
| 22 | 28 | 302 | 306 | 310 | 315 | 319 | 592 | 590 | 588 | 586 | 583 | 408 | 410 | 412 | 414 | 417 | 698 | 694 | 690 | 685 | 681 | 28 | 37 |
| 23 | 32 | 319 | 323 | 328 | 332 | 336 | 583 | 581 | 579 | 576 | 574 | 417 | 419 | 421 | 424 | 426 | 681 | 677 | 672 | 668 | 664 | 24 | 36 |
| 24 | 36 | 336 | 340 | 345 | 349 | 353 | 574 | 579 | 569 | 567 | 565 | 426 | 428 | 431 | 433 | 435 | 664 | 660 | 655 | 651 | 647 | 34. 20 | 35 |
| 25 | 25. 40 | 9.77 353 | 358 | 369 | 366 | 370 | 9.90 563 | 562 | 560 | 550 | 553 | 6.69 435 | 438 | 440 | 412 | 445 | 0.22 617 | 642 | 638 | 534 | 630 | 16 | 34 |
| 26 | 44 | 370 | 375 | 379 | 383 | 387 | 555 | 563 | 551 | 548 | 546 | 445 | 447 | 449 | 452 | 454 | 030 | 625 | 621 | 617 | 013 | 12 | 33 |
| 27 | 48 | 387 | 392 | 396 | 400 | 405 | 546 | 544 | 541 | 539 | 537 | 454 | 456 | 459 | 461 | 463 | 613 | 608 | 604 | 600 | 595 | 8 | 32 |
| 28 | 62 | 405 | 409 | 413 | 417 | 422 | 637 | 534 | 532 | 530 | 527 | 463 | 466 | 468 | 470 | 473 | 595 | 591 | 587 | 583 | 578 | 4 | 31 |
| 29 | 66 | 422 | 426 | 430 | 434 | 439 | 527 | 525 | 523 | 520 | 518 | 473 | 475 | 477 | 480 | 482 | 578 | 574 | 570 | 566 | 561 | 34. 0 | 30 |
| 30 | 26. 0 | 9.77 439 | 443 | 447 | 452 | 456 | 9.90 518 | 516 | 513 | 521 | 509 | 0.02 482 | 484 | 187 | 489 | 491 | 9.22 561 | 557 | 553 | 548 | 544 | 66 | 29 |
| 31 | 4 | 456 | 400 | 464 | 169 | 47. | 509 | 506 | 504 | 502 | 429 | 491 | 494 | 496 | 498 | 501 | 544 | 540 | 536 | 531 | 527 | 62 | 29 |
| 32 | 8 | 473 | 477 | 481 | 186 | 490 | 499 | 497 | 494 | 492 | 490 | 501 | 503 | 506 | 508 | 510 | 527 | 523 | 519 | 514 | 510 | 48 | 27 |
| 33 | 12 | 490 | 494 | 498 | 503 | 507 | 490 | 487 | 485 | 483 | 480 | 510 | 513 | 615 | 517 | 520 | 510 | 506 | 502 | 497 | 493 | 44 | 26 |
| 34 | 16 | 507 | 511 | 515 | 520 | 524 | 480 | 478 | 476 | 473 | 471 | 620 | 522 | 524 | 527 | 529 | 493 | 489 | 485 | 480 | 476 | 33. 40 | 25 |
| 35 | 26. 20 | 9.77 524 | 528 | 533 | 537 | 541 | 9.20 471 | 409 | 466 | 461 | 462 | 0.09 529 | 531 | 534 | 536 | 538 | 9.22 476 | 472 | 467 | 463 | 459 | 36 | 24 |
| 36 | 24 | 541 | 545 | 550 | 554 | 558 | 462 | 453 | 457 | 455 | 452 | 638 | 541 | 643 | 545 | 548 | 459 | 435 | 450 | 446 | 442 | 32 | 23 |
| 37 | 28 | 558 | 562 | 567 | 571 | 575 | 452 | 150 | 448 | 445 | 443 | 548 | 550 | 552 | 555 | 657 | 442 | 438 | 433 | 429 | 425 | 28 | 22 |
| 38 | 32 | 575 | 579 | 584 | 588 | 592 | 443 | 411 | 436 | 430 | 434 | 557 | 552 | 562 | 564 | 566 | 425 | 121 | 416 | 412 | 408 | 24 | 21 |
| 39 | 36 | 592 | 596 | 600 | 605 | 609 | 434 | 431 | 429 | 126 | 424 | 566 | 569 | 571 | 574 | 576 | 408 | 404 | 400 | 395 | 391 | 33. 20 | 20 |
| 40 | 26. 40 | 9.77 609 | 613 | 617 | 622 | 626 | 9.90 494 | 422 | 419 | 417 | 415 | 0.09 576 | 578 | 581 | 583 | 585 | 6.22 391 | 387 | 383 | 378 | 374 | 16 | 12 |
| 41 | 44 | 626 | 630 | 634 | 639 | 613 | 415 | 412 | 410 | 408 | 405 | 585 | 588 | 590 | 592 | 595 | 374 | 370 | 366 | 361 | 357 | 12 | 18 |
| 42 | 48 | 643 | 647 | 651 | 656 | 660 | 405 | 403 | 401 | 398 | 396 | 595 | 597 | 599 | 602 | 604 | 357 | 353 | 349 | 344 | 340 | 8 | 17 |
| 43 | 52 | 560 | 664 | 668 | 673 | 677 | 396 | 394 | 391 | 389 | 386 | 604 | 606 | 609 | 611 | 614 | 340 | 336 | 332 | 327 | 323 | 4 | 15 |
| 44 | 56 | 677 | 681 | 685 | 682 | 694 | 386 | 384 | 382 | 379 | 377 | 514 | 616 | 618 | 621 | 623 | 323 | 312 | 315 | 311 | 306 | 33. 9 | 15 |
| 45 | 27. 0 | 9.77 694 | 698 | 702 | 706 | 711 | 9.20 377 | 375 | 372 | 370 | 368 | 0.09 523 | 625 | 628 | 630 | 632 | 9.22 306 | 302 | 298 | 294 | 289 | 56 | 14 |
| 46 | 4 | 711 | 715 | 719 | 723 | 728 | 368 | 365 | 363 | 360 | 358 | 632 | 635 | 637 | 610 | 642 | 289 | 285 | 281 | 277 | 272 | 52 | 13 |
| 47 | 8 | 728 | 732 | 736 | 740 | 744 | 358 | 356 | 353 | 351 | 319 | 642 | 644 | 647 | 649 | 651 | 272 | 268 | 264 | 260 | 256 | 48 | 12 |
| 48 | 12 | 744 | 749 | 753 | 757 | 761 | 349 | 346 | 344 | 342 | 339 | 561 | 654 | 656 | 658 | 661 | 256 | 251 | 247 | 243 | 239 | 44 | 11 |
| 49 | 16 | 761 | 765 | 770 | 774 | 778 | 339 | 337 | 335 | 332 | 330 | 561 | 663 | 665 | 668 | 570 | 239 | 235 | 230 | 226 | 222 | 32. 40 | 16 |
| 50 | 27. 20 | 9.77 778 | 782 | 787 | 791 | 795 | 9.98 330 | 327 | 325 | 323 | 390 | 0.99 570 | 673 | 675 | 577 | 680 | 0.22 292 | 218 | 213 | 209 | 205 | 36 | 9 |
| 51 | 24 | 795 | 799 | 803 | 808 | 812 | 320 | 318 | 316 | 313 | 311 | 680 | 689 | 681 | 687 | 689 | 205 | 201 | 197 | 192 | 188 | 32 | 8 |
| 52 | 28 | 812 | 916 | 820 | 825 | 829 | 311 | 308 | 306 | 304 | 301 | 689 | 692 | 694 | 696 | 599 | 188 | 184 | 180 | 176 | 171 | 28 | 7 |
| 53 | 32 | 829 | 833 | 837 | 811 | 816 | 301 | 299 | 297 | 294 | 292 | 599 | 701 | 703 | 706 | 708 | 171 | 107 | 163 | 159 | 154 | 24 | 5 |
| 54 | 36 | 846 | 850 | 854 | 858 | 862 | 292 | 290 | 987 | 285 | 282 | 708 | 710 | 713 | 715 | 718 | 154 | 150 | 146 | 142 | 138 | 32. 20 | 5 |
| 55 | 27. 40 | 9.77 862 | 867 | 871 | 875 | 879 | 9.99 282 | 280 | 278 | 976 | 273 | 0.99 718 | 720 | 722 | 725 | 727 | 0.22 138 | 133 | 129 | 125 | 191 | 16 | 4 |
| 56 | 44 | 879 | 883 | 888 | 892 | 896 | 273 | 271 | 268 | 266 | 263 | 727 | 729 | 732 | 734 | 737 | 121 | 117 | 112 | 108 | 184 | 12 | 3 |
| 57 | 48 | 896 | 900 | 904 | 909 | 913 | 263 | 261 | 259 | 256 | 254 | 737 | 739 | 741 | 744 | 746 | 104 | 100 | 096 | 091 | 087 | 8 | 2 |
| 58 | 52 | 913 | 917 | 921 | 225 | 930 | 254 | 252 | 249 | 247 | 244 | 746 | 748 | 751 | 753 | 756 | 687 | 083 | 079 | 075 | 070 | 4 | 1 |
| 59 | 56 | 930 | 934 | 938 | 942 | 946 | 241 | 942 | 240 | 237 | 235 | 756 | 758 | 760 | 763 | 765 | 070 | 066 | 062 | 058 | 054 | 32. 0 | 9 |
| | | 4° 60″ | 3° 45″ | 2° 39″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9ʰ | 143° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3ʰ | 53° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 36° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 126° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 24. 0 | 0. 27*996 | 006 | 916 | 026 | 035 | 2. 31 409 | 403 | 397 | 391 | 385 | 9. 95 641 | 640 | 639 | 638 | 637 | 9. 89 976 | 978 | 979 | 281 | 983 | 56 | 59 |
| 1 | 4 | 8. 28 035 | 045 | 055 | 065 | 075 | 385 | 378 | 372 | 366 | 360 | 637 | 636 | 635 | 634 | 633 | 983 | 984 | 986 | 987 | 982 | 52 | 58 |
| 2 | 8 | 074 | 084 | 094 | 103 | 113 | 360 | 354 | 347 | 341 | 335 | 633 | 632 | 631 | 630 | 629 | 989 | 991 | 992 | 994 | 995 | 40 | 57 |
| 3 | 12 | 113 | 123 | 132 | 142 | 152 | 335 | 329 | 323 | 316 | 310 | 622 | 628 | 627 | 626 | 625 | * 995 | 997 | 999 | 000 | 002 | 44 | 56 |
| 4 | 16 | 152 | 162 | 171 | 181 | 191 | 310 | 304 | 298 | 291 | 285 | 625 | 624 | 623 | 622 | 621 | 9. 90 002 | 004 | 005 | 007 | 008 | 35. 40 | 55 |
| 5 | 24. 20 | 8. 98 191 | 200 | 210 | 220 | 229 | 9. 31 245 | 279 | 273 | 257 | 260 | 9. 95 621 | 620 | 619 | 618 | 617 | 9. 90 008 | 010 | 012 | 013 | 015 | 36 | 54 |
| 6 | 24 | 229 | 239 | 249 | 258 | 268 | 260 | 254 | 248 | 242 | 236 | 617 | 616 | 615 | 614 | 612 | 015 | 016 | 018 | 020 | 021 | 32 | 53 |
| 7 | 28 | 268 | 278 | 288 | 297 | 307 | 236 | 229 | 223 | 217 | 211 | 612 | 611 | 610 | 609 | 608 | 021 | 023 | 024 | 026 | 028 | 28 | 52 |
| 8 | 32 | 307 | 317 | 326 | 336 | 346 | 211 | 204 | 198 | 192 | 186 | 608 | 607 | 606 | 605 | 604 | 028 | 029 | 031 | 032 | 034 | 24 | 51 |
| 9 | 36 | 346 | 355 | 365 | 375 | 384 | 186 | 180 | 173 | 167 | 161 | 604 | 603 | 602 | 601 | 600 | 034 | 036 | 037 | 039 | 040 | 35. 20 | 50 |
| 10 | 24. 40 | 8. 98 384 | 394 | 404 | 413 | 423 | 9. 31 161 | 155 | 149 | 142 | 136 | 9. 95 600 | 599 | 598 | 597 | 596 | 9. 90 040 | 042 | 044 | 045 | 047 | 16 | 49 |
| 11 | 44 | 423 | 433 | 442 | 452 | 462 | 136 | 130 | 124 | 117 | 111 | 596 | 595 | 594 | 593 | 592 | 017 | 048 | 050 | 052 | 053 | 12 | 48 |
| 12 | 48 | 462 | 471 | 481 | 491 | 500 | 111 | 105 | 099 | 092 | 086 | 592 | 591 | 590 | 589 | 588 | 053 | 055 | 056 | 058 | 060 | 8 | 47 |
| 13 | 52 | 500 | 510 | 520 | 529 | 539 | 086 | 080 | 074 | 068 | 061 | 588 | 587 | 586 | 585 | 584 | 060 | 061 | 063 | 064 | 066 | 4 | 46 |
| 14 | 56 | 539 | 549 | 558 | 568 | 578 | 061 | 055 | 049 | 043 | 036 | 584 | 583 | 582 | 581 | 579 | 066 | 060 | 069 | 071 | 072 | 35. 0 | 45 |
| 15 | 25. 0 | 8. 98 578 | 587 | 597 | 606 | 616 | 9. 31 036 | 030 | 024 | 018 | 011 | 9. 95 579 | 578 | 577 | 576 | 575 | 2. 90 072 | 074 | 076 | 077 | 079 | 56 | 44 |
| 16 | 4 | 616 | 626 | 635 | 645 | 655 | * 011 | 005 | 999 | 993 | 907 | 575 | 574 | 573 | 572 | 571 | 072 | 000 | 002 | 084 | 085 | 52 | 43 |
| 17 | 0 | 655 | 664 | 674 | 684 | 693 | 9. 30 907 | 980 | 974 | 260 | 962 | 571 | 570 | 569 | 568 | 567 | 085 | 007 | 008 | 090 | 092 | 48 | 42 |
| 18 | 12 | 693 | 703 | 712 | 722 | 732 | 262 | 955 | 949 | 943 | 937 | 567 | 566 | 565 | 564 | 563 | 092 | 093 | 095 | 096 | 098 | 41 | 41 |
| 19 | 16 | 732 | 741 | 751 | 761 | 770 | 937 | 930 | 924 | 918 | 212 | 563 | 562 | 561 | 560 | 559 | 098 | 100 | 101 | 103 | 104 | 34. 40 | 40 |
| 20 | 25. 20 | 8. 90 770 | 780 | 789 | 799 | 809 | 9. 30 212 | 905 | 899 | 893 | 887 | 9. 95 559 | 558 | 557 | 556 | 555 | 9. 90 104 | 106 | 108 | 109 | 111 | 36 | 39 |
| 21 | 24 | 809 | 818 | 820 | 838 | 847 | 087 | 880 | 874 | 868 | 862 | 555 | 554 | 553 | 552 | 550 | 111 | 112 | 114 | 116 | 117 | 32 | 38 |
| 22 | 20 | 847 | 857 | 866 | 876 | 886 | 862 | 855 | 849 | 843 | 837 | 550 | 549 | 548 | 547 | 546 | 117 | 119 | 120 | 122 | 124 | 28 | 37 |
| 23 | 32 | 886 | 895 | 905 | 914 | 924 | 837 | 830 | 824 | 818 | 012 | 546 | 545 | 544 | 543 | 542 | 124 | 125 | 127 | 128 | 130 | 24 | 36 |
| 24 | 36 | 924 | 934 | 943 | 953 | 963 | 812 | 805 | 799 | 793 | 787 | 542 | 541 | 540 | 539 | 538 | 130 | 132 | 133 | 135 | 136 | 34. 20 | 35 |
| 25 | 25. 40 | * 263 | 972 | 982 | 991 | 001 | 2. 30 787 | 780 | 774 | 768 | 702 | 9. 95 538 | 537 | 536 | 535 | 534 | 9. 90 136 | 138 | 140 | 141 | 143 | 16 | 34 |
| 26 | 44 | 8. 92 001 | 011 | 020 | 030 | 039 | 762 | 755 | 749 | 743 | 737 | 534 | 533 | 532 | 531 | 530 | 143 | 144 | 146 | 148 | 142 | 12 | 33 |
| 27 | 48 | 039 | 049 | 058 | 068 | 078 | 737 | 730 | 724 | 718 | 712 | 530 | 529 | 528 | 527 | 526 | 149 | 151 | 152 | 154 | 155 | 8 | 32 |
| 20 | 52 | 078 | 087 | 097 | 106 | 116 | 712 | 705 | 699 | 693 | 687 | 526 | 524 | 523 | 522 | 521 | 155 | 157 | 159 | 160 | 162 | 4 | 31 |
| 29 | 56 | 116 | 125 | 135 | 145 | 154 | 687 | 680 | 674 | 668 | 661 | 521 | 520 | 519 | 518 | 517 | 162 | 163 | 165 | 167 | 168 | 34. 0 | 30 |
| 30 | 26. 0 | 8. 99 154 | 164 | 173 | 183 | 193 | 9. 30 661 | 655 | 649 | 643 | 636 | 9. 95 517 | 516 | 516 | 514 | 513 | 2. 90 168 | 170 | 171 | 173 | 174 | 56 | 29 |
| 31 | 4 | 193 | 202 | 212 | 221 | 231 | 636 | 630 | 624 | 618 | 611 | 513 | 512 | 511 | 510 | 509 | 174 | 176 | 178 | 179 | 181 | 52 | 28 |
| 32 | 8 | 231 | 240 | 250 | 260 | 269 | 611 | 605 | 599 | 593 | 506 | 502 | 508 | 507 | 506 | 505 | 101 | 183 | 184 | 186 | 187 | 48 | 27 |
| 33 | 12 | 269 | 279 | 288 | 298 | 307 | 586 | 580 | 574 | 567 | 561 | 505 | 504 | 503 | 502 | 501 | 187 | 189 | 191 | 192 | 194 | 44 | 26 |
| 34 | 16 | 307 | 317 | 327 | 336 | 346 | 561 | 555 | 549 | 542 | 536 | 501 | 499 | 498 | 497 | 496 | 194 | 195 | 197 | 198 | 200 | 33. 40 | 25 |
| 35 | 26. 20 | 0. 29 346 | 355 | 365 | 374 | 381 | 2. 30 536 | 530 | 524 | 517 | 511 | 2. 95 496 | 495 | 494 | 493 | 492 | 9. 90 200 | 202 | 203 | 205 | 206 | 36 | 24 |
| 36 | 24 | 384 | 393 | 403 | 412 | 422 | 511 | 505 | 498 | 492 | 486 | 492 | 491 | 490 | 489 | 488 | 206 | 208 | 210 | 211 | 213 | 32 | 23 |
| 37 | 28 | 422 | 432 | 441 | 451 | 460 | 406 | 480 | 473 | 467 | 461 | 488 | 487 | 486 | 485 | 484 | 213 | 214 | 216 | 218 | 219 | 28 | 22 |
| 38 | 32 | 460 | 470 | 479 | 489 | 498 | 461 | 454 | 440 | 442 | 436 | 484 | 483 | 482 | 401 | 480 | 219 | 221 | 222 | 224 | 225 | 24 | 21 |
| 39 | 36 | 498 | 508 | 517 | 527 | 536 | 436 | 429 | 423 | 417 | 410 | 480 | 479 | 478 | 476 | 475 | 225 | 227 | 229 | 230 | 232 | 33. 20 | 20 |
| 40 | 26. 40 | 8. 99 536 | 546 | 556 | 565 | 575 | 9. 30 410 | 404 | 390 | 392 | 385 | 2. 95 475 | 474 | 473 | 472 | 471 | 9. 90 232 | 233 | 235 | 237 | 238 | 16 | 19 |
| 41 | 44 | 575 | 584 | 594 | 603 | 613 | 385 | 372 | 373 | 366 | 360 | 471 | 470 | 469 | 468 | 467 | 238 | 240 | 241 | 243 | 244 | 12 | 18 |
| 42 | 48 | 613 | 622 | 632 | 641 | 651 | 360 | 354 | 347 | 341 | 335 | 467 | 466 | 465 | 464 | 463 | 244 | 246 | 248 | 249 | 251 | 0 | 17 |
| 43 | 52 | 651 | 660 | 670 | 679 | 689 | 335 | 329 | 322 | 316 | 310 | 463 | 462 | 461 | 460 | 459 | 251 | 252 | 254 | 256 | 257 | 4 | 16 |
| 44 | 56 | 609 | 698 | 700 | 717 | 727 | 310 | 303 | 297 | 291 | 205 | 459 | 450 | 457 | 456 | 454 | 257 | 259 | 260 | 262 | 263 | 33. 0 | 15 |
| 45 | 27. 0 | 8. 99 727 | 736 | 746 | 755 | 765 | 9. 30 285 | 278 | 272 | 266 | 259 | 2. 95 454 | 453 | 452 | 451 | 450 | 9. 90 263 | 265 | 267 | 268 | 270 | 56 | 14 |
| 46 | 4 | 765 | 774 | 784 | 793 | 803 | 259 | 253 | 247 | 240 | 234 | 450 | 442 | 448 | 447 | 446 | 270 | 271 | 273 | 275 | 276 | 52 | 13 |
| 47 | 8 | 803 | 812 | 822 | 831 | 841 | 234 | 228 | 221 | 215 | 209 | 446 | 445 | 444 | 443 | 442 | 276 | 278 | 279 | 281 | 282 | 48 | 12 |
| 48 | 12 | 841 | 850 | 860 | 869 | 879 | 209 | 203 | 196 | 190 | 184 | 442 | 441 | 440 | 439 | 438 | 282 | 284 | 286 | 287 | 282 | 44 | 11 |
| 49 | 16 | 879 | 888 | 898 | 907 | 917 | 184 | 177 | 171 | 165 | 158 | 438 | 437 | 436 | 435 | 433 | 289 | 290 | 292 | 294 | 225 | 32. 40 | 10 |
| 50 | 27. 20 | 8. 99 917 | 926 | 936 | 945 | 955 | 9. 30 158 | 152 | 146 | 139 | 133 | 2. 95 433 | 432 | 431 | 430 | 429 | 9. 90 295 | 297 | 298 | 300 | 301 | 36 | 9 |
| 51 | 24 | 955 | 964 | 974 | 983 | 993 | 133 | 127 | 121 | 114 | 108 | 429 | 428 | 427 | 426 | 425 | 301 | 303 | 305 | 306 | 308 | 32 | 8 |
| 52 | 28 | * 293 | 002 | 012 | 021 | 031 | 108 | 102 | 095 | 089 | 083 | 425 | 124 | 423 | 422 | 421 | 308 | 309 | 311 | 313 | 314 | 28 | 7 |
| 53 | 32 | 9. 00 031 | 048 | 049 | 059 | 068 | 083 | 076 | 070 | 064 | 057 | 421 | 420 | 419 | 418 | 417 | 314 | 316 | 317 | 319 | 320 | 24 | 6 |
| 54 | 36 | 068 | 078 | 007 | 097 | 106 | 057 | 051 | 045 | 038 | 032 | 417 | 416 | 415 | 413 | 412 | 320 | 322 | 324 | 325 | 327 | 32. 20 | 5 |
| 55 | 27. 40 | 9. 00 106 | 116 | 125 | 135 | 144 | 9. 30 032 | 026 | 019 | 013 | 007 | 2. 95 412 | 411 | 410 | 409 | 408 | 9. 90 327 | 328 | 330 | 331 | 333 | 16 | 4 |
| 56 | 44 | 144 | 154 | 163 | 172 | 182 | * 007 | 000 | 994 | 988 | 981 | 408 | 407 | 406 | 405 | 404 | 333 | 335 | 336 | 338 | 339 | 12 | 3 |
| 57 | 48 | 182 | 191 | 201 | 210 | 220 | 2. 29 981 | 975 | 969 | 962 | 956 | 404 | 403 | 402 | 401 | 400 | 339 | 341 | 342 | 344 | 346 | 8 | 2 |
| 58 | 52 | 220 | 229 | 239 | 248 | 258 | 956 | 950 | 943 | 937 | 931 | 400 | 399 | 398 | 397 | 396 | 346 | 347 | 349 | 350 | 352 | 4 | 1 |
| 69 | 56 | 250 | 267 | 276 | 286 | 295 | 931 | 924 | 918 | 912 | 905 | 396 | 394 | 393 | 392 | 391 | 352 | 354 | 355 | 357 | 350 | 32. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 15″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 2h | 143° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 53° |

**TABLA XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 37° | $2^h$ | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 127° | $8^h$ | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ $6^s$ | 15″ $1^s$ | 30″ $2^s$ | 45″ $3^s$ | 00″ $4^s$ | 0″ $0^s$ | 15″ $1^s$ | 30″ $2^s$ | 45″ $3^s$ | 60″ $4^s$ | 0″ $6^s$ | 15″ $1^s$ | 30″ $2^s$ | 45″ $3^s$ | 60″ $4^s$ | 6″ $6^s$ | 15″ $1^s$ | 30″ $2^s$ | 45″ $3^s$ | 00″ $4^s$ | | |
| 6 | 26. 6 | 9. 77 946 | 960 | 960 | 959 | 963 | 2. 90 235 | 232 | 230 | 220 | 225 | 6. 09 765 | 768 | 770 | 772 | 775 | 0. 22 054 | 050 | 645 | 641 | 037 | 66 | 62 |
| 1 | 4 | 903 | 967 | 971 | 976 | 980 | 225 | 223 | 221 | 218 | 216 | 775 | 777 | 779 | 782 | 784 | 037 | 033 | 029 | 024 | 020 | 52 | 58 |
| 2 | 6 | 980 | 904 | 968 | 992 | 997 | 210 | 213 | 211 | 209 | 205 | 784 | 787 | 789 | 791 | 794 | 020 | 016 | 012 | 008 | 003 | 48 | 57 |
| 3 | 12 | * 997 | 001 | 005 | 009 | 013 | 200 | 204 | 202 | 199 | 197 | 794 | 790 | 798 | 801 | 803 | * 603 | 999 | 995 | 991 | 987 | 44 | 56 |
| 4 | 16 | 9. 76 013 | 017 | 022 | 026 | 030 | 197 | 194 | 192 | 190 | 167 | 803 | 800 | 808 | 010 | 613 | 0. 21 987 | 983 | 978 | 974 | 970 | 31. 40 | 55 |
| 5 | 28. 20 | 9. 76 030 | 034 | 038 | 043 | 047 | 9. 96 187 | 185 | 182 | 180 | 178 | 6. 09 613 | 815 | 818 | 820 | 822 | 0. 21 970 | 966 | 902 | 957 | 953 | 36 | 54 |
| 6 | 24 | 047 | 051 | 055 | 059 | 063 | 178 | 176 | 173 | 170 | 108 | 622 | 025 | 827 | 830 | 632 | 953 | 949 | 945 | 941 | 937 | 32 | 53 |
| 7 | 20 | 663 | 068 | 072 | 076 | 080 | 150 | 160 | 163 | 161 | 159 | 632 | 831 | 837 | 839 | 841 | 937 | 932 | 928 | 924 | 920 | 28 | 62 |
| 6 | 32 | 080 | 084 | 068 | 093 | 097 | 159 | 156 | 154 | 151 | 149 | 641 | 844 | 846 | 849 | 851 | 920 | 916 | 912 | 907 | 903 | 24 | 51 |
| 9 | 36 | 697 | 101 | 105 | 109 | 113 | 149 | 147 | 144 | 142 | 139 | 601 | 853 | 856 | 858 | 061 | 903 | 099 | 895 | 891 | 887 | 31. 26 | 60 |
| 10 | 26. 40 | 9. 76 113 | 118 | 122 | 120 | 130 | 9. 90 139 | 137 | 135 | 132 | 130 | 0. 09 851 | 863 | 865 | 808 | 870 | 6. 21 887 | 882 | 878 | 874 | 879 | 16 | 49 |
| 11 | 44 | 130 | 134 | 138 | 143 | 147 | 130 | 127 | 125 | 123 | 120 | 670 | 873 | 870 | 677 | 880 | 870 | 806 | 862 | 857 | 053 | 12 | 46 |
| 12 | 48 | 147 | 151 | 155 | 159 | 163 | 120 | 118 | 115 | 113 | 111 | 680 | 862 | 885 | 887 | 689 | 853 | 849 | 845 | 841 | 037 | 6 | 47 |
| 13 | 62 | 163 | 168 | 172 | 170 | 180 | 111 | 108 | 106 | 103 | 101 | 689 | 892 | 894 | 097 | 899 | 837 | 832 | 828 | 824 | 820 | 4 | 46 |
| 14 | 00 | 180 | 184 | 108 | 192 | 197 | 101 | 099 | 096 | 094 | 091 | 899 | 901 | 904 | 906 | 909 | 820 | 816 | 812 | 008 | 803 | 31. 0 | 45 |
| 15 | 29. 0 | 9. 76 197 | 201 | 205 | 209 | 213 | 2. 90 091 | 089 | 007 | 084 | 082 | 0. 09 909 | 911 | 913 | 916 | 918 | 0. 21 803 | 799 | 795 | 791 | 787 | 60 | 44 |
| 16 | 4 | 213 | 217 | 222 | 226 | 230 | 062 | 079 | 077 | 070 | 672 | 918 | 921 | 923 | 925 | 928 | 787 | 783 | 778 | 774 | 770 | 52 | 43 |
| 17 | 8 | 230 | 234 | 238 | 242 | 240 | 072 | 670 | 067 | 005 | 003 | 928 | 930 | 933 | 935 | 937 | 770 | 766 | 762 | 758 | 754 | 48 | 42 |
| 16 | 12 | 240 | 251 | 255 | 259 | 263 | 063 | 060 | 008 | 055 | 053 | 937 | 940 | 942 | 945 | 947 | 754 | 749 | 745 | 741 | 737 | 44 | 41 |
| 19 | 10 | 263 | 267 | 271 | 275 | 200 | 053 | 051 | 048 | 040 | 043 | 947 | 949 | 952 | 954 | 957 | 737 | 733 | 729 | 725 | 720 | 30. 40 | 40 |
| 20 | 29. 20 | 9. 78 280 | 284 | 288 | 292 | 296 | 2. 96 043 | 041 | 038 | 036 | 034 | 0. 09 957 | 959 | 902 | 901 | 960 | 0. 21 720 | 710 | 712 | 706 | 704 | 36 | 39 |
| 21 | 24 | 296 | 300 | 364 | 309 | 313 | 634 | 031 | 029 | 020 | 024 | 960 | 969 | 971 | 974 | 970 | 704 | 700 | 696 | 691 | 687 | 32 | 38 |
| 22 | 28 | 313 | 317 | 321 | 320 | 329 | 024 | 022 | 019 | 017 | 014 | 275 | 978 | 981 | 983 | 980 | 687 | 603 | 679 | 675 | 671 | 28 | 37 |
| 23 | 32 | 329 | 333 | 337 | 342 | 346 | 614 | 012 | 010 | 007 | 605 | 986 | 988 | 990 | 993 | 995 | 671 | 607 | 663 | 658 | 604 | 24 | 36 |
| 24 | 36 | 340 | 350 | 354 | 358 | 362 | * 605 | 002 | 000 | 997 | 995 | * 995 | 998 | 000 | 003 | 005 | 654 | 650 | 640 | 642 | 638 | 30. 20 | 35 |
| 25 | 29. 40 | 2. 78 352 | 350 | 371 | 375 | 379 | 9. 89 995 | 993 | 990 | 988 | 985 | 6. 10 005 | 007 | 010 | 012 | 015 | 0. 21 638 | 034 | 629 | 625 | 621 | 10 | 34 |
| 26 | 44 | 379 | 383 | 387 | 391 | 395 | 985 | 983 | 981 | 278 | 975 | 015 | 017 | 019 | 022 | 024 | 621 | 017 | 013 | 609 | 000 | 12 | 33 |
| 27 | 48 | 395 | 399 | 404 | 408 | 412 | 976 | 973 | 971 | 908 | 966 | 024 | 027 | 029 | 032 | 034 | 605 | 601 | 596 | 592 | 588 | 8 | 32 |
| 20 | 62 | 412 | 410 | 420 | 424 | 428 | 960 | 964 | 901 | 959 | 956 | 034 | 030 | 039 | 041 | 044 | 588 | 584 | 580 | 576 | 572 | 4 | 31 |
| 29 | 66 | 428 | 432 | 436 | 441 | 445 | 956 | 904 | 952 | 949 | 947 | 044 | 046 | 048 | 051 | 053 | 672 | 568 | 564 | 659 | 555 | 30. 6 | 30 |
| 30 | 30. 6 | 9. 78 445 | 449 | 453 | 457 | 451 | 9. 69 947 | 944 | 242 | 939 | 937 | 0. 10 053 | 056 | 008 | 061 | 003 | 0. 21 655 | 551 | 547 | 543 | 539 | 66 | 29 |
| 31 | 4 | 461 | 465 | 469 | 474 | 478 | 937 | 935 | 932 | 930 | 927 | 663 | 065 | 068 | 070 | 073 | 639 | 535 | 531 | 526 | 522 | 62 | 28 |
| 32 | 8 | 478 | 482 | 406 | 490 | 494 | 927 | 925 | 922 | 920 | 918 | 073 | 075 | 078 | 080 | 062 | 522 | 518 | 514 | 510 | 506 | 48 | 27 |
| 33 | 12 | 494 | 490 | 502 | 500 | 510 | 918 | 910 | 913 | 910 | 908 | 682 | 065 | 087 | 090 | 092 | 680 | 002 | 498 | 494 | 490 | 44 | 26 |
| 34 | 16 | 510 | 515 | 519 | 523 | 627 | 908 | 905 | 903 | 901 | 898 | 692 | 095 | 097 | 099 | 102 | 490 | 405 | 481 | 477 | 473 | 29. 40 | 25 |
| 35 | 30. 20 | 2. 78 527 | 531 | 535 | 539 | 543 | 9. 69 098 | 690 | 893 | 891 | 888 | 6. 10 102 | 104 | 107 | 109 | 112 | 6. 21 473 | 409 | 465 | 401 | 457 | 38 | 24 |
| 30 | 24 | 543 | 547 | 552 | 550 | 500 | 888 | 886 | 804 | 881 | 872 | 112 | 114 | 116 | 119 | 121 | 457 | 403 | 448 | 444 | 446 | 32 | 23 |
| 37 | 28 | 660 | 501 | 508 | 572 | 076 | 679 | 876 | 874 | 871 | 869 | 121 | 124 | 126 | 129 | 131 | 440 | 436 | 432 | 426 | 424 | 28 | 22 |
| 30 | 32 | 676 | 580 | 504 | 500 | 092 | 869 | 860 | 864 | 862 | 859 | 131 | 134 | 130 | 138 | 141 | 424 | 420 | 410 | 412 | 408 | 24 | 21 |
| 39 | 36 | 692 | 597 | 601 | 600 | 009 | 659 | 857 | 854 | 852 | 849 | 141 | 143 | 140 | 148 | 151 | 408 | 403 | 399 | 395 | 391 | 29. 20 | 20 |
| 40 | 30. 40 | 9. 76 609 | 013 | 617 | 621 | 625 | 9. 89 849 | 847 | 845 | 842 | 840 | 6. 10 151 | 153 | 155 | 150 | 160 | 0. 21 391 | 387 | 383 | 379 | 375 | 16 | 19 |
| 41 | 41 | 625 | 629 | 633 | 037 | 642 | 840 | 837 | 835 | 832 | 830 | 160 | 103 | 160 | 168 | 170 | 375 | 371 | 367 | 363 | 356 | 12 | 16 |
| 42 | 48 | 642 | 646 | 650 | 054 | 658 | 830 | 827 | 825 | 822 | 828 | 170 | 173 | 170 | 178 | 166 | 356 | 354 | 350 | 340 | 342 | 8 | 17 |
| 43 | 62 | 658 | 062 | 665 | 070 | 574 | 620 | 817 | 816 | 613 | 810 | 180 | 183 | 185 | 187 | 190 | 342 | 330 | 334 | 330 | 326 | 4 | 16 |
| 44 | 66 | 674 | 678 | 682 | 080 | 091 | 610 | 068 | 805 | 803 | 801 | 190 | 192 | 195 | 197 | 199 | 326 | 322 | 318 | 314 | 309 | 29. 0 | 16 |
| 45 | 31. 0 | 9. 78 691 | 595 | 699 | 703 | 707 | 9. 69 801 | 798 | 796 | 793 | 791 | 6. 10 199 | 202 | 204 | 207 | 209 | 0. 21 309 | 305 | 301 | 297 | 293 | 50 | 14 |
| 40 | 4 | 707 | 711 | 715 | 719 | 723 | 791 | 788 | 786 | 783 | 781 | 209 | 212 | 214 | 217 | 219 | 293 | 209 | 285 | 281 | 277 | 52 | 13 |
| 47 | 8 | 723 | 727 | 731 | 735 | 739 | 781 | 778 | 776 | 774 | 771 | 219 | 222 | 224 | 226 | 229 | 277 | 273 | 269 | 205 | 201 | 48 | 12 |
| 46 | 12 | 739 | 744 | 748 | 752 | 750 | 771 | 709 | 766 | 764 | 761 | 229 | 231 | 234 | 236 | 239 | 201 | 256 | 252 | 248 | 244 | 44 | 11 |
| 49 | 16 | 756 | 760 | 764 | 768 | 772 | 761 | 759 | 757 | 754 | 752 | 239 | 241 | 243 | 240 | 240 | 244 | 240 | 230 | 232 | 220 | 28. 40 | 10 |
| 50 | 31. 20 | 2. 76 772 | 776 | 780 | 784 | 788 | 9. 69 752 | 749 | 747 | 744 | 742 | 6. 10 248 | 251 | 253 | 256 | 256 | 6. 21 228 | 224 | 220 | 216 | 212 | 36 | 9 |
| 51 | 24 | 788 | 792 | 795 | 800 | 805 | 742 | 739 | 737 | 734 | 732 | 266 | 261 | 263 | 206 | 266 | 212 | 208 | 204 | 200 | 195 | 32 | 6 |
| 52 | 28 | 805 | 809 | 813 | 817 | 821 | 732 | 730 | 727 | 725 | 722 | 200 | 270 | 273 | 275 | 278 | 195 | 191 | 187 | 183 | 179 | 28 | 7 |
| 03 | 32 | 821 | 825 | 629 | 833 | 837 | 722 | 720 | 717 | 715 | 712 | 278 | 280 | 283 | 285 | 286 | 179 | 175 | 171 | 167 | 163 | 24 | 6 |
| 54 | 36 | 837 | 841 | 845 | 849 | 003 | 712 | 710 | 707 | 705 | 702 | 286 | 290 | 293 | 295 | 296 | 163 | 150 | 155 | 101 | 147 | 26. 20 | 5 |
| 55 | 31. 40 | 9. 78 853 | 857 | 801 | 865 | 869 | 9. 69 702 | 700 | 698 | 095 | 693 | 6. 16 290 | 300 | 302 | 306 | 307 | 0. 21 147 | 143 | 139 | 135 | 131 | 10 | 4 |
| 56 | 44 | 809 | 873 | 870 | 882 | 886 | 093 | 090 | 688 | 680 | 683 | 307 | 316 | 312 | 310 | 317 | 131 | 127 | 122 | 118 | 114 | 12 | 3 |
| 57 | 48 | 885 | 890 | 891 | 898 | 902 | 683 | 686 | 078 | 075 | 673 | 317 | 320 | 322 | 326 | 327 | 114 | 110 | 100 | 102 | 098 | 8 | 2 |
| 56 | 52 | 902 | 900 | 910 | 914 | 918 | 673 | 670 | 608 | 066 | 663 | 327 | 330 | 332 | 334 | 337 | 098 | 094 | 090 | 080 | 002 | 4 | 1 |
| 69 | 56 | 918 | 922 | 920 | 930 | 934 | 663 | 601 | 058 | 056 | 653 | 337 | 339 | 342 | 344 | 347 | 082 | 678 | 074 | 076 | 006 | 28. 0 | 6 |
| | | $4^s$ 60″ | $3^s$ 45″ | $2^s$ 30″ | $1^s$ 15″ | $6^s$ 0″ | $4^s$ 60″ | $3^s$ 45″ | $2^s$ 30″ | $1^s$ 16″ | $0^s$ 0″ | $4^s$ 60″ | $3^s$ 46″ | $2^s$ 30″ | $1^s$ 16″ | $0^s$ 0″ | $4^s$ 60″ | $3^s$ 45″ | $2^s$ 30″ | $1^s$ 15″ | $6^s$ 6″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | $9^h$ | 142° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | $3^h$ | 62° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 37° | 2h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 127° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | | 0″ 0° | 15″ 1° | 50″ 2° | 45″ 3° | 50″ 4° | | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 50 4° | | 0″ 0° | 15″ 1° | 30″ 9° | 45″ 3° | 60″ 4° | | 6″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 28. 0 | 9. 06 | 995 | 305 | 314 | 324 | 333 | 9. 29 | 905 | 892 | 893 | 886 | 600 | 9. 95 | 391 | 390 | 389 | 388 | 387 | 9. 90 | 350 | 360 | 361 | 363 | 366 | 66 | 69 |
| 1 | 4 | | 333 | 342 | 352 | 361 | 371 | | 860 | 874 | 867 | 861 | 655 | | 387 | 385 | 385 | 384 | 383 | | 355 | 365 | 368 | 369 | 371 | 52 | 50 |
| 9 | 6 | | 371 | 386 | 390 | 399 | 408 | | 855 | 848 | 842 | 836 | 899 | | 383 | 382 | 381 | 380 | 379 | | 371 | 372 | 374 | 376 | 377 | 48 | 57 |
| 3 | 12 | | 466 | 418 | 427 | 437 | 446 | | 829 | 823 | 617 | 616 | 804 | | 372 | 378 | 376 | 375 | 374 | | 377 | 379 | 360 | 302 | 383 | 44 | 56 |
| 4 | 16 | | 446 | 456 | 465 | 474 | 484 | | 804 | 798 | 791 | 785 | 779 | | 374 | 373 | 372 | 371 | 370 | | 383 | 385 | 367 | 388 | 390 | 31. 40 | 55 |
| 5 | 20. 20 | 9. 60 | 484 | 423 | 503 | 512 | 521 | 9. 29 | 779 | 772 | 766 | 760 | 753 | 9. 95 | 376 | 369 | 368 | 357 | 355 | 9. 20 | 390 | 391 | 393 | 394 | 396 | 36 | 54 |
| 6 | 24 | | 521 | 531 | 540 | 550 | 552 | | 753 | 747 | 741 | 734 | 728 | | 366 | 365 | 364 | 363 | 352 | | 396 | 398 | 399 | 401 | 402 | 32 | 53 |
| 7 | 20 | | 552 | 569 | 576 | 588 | 597 | | 728 | 722 | 715 | 709 | 702 | | 369 | 361 | 360 | 358 | 357 | | 402 | 404 | 405 | 407 | 409 | 28 | 52 |
| 6 | 32 | | 697 | 606 | 616 | 625 | 634 | | 762 | 696 | 620 | 663 | 577 | | 357 | 356 | 355 | 354 | 353 | | 409 | 410 | 112 | 413 | 415 | 24 | 61 |
| 9 | 36 | | 634 | 644 | 553 | 663 | 672 | | 677 | 571 | 664 | 658 | 652 | | 353 | 352 | 351 | 350 | 349 | | 415 | 415 | 418 | 420 | 421 | 31. 20 | 30 |
| 10 | 28. 40 | 9. 06 | 672 | 681 | 521 | 700 | 709 | 9. 29 | 652 | 615 | 639 | 533 | 626 | 9. 95 | 349 | 348 | 347 | 346 | 345 | 2. 90 | 421 | 423 | 424 | 426 | 497 | 16 | 49 |
| 11 | 44 | | 769 | 719 | 728 | 738 | 747 | | 626 | 620 | 613 | 607 | 601 | | 345 | 314 | 343 | 342 | 340 | | 427 | 429 | 131 | 432 | 434 | 12 | 48 |
| 12 | 48 | | 747 | 756 | 766 | 775 | 785 | | 601 | 594 | 508 | 582 | 575 | | 340 | 332 | 338 | 337 | 336 | | 434 | 435 | 437 | 138 | 440 | 8 | 47 |
| 13 | 52 | | 765 | 791 | 803 | 613 | 822 | | 675 | 569 | 563 | 555 | 550 | | 335 | 335 | 334 | 333 | 332 | | 440 | 441 | 143 | 445 | 446 | 4 | 46 |
| 14 | 56 | | 622 | 631 | 811 | 650 | 850 | | 650 | 543 | 537 | 531 | 524 | | 832 | 331 | 330 | 329 | 328 | | 446 | 448 | 149 | 451 | 452 | 31. 0 | 46 |
| 15 | 29. 6 | 9. 66 | 860 | 869 | 878 | 888 | 827 | 9. 29 | 524 | 518 | 512 | 505 | 499 | 9. 95 | 326 | 327 | 326 | 324 | 323 | 9. 90 | 452 | 454 | 456 | 457 | 452 | 56 | 44 |
| 16 | 4 | | 697 | 206 | 916 | 925 | 935 | | 492 | 423 | 486 | 480 | 473 | | 323 | 322 | 321 | 320 | 319 | | 459 | 460 | 462 | 463 | 465 | 52 | 43 |
| 17 | 8 | | 935 | 944 | 953 | 963 | 972 | | 473 | 467 | 461 | 454 | 448 | | 319 | 318 | 317 | 316 | 315 | | 465 | 467 | 468 | 470 | 471 | 48 | 42 |
| 16 | 12 | * | 972 | 281 | 921 | 000 | 009 | | 448 | 442 | 435 | 422 | 422 | | 315 | 314 | 313 | 312 | 311 | | 471 | 473 | 474 | 476 | 477 | 44 | 41 |
| 19 | 16 | 9. 01 | 069 | 019 | 028 | 037 | 047 | | 422 | 416 | 410 | 403 | 397 | | 311 | 310 | 308 | 307 | 306 | | 477 | 479 | 481 | 482 | 484 | 30. 40 | 40 |
| 26 | 29. 20 | 9. 01 | 647 | 056 | 055 | 075 | 084 | 9. 29 | 327 | 390 | 384 | 378 | 371 | 9. 95 | 306 | 305 | 364 | 303 | 302 | 9. 90 | 484 | 485 | 487 | 488 | 490 | 35 | 39 |
| 91 | 24 | | 684 | 094 | 103 | 112 | 122 | | 371 | 365 | 359 | 352 | 346 | | 302 | 301 | 300 | 299 | 298 | | 490 | 492 | 493 | 495 | 426 | 32 | 38 |
| 22 | 28 | | 122 | 131 | 140 | 150 | 159 | | 346 | 339 | 333 | 397 | 320 | | 998 | 297 | 296 | 295 | 294 | | 496 | 498 | 499 | 501 | 502 | 28 | 37 |
| 93 | 32 | | 159 | 168 | 178 | 187 | 196 | | 320 | 314 | 307 | 501 | 295 | | 294 | 292 | 291 | 290 | 289 | | 562 | 504 | 505 | 567 | 509 | 24 | 36 |
| 24 | 36 | | 196 | 206 | 215 | 224 | 234 | | 295 | 288 | 282 | 276 | 269 | | 989 | 286 | 987 | 286 | 285 | | 609 | 510 | 512 | 513 | 515 | 30. 20 | 35 |
| 25 | 29. 40 | 9. 01 | 234 | 243 | 252 | 252 | 271 | 9. 22 | 269 | 253 | 256 | 250 | 244 | 9. 95 | 285 | 284 | 283 | 282 | 281 | 9. 20 | 515 | 516 | 518 | 520 | 521 | 16 | 34 |
| 26 | 44 | | 271 | 286 | 289 | 299 | 308 | | 214 | 237 | 231 | 224 | 218 | | 981 | 286 | 279 | 278 | 276 | | 521 | 523 | 524 | 526 | 527 | 12 | 33 |
| 27 | 48 | | 308 | 317 | 327 | 336 | 345 | | 218 | 212 | 205 | 199 | 192 | | 276 | 275 | 274 | 273 | 272 | | 527 | 529 | 531 | 532 | 534 | 8 | 32 |
| 28 | 52 | | 345 | 355 | 364 | 373 | 383 | | 192 | 186 | 180 | 173 | 167 | | 272 | 271 | 270 | 269 | 268 | | 534 | 535 | 537 | 538 | 546 | 4 | 31 |
| 99 | 56 | | 383 | 392 | 401 | 411 | 120 | | 167 | 160 | 154 | 148 | 141 | | 268 | 267 | 266 | 265 | 264 | | 540 | 541 | 543 | 545 | 546 | 30. 0 | 30 |
| 50 | 36. 0 | 9. 01 | 420 | 429 | 438 | 448 | 457 | 9. 29 | 141 | 135 | 128 | 122 | 116 | 9. 95 | 264 | 262 | 361 | 260 | 259 | 9. 90 | 546 | 548 | 549 | 551 | 552 | 66 | 29 |
| 31 | 4 | | 457 | 466 | 476 | 485 | 494 | | 116 | 109 | 103 | 096 | 090 | | 259 | 258 | 257 | 255 | 255 | | 552 | 554 | 555 | 557 | 559 | 52 | 28 |
| 32 | 8 | | 494 | 564 | 513 | 522 | 531 | | 090 | 084 | 077 | 071 | 064 | | 255 | 254 | 253 | 259 | 251 | | 559 | 550 | 562 | 563 | 565 | 48 | 27 |
| 33 | 12 | | 531 | 541 | 550 | 552 | 569 | | 064 | 058 | 051 | 045 | 039 | | 951 | 250 | 249 | 247 | 946 | | 555 | 555 | 568 | 570 | 571 | 41 | 26 |
| 34 | 16 | | 569 | 578 | 587 | 596 | 606 | | 639 | 032 | 026 | 019 | 013 | | 246 | 245 | 244 | 243 | 942 | | 571 | 573 | 574 | 576 | 577 | 29. 40 | 25 |
| 35 | 30. 20 | 9. 01 | 666 | 615 | 624 | 634 | 543 | * | 013 | 007 | 000 | 991 | 987 | 9. 95 | 242 | 241 | 240 | 239 | 238 | 9. 90 | 577 | 579 | 580 | 582 | 583 | 36 | 24 |
| 36 | 24 | | 643 | 652 | 661 | 671 | 680 | 9. 20 | 987 | 981 | 974 | 958 | 962 | | 238 | 237 | 236 | 235 | 234 | | 683 | 585 | 587 | 588 | 591 | 32 | 23 |
| 37 | 28 | | 680 | 689 | 698 | 708 | 717 | | 962 | 955 | 949 | 942 | 936 | | 234 | 232 | 231 | 236 | 229 | | 590 | 591 | 593 | 594 | 596 | 28 | 22 |
| 38 | 32 | | 717 | 795 | 736 | 745 | 754 | | 936 | 930 | 923 | 917 | 910 | | 229 | 228 | 227 | 226 | 225 | | 596 | 597 | 599 | 601 | 509 | 24 | 21 |
| 39 | 36 | | 754 | 763 | 773 | 782 | 791 | | 910 | 904 | 827 | 891 | 885 | | 225 | 224 | 223 | 222 | 291 | | 609 | 504 | 605 | 607 | 608 | 29. 20 | 26 |
| 40 | 30. 40 | 9. 01 | 791 | 800 | 810 | 819 | 828 | 9. 28 | 885 | 878 | 872 | 865 | 859 | 9. 95 | 221 | 220 | 218 | 917 | 916 | 9. 90 | 608 | 610 | 611 | 513 | 616 | 16 | 19 |
| 41 | 44 | | 628 | 837 | 847 | 656 | 865 | | 859 | 852 | 846 | 840 | 833 | | 215 | 215 | 214 | 213 | 212 | | 615 | 516 | 518 | 619 | 621 | 12 | 18 |
| 42 | 48 | | 855 | 874 | 884 | 893 | 902 | | 833 | 827 | 820 | 814 | 807 | | 212 | 211 | 210 | 209 | 208 | | 621 | 522 | 624 | 625 | 627 | 8 | 17 |
| 43 | 52 | | 969 | 911 | 921 | 930 | 939 | | 807 | 801 | 794 | 788 | 782 | | 905 | 207 | 205 | 204 | 203 | | 627 | 628 | 630 | 631 | 633 | 4 | 16 |
| 44 | 56 | | 939 | 948 | 958 | 267 | 976 | | 782 | 775 | 769 | 762 | 756 | | 203 | 202 | 201 | 200 | 199 | | 633 | 634 | 636 | 638 | 639 | 29. 0 | 15 |
| 45 | 31. 0 | * | 976 | 985 | 995 | 004 | 013 | 9. 28 | 755 | 749 | 743 | 737 | 730 | 9. 95 | 199 | 198 | 197 | 195 | 195 | 9. 90 | 639 | 641 | 642 | 544 | 646 | 66 | 14 |
| 46 | 4 | 9. 02 | 013 | 022 | 031 | 041 | 050 | | 730 | 724 | 717 | 711 | 704 | | 195 | 194 | 193 | 191 | 190 | | 646 | 647 | 649 | 550 | 652 | 69 | 13 |
| 47 | 8 | | 050 | 059 | 058 | 078 | 087 | | 704 | 598 | 691 | 685 | 679 | | 190 | 189 | 188 | 187 | 186 | | 652 | 653 | 655 | 656 | 658 | 48 | 12 |
| 48 | 12 | | 087 | 096 | 165 | 114 | 124 | | 672 | 672 | 566 | 659 | 653 | | 186 | 185 | 184 | 103 | 182 | | 658 | 659 | 661 | 663 | 664 | 44 | 11 |
| 49 | 16 | | 124 | 133 | 142 | 151 | 161 | | 653 | 646 | 640 | 633 | 627 | | 102 | 101 | 179 | 176 | 177 | | 664 | 666 | 667 | 569 | 670 | 28. 40 | 10 |
| 50 | 31. 20 | 9. 02 | 161 | 170 | 179 | 188 | 197 | 9. 28 | 627 | 620 | 614 | 608 | 601 | 9. 95 | 177 | 176 | 175 | 174 | 173 | 9. 90 | 670 | 672 | 673 | 675 | 676 | 36 | 2 |
| 51 | 24 | | 197 | 267 | 215 | 225 | 234 | | 601 | 595 | 588 | 582 | 575 | | 173 | 172 | 171 | 170 | 169 | | 676 | 678 | 680 | 681 | 683 | 32 | 0 |
| 52 | 28 | | 934 | 244 | 953 | 252 | 971 | | 575 | 559 | 562 | 556 | 549 | | 169 | 168 | 157 | 155 | 154 | | 683 | 684 | 686 | 687 | 689 | 28 | 7 |
| 53 | 32 | | 971 | 280 | 290 | 299 | 308 | | 649 | 543 | 537 | 530 | 524 | | 154 | 163 | 169 | 161 | 160 | | 689 | 690 | 692 | 693 | 695 | 24 | 6 |
| 54 | 36 | | 308 | 317 | 326 | 336 | 345 | | 524 | 517 | 511 | 504 | 498 | | 160 | 159 | 158 | 157 | 156 | | 695 | 697 | 698 | 700 | 701 | 28. 20 | 5 |
| 55 | 31. 40 | 9. 02 | 345 | 354 | 363 | 372 | 381 | 9. 28 | 428 | 491 | 485 | 478 | 472 | 9. 26 | 156 | 155 | 154 | 152 | 161 | 9. 96 | 701 | 703 | 704 | 706 | 707 | 16 | 4 |
| 56 | 44 | | 301 | 391 | 400 | 409 | 418 | | 472 | 465 | 459 | 153 | 446 | | 151 | 150 | 149 | 148 | 147 | | 767 | 709 | 710 | 712 | 714 | 12 | 3 |
| 57 | 48 | | 418 | 427 | 437 | 446 | 455 | | 446 | 440 | 433 | 427 | 420 | | 147 | 146 | 145 | 144 | 143 | | 714 | 715 | 717 | 718 | 726 | 0 | 9 |
| 56 | 52 | | 455 | 464 | 473 | 483 | 492 | | 420 | 414 | 407 | 401 | 394 | | 143 | 142 | 141 | 139 | 138 | | 720 | 721 | 723 | 724 | 796 | 4 | 1 |
| 59 | 56 | | 492 | 561 | 510 | 519 | 528 | | 394 | 388 | 381 | 376 | 368 | | 138 | 137 | 136 | 135 | 134 | | 726 | 797 | 729 | 730 | 732 | 28. 6 | 0 |
| | | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 50″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | | 4° 60″ | 3° 45″ | 2° 36″ | 1° 15″ | 0° 6″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 142° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 62° |

Digitized by Google

**Tabla XVI.** Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 38° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 128° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 8° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 32. 8 | 2.78 934 | 938 | 912 | 946 | 950 | 9.89 653 | 651 | 648 | 646 | 643 | 0.10 347 | 342 | 352 | 354 | 357 | 0.21 066 | 062 | 058 | 054 | 050 | 66 | 59 |
| 1 | 4 | 950 | 954 | 958 | 962 | 967 | 643 | 641 | 538 | 636 | 633 | 357 | 359 | 362 | 364 | 367 | 050 | 046 | 042 | 038 | 033 | 52 | 08 |
| 2 | 8 | 967 | 971 | 975 | 979 | 983 | 633 | 631 | 629 | 626 | 62[illegible] | 367 | 369 | 371 | 374 | 376 | 633 | 029 | 025 | 021 | 017 | 48 | 07 |
| 3 | 12 | 983 | 987 | 991 | 995 | 999 | 624 | 621 | 019 | 616 | 614 | 370 | 372 | 381 | 384 | 386 | 017 | 013 | 009 | 005 | 001 | 44 | 50 |
| 4 | 16 | * 299 | 003 | 007 | 011 | 015 | 614 | 611 | 689 | 606 | 604 | 386 | 382 | 391 | 394 | 396 | * 001 | 297 | 993 | 989 | 985 | 27. 40 | 56 |
| 5 | 32. 20 | 9.79 015 | 019 | 023 | 027 | 031 | 9.89 604 | 601 | 599 | 596 | 594 | 0.10 396 | 399 | 401 | 404 | 406 | 0.20 905 | 281 | 977 | 973 | 969 | 36 | 54 |
| 6 | 21 | 831 | 835 | 039 | 043 | 047 | 594 | 591 | 589 | 586 | 581 | 406 | 402 | 411 | 414 | 416 | 962 | 956 | 901 | 957 | 953 | 32 | 03 |
| 7 | 28 | 847 | 851 | 055 | 059 | 063 | 684 | 582 | 579 | 577 | 574 | 416 | 418 | 421 | 423 | 426 | 253 | 949 | 945 | 941 | 937 | 28 | 02 |
| 8 | 32 | 863 | 067 | 071 | 075 | 079 | 574 | 572 | 569 | 567 | 564 | 425 | 428 | 431 | 433 | 436 | 937 | 933 | 929 | 925 | 921 | 24 | 51 |
| 9 | 36 | 079 | 083 | 087 | 091 | 095 | 064 | 562 | 559 | 557 | 554 | 436 | 438 | 441 | 443 | 440 | 221 | 917 | 913 | 909 | 905 | 27. 20 | 50 |
| 10 | 32. 40 | 9.79 095 | 099 | 103 | 107 | 111 | 9.89 554 | 552 | 549 | 547 | 544 | 0.10 446 | 448 | 451 | 453 | 456 | 0.20 205 | 201 | 897 | 893 | 889 | 16 | 49 |
| 11 | 44 | 111 | 115 | 120 | 124 | 128 | 544 | 542 | 539 | 537 | 534 | 456 | 458 | 461 | 463 | 466 | 802 | 085 | 080 | 876 | 872 | 12 | 48 |
| 12 | 48 | 128 | 132 | 136 | 140 | 144 | 534 | 532 | 529 | 527 | 524 | 466 | 468 | 471 | 473 | 476 | 872 | 868 | 804 | 860 | 856 | 8 | 47 |
| 13 | 02 | 144 | 148 | 152 | 156 | 160 | 524 | 522 | 519 | 517 | 514 | 476 | 478 | 481 | 483 | 486 | 856 | 852 | 848 | 844 | 840 | 4 | 46 |
| 14 | 66 | 160 | 164 | 168 | 172 | 176 | 014 | 512 | 589 | 507 | 505 | 486 | 488 | 491 | 493 | 495 | 840 | 836 | 832 | 828 | 824 | 27. 0 | 45 |
| 15 | 33. 0 | 2.79 176 | 180 | 184 | 188 | 192 | 9.89 505 | 502 | 500 | 497 | 495 | 8.18 495 | 498 | 500 | 503 | 505 | 0.20 824 | 820 | 810 | 812 | 808 | 56 | 44 |
| 16 | 4 | 192 | 196 | 200 | 284 | 208 | 495 | 492 | 490 | 487 | 485 | 505 | 508 | 510 | 513 | 515 | 808 | 804 | 800 | 796 | 792 | 52 | 43 |
| 17 | 8 | 208 | 212 | 216 | 220 | 224 | 485 | 482 | 480 | 477 | 475 | 615 | 518 | 520 | 523 | 525 | 792 | 708 | 784 | 700 | 775 | 48 | 42 |
| 18 | 12 | 224 | 228 | 232 | 236 | 240 | 475 | 472 | 470 | 467 | 465 | 525 | 528 | 530 | 533 | 535 | 776 | 772 | 758 | 704 | 760 | 44 | 41 |
| 19 | 16 | 240 | 244 | 248 | 252 | 256 | 465 | 462 | 460 | 457 | 455 | 535 | 538 | 540 | 543 | 545 | 760 | 756 | 752 | 748 | 744 | 26. 40 | 40 |
| 28 | 33. 20 | 9.79 256 | 260 | 264 | 268 | 272 | 9.89 455 | 452 | 450 | 447 | 445 | 0.16 545 | 548 | 550 | 553 | 555 | 0.20 744 | 740 | 736 | 732 | 728 | 36 | 32 |
| 21 | 24 | 272 | 276 | 280 | 284 | 288 | 445 | 442 | 440 | 437 | 435 | 655 | 558 | 560 | 563 | 565 | 728 | 724 | 726 | 716 | 712 | 32 | 38 |
| 22 | 28 | 288 | 292 | 296 | 300 | 384 | 435 | 432 | 430 | 427 | 425 | 505 | 568 | 570 | 573 | 575 | 712 | 708 | 704 | 700 | 696 | 28 | 37 |
| 23 | 32 | 304 | 308 | 312 | 316 | 319 | 425 | 422 | 420 | 417 | 415 | 575 | 578 | 580 | 583 | 585 | 695 | 692 | 688 | 684 | 681 | 24 | 36 |
| 24 | 36 | 319 | 323 | 327 | 331 | 335 | 415 | 412 | 410 | 407 | 405 | 585 | 588 | 590 | 593 | 595 | 681 | 677 | 673 | 609 | 665 | 26. 20 | 35 |
| 25 | 33. 40 | 2.79 335 | 339 | 343 | 347 | 351 | 9.89 405 | 402 | 400 | 397 | 395 | 0.10 095 | 598 | 600 | 603 | 605 | 0.20 665 | 661 | 657 | 653 | 649 | 16 | 34 |
| 26 | 44 | 351 | 355 | 359 | 363 | 367 | 395 | 392 | 390 | 387 | 385 | 605 | 608 | 610 | 013 | 615 | 649 | 645 | 641 | 637 | 633 | 12 | 33 |
| 27 | 48 | 367 | 371 | 375 | 379 | 383 | 385 | 382 | 380 | 377 | 375 | 615 | 018 | 620 | 023 | 025 | 633 | 629 | 625 | 621 | 617 | 8 | 32 |
| 28 | 52 | 383 | 387 | 391 | 395 | 399 | 370 | 372 | 370 | 367 | 364 | 625 | 628 | 630 | 633 | 636 | 617 | 613 | 609 | 605 | 001 | 4 | 31 |
| 29 | 56 | 399 | 403 | 407 | 411 | 415 | 364 | 362 | 359 | 357 | 354 | 636 | 638 | 641 | 643 | 646 | 681 | 597 | 593 | 589 | 585 | 26. 6 | 36 |
| 30 | 34. 8 | 2.79 415 | 419 | 423 | 427 | 431 | 9.89 354 | 352 | 349 | 347 | 344 | 0.10 646 | 648 | 651 | 653 | 656 | 6.20 585 | 581 | 577 | 573 | 569 | 56 | 29 |
| 31 | 4 | 431 | 135 | 439 | 443 | 447 | 344 | 342 | 339 | 337 | 334 | 650 | 658 | 661 | 663 | 666 | 569 | 565 | 501 | 557 | 553 | 62 | 28 |
| 32 | 8 | 447 | 451 | 455 | 459 | 463 | 334 | 332 | 329 | 327 | 324 | 666 | 668 | 671 | 673 | 676 | 553 | 542 | 545 | 541 | 537 | 48 | 27 |
| 33 | 12 | 463 | 467 | 470 | 474 | 478 | 324 | 322 | 319 | 317 | 314 | 670 | 678 | 681 | 683 | 686 | 537 | 533 | 530 | 526 | 522 | 44 | 26 |
| 34 | 16 | 478 | 482 | 486 | 490 | 494 | 314 | 312 | 309 | 307 | 384 | 686 | 588 | 691 | 693 | 696 | 522 | 518 | 514 | 510 | 586 | 25. 40 | 25 |
| 35 | 34. 20 | 9.79 494 | 498 | 502 | 506 | 510 | 9.89 304 | 302 | 299 | 297 | 294 | 0.10 696 | 598 | 701 | 703 | 706 | 0.20 506 | 502 | 498 | 494 | 490 | 36 | 24 |
| 36 | 24 | 610 | 514 | 518 | 522 | 526 | 294 | 292 | 289 | 286 | 284 | 706 | 708 | 711 | 714 | 716 | 490 | 480 | 482 | 478 | 474 | 32 | 23 |
| 37 | 28 | 626 | 530 | 534 | 538 | 542 | 284 | 281 | 279 | 276 | 274 | 716 | 719 | 721 | 724 | 726 | 474 | 470 | 466 | 462 | 458 | 28 | 22 |
| 38 | 32 | 642 | 546 | 550 | 654 | 558 | 274 | 271 | 269 | 256 | 264 | 726 | 729 | 731 | 734 | 736 | 458 | 454 | 450 | 446 | 442 | 24 | 21 |
| 39 | 36 | 658 | 561 | 565 | 569 | 573 | 264 | 261 | 259 | 256 | 254 | 736 | 739 | 741 | 744 | 746 | 442 | 432 | 435 | 431 | 427 | 25. 20 | 28 |
| 40 | 34. 40 | 2.79 573 | 577 | 581 | 585 | 589 | 9.89 254 | 251 | 249 | 246 | 244 | 0.10 746 | 749 | 751 | 754 | 756 | 0.20 427 | 423 | 412 | 415 | 411 | 16 | 19 |
| 41 | 44 | 589 | 593 | 597 | 681 | 605 | 244 | 241 | 230 | 236 | 233 | 756 | 759 | 762 | 764 | 767 | 411 | 407 | 403 | 322 | 325 | 12 | 18 |
| 42 | 48 | 605 | 609 | 613 | 617 | 621 | 233 | 231 | 228 | 226 | 223 | 767 | 709 | 772 | 774 | 777 | 325 | 391 | 387 | 383 | 379 | 8 | 17 |
| 43 | 52 | 621 | 625 | 629 | 632 | 636 | 223 | 221 | 218 | 216 | 213 | 777 | 779 | 782 | 784 | 787 | 379 | 375 | 371 | 368 | 364 | 4 | 15 |
| 44 | 56 | 636 | 640 | 644 | 048 | 552 | 213 | 211 | 208 | 206 | 283 | 787 | 789 | 722 | 794 | 797 | 364 | 360 | 356 | 352 | 348 | 25. 0 | 15 |
| 45 | 35. 0 | 2.79 652 | 656 | 660 | 664 | 668 | 2.89 203 | 200 | 128 | 195 | 193 | 0.10 797 | 808 | 802 | 805 | 807 | 6.20 348 | 344 | 340 | 335 | 332 | 56 | 14 |
| 46 | 4 | 668 | 672 | 670 | 680 | 584 | 193 | 120 | 188 | 185 | 183 | 807 | 010 | 812 | 015 | 017 | 332 | 328 | 324 | 320 | 316 | 52 | 13 |
| 47 | 5 | 684 | 688 | 691 | 695 | 699 | 183 | 188 | 178 | 175 | 173 | 817 | 020 | 822 | 825 | 827 | 316 | 312 | 302 | 305 | 301 | 48 | 12 |
| 48 | 12 | 699 | 703 | 787 | 711 | 715 | 173 | 170 | 168 | 165 | 162 | 827 | 830 | 832 | 835 | 838 | 301 | 297 | 223 | 289 | 285 | 44 | 11 |
| 49 | 16 | 715 | 719 | 723 | 727 | 731 | 162 | 160 | 157 | 155 | 152 | 638 | 840 | 843 | 840 | 848 | 285 | 281 | 277 | 273 | 269 | 24. 40 | 10 |
| 00 | 35. 20 | 2.79 731 | 735 | 732 | 742 | 746 | 2.89 162 | 150 | 147 | 145 | 142 | 0.16 848 | 850 | 853 | 855 | 858 | 0.26 269 | 265 | 201 | 258 | 254 | 36 | 2 |
| 51 | 24 | 746 | 760 | 764 | 768 | 762 | 142 | 148 | 137 | 134 | 132 | 858 | 500 | 863 | 866 | 868 | 254 | 250 | 246 | 242 | 238 | 32 | 8 |
| 52 | 28 | 762 | 766 | 770 | 774 | 778 | 132 | 129 | 127 | 124 | 122 | 858 | 671 | 073 | 876 | 878 | 238 | 234 | 230 | 220 | 222 | 28 | 7 |
| 53 | 32 | 778 | 782 | 785 | 798 | 793 | 122 | 112 | 117 | 114 | 112 | 870 | 881 | 883 | 886 | 888 | 222 | 218 | 214 | 210 | 207 | 24 | 6 |
| 54 | 36 | 793 | 727 | 801 | 805 | 089 | 112 | 102 | 106 | 104 | 101 | 888 | 891 | 894 | 896 | 829 | 207 | 203 | 199 | 195 | 121 | 24. 20 | 6 |
| 55 | 35. 40 | 9.79 509 | 013 | 817 | 821 | 525 | 9.69 101 | 099 | 896 | 094 | 021 | 0.10 899 | 901 | 904 | 906 | 909 | 0.20 191 | 187 | 183 | 172 | 175 | 16 | 4 |
| 56 | 44 | 625 | 829 | 833 | 836 | 540 | 091 | 089 | 086 | 083 | 081 | 909 | 211 | 914 | 917 | 919 | 175 | 171 | 167 | 164 | 160 | 12 | 3 |
| 57 | 48 | 648 | 844 | 848 | 852 | 856 | 081 | 078 | 076 | 073 | 071 | 919 | 922 | 924 | 927 | 929 | 160 | 156 | 152 | 140 | 144 | 5 | 2 |
| 66 | 52 | 556 | 860 | 864 | 868 | 072 | 671 | 058 | 066 | 063 | 860 | 929 | 932 | 234 | 937 | 940 | 144 | 140 | 136 | 132 | 128 | 4 | 1 |
| 52 | 66 | 672 | 675 | 879 | 883 | 887 | 650 | 058 | 050 | 053 | 060 | 948 | 942 | 945 | 947 | 958 | 128 | 125 | 121 | 117 | 113 | 24. 0 | 6 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 46″ | 2° 30″ | 1° 15″ | 0° 6″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 141° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 51° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| [illegible]° | 2h | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 128° | 8h | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 32. 0 | 9. 02 | 528 | 538 | 547 | 556 | 065 | 9. 20 | 368 | 362 | 355 | 349 | 312 | 9. 95 | 134 | 133 | 132 | 131 | 130 | 9. 90 | 732 | 734 | 735 | 737 | 730 | 66 | 09 |
| 1 | 4 | | 565 | 574 | 583 | 593 | 602 | | 342 | 336 | 330 | 323 | 317 | | 130 | 129 | 127 | 126 | 125 | | 738 | 740 | 741 | 743 | 744 | 52 | 08 |
| 9 | 8 | | 602 | 611 | 620 | 629 | 638 | | 317 | 310 | 304 | 297 | 291 | | 126 | 124 | 193 | 129 | 121 | | 744 | 746 | 747 | 749 | 751 | 48 | 07 |
| 3 | 12 | | 638 | 648 | 657 | 666 | 675 | | 291 | 284 | 278 | 271 | 265 | | 121 | 190 | 119 | 118 | 117 | | 751 | 752 | 754 | 755 | 757 | 44 | 06 |
| 4 | 16 | | 675 | 684 | 693 | 702 | 712 | | 265 | 258 | 252 | 245 | 939 | | 117 | 116 | 114 | 113 | 119 | | 757 | 758 | 760 | 761 | 763 | 27. 40 | 55 |
| 5 | 32. 20 | 9. 02 | 712 | 721 | 730 | 739 | 748 | 9. 28 | 239 | 232 | 226 | 219 | 913 | 9. 95 | 112 | 111 | 110 | 109 | 108 | 9. 90 | 763 | 704 | 766 | 767 | 769 | 36 | 54 |
| 6 | 24 | | 748 | 757 | 766 | 776 | 785 | | 213 | 206 | 200 | 193 | 187 | | 108 | 107 | 106 | 105 | 104 | | 769 | 771 | 779 | 774 | 775 | 32 | 03 |
| 7 | 28 | | 785 | 794 | 803 | 812 | 821 | | 187 | 180 | 174 | 167 | 161 | | 104 | 102 | 101 | 100 | 099 | | 775 | 777 | 778 | 780 | 781 | 20 | 52 |
| 8 | 32 | | 821 | 830 | 840 | 849 | 858 | | 161 | 154 | 148 | 141 | 135 | | 009 | 098 | 097 | 096 | 095 | | 781 | 783 | 704 | 786 | 787 | 24 | 01 |
| 9 | 36 | | 858 | 867 | 876 | 885 | 894 | | 135 | 128 | 122 | 115 | 109 | | 005 | 094 | 093 | 092 | 090 | | 787 | 789 | 790 | 799 | 794 | 27. 20 | 00 |
| 10 | 39. 40 | 9. 02 | 894 | 904 | 013 | 922 | 931 | 9. 20 | 109 | 102 | 096 | 089 | 083 | 9. 95 | 090 | 089 | 088 | 087 | 086 | 9. 90 | 794 | 795 | 797 | 798 | 800 | 16 | 49 |
| 11 | 44 | | 931 | 940 | 949 | 958 | 967 | | 083 | 076 | 070 | 063 | 057 | | 086 | 085 | 084 | 083 | 082 | | 800 | 801 | 803 | 804 | 806 | 12 | 48 |
| 12 | 48 | * | 967 | 977 | 986 | 095 | 004 | | 057 | 050 | 044 | 037 | 031 | | 082 | 081 | 079 | 078 | 077 | | 806 | 807 | 809 | 810 | 812 | 8 | 47 |
| 13 | 02 | 9. 03 | 004 | 013 | 022 | 031 | 040 | | 031 | 094 | 018 | 011 | 005 | | 077 | 076 | 075 | 074 | 073 | | 619 | 813 | 810 | 817 | 818 | 4 | 46 |
| 14 | 56 | | 040 | 049 | 059 | 068 | 077 | * | 005 | 998 | 992 | 985 | 979 | | 073 | 072 | 071 | 070 | 068 | | 818 | 820 | 821 | 823 | 824 | 27. 8 | 45 |
| 15 | 33. 0 | 9. 03 | 077 | 086 | 095 | 104 | 113 | 9. 27 | 970 | 972 | 966 | 959 | 953 | 9. 95 | 068 | 067 | 066 | 065 | 064 | 9. 90 | 824 | 826 | 897 | 829 | 830 | 06 | 44 |
| 16 | 4 | | 113 | 199 | 131 | 141 | 150 | | 953 | 946 | 940 | 933 | 927 | | 064 | 063 | 062 | 061 | 060 | | 830 | 832 | 833 | 835 | 836 | 02 | 43 |
| 17 | 8 | | 150 | 150 | 168 | 177 | 186 | | 927 | 920 | 914 | 907 | 901 | | 060 | 059 | 058 | 056 | 055 | | 836 | 838 | 840 | 841 | 843 | 48 | 42 |
| 18 | 12 | | 186 | 195 | 204 | 213 | 222 | | 901 | 894 | 888 | 881 | 875 | | 055 | 054 | 053 | 052 | 051 | | 843 | 844 | 846 | 847 | 849 | 44 | 41 |
| 19 | 16 | | 229 | 231 | 241 | 250 | 259 | | 875 | 868 | 861 | 855 | 848 | | 051 | 050 | 049 | 048 | 047 | | 849 | 850 | 852 | 853 | 855 | 26. 40 | 40 |
| 20 | 33. 20 | 9. 03 | 259 | 268 | 277 | 286 | 295 | 9. 27 | 848 | 842 | 835 | 899 | 822 | 9. 95 | 047 | 046 | 044 | 043 | 042 | 9. 00 | 855 | 856 | 858 | 859 | 861 | 36 | 39 |
| 21 | 24 | | 295 | 304 | 313 | 322 | 331 | | 822 | 816 | 809 | 803 | 796 | | 042 | 041 | 040 | 039 | 038 | | 861 | 862 | 864 | 866 | 867 | 32 | 38 |
| 22 | 28 | | 331 | 340 | 350 | 359 | 368 | | 796 | 790 | 783 | 777 | 770 | | 038 | 037 | 036 | 035 | 033 | | 867 | 869 | 870 | 872 | 873 | 20 | 37 |
| 23 | 32 | | 368 | 377 | 386 | .195 | 404 | | 770 | 764 | 757 | 751 | 744 | | 033 | 032 | 031 | 030 | 029 | | 873 | 875 | 876 | 878 | 879 | 24 | 36 |
| 24 | 36 | | 404 | 413 | 422 | 431 | 410 | | 744 | 737 | 731 | 724 | 718 | | 029 | 028 | 027 | 026 | 025 | | 879 | 881 | 882 | 884 | 885 | 26. 20 | 35 |
| 25 | 33. 40 | 9. 03 | 440 | 449 | 458 | 167 | 476 | 9. 27 | 718 | 711 | 705 | 698 | 692 | 9. 05 | 025 | 024 | 022 | 021 | 020 | 9. 90 | 885 | 887 | 888 | 890 | 891 | 16 | 34 |
| 20 | 44 | | 476 | 486 | 195 | 504 | 513 | | 692 | 685 | 679 | 672 | 666 | | 020 | 019 | 018 | 017 | 016 | | 891 | 893 | 895 | 896 | 898 | 12 | 33 |
| 27 | 48 | | 513 | 522 | 531 | 540 | 549 | | 666 | 659 | 652 | 646 | 639 | | 016 | 015 | 014 | 012 | 011 | | 898 | 899 | 901 | 909 | 904 | 8 | 32 |
| 28 | 62 | | 519 | 558 | 567 | 576 | 585 | | 639 | 633 | 626 | 620 | 613 | | 011 | 010 | 009 | 008 | 007 | | 904 | 905 | 907 | 908 | 910 | 4 | 31 |
| 20 | 06 | | 585 | 594 | 603 | 612 | 621 | | 613 | 607 | 600 | 594 | 587 | | 007 | 006 | 005 | 004 | 003 | | 910 | 911 | 913 | 914 | 916 | 26. 0 | 30 |
| 30 | 34. 0 | 9. 03 | 621 | 630 | 639 | 618 | 657 | 9. 27 | 587 | 580 | 574 | 567 | 561 | * | 003 | 001 | 000 | 999 | 998 | 9. 90 | 916 | 917 | 919 | 920 | 922 | 56 | 99 |
| 31 | 4 | | 657 | 667 | 676 | 685 | 694 | | 561 | 554 | 548 | 541 | 535 | 9. 94 | 998 | 997 | 996 | 995 | 994 | | 922 | 923 | 925 | 997 | 928 | 52 | 28 |
| 39 | 8 | | 694 | 703 | 712 | 721 | 730 | | 535 | 528 | 521 | 515 | 508 | | 994 | 993 | 902 | 990 | 989 | | 998 | 930 | 931 | 933 | 934 | 48 | 97 |
| 33 | 12 | | 730 | 739 | 748 | 757 | 766 | | 508 | 502 | 495 | 489 | 482 | | 989 | 988 | 987 | 986 | 985 | | 934 | 936 | 937 | 939 | 940 | 44 | 26 |
| 34 | 16 | | 766 | 775 | 784 | 793 | 802 | | 482 | 476 | 469 | 462 | 456 | | 985 | 984 | 983 | 089 | 980 | | 940 | 949 | 943 | 945 | 946 | 25. 40 | 25 |
| 35 | 34. 20 | 0. 03 | 802 | 811 | 820 | 829 | 838 | 9. 27 | 456 | 449 | 443 | 436 | 430 | 9. 94 | 980 | 979 | 978 | 977 | 976 | 9. 90 | 946 | 948 | 949 | 951 | 952 | 36 | 24 |
| 36 | 24 | | 838 | 847 | 856 | 865 | 874 | | 430 | 423 | 417 | 410 | 103 | | 976 | 975 | 974 | 973 | 979 | | 952 | 954 | 955 | 957 | 958 | 32 | 23 |
| 37 | 28 | | 874 | 883 | 892 | 901 | 910 | | 403 | 397 | 390 | 384 | 377 | | 972 | 971 | 969 | 968 | 967 | | 958 | 960 | 961 | 963 | 965 | 28 | 22 |
| 38 | 32 | | 910 | 919 | 928 | 937 | 946 | | 377 | 371 | 364 | 357 | 351 | | 967 | 966 | 965 | 964 | 963 | | 965 | 966 | 968 | 969 | 971 | 24 | 21 |
| 39 | 36 | | 946 | 955 | 964 | 973 | 982 | | 351 | 344 | 338 | 331 | 325 | | 963 | 962 | 961 | 959 | 958 | | 971 | 972 | 974 | 975 | 977 | 25. 20 | 20 |
| 40 | 34. 40 | * | 982 | 991 | 000 | 009 | 018 | 9. 27 | 325 | 318 | 311 | 305 | 298 | 9. 94 | 958 | 957 | 056 | 955 | 954 | 9. 90 | 977 | 970 | 980 | 981 | 983 | 16 | 19 |
| 41 | 44 | 9. 04 | 018 | 027 | 036 | 045 | 054 | | 298 | 299 | 205 | 279 | 272 | | 954 | 953 | 952 | 951 | 949 | | 983 | 984 | 986 | 987 | 989 | 12 | 18 |
| 42 | 48 | | 054 | 063 | 079 | 081 | 090 | | 272 | 965 | 259 | 952 | 246 | | 949 | 948 | 947 | 946 | 945 | | 989 | 990 | 992 | 993 | 995 | 8 | 17 |
| 43 | 52 | | 090 | 099 | 108 | 117 | 126 | | 246 | 239 | 233 | 220 | 219 | | 945 | 944 | 943 | 942 | 941 | * | 995 | 996 | 998 | 999 | 001 | 4 | 16 |
| 44 | 56 | | 126 | 135 | 144 | 153 | 162 | | 219 | 213 | 906 | 200 | 193 | | 941 | 940 | 938 | 937 | 936 | 9. 91 | 001 | 002 | 004 | 006 | 007 | 25. 8 | 15 |
| 45 | 33. 0 | 9. 04 | 162 | 171 | 180 | 189 | 198 | 9. 27 | 193 | 186 | 180 | 173 | 167 | 9. 04 | 936 | 935 | 934 | 933 | 032 | 9. 91 | 007 | 009 | 010 | 012 | 013 | 06 | 14 |
| 46 | 4 | | 198 | 207 | 216 | 225 | 234 | | 167 | 160 | 154 | 147 | 140 | | 932 | 931 | 930 | 928 | 927 | | 013 | 015 | 016 | 018 | 019 | 52 | 13 |
| 47 | 8 | | 234 | 243 | 952 | 901 | 270 | | 140 | 134 | 127 | 121 | 114 | | 927 | 926 | 925 | 924 | 923 | | 019 | 021 | 022 | 024 | 095 | 48 | 12 |
| 48 | 12 | | 270 | 279 | 288 | 297 | 306 | | 114 | 107 | 101 | 094 | 088 | | 923 | 922 | 921 | 920 | 918 | | 025 | 097 | 028 | 030 | 031 | 44 | 11 |
| 49 | 16 | | 306 | 315 | 324 | 333 | 311 | | 088 | 081 | 074 | 068 | 061 | | 918 | 917 | 916 | 915 | 914 | | 031 | 033 | 034 | 036 | 037 | 24. 40 | 10 |
| 50 | 35. 20 | 9. 04 | 311 | 350 | 359 | 368 | 377 | 9. 27 | 061 | 055 | 048 | 041 | 035 | 9. 94 | 914 | 913 | 912 | 911 | 909 | 9. 91 | 037 | 039 | 040 | 042 | 043 | 36 | 9 |
| 51 | 24 | | 377 | 386 | 395 | 404 | 413 | | 035 | 028 | 022 | 015 | 008 | | 909 | 908 | 907 | 906 | 905 | | 043 | 045 | 046 | 048 | 049 | 32 | 8 |
| 52 | 28 | | 413 | 422 | 431 | 440 | 449 | * | 008 | 002 | 995 | 989 | 989 | | 905 | 904 | 903 | 909 | 901 | | 049 | 051 | 052 | 054 | 055 | 28 | 7 |
| 53 | 32 | | 449 | 458 | 467 | 476 | 485 | 9. 26 | 982 | 975 | 969 | 962 | 056 | | 901 | 899 | 898 | 897 | 896 | | 055 | 057 | 058 | 060 | 061 | 24 | 6 |
| 54 | 36 | | 485 | 494 | 503 | 512 | 520 | | 956 | 949 | 942 | 936 | 929 | | 896 | 895 | 894 | 893 | 892 | | 061 | 063 | 064 | 066 | 067 | 24. 20 | 5 |
| 55 | 35. 40 | 9. 04 | 520 | 529 | 538 | 547 | 556 | 9. 26 | 929 | 923 | 916 | 909 | 903 | 9. 94 | 899 | 891 | 889 | 888 | 887 | 9. 91 | 067 | 069 | 071 | 072 | 074 | 16 | 4 |
| 06 | 44 | | 556 | 565 | 574 | 583 | 592 | | 903 | 896 | 889 | 883 | 876 | | 887 | 886 | 885 | 884 | 883 | | 074 | 075 | 077 | 078 | 080 | 12 | 3 |
| 07 | 48 | | 692 | 601 | 610 | 619 | 628 | | 876 | 870 | 863 | 856 | 850 | | 883 | 882 | 880 | 879 | 878 | | 080 | 081 | 083 | 084 | 086 | 8 | 2 |
| 58 | 52 | | 628 | 637 | 646 | 654 | 663 | | 850 | 843 | 837 | 830 | 823 | | 878 | 877 | 876 | 875 | 874 | | 086 | 087 | 089 | 090 | 092 | 4 | 1 |
| 59 | 56 | | 603 | 672 | 681 | 690 | 699 | | 893 | 817 | 810 | 803 | 797 | | 874 | 873 | 879 | 870 | 869 | | 892 | 093 | 095 | 096 | 098 | 24. 0 | 0 |
| ′ | | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9h | 141° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3h | 51° |

Digitized by Google

**TABLA XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 39° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 16″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 00″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 6 | 36. 0 | 9.79 067 | 891 | 895 | 899 | 903 | 9.69 650 | 048 | 045 | 043 | 040 | 0.10 250 | 252 | 255 | 257 | 900 | 0.20 113 | 102 | 100 | 101 | 097 | 56 | 59 |
| 1 | 4 | 283 | 907 | 911 | 914 | 918 | 040 | 037 | 035 | 032 | 030 | 260 | 963 | 965 | 968 | 970 | 027 | 023 | 009 | 086 | 082 | 52 | 58 |
| 2 | 8 | 918 | 992 | 926 | 230 | 934 | 030 | 027 | 025 | 022 | 020 | 270 | 273 | 975 | 978 | 980 | 689 | 078 | 074 | 070 | 066 | 48 | 07 |
| 3 | 12 | 934 | 938 | 942 | 946 | 950 | 020 | 017 | 014 | 012 | 009 | 980 | 983 | 986 | 986 | 991 | 066 | 062 | 058 | 054 | 056 | 44 | 55 |
| 4 | 16 | 950 | 953 | 957 | 261 | 965 | * 002 | 007 | 004 | 002 | 999 | * 991 | 293 | 296 | 298 | 001 | 000 | 047 | 043 | 032 | 035 | 23. 40 | 55 |
| 6 | 36. 20 | 2.79 965 | 969 | 273 | 977 | 981 | 2.88 299 | 996 | 994 | 991 | 989 | 0.11 001 | 004 | 000 | 009 | 011 | 0.20 030 | 031 | 027 | 023 | 012 | 36 | 54 |
| 6 | 24 | 981 | 985 | 988 | 992 | 996 | 989 | 986 | 984 | 981 | 279 | 011 | 014 | 016 | 019 | 021 | 019 | 016 | 012 | 008 | 004 | 32 | 53 |
| 7 | 28 | * 996 | 000 | 604 | 008 | 012 | 979 | 276 | 973 | 971 | 268 | 621 | 024 | 027 | 029 | 032 | * 004 | 000 | 996 | 292 | 988 | 28 | 02 |
| 6 | 32 | 9.06 012 | 016 | 019 | 023 | 097 | 268 | 966 | 963 | 961 | 958 | 032 | 034 | 037 | 039 | 042 | 0.19 288 | 984 | 901 | 277 | 973 | 24 | 61 |
| 9 | 36 | 627 | 031 | 025 | 039 | 013 | 258 | 955 | 953 | 950 | 948 | 049 | 045 | 047 | 050 | 062 | 273 | 969 | 965 | 961 | 957 | 23. 20 | 50 |
| 10 | 36. 40 | 9.80 643 | 047 | 050 | 054 | 058 | 9.60 948 | 945 | 943 | 940 | 237 | 0.11 052 | 065 | 057 | 060 | 063 | 6.19 957 | 253 | 950 | 246 | 942 | 16 | 49 |
| 11 | 44 | 658 | 062 | 066 | 070 | 074 | 937 | 935 | 932 | 930 | 927 | 063 | 005 | 066 | 070 | 073 | 942 | 238 | 934 | 930 | 226 | 12 | 40 |
| 12 | 48 | 674 | 070 | 081 | 085 | 689 | 927 | 924 | 222 | 919 | 917 | 673 | 076 | 078 | 081 | 003 | 226 | 222 | 219 | 215 | 911 | 8 | 47 |
| 13 | 62 | 609 | 093 | 097 | 101 | 105 | 917 | 914 | 212 | 909 | 906 | 083 | 086 | 068 | 091 | 094 | 911 | 907 | 263 | 099 | 825 | 4 | 46 |
| 14 | 66 | 105 | 109 | 112 | 116 | 120 | 906 | 904 | 901 | 099 | 896 | 094 | 096 | 099 | 101 | 104 | 693 | 891 | 880 | 884 | 600 | 23. 0 | 45 |
| 16 | 37. 0 | 9.80 120 | 124 | 128 | 139 | 136 | 9.88 096 | 894 | 891 | 888 | 886 | 0.11 104 | 106 | 109 | 112 | 114 | 0.19 886 | 076 | 672 | 068 | 864 | 50 | 44 |
| 16 | 4 | 136 | 140 | 143 | 147 | 151 | 880 | 883 | 881 | 878 | 875 | 114 | 117 | 119 | 122 | 125 | 664 | 861 | 857 | 853 | 849 | 52 | 43 |
| 17 | 8 | 151 | 155 | 159 | 163 | 166 | 670 | 573 | 870 | 868 | 865 | 125 | 127 | 130 | 132 | 135 | 649 | 845 | 841 | 837 | 834 | 48 | 42 |
| 16 | 12 | 166 | 170 | 174 | 178 | 182 | 665 | 863 | 800 | 857 | 855 | 135 | 137 | 140 | 143 | 145 | 034 | 830 | 826 | 822 | 018 | 44 | 41 |
| 19 | 16 | 182 | 186 | 190 | 193 | 197 | 655 | 659 | 850 | 817 | 644 | 146 | 148 | 150 | 153 | 156 | 015 | 014 | 010 | 807 | 003 | 22. 40 | 40 |
| 20 | 37. 20 | 9.06 127 | 201 | 205 | 209 | 213 | 9.88 844 | 842 | 832 | 837 | 834 | 0.11 156 | 158 | 161 | 163 | 166 | 0.19 503 | 799 | 725 | 791 | 787 | 36 | 39 |
| 21 | 24 | 213 | 217 | 220 | 224 | 228 | 834 | 832 | 829 | 826 | 824 | 166 | 169 | 171 | 174 | 176 | 767 | 703 | 780 | 776 | 772 | 32 | 30 |
| 22 | 28 | 220 | 232 | 236 | 240 | 244 | 624 | 821 | 819 | 810 | 613 | 176 | 179 | 101 | 184 | 167 | 772 | 768 | 764 | 760 | 756 | 20 | 37 |
| 23 | 32 | 244 | 247 | 251 | 255 | 259 | 013 | 011 | 808 | 806 | 803 | 187 | 169 | 192 | 194 | 197 | 706 | 753 | 742 | 740 | 741 | 24 | 36 |
| 24 | 36 | 202 | 263 | 267 | 270 | 274 | 003 | 800 | 798 | 795 | 793 | 197 | 200 | 202 | 206 | 267 | 741 | 737 | 733 | 730 | 726 | 22. 20 | 35 |
| 25 | 37. 40 | 9.00 274 | 278 | 282 | 286 | 290 | 9.88 793 | 720 | 787 | 785 | 782 | 0.11 207 | 210 | 213 | 210 | 218 | 0.19 726 | 722 | 710 | 714 | 710 | 16 | 34 |
| 26 | 44 | 296 | 294 | 297 | 301 | 305 | 762 | 772 | 777 | 774 | 772 | 218 | 221 | 223 | 926 | 228 | 710 | 706 | 703 | 699 | 626 | 12 | 33 |
| 27 | 48 | 305 | 309 | 313 | 317 | 320 | 772 | 762 | 767 | 764 | 761 | 228 | 231 | 233 | 936 | 239 | 695 | 691 | 667 | 663 | 560 | 8 | 32 |
| 20 | 62 | 320 | 394 | 320 | 332 | 336 | 751 | 709 | 756 | 754 | 751 | 239 | 241 | 244 | 246 | 249 | 660 | 575 | 672 | 668 | 664 | 4 | 31 |
| 29 | 56 | 336 | 346 | 343 | 347 | 361 | 751 | 748 | 746 | 743 | 741 | 249 | 252 | 254 | 257 | 259 | 664 | 660 | 657 | 553 | 649 | 22. 0 | 30 |
| 30 | 38. 0 | 9.00 351 | 355 | 359 | 363 | 366 | 9.08 741 | 738 | 735 | 733 | 730 | 0.11 259 | 262 | 265 | 267 | 270 | 0.19 549 | 645 | 641 | 637 | 634 | 56 | 29 |
| 31 | 4 | 366 | 370 | 374 | 376 | 382 | 730 | 728 | 725 | 722 | 720 | 270 | 272 | 275 | 978 | 260 | 534 | 630 | 626 | 522 | 610 | 52 | 20 |
| 32 | 8 | 382 | 385 | 389 | 393 | 397 | 790 | 717 | 715 | 712 | 709 | 286 | 263 | 265 | 288 | 291 | 618 | 614 | 611 | 607 | 603 | 48 | 27 |
| 33 | 19 | 397 | 461 | 405 | 408 | 419 | 709 | 707 | 704 | 702 | 699 | 291 | 293 | 296 | 296 | 301 | 603 | 629 | 590 | 592 | 588 | 44 | 26 |
| 34 | 16 | 412 | 416 | 420 | 424 | 428 | 699 | 626 | 594 | 691 | 688 | 301 | 304 | 306 | 309 | 319 | 508 | 584 | 550 | 576 | 572 | 21. 40 | 25 |
| 35 | 38. 20 | 9.86 425 | 431 | 435 | 439 | 443 | 9.08 688 | 686 | 683 | 601 | 678 | 0.11 312 | 314 | 317 | 319 | 322 | 0.19 072 | 569 | 565 | 561 | 557 | 36 | 24 |
| 36 | 24 | 443 | 447 | 450 | 454 | 458 | 578 | 676 | 673 | 670 | 668 | 329 | 325 | 327 | 336 | 332 | 557 | 653 | 560 | 546 | 042 | 32 | 23 |
| 37 | 28 | 456 | 462 | 466 | 470 | 473 | 668 | 665 | 662 | 650 | 657 | 332 | 335 | 338 | 340 | 343 | 542 | 638 | 534 | 530 | 027 | 26 | 22 |
| 36 | 39 | 473 | 477 | 481 | 485 | 489 | 657 | 654 | 659 | 649 | 647 | 343 | 346 | 340 | 361 | 353 | 527 | 523 | 519 | 015 | 011 | 24 | 21 |
| 39 | 36 | 462 | 492 | 496 | 506 | 504 | 647 | 644 | 641 | 639 | 636 | 353 | 356 | 359 | 361 | 364 | 611 | 508 | 604 | 660 | 496 | 21. 20 | 20 |
| 40 | 38. 40 | 9.85 004 | 508 | 511 | 515 | 519 | 9.86 636 | 534 | 631 | 628 | 626 | 5.11 364 | 366 | 369 | 372 | 374 | 0.19 496 | 492 | 462 | 485 | 401 | 16 | 12 |
| 41 | 44 | 519 | 023 | 527 | 531 | 534 | 626 | 623 | 520 | 516 | 615 | 374 | 377 | 386 | 382 | 355 | 461 | 477 | 473 | 470 | 466 | 12 | 18 |
| 42 | 48 | 634 | 038 | 542 | 546 | 550 | 616 | 513 | 610 | 607 | 605 | 365 | 367 | 320 | 393 | 396 | 466 | 452 | 456 | 494 | 450 | 8 | 17 |
| 43 | 52 | 550 | 563 | 657 | 561 | 065 | 605 | 602 | 599 | 597 | 594 | 396 | 398 | 401 | 403 | 406 | 400 | 447 | 443 | 439 | 435 | 4 | 16 |
| 44 | 66 | 565 | 069 | 572 | 070 | 580 | 694 | 592 | 089 | 580 | 584 | 406 | 408 | 411 | 414 | 416 | 435 | 431 | 428 | 424 | 426 | 21. 0 | 15 |
| 45 | 39. 0 | 9.80 680 | 584 | 585 | 591 | 595 | 9.58 584 | 081 | 578 | 576 | 573 | 0.11 416 | 419 | 422 | 424 | 427 | 0.19 420 | 416 | 412 | 402 | 465 | 56 | 14 |
| 46 | 4 | 595 | 099 | 663 | 606 | 610 | 573 | 571 | 568 | 565 | 563 | 427 | 429 | 432 | 435 | 437 | 405 | 461 | 397 | 394 | 390 | 62 | 13 |
| 47 | 8 | 610 | 514 | 618 | 022 | 625 | 563 | 560 | 507 | 555 | 552 | 437 | 440 | 443 | 445 | 448 | 390 | 386 | 302 | 378 | 376 | 48 | 12 |
| 45 | 12 | 625 | 622 | 533 | 537 | 641 | 052 | 500 | 547 | 544 | 642 | 448 | 450 | 453 | 456 | 458 | 376 | 371 | 367 | 363 | 359 | 44 | 11 |
| 49 | 16 | 641 | 644 | 640 | 652 | 656 | 542 | 639 | 536 | 534 | 531 | 456 | 461 | 464 | 466 | 469 | 359 | 305 | 302 | 340 | 344 | 20. 46 | 10 |
| 60 | 39. 20 | 9.00 656 | 650 | 663 | 667 | 671 | 9.88 531 | 526 | 526 | 523 | 521 | 0.11 469 | 472 | 474 | 477 | 479 | 0.19 344 | 340 | 337 | 333 | 329 | 36 | 9 |
| 61 | 24 | 671 | 675 | 676 | 682 | 686 | 521 | 515 | 515 | 513 | 016 | 479 | 462 | 465 | 467 | 490 | 329 | 326 | 322 | 318 | 314 | 32 | 8 |
| 52 | 28 | 686 | 590 | 694 | 697 | 701 | 610 | 507 | 565 | 562 | 499 | 496 | 493 | 496 | 498 | 501 | 314 | 310 | 305 | 303 | 299 | 20 | 7 |
| 63 | 32 | 701 | 705 | 709 | 712 | 710 | 499 | 427 | 494 | 492 | 489 | 501 | 563 | 505 | 506 | 011 | 299 | 295 | 291 | 265 | 284 | 24 | 0 |
| 54 | 36 | 716 | 726 | 724 | 728 | 731 | 489 | 466 | 484 | 481 | 478 | 511 | 514 | 516 | 512 | 029 | 284 | 280 | 276 | 272 | 269 | 20. 20 | 5 |
| 50 | 39. 40 | 9.88 731 | 736 | 739 | 743 | 746 | 9.05 476 | 470 | 473 | 470 | 468 | 0.11 622 | 524 | 527 | 030 | 532 | 0.19 269 | 266 | 261 | 267 | 264 | 16 | 4 |
| 66 | 44 | 746 | 756 | 754 | 768 | 762 | 468 | 455 | 462 | 450 | 457 | 532 | 635 | 538 | 540 | 643 | 254 | 200 | 246 | 242 | 936 | 12 | 3 |
| 67 | 46 | 752 | 765 | 769 | 773 | 777 | 457 | 455 | 452 | 449 | 447 | 543 | 043 | 546 | 551 | 653 | 238 | 235 | 931 | 227 | 223 | 8 | 2 |
| 58 | 52 | 777 | 700 | 704 | 788 | 792 | 447 | 444 | 441 | 439 | 436 | 553 | 056 | 659 | 061 | 564 | 223 | 220 | 216 | 212 | 208 | 4 | 1 |
| 69 | 66 | 792 | 720 | 799 | 603 | 507 | 436 | 433 | 431 | 429 | 425 | 564 | 667 | 559 | 672 | 076 | 208 | 205 | 201 | 197 | 193 | 20. 5 | 0 |
| | | 4° 65″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 60″ | 3° 40″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 65″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 140° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 50° |

**Tabla XVI.** **Logaritmos Versos, Coversos, Subversos y Subcoversos.**

| 32° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129° | 0h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 6″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 9 | 36. 9 | 9.94 692 | 706 | 717 | 726 | 735 | 9.26 727 | 790 | 784 | 777 | 776 | 9.94 869 | 068 | 867 | 666 | 665 | 9.91 996 | 099 | 101 | 102 | 105 | 06 | 59 |
| 1 | 4 | 735 | 744 | 753 | 761 | 770 | 770 | 764 | 757 | 750 | 744 | 065 | 861 | 863 | 861 | 660 | 104 | 105 | 107 | 106 | 110 | 02 | 58 |
| 2 | 9 | 770 | 779 | 788 | 797 | 806 | 744 | 737 | 731 | 724 | 717 | 060 | 059 | 858 | 857 | 850 | 110 | 111 | 113 | 114 | 116 | 48 | 07 |
| 3 | 12 | 000 | 615 | 624 | 633 | 041 | 717 | 711 | 704 | 097 | 091 | 056 | 655 | 854 | 853 | 651 | 116 | 117 | 119 | 120 | 122 | 44 | 56 |
| 4 | 16 | 841 | 650 | 859 | 068 | 877 | 691 | 684 | 678 | 671 | 604 | 951 | 650 | 849 | 640 | 047 | 122 | 123 | 125 | 120 | 128 | 23. 40 | 55 |
| 5 | 36. 20 | 9.04 677 | 886 | 895 | 904 | 913 | 9.26 664 | 058 | 651 | 644 | 038 | 9.94 847 | 846 | 845 | 814 | 842 | 9.91 128 | 129 | 131 | 132 | 134 | 36 | 01 |
| 6 | 24 | 913 | 922 | 931 | 939 | 948 | 638 | 631 | 624 | 618 | 011 | 842 | 841 | 610 | 639 | 638 | 134 | 135 | 137 | 138 | 140 | 32 | 03 |
| 7 | 20 | 948 | 957 | 966 | 975 | 984 | 611 | 605 | 598 | 591 | 585 | 930 | 837 | 836 | 635 | 033 | 140 | 141 | 143 | 144 | 146 | 20 | 52 |
| 9 | 32 | * 901 | 993 | 062 | 011 | 019 | 085 | 578 | 571 | 565 | 558 | 833 | 832 | 831 | 830 | 829 | 146 | 147 | 149 | 150 | 152 | 24 | 01 |
| 9 | 36 | 9.05 019 | 028 | 037 | 046 | 055 | 058 | 551 | 545 | 538 | 532 | 829 | 828 | 827 | 626 | 624 | 152 | 103 | 155 | 156 | 106 | 23. 20 | 50 |
| 16 | 36. 40 | 9.05 055 | 004 | 073 | 082 | 090 | 2.29 032 | 525 | 518 | 512 | 505 | 9.94 024 | 823 | 822 | 821 | 826 | 9.91 158 | 159 | 161 | 102 | 104 | 16 | 49 |
| 11 | 44 | 020 | 099 | 108 | 117 | 126 | 505 | 498 | 492 | 485 | 478 | 020 | 819 | 818 | 017 | 915 | 164 | 165 | 167 | 168 | 170 | 12 | 40 |
| 12 | 48 | 120 | 135 | 144 | 153 | 161 | 470 | 472 | 465 | 458 | 455 | 015 | 814 | 813 | 012 | 811 | 170 | 171 | 173 | 174 | 176 | 6 | 47 |
| 13 | 02 | 161 | 170 | 179 | 188 | 127 | 402 | 445 | 438 | 432 | 425 | 011 | 010 | 609 | 806 | 806 | 176 | 177 | 179 | 180 | 102 | 4 | 46 |
| 14 | 06 | 197 | 206 | 215 | 223 | 232 | 425 | 410 | 412 | 405 | 398 | 806 | 805 | 801 | 903 | 802 | 162 | 103 | 185 | 186 | 188 | 23. 0 | 45 |
| 15 | 37. 0 | 9.05 232 | 241 | 250 | 259 | 268 | 2.26 398 | 392 | 385 | 378 | 372 | 9.94 802 | 801 | 600 | 799 | 797 | 9.91 168 | 189 | 191 | 192 | 194 | 56 | 44 |
| 19 | 4 | 268 | 277 | 285 | 294 | 303 | 372 | 365 | 350 | 352 | 345 | 797 | 796 | 795 | 794 | 793 | 194 | 125 | 197 | 198 | 260 | 52 | 43 |
| 17 | 8 | 363 | 312 | 321 | 336 | 339 | 315 | 332 | 332 | 325 | 319 | 723 | 792 | 791 | 790 | 768 | 200 | 201 | 203 | 204 | 266 | 48 | 42 |
| 16 | 12 | 339 | 347 | 356 | 365 | 374 | 319 | 312 | 305 | 298 | 292 | 768 | 787 | 786 | 785 | 784 | 206 | 207 | 209 | 210 | 212 | 44 | 41 |
| 12 | 16 | 374 | 383 | 392 | 406 | 409 | 292 | 285 | 278 | 272 | 265 | 784 | 783 | 782 | 701 | 779 | 212 | 213 | 215 | 216 | 218 | 22. 40 | 46 |
| 20 | 37. 20 | 9.05 409 | 418 | 427 | 436 | 445 | 9.29 265 | 258 | 252 | 245 | 238 | 9.94 772 | 776 | 777 | 776 | 775 | 9.91 218 | 219 | 221 | 222 | 224 | 36 | 39 |
| 21 | 24 | 445 | 453 | 462 | 471 | 480 | 236 | 232 | 225 | 216 | 212 | 775 | 774 | 773 | 772 | 770 | 224 | 225 | 227 | 220 | 230 | 32 | 36 |
| 22 | 28 | 460 | 469 | 498 | 506 | 615 | 212 | 205 | 198 | 192 | 185 | 770 | 769 | 768 | 767 | 700 | 230 | 231 | 233 | 234 | 236 | 28 | 37 |
| 23 | 32 | 515 | 524 | 533 | 542 | 551 | 185 | 178 | 172 | 165 | 150 | 766 | 765 | 764 | 762 | 761 | 236 | 237 | 239 | 240 | 242 | 24 | 36 |
| 24 | 36 | 551 | 559 | 568 | 577 | 586 | 158 | 152 | 145 | 138 | 132 | 701 | 790 | 759 | 758 | 757 | 242 | 243 | 245 | 246 | 248 | 22. 20 | 35 |
| 25 | 37. 40 | 9.99 986 | 595 | 003 | 612 | 621 | 9.26 132 | 125 | 110 | 112 | 105 | 9.94 757 | 756 | 755 | 753 | 752 | 9.21 248 | 249 | 251 | 252 | 254 | 10 | 34 |
| 26 | 44 | 621 | 630 | 039 | 647 | 956 | 105 | 098 | 091 | 085 | 078 | 752 | 751 | 750 | 749 | 748 | 254 | 255 | 257 | 258 | 260 | 12 | 33 |
| 27 | 48 | 656 | 665 | 674 | 683 | 692 | 078 | 071 | 065 | 050 | 051 | 740 | 747 | 745 | 744 | 743 | 260 | 261 | 262 | 264 | 265 | 6 | 32 |
| 26 | 52 | 692 | 700 | 769 | 716 | 727 | 051 | 045 | 038 | 031 | 025 | 743 | 742 | 741 | 740 | 739 | 265 | 207 | 208 | 270 | 271 | 4 | 31 |
| 29 | 56 | 727 | 736 | 744 | 753 | 762 | • 025 | 018 | 011 | 004 | 928 | 732 | 738 | 736 | 735 | 734 | 271 | 273 | 274 | 276 | 277 | 22. 0 | 30 |
| 30 | 30. 0 | 9.96 762 | 771 | 780 | 788 | 797 | 9.25 298 | 991 | 284 | 278 | 971 | 9.94 734 | 733 | 732 | 731 | 736 | 9.21 277 | 279 | 280 | 282 | 263 | 56 | 29 |
| 31 | 4 | 797 | 806 | 015 | 823 | 632 | 971 | 904 | 958 | 951 | 944 | 730 | 728 | 727 | 726 | 725 | 203 | 205 | 286 | 288 | 289 | 52 | 28 |
| 32 | 8 | 832 | 041 | 850 | 859 | 867 | 244 | 937 | 231 | 224 | 217 | 725 | 724 | 723 | 722 | 721 | 289 | 291 | 292 | 294 | 295 | 48 | 27 |
| 33 | 12 | 867 | 870 | 885 | 894 | 903 | 917 | 911 | 904 | 097 | 691 | 721 | 719 | 716 | 717 | 716 | 295 | 297 | 296 | 300 | 301 | 44 | 26 |
| 34 | 16 | 903 | 911 | 920 | 929 | 938 | 691 | 884 | 877 | 070 | 094 | 716 | 715 | 714 | 713 | 711 | 301 | 303 | 304 | 306 | 367 | 21. 40 | 25 |
| 35 | 38. 20 | 9.05 938 | 940 | 955 | 964 | 973 | 9.25 864 | 857 | 050 | 044 | 037 | 9.24 711 | 710 | 709 | 708 | 707 | 9.91 367 | 309 | 310 | 312 | 313 | 36 | 24 |
| 36 | 24 | * 973 | 982 | 990 | 292 | 608 | 837 | 630 | 623 | 817 | 816 | 707 | 706 | 705 | 764 | 702 | 313 | 315 | 316 | 316 | 319 | 32 | 23 |
| 37 | 28 | 9.06 008 | 017 | 025 | 034 | 043 | 610 | 803 | 796 | 790 | 783 | 702 | 701 | 700 | 699 | 698 | 319 | 321 | 322 | 324 | 325 | 28 | 22 |
| 39 | 32 | 043 | 052 | 060 | 069 | 070 | 783 | 776 | 770 | 763 | 756 | 628 | 097 | 696 | 694 | 693 | 325 | 326 | 320 | 329 | 331 | 24 | 21 |
| 39 | 36 | 078 | 087 | 095 | 164 | 113 | 756 | 756 | 743 | 736 | 729 | 693 | 092 | 691 | 690 | 689 | 331 | 332 | 334 | 335 | 337 | 21. 20 | 20 |
| 40 | 38. 40 | 9.06 113 | 122 | 130 | 139 | 148 | 2.25 729 | 723 | 710 | 709 | 703 | 9.94 689 | 088 | 086 | 685 | 084 | 9.91 337 | 338 | 340 | 341 | 343 | 16 | 19 |
| 41 | 44 | 148 | 157 | 166 | 174 | 183 | 703 | 696 | 689 | 682 | 076 | 684 | 683 | 682 | 681 | 680 | 343 | 314 | 346 | 347 | 349 | 12 | 18 |
| 42 | 48 | 183 | 192 | 200 | 209 | 218 | 676 | 669 | 662 | 655 | 012 | 680 | 676 | 677 | 676 | 675 | 349 | 350 | 352 | 353 | 355 | 8 | 17 |
| 43 | 62 | 218 | 227 | 235 | 244 | 253 | 649 | 642 | 635 | 629 | 622 | 675 | 674 | 073 | 972 | 670 | 355 | 356 | 356 | 309 | 361 | 4 | 19 |
| 44 | 66 | 253 | 262 | 270 | 279 | 298 | 622 | 015 | 600 | 602 | 595 | 670 | 669 | 068 | 967 | 666 | 361 | 362 | 364 | 365 | 367 | 21. 0 | 19 |
| 45 | 39. 0 | 9.06 288 | 297 | 305 | 314 | 323 | 9.25 595 | 588 | 581 | 575 | 568 | 9.24 606 | 665 | 664 | 662 | 661 | 2.91 367 | 368 | 302 | 371 | 372 | 56 | 14 |
| 46 | 4 | 323 | 332 | 340 | 349 | 358 | 560 | 561 | 554 | 548 | 541 | 661 | 660 | 052 | 058 | 657 | 372 | 374 | 375 | 377 | 378 | 52 | 13 |
| 47 | 6 | 358 | 367 | 375 | 304 | 393 | 541 | 534 | 527 | 521 | 514 | 657 | 656 | 654 | 653 | 652 | 378 | 380 | 301 | 383 | 364 | 48 | 12 |
| 46 | 12 | 593 | 401 | 416 | 419 | 428 | 514 | 507 | 501 | 494 | 487 | 952 | 651 | 050 | 649 | 610 | 361 | 386 | 387 | 369 | 390 | 44 | 11 |
| 49 | 16 | 428 | 430 | 446 | 454 | 462 | 487 | 480 | 474 | 467 | 469 | 646 | 646 | 645 | 644 | 643 | 390 | 392 | 393 | 395 | 396 | 20. 40 | 19 |
| 50 | 39. 20 | 9.66 402 | 471 | 460 | 469 | 427 | 9.25 460 | 453 | 447 | 440 | 433 | 9.94 643 | 642 | 041 | 640 | 638 | 2.91 326 | 396 | 399 | 401 | 402 | 36 | 9 |
| 61 | 24 | 497 | 506 | 515 | 523 | 532 | 433 | 426 | 420 | 413 | 406 | 638 | 637 | 030 | 035 | 634 | 402 | 404 | 405 | 406 | 409 | 32 | 9 |
| 92 | 28 | 532 | 541 | 550 | 556 | 507 | 406 | 399 | 393 | 306 | 379 | 634 | 632 | 631 | 030 | 629 | 408 | 469 | 411 | 412 | 414 | 20 | 7 |
| 53 | 32 | 567 | 576 | 584 | 593 | 662 | 379 | 372 | 360 | 352 | 352 | 629 | 628 | 627 | 626 | 625 | 414 | 415 | 417 | 418 | 426 | 24 | 6 |
| 64 | 36 | 602 | 610 | 619 | 626 | 637 | 352 | 345 | 336 | 332 | 325 | 625 | 624 | 022 | 621 | 620 | 420 | 421 | 423 | 424 | 426 | 29. 20 | 5 |
| 05 | 39. 40 | 9.06 637 | 845 | 654 | 663 | 671 | 9.25 325 | 310 | 311 | 305 | 296 | 9.94 620 | 619 | 610 | 617 | 616 | 9.91 426 | 427 | 429 | 430 | 432 | 16 | 4 |
| 56 | 44 | 971 | 696 | 989 | 627 | 766 | 296 | 291 | 284 | 276 | 271 | 916 | 614 | 613 | 612 | 911 | 432 | 433 | 435 | 436 | 437 | 12 | 3 |
| 57 | 40 | 706 | 715 | 724 | 732 | 741 | 271 | 204 | 257 | 251 | 244 | 911 | 610 | 609 | 907 | 606 | 437 | 439 | 440 | 442 | 443 | 8 | 2 |
| 56 | 52 | 741 | 750 | 750 | 767 | 776 | 244 | 237 | 230 | 224 | 217 | 606 | 605 | 604 | 603 | 602 | 443 | 145 | 446 | 448 | 449 | 4 | 1 |
| 09 | 56 | 770 | 784 | 793 | 802 | 810 | 217 | 219 | 203 | 196 | 190 | 602 | 001 | 599 | 998 | 097 | 442 | 451 | 452 | 454 | 453 | 20. 6 | 9 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 90″ | 3° 45″ | 2° 30″ | 1° 15″ | 6° 0″ | 4° 90″ | 3° 40″ | 2° 30″ | 1° 15″ | 0° 6″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 9h | 140° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 50° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 40° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 130° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 40. 0 | 9.80 807 | 811 | 814 | 818 | 822 | 9.88 425 | 423 | 420 | 417 | 415 | 0.11 575 | 577 | 580 | 583 | 585 | 0.19 193 | 192 | 186 | 182 | 178 | 56 | 59 |
| 1 | 4 | 822 | 826 | 822 | 833 | 837 | 415 | 412 | 409 | 407 | 404 | 685 | 588 | 521 | 523 | 596 | 178 | 174 | 171 | 107 | 163 | 52 | 58 |
| 2 | 8 | 037 | 841 | 844 | 848 | 852 | 404 | 402 | 399 | 396 | 324 | 596 | 598 | 601 | 604 | 606 | 163 | 152 | 156 | 152 | 148 | 48 | 57 |
| 3 | 12 | 852 | 056 | 850 | 063 | 867 | 094 | 321 | 388 | 386 | 383 | 606 | 609 | 512 | 614 | 617 | 148 | 144 | 141 | 137 | 133 | 44 | 56 |
| 4 | 16 | 867 | 871 | 874 | 878 | 889 | 383 | 380 | 370 | 375 | 372 | 617 | 620 | 622 | 695 | 628 | 133 | 129 | 126 | 122 | 118 | 19. 40 | 55 |
| 5 | 40. 20 | 9.80 882 | 886 | 889 | 893 | 897 | 9.88 372 | 370 | 367 | 364 | 362 | 0.11 628 | 630 | 633 | 636 | 638 | 0.19 118 | 114 | 111 | 107 | 103 | 36 | 54 |
| 6 | 24 | 027 | 901 | 904 | 908 | 212 | 362 | 359 | 356 | 354 | 351 | 638 | 641 | 644 | 646 | 649 | 103 | 099 | 096 | 022 | 088 | 02 | 53 |
| 7 | 28 | 912 | 916 | 919 | 223 | 027 | 351 | 348 | 346 | 343 | 340 | 619 | 652 | 054 | 657 | 660 | 088 | 084 | 081 | 877 | 073 | 28 | 52 |
| 8 | 32 | 927 | 931 | 934 | 938 | 942 | 340 | 338 | 335 | 332 | 330 | 660 | 662 | 665 | 668 | 670 | 073 | 069 | 066 | 062 | 058 | 24 | 51 |
| 9 | 06 | 942 | 946 | 949 | 953 | 957 | 330 | 397 | 324 | 322 | 319 | 678 | 673 | 076 | 678 | 681 | 058 | 054 | 051 | 017 | 043 | 19. 20 | 50 |
| 10 | 40. 40 | 9.80 957 | 961 | 964 | 968 | 972 | 9.88 319 | 316 | 314 | 311 | 308 | 0.11 681 | 684 | 686 | 689 | 692 | 0.19 043 | 032 | 036 | 032 | 028 | 16 | 40 |
| 11 | 44 | 972 | 976 | 979 | 983 | 987 | 308 | 306 | 303 | 380 | 298 | 692 | 624 | 097 | 700 | 702 | 028 | 024 | 021 | 017 | 013 | 12 | 48 |
| 12 | 48 | * 987 | 991 | 994 | 998 | 882 | 298 | 295 | 292 | 290 | 287 | 702 | 705 | 788 | 710 | 713 | * 013 | 002 | 006 | 002 | 998 | 8 | 47 |
| 13 | 59 | 9.81 002 | 005 | 089 | 013 | 017 | 207 | 984 | 282 | 279 | 276 | 713 | 716 | 718 | 721 | 794 | 0.18 098 | 995 | 991 | 987 | 983 | 4 | 46 |
| 14 | 56 | 017 | 020 | 094 | 098 | 032 | 276 | 274 | 271 | 268 | 266 | 794 | 726 | 729 | 732 | 734 | 983 | 980 | 276 | 972 | 968 | 19. 0 | 45 |
| 15 | 41. 0 | 9.81 039 | 835 | 032 | 043 | 047 | 9.88 266 | 263 | 960 | 258 | 255 | 0.11 734 | 737 | 740 | 742 | 745 | 0.18 968 | 965 | 961 | 957 | 954 | 56 | 44 |
| 16 | 4 | 047 | 050 | 054 | 058 | 061 | 255 | 252 | 250 | 247 | 244 | 745 | 748 | 750 | 753 | 756 | 954 | 950 | 246 | 912 | 039 | 62 | 43 |
| 17 | 8 | 061 | 065 | 069 | 073 | 076 | 244 | 249 | 232 | 236 | 234 | 756 | 758 | 761 | 764 | 766 | 939 | 935 | 931 | 227 | 924 | 48 | 42 |
| 18 | 12 | 076 | 080 | 084 | 087 | 091 | 234 | 231 | 228 | 226 | 223 | 766 | 769 | 772 | 774 | 777 | 924 | 920 | 216 | 213 | 009 | 44 | 41 |
| 19 | 16 | 091 | 095 | 029 | 109 | 106 | 223 | 220 | 217 | 215 | 212 | 777 | 780 | 783 | 785 | 788 | 909 | 905 | 901 | 898 | 894 | 18. 40 | 40 |
| 20 | 41. 20 | 9.81 106 | 110 | 114 | 117 | 121 | 9.88 212 | 209 | 207 | 204 | 201 | 0.11 780 | 791 | 793 | 796 | 792 | 0.18 894 | 890 | 886 | 883 | 879 | 36 | 39 |
| 21 | 24 | 121 | 195 | 128 | 132 | 136 | 201 | 199 | 196 | 193 | 191 | 790 | 801 | 804 | 887 | 809 | 879 | 875 | 872 | 868 | 864 | 32 | 38 |
| 22 | 28 | 136 | 140 | 143 | 147 | 151 | 191 | 188 | 185 | 183 | 188 | 802 | 812 | 815 | 817 | 820 | 864 | 868 | 857 | 853 | 849 | 28 | 37 |
| 23 | 32 | 151 | 154 | 168 | 162 | 166 | 180 | 177 | 175 | 172 | 169 | 820 | 823 | 825 | 828 | 831 | 849 | 846 | 849 | 838 | 834 | 24 | 36 |
| 24 | 36 | 166 | 169 | 178 | 177 | 180 | 169 | 166 | 164 | 161 | 158 | 831 | 833 | 836 | 839 | 842 | 834 | 831 | 827 | 823 | 820 | 18. 20 | 35 |
| 25 | 41. 40 | 9.81 180 | 184 | 188 | 122 | 125 | 9.88 158 | 156 | 153 | 150 | 148 | 0.11 842 | 844 | 847 | 850 | 852 | 0.18 820 | 816 | 812 | 809 | 805 | 16 | 34 |
| 26 | 44 | 195 | 199 | 903 | 206 | 210 | 148 | 146 | 142 | 140 | 137 | 852 | 855 | 858 | 860 | 863 | 805 | 801 | 797 | 794 | 790 | 19 | 33 |
| 27 | 48 | 210 | 214 | 217 | 221 | 225 | 137 | 134 | 132 | 129 | 126 | 863 | 868 | 868 | 871 | 874 | 790 | 786 | 783 | 779 | 775 | 8 | 32 |
| 28 | 69 | 225 | 299 | 232 | 236 | 240 | 126 | 123 | 121 | 118 | 115 | 874 | 877 | 879 | 882 | 885 | 775 | 771 | 768 | 764 | 760 | 4 | 31 |
| 29 | 56 | 240 | 243 | 247 | 251 | 254 | 115 | 113 | 110 | 107 | 105 | 895 | 887 | 890 | 893 | 895 | 700 | 757 | 753 | 749 | 746 | 10. 0 | 30 |
| 30 | 42. 0 | 9.81 254 | 258 | 262 | 268 | 262 | 9.88 105 | 102 | 099 | 096 | 094 | 8.11 825 | 898 | 901 | 904 | 986 | 0.18 746 | 742 | 738 | 734 | 731 | 56 | 29 |
| 31 | 4 | 269 | 273 | 277 | 280 | 284 | 094 | 091 | 088 | 086 | 083 | 906 | 909 | 912 | 914 | 917 | 731 | 727 | 723 | 720 | 716 | 02 | 28 |
| 32 | 0 | 284 | 288 | 291 | 225 | 299 | 083 | 080 | 878 | 075 | 072 | 917 | 928 | 922 | 925 | 998 | 716 | 712 | 709 | 705 | 701 | 48 | 27 |
| 33 | 12 | 299 | 302 | 306 | 310 | 314 | 072 | 069 | 067 | 064 | 861 | 928 | 931 | 933 | 936 | 239 | 701 | 698 | 891 | 690 | 686 | 44 | 26 |
| 34 | 10 | 314 | 317 | 321 | 325 | 328 | 061 | 059 | 056 | 053 | 051 | 939 | 941 | 944 | 947 | 949 | 086 | 683 | 679 | 676 | 672 | 17. 40 | 25 |
| 35 | 42. 20 | 9.81 328 | 332 | 336 | 339 | 343 | 9.88 051 | 048 | 045 | 042 | 040 | 0.11 949 | 252 | 955 | 958 | 960 | 0.18 672 | 668 | 664 | 661 | 657 | 36 | 24 |
| 36 | 24 | 343 | 347 | 350 | 354 | 358 | 040 | 037 | 034 | 032 | 099 | 960 | 963 | 966 | 968 | 971 | 657 | 653 | 650 | 646 | 642 | 32 | 23 |
| 37 | 28 | 358 | 361 | 365 | 369 | 373 | 029 | 026 | 023 | 021 | 018 | 971 | 974 | 977 | 979 | 982 | 642 | 639 | 635 | 631 | 628 | 28 | 22 |
| 38 | 39 | 373 | 376 | 380 | 384 | 387 | 018 | 015 | 813 | 010 | 007 | 982 | 983 | 987 | 990 | 993 | 628 | 624 | 620 | 616 | 613 | 24 | 21 |
| 39 | 36 | 387 | 391 | 395 | 398 | 402 | * 007 | 004 | 002 | 929 | 996 | * 993 | 996 | 928 | 001 | 004 | 613 | 609 | 605 | 602 | 590 | 17. 28 | 20 |
| 40 | 42. 40 | 9.81 402 | 406 | 409 | 413 | 417 | 9.87 926 | 994 | 991 | 988 | 985 | 0.12 004 | 006 | 809 | 012 | 015 | 0.18 598 | 594 | 691 | 587 | 583 | 16 | 19 |
| 41 | 44 | 417 | 420 | 494 | 428 | 431 | 985 | 983 | 980 | 977 | 975 | 015 | 017 | 820 | 093 | 025 | 583 | 580 | 676 | 572 | 569 | 12 | 18 |
| 42 | 48 | 431 | 435 | 432 | 442 | 446 | 975 | 979 | 969 | 966 | 964 | 025 | 028 | 031 | 034 | 036 | 569 | 565 | 561 | 558 | 554 | 8 | 17 |
| 43 | 02 | 446 | 450 | 453 | 457 | 461 | 964 | 961 | 958 | 950 | 953 | 036 | 039 | 042 | 044 | 047 | 554 | 550 | 547 | 543 | 539 | 4 | 16 |
| 44 | 06 | 461 | 464 | 468 | 472 | 475 | 953 | 950 | 947 | 945 | 942 | 047 | 050 | 053 | 055 | 058 | 039 | 536 | 532 | 528 | 595 | 17. 0 | 15 |
| 45 | 43. 0 | 9.81 475 | 479 | 483 | 486 | 490 | 9.87 942 | 939 | 937 | 934 | 931 | 0.12 058 | 061 | 063 | 066 | 069 | 0.18 625 | 521 | 517 | 514 | 510 | 56 | 14 |
| 46 | 4 | 490 | 494 | 497 | 501 | 505 | 931 | 928 | 926 | 923 | 990 | 069 | 072 | 074 | 077 | 080 | 510 | 506 | 503 | 499 | 495 | 62 | 13 |
| 47 | 8 | 005 | 508 | 512 | 516 | 519 | 920 | 917 | 915 | 912 | 909 | 080 | 083 | 085 | 088 | 091 | 495 | 492 | 488 | 484 | 481 | 48 | 12 |
| 48 | 12 | 519 | 523 | 527 | 530 | 534 | 909 | 907 | 904 | 901 | 898 | 891 | 093 | 896 | 099 | 102 | 481 | 477 | 473 | 470 | 466 | 44 | 11 |
| 49 | 16 | 634 | 538 | 541 | 545 | 549 | 898 | 896 | 893 | 890 | 887 | 102 | 104 | 187 | 110 | 113 | 466 | 462 | 469 | 455 | 451 | 16. 40 | 10 |
| 60 | 43. 20 | 9.81 649 | 552 | 556 | 560 | 563 | 9.87 887 | 885 | 882 | 879 | 877 | 0.12 113 | 115 | 118 | 121 | 123 | 0.18 451 | 448 | 444 | 441 | 437 | 36 | 9 |
| 51 | 24 | 663 | 567 | 570 | 574 | 578 | 877 | 874 | 871 | 868 | 866 | 123 | 126 | 129 | 132 | 134 | 437 | 433 | 430 | 426 | 422 | 32 | 8 |
| 52 | 28 | 878 | 681 | 585 | 589 | 592 | 866 | 863 | 860 | 857 | 855 | 134 | 137 | 140 | 143 | 145 | 422 | 419 | 415 | 411 | 408 | 28 | 7 |
| 53 | 32 | 592 | 596 | 600 | 603 | 607 | 855 | 852 | 849 | 847 | 844 | 145 | 148 | 151 | 163 | 156 | 488 | 404 | 400 | 397 | 393 | 24 | 6 |
| 64 | 36 | 607 | 611 | 614 | 610 | 622 | 844 | 841 | 838 | 836 | 833 | 156 | 159 | 162 | 164 | 107 | 393 | 389 | 386 | 382 | 378 | 16. 20 | 5 |
| 55 | 43. 40 | 9.81 622 | 625 | 829 | 632 | 636 | 9.87 833 | 830 | 827 | 825 | 829 | 0.12 167 | 170 | 173 | 175 | 178 | 0.18 370 | 375 | 371 | 368 | 364 | 16 | 4 |
| 56 | 44 | 636 | 640 | 643 | 647 | 651 | 822 | 819 | 816 | 814 | 811 | 178 | 181 | 184 | 186 | 182 | 364 | 360 | 357 | 353 | 342 | 12 | 3 |
| 57 | 48 | 651 | 654 | 668 | 662 | 665 | 811 | 808 | 805 | 803 | 800 | 189 | 192 | 195 | 197 | 200 | 349 | 346 | 342 | 338 | 335 | 8 | 2 |
| 58 | 52 | 665 | 669 | 672 | 676 | 680 | 800 | 797 | 794 | 799 | 789 | 200 | 203 | 206 | 208 | 211 | 335 | 331 | 398 | 324 | 320 | 4 | 1 |
| 59 | 60 | 880 | 683 | 687 | 691 | 694 | 782 | 786 | 783 | 781 | 778 | 211 | 214 | 217 | 219 | 222 | 320 | 317 | 313 | 309 | 300 | 16. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 46″ | 2° 38″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 139° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 49° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 40° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 130° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 9° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 9° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 40. 0 | 9.06 810 | 810 | 828 | 836 | 845 | 9.25 190 | 183 | 176 | 162 | 163 | 9.94 697 | 596 | 505 | 524 | 593 | 9.91 456 | 457 | 458 | 460 | 461 | 66 | 59 |
| 1 | 4 | 845 | 854 | 862 | 871 | 880 | 153 | 156 | 149 | 142 | 135 | 693 | 591 | 590 | 589 | 588 | 461 | 463 | 464 | 466 | 467 | 62 | 68 |
| 2 | 8 | 880 | 888 | 897 | 906 | 914 | 135 | 129 | 122 | 115 | 108 | 588 | 587 | 586 | 585 | 583 | 467 | 469 | 470 | 471 | 473 | 48 | 57 |
| 3 | 12 | 914 | 923 | 932 | 940 | 949 | 108 | 102 | 095 | 088 | 081 | 683 | 582 | 581 | 680 | 579 | 473 | 474 | 476 | 477 | 479 | 44 | 66 |
| 4 | 16 | 949 | 958 | 966 | 975 | 984 | 081 | 074 | 058 | 061 | 054 | 679 | 578 | 576 | 575 | 574 | 479 | 480 | 482 | 483 | 485 | 12. 40 | 56 |
| 5 | 40. 20 | * 984 | 992 | 001 | 010 | 018 | 9.25 954 | 047 | 040 | 034 | 027 | 9.24 574 | 573 | 572 | 671 | 570 | 9.91 485 | 486 | 487 | 489 | 490 | 36 | 61 |
| 6 | 24 | 9.07 018 | 027 | 036 | 044 | 053 | 027 | 020 | 013 | 007 | 000 | 570 | 558 | 567 | 566 | 565 | 420 | 492 | 493 | 495 | 496 | 32 | 63 |
| 7 | 28 | 053 | 062 | 070 | 079 | 087 | * 000 | 993 | 986 | 979 | 973 | 565 | 564 | 563 | 561 | 560 | 496 | 498 | 499 | 501 | 502 | 28 | 62 |
| 8 | 32 | 087 | 096 | 105 | 113 | 122 | 9.24 973 | 965 | 959 | 952 | 945 | 560 | 559 | 558 | 557 | 556 | 602 | 504 | 505 | 507 | 508 | 24 | 61 |
| 9 | 36 | 122 | 131 | 139 | 148 | 157 | 945 | 939 | 932 | 925 | 918 | 556 | 555 | 553 | 552 | 551 | 608 | 510 | 511 | 512 | 514 | 19. 20 | 50 |
| 10 | 40. 40 | 9.07 157 | 165 | 174 | 183 | 191 | 9.24 918 | 911 | 905 | 998 | 891 | 9.94 551 | 550 | 549 | 548 | 546 | 9.21 614 | 615 | 517 | 518 | 520 | 16 | 49 |
| 11 | 44 | 191 | 200 | 208 | 217 | 226 | 891 | 884 | 877 | 971 | 864 | 646 | 545 | 544 | 543 | 542 | 520 | 521 | 523 | 624 | 525 | 12 | 48 |
| 12 | 48 | 226 | 234 | 243 | 252 | 260 | 864 | 857 | 850 | 843 | 837 | 642 | 541 | 540 | 538 | 537 | 526 | 527 | 629 | 630 | 532 | 8 | 47 |
| 13 | 62 | 250 | 269 | 277 | 286 | 295 | 037 | 830 | 823 | 816 | 809 | 537 | 535 | 535 | 534 | 533 | 632 | 533 | 634 | 636 | 537 | 4 | 46 |
| 14 | 56 | 295 | 303 | 312 | 321 | 329 | 809 | 803 | 796 | 789 | 782 | 633 | 531 | 530 | 529 | 528 | 637 | 539 | 540 | 542 | 543 | 19. 9 | 45 |
| 15 | 41. 0 | 9.07 329 | 338 | 346 | 355 | 364 | 9.24 782 | 775 | 768 | 762 | 765 | 9.94 528 | 527 | 526 | 524 | 523 | 9.91 643 | 545 | 546 | 648 | 549 | 66 | 44 |
| 16 | 4 | 364 | 372 | 381 | 390 | 398 | 755 | 748 | 741 | 734 | 728 | 523 | 522 | 521 | 520 | 519 | 649 | 651 | 552 | 553 | 555 | 62 | 43 |
| 17 | 8 | 398 | 407 | 416 | 424 | 433 | 728 | 721 | 714 | 707 | 700 | 519 | 518 | 516 | 515 | 514 | 655 | 556 | 558 | 659 | 561 | 48 | 42 |
| 19 | 12 | 433 | 411 | 450 | 458 | 467 | 700 | 694 | 687 | 680 | 673 | 514 | 513 | 512 | 511 | 509 | 561 | 562 | 664 | 565 | 567 | 44 | 41 |
| 19 | 16 | 467 | 476 | 484 | 493 | 501 | 673 | 666 | 659 | 653 | 646 | 509 | 508 | 507 | 506 | 505 | 567 | 568 | 570 | 571 | 573 | 18. 40 | 40 |
| 20 | 41. 20 | 9.07 501 | 510 | 519 | 527 | 536 | 9.24 646 | 639 | 632 | 625 | 618 | 9.94 505 | 504 | 502 | 501 | 500 | 9.91 573 | 574 | 575 | 577 | 578 | 36 | 39 |
| 21 | 24 | 536 | 544 | 553 | 562 | 570 | 618 | 612 | 505 | 598 | 591 | 500 | 499 | 498 | 497 | 425 | 578 | 580 | 581 | 583 | 584 | 32 | 38 |
| 22 | 28 | 570 | 579 | 587 | 696 | 605 | 691 | 584 | 577 | 571 | 564 | 495 | 494 | 493 | 492 | 491 | 584 | 586 | 587 | 589 | 590 | 28 | 37 |
| 23 | 32 | 605 | 613 | 522 | 530 | 639 | 564 | 557 | 550 | 543 | 536 | 491 | 490 | 489 | 487 | 485 | 500 | 591 | 593 | 524 | 596 | 24 | 36 |
| 24 | 36 | 639 | 647 | 656 | 665 | 673 | 536 | 530 | 523 | 516 | 509 | 486 | 485 | 484 | 483 | 482 | 526 | 597 | 599 | 609 | 602 | 18. 20 | 35 |
| 25 | 41. 40 | 9.07 673 | 582 | 590 | 599 | 798 | 9.24 509 | 502 | 495 | 489 | 482 | 9.94 482 | 480 | 479 | 478 | 477 | 9.91 602 | 603 | 605 | 606 | 508 | 16 | 34 |
| 26 | 44 | 708 | 716 | 725 | 733 | 742 | 482 | 475 | 468 | 461 | 454 | 477 | 476 | 475 | 473 | 472 | 608 | 609 | 610 | 612 | 613 | 12 | 33 |
| 27 | 48 | 742 | 750 | 759 | 768 | 776 | 454 | 448 | 441 | 434 | 427 | 472 | 471 | 470 | 469 | 468 | 613 | 616 | 616 | 618 | 619 | 8 | 32 |
| 28 | 52 | 776 | 785 | 793 | 802 | 810 | 427 | 420 | 413 | 406 | 400 | 468 | 466 | 465 | 464 | 463 | 619 | 621 | 622 | 624 | 525 | 4 | 31 |
| 29 | 56 | 810 | 819 | 827 | 936 | 845 | 400 | 393 | 386 | 379 | 372 | 463 | 462 | 461 | 459 | 458 | 625 | 627 | 628 | 629 | 631 | 18. 0 | 39 |
| 30 | 42. 0 | 9.07 845 | 853 | 862 | 870 | 879 | 9.24 372 | 365 | 359 | 352 | 345 | 9.94 458 | 457 | 456 | 455 | 451 | 9.91 631 | 632 | 634 | 635 | 537 | 56 | 29 |
| 31 | 4 | 870 | 887 | 896 | 904 | 913 | 345 | 338 | 331 | 324 | 317 | 454 | 452 | 451 | 450 | 449 | 637 | 638 | 640 | 641 | 643 | 52 | 28 |
| 32 | 8 | 213 | 922 | 930 | 939 | 947 | 317 | 311 | 304 | 297 | 290 | 449 | 448 | 447 | 415 | 444 | 643 | 644 | 645 | 647 | 648 | 48 | 27 |
| 33 | 12 | 947 | 956 | 964 | 973 | 981 | 290 | 283 | 276 | 269 | 263 | 444 | 413 | 442 | 441 | 440 | 648 | 650 | 651 | 653 | 654 | 44 | 26 |
| 34 | 16 | * 981 | 990 | 999 | 007 | 016 | 263 | 256 | 249 | 242 | 235 | 440 | 438 | 437 | 436 | 435 | 654 | 656 | 657 | 659 | 660 | 17. 40 | 25 |
| 35 | 42. 20 | 9.08 016 | 024 | 033 | 041 | 050 | 9.24 236 | 228 | 221 | 214 | 208 | 9.94 435 | 434 | 433 | 431 | 430 | 9.91 660 | 661 | 663 | 664 | 666 | 36 | 24 |
| 36 | 24 | 050 | 058 | 067 | 075 | 084 | 208 | 201 | 194 | 187 | 180 | 430 | 429 | 428 | 427 | 426 | 666 | 667 | 659 | 670 | 672 | 32 | 23 |
| 37 | 28 | 984 | 092 | 101 | 110 | 118 | 180 | 173 | 166 | 160 | 153 | 426 | 424 | 423 | 422 | 421 | 672 | 673 | 674 | 676 | 677 | 28 | 22 |
| 38 | 32 | 118 | 127 | 135 | 144 | 152 | 153 | 146 | 139 | 132 | 125 | 421 | 420 | 419 | 417 | 416 | 677 | 679 | 680 | 682 | 683 | 24 | 21 |
| 39 | 36 | 152 | 161 | 169 | 178 | 186 | 125 | 118 | 111 | 195 | 098 | 416 | 415 | 414 | 413 | 412 | 683 | 685 | 686 | 688 | 689 | 17. 20 | 20 |
| 40 | 42. 40 | 9.08 186 | 195 | 203 | 212 | 220 | 9.24 098 | 091 | 081 | 077 | 070 | 9.94 412 | 410 | 409 | 408 | 407 | 9.91 689 | 690 | 692 | 693 | 695 | 16 | 19 |
| 41 | 44 | 220 | 229 | 237 | 246 | 254 | 070 | 063 | 056 | 050 | 043 | 407 | 406 | 405 | 403 | 402 | 695 | 696 | 698 | 699 | 701 | 12 | 18 |
| 42 | 48 | 254 | 263 | 271 | 280 | 288 | 043 | 036 | 029 | 022 | 015 | 402 | 401 | 400 | 399 | 398 | 701 | 702 | 703 | 705 | 706 | 8 | 17 |
| 43 | 52 | 288 | 297 | 305 | 314 | 323 | * 015 | 008 | 001 | 994 | 988 | 398 | 396 | 395 | 394 | 393 | 706 | 708 | 709 | 711 | 712 | 4 | 16 |
| 44 | 66 | 323 | 331 | 340 | 348 | 367 | 9.23 988 | 981 | 974 | 967 | 960 | 393 | 392 | 390 | 399 | 388 | 712 | 714 | 715 | 717 | 718 | 17. 0 | 15 |
| 45 | 43. 0 | 9.08 357 | 365 | 374 | 382 | 391 | 9.23 960 | 953 | 946 | 939 | 932 | 9.94 388 | 387 | 386 | 385 | 383 | 9.91 718 | 719 | 721 | 722 | 724 | 56 | 14 |
| 46 | 4 | 391 | 399 | 408 | 416 | 425 | 932 | 926 | 919 | 912 | 905 | 383 | 382 | 381 | 380 | 379 | 724 | 725 | 727 | 728 | 730 | 52 | 13 |
| 47 | 8 | 425 | 433 | 442 | 450 | 459 | 905 | 898 | 891 | 884 | 877 | 379 | 378 | 376 | 375 | 374 | 730 | 731 | 732 | 734 | 735 | 48 | 12 |
| 49 | 12 | 459 | 467 | 475 | 484 | 492 | 877 | 870 | 863 | 857 | 850 | 974 | 373 | 372 | 371 | 369 | 736 | 737 | 738 | 740 | 741 | 44 | 11 |
| 49 | 16 | 492 | 591 | 609 | 518 | 526 | 850 | 843 | 836 | 829 | 822 | 369 | 368 | 367 | 366 | 365 | 741 | 743 | 744 | 745 | 747 | 16. 40 | 10 |
| 50 | 43. 20 | 9.08 526 | 535 | 543 | 552 | 560 | 9.23 822 | 815 | 808 | 801 | 794 | 9.94 365 | 364 | 362 | 361 | 360 | 9.91 747 | 748 | 750 | 751 | 753 | 36 | 9 |
| 51 | 24 | 560 | 569 | 577 | 586 | 594 | 794 | 788 | 781 | 774 | 767 | 360 | 359 | 368 | 356 | 355 | 753 | 754 | 756 | 757 | 758 | 32 | 8 |
| 52 | 28 | 594 | 603 | 611 | 620 | 628 | 767 | 760 | 753 | 746 | 739 | 355 | 354 | 363 | 352 | 361 | 759 | 750 | 761 | 763 | 764 | 28 | 7 |
| 53 | 32 | 628 | 637 | 645 | 654 | 662 | 739 | 732 | 725 | 718 | 712 | 351 | 349 | 348 | 347 | 346 | 764 | 766 | 767 | 769 | 770 | 24 | 6 |
| 54 | 36 | 662 | 671 | 679 | 687 | 696 | 712 | 705 | 698 | 621 | 684 | 346 | 345 | 343 | 342 | 341 | 770 | 771 | 773 | 774 | 776 | 16. 20 | 5 |
| 55 | 43. 40 | 9.08 696 | 704 | 713 | 721 | 730 | 9.23 684 | 677 | 670 | 663 | 656 | 9.94 341 | 340 | 330 | 338 | 336 | 9.91 776 | 777 | 779 | 780 | 782 | 16 | 4 |
| 56 | 44 | 730 | 738 | 747 | 755 | 764 | 656 | 649 | 642 | 635 | 628 | 336 | 335 | 334 | 333 | 332 | 792 | 783 | 784 | 786 | 787 | 12 | 3 |
| 57 | 48 | 764 | 772 | 781 | 789 | 797 | 628 | 622 | 615 | 608 | 601 | 332 | 330 | 329 | 328 | 327 | 787 | 789 | 790 | 722 | 793 | 8 | 9 |
| 59 | 52 | 797 | 806 | 814 | 823 | 831 | 601 | 594 | 587 | 580 | 573 | 327 | 326 | 325 | 323 | 322 | 793 | 794 | 796 | 797 | 792 | 4 | 1 |
| 59 | 56 | 831 | 840 | 848 | 857 | 865 | 673 | 566 | 559 | 552 | 545 | 322 | 321 | 320 | 319 | 318 | 799 | 800 | 802 | 803 | 805 | 16. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30′ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 0h | 139° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 49° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 41° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 131° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 38″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 43″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 8″ 8° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 44. 8 | 9. 81 694 | 696 | 782 | 785 | 769 | 2. 87 778 | 778 | 772 | 770 | 787 | 8. 12 222 | 225 | 228 | 238 | 233 | 6. 18 306 | 302 | 298 | 295 | 291 | 88 | 59 |
| 4 | 4 | 709 | 712 | 716 | 720 | 723 | 767 | 764 | 762 | 759 | 756 | 233 | 236 | 238 | 241 | 244 | 291 | 268 | 284 | 280 | 277 | 52 | 58 |
| 2 | 8 | 723 | 727 | 731 | 734 | 738 | 756 | 753 | 751 | 748 | 745 | 241 | 247 | 249 | 252 | 255 | 277 | 273 | 269 | 266 | 262 | 48 | 87 |
| 3 | 12 | 738 | 741 | 745 | 749 | 752 | 745 | 742 | 740 | 737 | 734 | 255 | 258 | 268 | 263 | 286 | 262 | 259 | 253 | 251 | 248 | 44 | 58 |
| 4 | 16 | 752 | 756 | 768 | 763 | 767 | 734 | 731 | 722 | 728 | 723 | 266 | 269 | 271 | 274 | 277 | 248 | 244 | 240 | 237 | 233 | 15. 40 | 55 |
| 5 | 44. 20 | 2. 81 767 | 770 | 774 | 778 | 781 | 9. 87 723 | 720 | 717 | 715 | 712 | 8. 12 277 | 280 | 283 | 285 | 288 | 0. 18 233 | 230 | 226 | 222 | 219 | 38 | 84 |
| 6 | 24 | 781 | 785 | 789 | 722 | 796 | 712 | 789 | 708 | 784 | 781 | 288 | 291 | 294 | 296 | 229 | 219 | 215 | 211 | 208 | 204 | 32 | 53 |
| 7 | 28 | 798 | 799 | 883 | 887 | 810 | 701 | 628 | 895 | 593 | 820 | 299 | 302 | 305 | 307 | 310 | 204 | 201 | 197 | 193 | 198 | 28 | 82 |
| 8 | 32 | 818 | 814 | 818 | 821 | 825 | 690 | 687 | 884 | 682 | 679 | 310 | 313 | 316 | 318 | 321 | 190 | 186 | 182 | 179 | 175 | 24 | 01 |
| 2 | 36 | 825 | 828 | 832 | 835 | 839 | 879 | 578 | 673 | 671 | 688 | 321 | 324 | 327 | 329 | 332 | 175 | 172 | 168 | 164 | 181 | 15. 20 | 50 |
| 18 | 41. 40 | 9. 81 839 | 843 | 846 | 858 | 854 | 9. 87 868 | 865 | 862 | 560 | 657 | 8. 12 332 | 335 | 338 | 340 | 343 | 0. 18 161 | 157 | 154 | 150 | 146 | 16 | 49 |
| 44 | 44 | 851 | 857 | 661 | 864 | 868 | 657 | 654 | 851 | 849 | 646 | 343 | 345 | 349 | 351 | 354 | 146 | 143 | 139 | 136 | 132 | 12 | 48 |
| 12 | 48 | 868 | 872 | 875 | 872 | 883 | 846 | 643 | 640 | 837 | 835 | 354 | 357 | 380 | 363 | 365 | 132 | 128 | 125 | 121 | 118 | 8 | 47 |
| 13 | 82 | 883 | 886 | 828 | 893 | 897 | 635 | 632 | 829 | 826 | 624 | 365 | 368 | 371 | 374 | 376 | 118 | 114 | 118 | 187 | 103 | 4 | 46 |
| 44 | 56 | 897 | 281 | 984 | 908 | 911 | 824 | 821 | 516 | 615 | 812 | 376 | 372 | 382 | 385 | 388 | 183 | 099 | 826 | 092 | 089 | 15. 0 | 45 |
| 15 | 45. 0 | 9. 81 911 | 913 | 919 | 922 | 925 | 2. 87 812 | 618 | 607 | 804 | 681 | 8. 12 388 | 398 | 393 | 396 | 399 | 8. 18 089 | 085 | 081 | 078 | 074 | 56 | 41 |
| 48 | 4 | 226 | 929 | 933 | 937 | 948 | 861 | 592 | 528 | 593 | 590 | 399 | 181 | 404 | 407 | 410 | 074 | 071 | 067 | 863 | 060 | 52 | 43 |
| 47 | 6 | 940 | 244 | 947 | 951 | 955 | 820 | 588 | 585 | 582 | 579 | 410 | 412 | 415 | 418 | 421 | 860 | 056 | 053 | 049 | 046 | 48 | 42 |
| 18 | 12 | 255 | 958 | 982 | 985 | 969 | 879 | 576 | 874 | 571 | 588 | 421 | 424 | 428 | 429 | 432 | 846 | 042 | 038 | 035 | 031 | 44 | 41 |
| 49 | 16 | 969 | 972 | 978 | 980 | 983 | 868 | 565 | 583 | 580 | 557 | 432 | 435 | 437 | 440 | 443 | 631 | 028 | 824 | 020 | 017 | 14. 40 | 48 |
| 26 | 45. 20 | 2. 81 283 | 987 | 990 | 294 | 998 | 2. 87 857 | 554 | 552 | 549 | 546 | 8. 12 443 | 446 | 448 | 451 | 454 | 8. 18 017 | 013 | 010 | 006 | 002 | 36 | 39 |
| 21 | 21 | * 298 | 601 | 005 | 086 | 812 | 846 | 543 | 840 | 538 | 535 | 454 | 457 | 460 | 462 | 465 | * 802 | 999 | 995 | 992 | 288 | 32 | 38 |
| 22 | 28 | 2. 82 012 | 016 | 019 | 023 | 826 | 835 | 532 | 829 | 520 | 524 | 465 | 488 | 471 | 474 | 476 | 8. 17 988 | 984 | 981 | 277 | 974 | 28 | 37 |
| 23 | 32 | 626 | 030 | 033 | 037 | 841 | 824 | 521 | 518 | 515 | 513 | 476 | 479 | 482 | 485 | 487 | 974 | 970 | 967 | 963 | 252 | 24 | 38 |
| 24 | 35 | 641 | 044 | 048 | 851 | 855 | 813 | 518 | 587 | 504 | 581 | 487 | 490 | 493 | 496 | 499 | 952 | 956 | 952 | 949 | 245 | 14. 20 | 35 |
| 25 | 45. 40 | 9. 82 055 | 059 | 062 | 088 | 069 | 9. 87 501 | 499 | 498 | 493 | 490 | 8. 12 499 | 501 | 504 | 507 | 510 | 6. 17 945 | 941 | 938 | 934 | 931 | 16 | 34 |
| 26 | 44 | 869 | 073 | 076 | 880 | 084 | 428 | 487 | 485 | 482 | 479 | 810 | 513 | 515 | 518 | 521 | 931 | 927 | 924 | 920 | 918 | 12 | 33 |
| 27 | 48 | 084 | 087 | 091 | 094 | 028 | 479 | 476 | 474 | 471 | 468 | 521 | 524 | 526 | 529 | 532 | 916 | 913 | 909 | 986 | 202 | 6 | 32 |
| 26 | 52 | 098 | 181 | 105 | 109 | 112 | 468 | 465 | 462 | 460 | 437 | 832 | 535 | 538 | 540 | 543 | 982 | 899 | 895 | 891 | 888 | 4 | 31 |
| 22 | 86 | 112 | 116 | 119 | 123 | 125 | 457 | 454 | 451 | 448 | 446 | 843 | 546 | 549 | 552 | 354 | 888 | 884 | 881 | 877 | 874 | 14. 8 | 30 |
| 38 | 46. 0 | 9. 82 126 | 130 | 134 | 137 | 141 | 9. 87 446 | 443 | 448 | 437 | 431 | 8. 12 554 | 557 | 560 | 563 | 366 | 6. 17 874 | 878 | 866 | 863 | 852 | 56 | 29 |
| 31 | 4 | 441 | 144 | 148 | 151 | 155 | 434 | 432 | 429 | 426 | 423 | 566 | 568 | 571 | 874 | 577 | 859 | 856 | 652 | 849 | 845 | 52 | 28 |
| 32 | 6 | 155 | 159 | 162 | 166 | 169 | 423 | 420 | 418 | 415 | 412 | 577 | 580 | 582 | 585 | 588 | 845 | 841 | 838 | 834 | 831 | 48 | 27 |
| 33 | 12 | 469 | 173 | 178 | 180 | 184 | 412 | 109 | 406 | 484 | 481 | 588 | 591 | 594 | 596 | 599 | 831 | 827 | 824 | 820 | 816 | 44 | 26 |
| 34 | 16 | 484 | 187 | 191 | 124 | 198 | 401 | 398 | 395 | 392 | 398 | 599 | 602 | 605 | 608 | 618 | 816 | 813 | 802 | 806 | 882 | 13. 40 | 25 |
| 35 | 46. 20 | 9. 82 198 | 201 | 285 | 208 | 212 | 2. 67 320 | 387 | 384 | 381 | 378 | 8. 12 610 | 613 | 616 | 619 | 622 | 8. 17 802 | 799 | 795 | 792 | 788 | 36 | 24 |
| 36 | 24 | 212 | 216 | 219 | 223 | 226 | 378 | 378 | 373 | 370 | 367 | 622 | 624 | 627 | 630 | 633 | 788 | 784 | 781 | 777 | 774 | 32 | 23 |
| 37 | 28 | 226 | 230 | 233 | 237 | 240 | 367 | 384 | 362 | 359 | 356 | 633 | 636 | 638 | 841 | 614 | 774 | 770 | 767 | 763 | 768 | 28 | 22 |
| 38 | 32 | 240 | 244 | 248 | 231 | 255 | 356 | 353 | 358 | 348 | 345 | 644 | 647 | 650 | 652 | 855 | 760 | 756 | 752 | 749 | 745 | 24 | 21 |
| 39 | 36 | 255 | 258 | 262 | 265 | 269 | 345 | 342 | 339 | 336 | 334 | 855 | 658 | 661 | 664 | 666 | 745 | 742 | 738 | 735 | 731 | 13. 20 | 20 |
| 40 | 48. 40 | 9. 62 269 | 272 | 276 | 279 | 283 | 2. 87 334 | 331 | 328 | 325 | 322 | 8. 42 666 | 669 | 672 | 675 | 678 | 8. 17 731 | 728 | 724 | 721 | 717 | 16 | 19 |
| 41 | 44 | 283 | 287 | 290 | 294 | 297 | 322 | 312 | 317 | 314 | 311 | 878 | 681 | 683 | 686 | 689 | 717 | 713 | 710 | 706 | 703 | 12 | 18 |
| 42 | 48 | 297 | 301 | 304 | 308 | 311 | 311 | 308 | 305 | 303 | 300 | 689 | 692 | 695 | 697 | 760 | 703 | 699 | 696 | 692 | 689 | 8 | 17 |
| 43 | 82 | 311 | 313 | 318 | 322 | 326 | 380 | 297 | 294 | 291 | 288 | 700 | 703 | 786 | 709 | 712 | 689 | 685 | 681 | 678 | 674 | 4 | 16 |
| 44 | 56 | 326 | 329 | 333 | 336 | 340 | 288 | 286 | 283 | 280 | 277 | 712 | 714 | 717 | 726 | 723 | 874 | 671 | 667 | 664 | 660 | 13. 0 | 15 |
| 48 | 47. 0 | 9. 82 340 | 343 | 347 | 350 | 354 | 9. 87 277 | 274 | 271 | 269 | 266 | 8. 12 723 | 726 | 729 | 731 | 734 | 8. 17 660 | 657 | 653 | 650 | 646 | 66 | 14 |
| 46 | 4 | 354 | 357 | 361 | 364 | 368 | 266 | 263 | 260 | 257 | 255 | 734 | 737 | 740 | 743 | 745 | 646 | 643 | 639 | 636 | 632 | 82 | 13 |
| 47 | 6 | 368 | 372 | 375 | 379 | 382 | 253 | 252 | 249 | 246 | 243 | 745 | 748 | 751 | 754 | 757 | 632 | 628 | 625 | 621 | 618 | 48 | 12 |
| 48 | 12 | 382 | 386 | 389 | 393 | 396 | 243 | 241 | 238 | 235 | 232 | 757 | 759 | 762 | 765 | 768 | 618 | 614 | 611 | 607 | 804 | 44 | 11 |
| 42 | 16 | 396 | 400 | 463 | 407 | 410 | 232 | 229 | 226 | 224 | 221 | 768 | 771 | 774 | 778 | 779 | 604 | 660 | 597 | 593 | 590 | 12. 46 | 10 |
| 58 | 47. 20 | 9. 82 410 | 414 | 417 | 421 | 424 | 9. 87 221 | 218 | 210 | 212 | 209 | 8. 12 779 | 782 | 785 | 788 | 791 | 0. 17 590 | 586 | 583 | 579 | 576 | 36 | 9 |
| 51 | 24 | 424 | 428 | 432 | 435 | 439 | 209 | 287 | 204 | 201 | 198 | 791 | 793 | 796 | 799 | 802 | 576 | 572 | 566 | 565 | 561 | 32 | 8 |
| 52 | 28 | 439 | 442 | 446 | 449 | 453 | 498 | 195 | 192 | 190 | 187 | 602 | 805 | 808 | 810 | 813 | 561 | 558 | 534 | 551 | 547 | 28 | 7 |
| 53 | 32 | 453 | 456 | 468 | 463 | 467 | 487 | 184 | 181 | 178 | 175 | 813 | 816 | 819 | 822 | 825 | 847 | 544 | 540 | 537 | 533 | 24 | 6 |
| 54 | 36 | 467 | 470 | 474 | 477 | 481 | 475 | 173 | 170 | 167 | 161 | 825 | 827 | 830 | 833 | 636 | 533 | 530 | 526 | 523 | 519 | 12. 26 | 5 |
| 55 | 47. 48 | 9. 82 481 | 484 | 488 | 491 | 495 | 9. 87 154 | 161 | 158 | 156 | 153 | 8. 12 636 | 839 | 842 | 814 | 847 | 6. 17 519 | 516 | 512 | 509 | 505 | 16 | 4 |
| 56 | 44 | 425 | 498 | 502 | 505 | 509 | 453 | 150 | 147 | 144 | 141 | 847 | 850 | 853 | 856 | 859 | 505 | 502 | 498 | 495 | 491 | 12 | 3 |
| 87 | 48 | 889 | 512 | 516 | 519 | 523 | 141 | 139 | 136 | 133 | 130 | 859 | 861 | 864 | 867 | 670 | 491 | 486 | 484 | 481 | 477 | 6 | 2 |
| 88 | 52 | 823 | 527 | 530 | 534 | 537 | 438 | 127 | 124 | 122 | 119 | 870 | 873 | 876 | 878 | 881 | 477 | 473 | 470 | 466 | 163 | 4 | 4 |
| 52 | 56 | 837 | 541 | 544 | 548 | 551 | 419 | 116 | 113 | 110 | 187 | 881 | 884 | 887 | 898 | 893 | 463 | 459 | 456 | 452 | 449 | 12. 6 | 6 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 8″ | 4° 66″ | 3° 48″ | 2° 38″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 38″ | 1° 15″ | 0° 8″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Coseecante | | | | | 9h | 138° |
| | | Coseno | | | | | Seno | | | | | Coseecante | | | | | Secante | | | | | 3h | 48° |

Digitized by Google

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 41° | 9ʰ | Verso | | | | | | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 131° | 8ʰ | Coverso | | | | | | Subverso | | | | | | Subcoverso | | | | | | Verso | | | | | | | |
| ′ | m s | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 16″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 44. 0 | 9.08 | 065 | 873 | 882 | 896 | 899 | 9.93 | 545 | 538 | 632 | 525 | 518 | 9.94 | 318 | 316 | 315 | 314 | 313 | 9.91 | 805 | 806 | 807 | 809 | 810 | 56 | 59 |
| 1 | 4 | | 899 | 907 | 916 | 924 | 933 | | 618 | 511 | 504 | 497 | 490 | | 313 | 312 | 310 | 309 | 308 | | 810 | 812 | 813 | 815 | 810 | 52 | 58 |
| 2 | 8 | | 933 | 941 | 949 | 958 | 966 | | 490 | 483 | 476 | 469 | 462 | | 308 | 307 | 306 | 305 | 303 | | 816 | 818 | 819 | 820 | 822 | 48 | 07 |
| 3 | 12 | * | 966 | 975 | 983 | 992 | 000 | | 462 | 465 | 448 | 441 | 434 | | 303 | 302 | 301 | 300 | 299 | | 892 | 823 | 825 | 826 | 828 | 44 | 56 |
| 4 | 10 | 2.09 | 000 | 009 | 017 | 025 | 034 | | 434 | 427 | 421 | 414 | 407 | | 299 | 297 | 296 | 295 | 291 | | 828 | 822 | 830 | 832 | 833 | 15. 40 | 55 |
| 5 | 44. 20 | 9.02 | 034 | 042 | 051 | 059 | 067 | 9.23 | 407 | 400 | 323 | 386 | 379 | 9.94 | 224 | 223 | 292 | 290 | 289 | 9.91 | 833 | 835 | 836 | 838 | 839 | 36 | 54 |
| 0 | 24 | | 067 | 076 | 084 | 093 | 101 | | 379 | 379 | 365 | 358 | 351 | | 289 | 288 | 287 | 286 | 984 | | 839 | 841 | 842 | 843 | 845 | 32 | 53 |
| 7 | 28 | | 101 | 110 | 118 | 126 | 135 | | 351 | 344 | 337 | 330 | 323 | | 284 | 283 | 982 | 281 | 280 | | 845 | 846 | 848 | 849 | 851 | 28 | 62 |
| 0 | 32 | | 135 | 143 | 152 | 160 | 169 | | 323 | 310 | 309 | 302 | 295 | | 280 | 278 | 277 | 276 | 275 | | 851 | 852 | 853 | 855 | 856 | 24 | 51 |
| 2 | 36 | | 109 | 177 | 185 | 194 | 202 | | 295 | 289 | 282 | 276 | 268 | | 275 | 274 | 273 | 271 | 270 | | 856 | 858 | 859 | 861 | 862 | 15. 20 | 50 |
| 10 | 44. 40 | 9.09 | 202 | 211 | 219 | 227 | 236 | 9.23 | 268 | 261 | 254 | 247 | 240 | 9.94 | 270 | 269 | 268 | 267 | 965 | 9.91 | 862 | 863 | 865 | 866 | 868 | 16 | 49 |
| 11 | 44 | | 236 | 244 | 253 | 261 | 262 | | 240 | 233 | 226 | 219 | 212 | | 265 | 264 | 263 | 262 | 261 | | 868 | 869 | 871 | 872 | 874 | 12 | 48 |
| 12 | 40 | | 269 | 978 | 286 | 995 | 303 | | 212 | 905 | 128 | 191 | 184 | | 261 | 259 | 958 | 257 | 256 | | 874 | 875 | 876 | 878 | 879 | 8 | 47 |
| 13 | 92 | | 303 | 311 | 390 | 398 | 337 | | 184 | 177 | 170 | 163 | 156 | | 256 | 255 | 254 | 252 | 251 | | 872 | 881 | 882 | 884 | 885 | 4 | 46 |
| 14 | 56 | | 337 | 345 | 353 | 362 | 370 | | 156 | 149 | 142 | 135 | 128 | | 251 | 250 | 249 | 248 | 246 | | 885 | 886 | 888 | 889 | 821 | 15. 0 | 45 |
| 15 | 45. 0 | 9.09 | 370 | 372 | 387 | 325 | 404 | 9.23 | 128 | 121 | 114 | 107 | 100 | 9.94 | 246 | 245 | 244 | 943 | 242 | 9.91 | 891 | 892 | 894 | 895 | 896 | 56 | 44 |
| 16 | 4 | | 404 | 412 | 421 | 499 | 437 | | 100 | 094 | 007 | 080 | 073 | | 242 | 240 | 239 | 238 | 237 | | 896 | 898 | 892 | 901 | 902 | 32 | 43 |
| 17 | 8 | | 437 | 446 | 454 | 462 | 471 | | 073 | 066 | 059 | 052 | 045 | | 237 | 236 | 235 | 233 | 232 | | 902 | 904 | 905 | 906 | 908 | 48 | 42 |
| 18 | 12 | | 471 | 479 | 488 | 496 | 504 | | 045 | 038 | 031 | 024 | 017 | | 232 | 231 | 230 | 299 | 227 | | 908 | 909 | 911 | 912 | 914 | 41 | 41 |
| 12 | 16 | | 604 | 513 | 521 | 622 | 538 | * | 017 | 010 | 003 | 996 | 282 | | 227 | 296 | 225 | 224 | 223 | | 914 | 215 | 916 | 918 | 919 | 14. 40 | 40 |
| 20 | 45. 90 | 9.09 | 538 | 510 | 555 | 563 | 571 | 9.22 | 989 | 282 | 275 | 968 | 961 | 9.94 | 223 | 221 | 220 | 219 | 218 | 9.91 | 919 | 921 | 922 | 924 | 925 | 36 | 39 |
| 21 | 24 | | 071 | 580 | 588 | 596 | 605 | | 261 | 954 | 947 | 940 | 233 | | 218 | 217 | 215 | 914 | 213 | | 995 | 926 | 928 | 929 | 231 | 32 | 38 |
| 22 | 28 | | 605 | 613 | 622 | 630 | 638 | | 933 | 926 | 919 | 212 | 905 | | 213 | 212 | 211 | 910 | 208 | | 931 | 232 | 931 | 935 | 936 | 28 | 37 |
| 23 | 32 | | 638 | 647 | 055 | 663 | 679 | | 905 | 898 | 891 | 884 | 877 | | 208 | 207 | 206 | 905 | 204 | | 936 | 938 | 939 | 941 | 942 | 24 | 36 |
| 24 | 30 | | 672 | 680 | 088 | 697 | 705 | | 877 | 870 | 863 | 856 | 849 | | 204 | 202 | 201 | 200 | 192 | | 942 | 944 | 945 | 946 | 948 | 14. 20 | 35 |
| 25 | 45. 40 | 9.09 | 705 | 713 | 722 | 730 | 732 | 9.22 | 819 | 849 | 835 | 828 | 891 | 9.24 | 199 | 198 | 126 | 195 | 194 | 9.91 | 948 | 949 | 951 | 952 | 954 | 16 | 34 |
| 26 | 44 | | 739 | 747 | 755 | 764 | 779 | | 821 | 814 | 007 | 800 | 793 | | 194 | 123 | 192 | 120 | 189 | | 954 | 955 | 956 | 958 | 252 | 12 | 33 |
| 27 | 48 | | 772 | 780 | 789 | 797 | 805 | | 793 | 786 | 779 | 772 | 765 | | 189 | 188 | 187 | 186 | 184 | | 959 | 961 | 969 | 963 | 965 | 8 | 32 |
| 28 | 52 | | 005 | 814 | 822 | 830 | 839 | | 765 | 758 | 751 | 744 | 737 | | 184 | 183 | 102 | 181 | 180 | | 965 | 966 | 968 | 969 | 271 | 4 | 31 |
| 29 | 06 | | 832 | 847 | 855 | 864 | 879 | | 737 | 730 | 723 | 716 | 709 | | 180 | 178 | 177 | 176 | 175 | | 971 | 972 | 973 | 275 | 976 | 14. 0 | 30 |
| 30 | 46. 0 | 9.09 | 872 | 880 | 889 | 897 | 905 | 9.22 | 709 | 709 | 695 | 688 | 681 | 9.94 | 175 | 174 | 172 | 171 | 170 | 9.91 | 976 | 978 | 979 | 981 | 982 | 56 | 29 |
| 31 | 4 | | 905 | 914 | 922 | 930 | 939 | | 681 | 074 | 667 | 660 | 653 | | 170 | 169 | 168 | 166 | 165 | | 982 | 983 | 985 | 986 | 988 | 02 | 28 |
| 32 | 8 | | 939 | 247 | 955 | 964 | 972 | | 653 | 646 | 639 | 639 | 625 | | 165 | 164 | 163 | 162 | 161 | | 988 | 989 | 921 | 992 | 993 | 48 | 27 |
| 33 | 12 | * | 972 | 980 | 982 | 997 | 005 | | 695 | 618 | 611 | 604 | 527 | | 161 | 159 | 158 | 167 | 156 | | 923 | 995 | 996 | 998 | 999 | 44 | 26 |
| 34 | 10 | 9.10 | 005 | 014 | 022 | 030 | 039 | | 597 | 590 | 583 | 576 | 569 | | 156 | 155 | 153 | 152 | 151 | * | 999 | 000 | 002 | 003 | 005 | 13. 40 | 23 |
| 35 | 40. 20 | 9.10 | 039 | 047 | 056 | 064 | 072 | 9.22 | 069 | 669 | 655 | 547 | 540 | 9.94 | 151 | 150 | 149 | 147 | 146 | 9.99 | 005 | 006 | 008 | 009 | 010 | 36 | 24 |
| 36 | 24 | | 072 | 080 | 088 | 097 | 105 | | 540 | 533 | 526 | 519 | 512 | | 146 | 145 | 144 | 143 | 141 | | 010 | 012 | 013 | 016 | 016 | 39 | 23 |
| 37 | 28 | | 105 | 113 | 122 | 130 | 138 | | 512 | 505 | 498 | 491 | 484 | | 141 | 140 | 139 | 138 | 137 | | 016 | 017 | 019 | 020 | 022 | 28 | 22 |
| 38 | 32 | | 138 | 147 | 155 | 163 | 172 | | 484 | 477 | 470 | 463 | 456 | | 137 | 135 | 134 | 133 | 132 | | 022 | 023 | 025 | 096 | 027 | 24 | 21 |
| 39 | 36 | | 172 | 180 | 188 | 196 | 205 | | 456 | 449 | 442 | 435 | 428 | | 132 | 131 | 129 | 128 | 127 | | 027 | 029 | 030 | 039 | 033 | 13. 20 | 20 |
| 40 | 46. 40 | 9.10 | 205 | 213 | 221 | 930 | 238 | 9.22 | 428 | 421 | 414 | 407 | 400 | 9.94 | 197 | 126 | 195 | 123 | 122 | 9.92 | 033 | 035 | 036 | 037 | 039 | 16 | 19 |
| 41 | 44 | | 238 | 246 | 955 | 963 | 271 | | 400 | 393 | 386 | 379 | 372 | | 122 | 191 | 120 | 118 | 117 | | 039 | 040 | 042 | 043 | 044 | 12 | 18 |
| 42 | 48 | | 271 | 279 | 288 | 296 | 304 | | 372 | 365 | 358 | 350 | 343 | | 117 | 116 | 115 | 114 | 112 | | 044 | 046 | 047 | 049 | 050 | 8 | 17 |
| 43 | 02 | | 304 | 313 | 321 | 329 | 337 | | 343 | 336 | 329 | 322 | 315 | | 112 | 111 | 110 | 102 | 108 | | 050 | 052 | 053 | 054 | 056 | 4 | 16 |
| 44 | 00 | | 337 | 346 | 351 | 362 | 371 | | 315 | 308 | 301 | 294 | 287 | | 108 | 106 | 105 | 104 | 103 | | 056 | 057 | 052 | 060 | 061 | 13. 0 | 10 |
| 45 | 47. 0 | 9.10 | 371 | 379 | 387 | 395 | 404 | 9.22 | 287 | 280 | 273 | 266 | 252 | 9.94 | 103 | 102 | 100 | 029 | 098 | 9.92 | 061 | 063 | 064 | 066 | 067 | 56 | 14 |
| 40 | 4 | | 404 | 412 | 420 | 429 | 437 | | 259 | 252 | 245 | 238 | 931 | | 098 | 027 | 096 | 094 | 093 | | 067 | 068 | 070 | 071 | 673 | 52 | 13 |
| 47 | 8 | | 437 | 445 | 453 | 462 | 470 | | 231 | 224 | 216 | 209 | 902 | | 093 | 022 | 091 | 090 | 088 | | 073 | 074 | 076 | 077 | 078 | 48 | 12 |
| 48 | 12 | | 470 | 478 | 486 | 495 | 503 | | 202 | 195 | 188 | 181 | 174 | | 088 | 087 | 086 | 085 | 084 | | 078 | 080 | 081 | 083 | 084 | 44 | 11 |
| 49 | 16 | | 503 | 511 | 519 | 528 | 536 | | 174 | 167 | 160 | 153 | 146 | | 084 | 082 | 081 | 080 | 079 | | 084 | 085 | 087 | 088 | 090 | 12. 40 | 10 |
| 00 | 47. 20 | 9.10 | 536 | 544 | 553 | 561 | 569 | 9.22 | 146 | 139 | 132 | 125 | 118 | 9.94 | 079 | 078 | 076 | 075 | 074 | 9.92 | 090 | 091 | 092 | 094 | 095 | 36 | 9 |
| 01 | 24 | | 569 | 577 | 586 | 594 | 602 | | 118 | 111 | 103 | 096 | 089 | | 074 | 072 | 071 | 070 | 062 | | 095 | 097 | 098 | 100 | 101 | 32 | 8 |
| 09 | 28 | | 602 | 610 | 619 | 627 | 635 | | 089 | 082 | 075 | 068 | 061 | | 062 | 060 | 067 | 066 | 064 | | 101 | 109 | 104 | 105 | 107 | 28 | 7 |
| 03 | 39 | | 635 | 643 | 652 | 660 | 668 | | 061 | 064 | 047 | 040 | 033 | | 064 | 063 | 062 | 061 | 059 | | 107 | 108 | 109 | 111 | 112 | 24 | 6 |
| 54 | 36 | | 668 | 676 | 685 | 693 | 701 | | 033 | 026 | 019 | 011 | 004 | | 059 | 058 | 057 | 056 | 055 | | 112 | 114 | 115 | 116 | 118 | 12. 20 | 0 |
| 55 | 47. 40 | 9.10 | 701 | 709 | 718 | 796 | 734 | * | 004 | 927 | 990 | 983 | 976 | 9.94 | 055 | 053 | 052 | 051 | 050 | 9.92 | 118 | 119 | 121 | 129 | 194 | 16 | 4 |
| 06 | 44 | | 734 | 742 | 751 | 759 | 767 | 9.21 | 976 | 969 | 962 | 955 | 948 | | 050 | 049 | 047 | 046 | 045 | | 194 | 125 | 126 | 128 | 129 | 12 | 3 |
| 07 | 48 | | 767 | 775 | 784 | 792 | 800 | | 948 | 941 | 934 | 920 | 919 | | 045 | 044 | 042 | 041 | 040 | | 129 | 131 | 132 | 133 | 135 | 8 | 2 |
| 08 | 52 | | 800 | 808 | 816 | 825 | 833 | | 919 | 912 | 905 | 898 | 891 | | 040 | 039 | 038 | 036 | 035 | | 135 | 136 | 138 | 139 | 140 | 4 | 1 |
| 09 | 56 | | 033 | 841 | 849 | 858 | 866 | | 891 | 884 | 877 | 870 | 863 | | 035 | 034 | 033 | 031 | 030 | | 140 | 142 | 143 | 145 | 146 | 12. 0 | 0 |
| | | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 10″ | 0° 0″ | 4° 60″ | | 3° 45″ | 2° 30″ | 1° 13″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | 9ʰ | 138° |
| | | Coverso | | | | | | Verso | | | | | | Subcoverso | | | | | | Subverso | | | | | | 3ʰ | 48° |

TABLA XVI. Logaritmos Senos, Cosenos, Secantes y Cosecantes.

| 42° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 132° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 48. 0 | 9.82 551 | 555 | 558 | 562 | 565 | 9.87 107 | 105 | 102 | 099 | 096 | 0.12 893 | 895 | 898 | 901 | 904 | 0.17 449 | 445 | 442 | 438 | 435 | 56 | 58 |
| 1 | 4 | 565 | 569 | 572 | 576 | 579 | 096 | 093 | 090 | 087 | 085 | 904 | 907 | 910 | 913 | 915 | 435 | 431 | 428 | 424 | 421 | 52 | 58 |
| 2 | 8 | 579 | 583 | 586 | 590 | 593 | 085 | 082 | 079 | 076 | 073 | 815 | 918 | 921 | 994 | 997 | 421 | 417 | 414 | 410 | 407 | 48 | 57 |
| 3 | 12 | 593 | 527 | 600 | 604 | 607 | 873 | 070 | 067 | 065 | 062 | 927 | 230 | 933 | 935 | 938 | 407 | 403 | 400 | 396 | 393 | 44 | 56 |
| 4 | 16 | 607 | 611 | 614 | 618 | 691 | 062 | 059 | 056 | 053 | 050 | 938 | 941 | 944 | 947 | 950 | 393 | 389 | 386 | 382 | 379 | 11. 40 | 55 |
| 5 | 18. 20 | 9.82 621 | 625 | 628 | 632 | 635 | 9.87 050 | 048 | 045 | 042 | 039 | 0.12 950 | 952 | 955 | 958 | 961 | 0.17 379 | 375 | 372 | 368 | 365 | 36 | 54 |
| 6 | 24 | 635 | 639 | 642 | 646 | 649 | 039 | 036 | 033 | 030 | 028 | 961 | 964 | 967 | 970 | 972 | 365 | 361 | 358 | 354 | 351 | 32 | 53 |
| 7 | 28 | 649 | 653 | 656 | 660 | 663 | 028 | 025 | 022 | 019 | 016 | 972 | 975 | 978 | 981 | 984 | 351 | 347 | 344 | 340 | 337 | 28 | 52 |
| 8 | 32 | 663 | 667 | 670 | 674 | 677 | 016 | 013 | 010 | 008 | 005 | 984 | 987 | 990 | 992 | 995 | 337 | 333 | 330 | 326 | 323 | 24 | 51 |
| 9 | 36 | 677 | 681 | 684 | 688 | 691 | * 005 | 002 | 999 | 996 | 993 | * 895 | 998 | 001 | 004 | 007 | 323 | 319 | 316 | 313 | 309 | 11. 20 | 50 |
| 10 | 48. 40 | 9.82 691 | 694 | 698 | 701 | 705 | 9.88 993 | 990 | 988 | 985 | 982 | 0.13 007 | 010 | 019 | 015 | 018 | 0.17 302 | 306 | 302 | 299 | 995 | 16 | 48 |
| 11 | 44 | 705 | 708 | 712 | 715 | 719 | 982 | 979 | 976 | 973 | 970 | 818 | 021 | 024 | 027 | 030 | 295 | 292 | 288 | 285 | 281 | 12 | 48 |
| 12 | 48 | 719 | 792 | 726 | 729 | 733 | 970 | 968 | 965 | 962 | 959 | 830 | 039 | 035 | 038 | 041 | 281 | 278 | 274 | 271 | 267 | 8 | 47 |
| 13 | 52 | 733 | 736 | 740 | 743 | 747 | 959 | 956 | 953 | 950 | 947 | 041 | 044 | 047 | 050 | 053 | 267 | 264 | 260 | 257 | 953 | 4 | 46 |
| 14 | 56 | 747 | 750 | 754 | 757 | 761 | 247 | 945 | 949 | 939 | 936 | 053 | 055 | 058 | 061 | 064 | 253 | 250 | 246 | 243 | 239 | 11. 0 | 45 |
| 15 | 49. 8 | 8.82 761 | 764 | 768 | 771 | 775 | 8.86 836 | 933 | 930 | 927 | 924 | 0.13 064 | 067 | 070 | 073 | 076 | 0.17 939 | 936 | 232 | 299 | 925 | 56 | 44 |
| 16 | 4 | 775 | 778 | 781 | 785 | 788 | 994 | 922 | 919 | 916 | 913 | 076 | 078 | 081 | 084 | 087 | 225 | 992 | 219 | 215 | 212 | 52 | 43 |
| 17 | 8 | 788 | 792 | 795 | 799 | 802 | 813 | 910 | 907 | 904 | 902 | 087 | 090 | 093 | 096 | 098 | 212 | 208 | 205 | 201 | 198 | 48 | 42 |
| 18 | 12 | 802 | 806 | 809 | 813 | 816 | 802 | 899 | 896 | 893 | 890 | 898 | 101 | 104 | 107 | 110 | 198 | 194 | 191 | 187 | 184 | 44 | 41 |
| 19 | 16 | 816 | 890 | 823 | 827 | 830 | 890 | 887 | 884 | 881 | 879 | 110 | 113 | 116 | 119 | 121 | 184 | 180 | 177 | 173 | 170 | 10. 40 | 40 |
| 20 | 49. 20 | 9.82 830 | 834 | 837 | 840 | 844 | 9.86 879 | 876 | 873 | 870 | 867 | 0.13 191 | 124 | 127 | 130 | 133 | 0.17 170 | 166 | 163 | 160 | 156 | 36 | 39 |
| 21 | 24 | 044 | 817 | 851 | 854 | 858 | 067 | 864 | 861 | 858 | 855 | 133 | 136 | 139 | 142 | 145 | 156 | 153 | 149 | 146 | 142 | 32 | 38 |
| 22 | 28 | 858 | 861 | 865 | 868 | 872 | 855 | 853 | 850 | 847 | 844 | 145 | 147 | 150 | 153 | 156 | 142 | 139 | 135 | 132 | 128 | 23 | 37 |
| 23 | 32 | 872 | 875 | 879 | 889 | 885 | 044 | 841 | 838 | 835 | 832 | 156 | 159 | 162 | 185 | 168 | 128 | 125 | 121 | 118 | 115 | 24 | 36 |
| 21 | 36 | 885 | 889 | 892 | 826 | 899 | 832 | 830 | 827 | 821 | 821 | 168 | 170 | 173 | 176 | 179 | 115 | 111 | 108 | 104 | 101 | 10. 20 | 35 |
| 25 | 49. 40 | 9.82 899 | 903 | 906 | 910 | 913 | 9.86 821 | 018 | 815 | 812 | 809 | 0.13 179 | 182 | 185 | 188 | 191 | 0.17 101 | 097 | 094 | 090 | 087 | 16 | 34 |
| 96 | 44 | 913 | 917 | 920 | 923 | 927 | 809 | 806 | 804 | 801 | 798 | 191 | 194 | 196 | 199 | 202 | 087 | 083 | 080 | 077 | 073 | 12 | 33 |
| 27 | 48 | 927 | 830 | 934 | 937 | 941 | 798 | 795 | 792 | 789 | 786 | 202 | 205 | 208 | 211 | 214 | 073 | 070 | 066 | 063 | 059 | 8 | 32 |
| 28 | 52 | 941 | 944 | 948 | 951 | 955 | 786 | 783 | 780 | 778 | 775 | 214 | 217 | 220 | 222 | 225 | 059 | 056 | 052 | 049 | 045 | 4 | 31 |
| 29 | 56 | 955 | 958 | 961 | 965 | 968 | 775 | 772 | 769 | 766 | 763 | 225 | 228 | 231 | 234 | 237 | 045 | 042 | 039 | 035 | 032 | 10. 0 | 30 |
| 30 | 50. 0 | 9.82 968 | 972 | 975 | 979 | 982 | 9.06 763 | 760 | 757 | 754 | 752 | 0.13 237 | 240 | 943 | 246 | 248 | 0.17 032 | 028 | 025 | 021 | 018 | 56 | 29 |
| 31 | 4 | 982 | 986 | 989 | 999 | 996 | 752 | 749 | 746 | 743 | 740 | 948 | 251 | 254 | 257 | 960 | 018 | 014 | 011 | 008 | 001 | 52 | 28 |
| 32 | 8 | * 996 | 999 | 003 | 006 | 010 | 740 | 737 | 734 | 731 | 728 | 260 | 263 | 266 | 269 | 272 | * 004 | 001 | 997 | 994 | 990 | 48 | 27 |
| 33 | 12 | 8.83 010 | 013 | 017 | 020 | 093 | 728 | 795 | 723 | 720 | 717 | 272 | 275 | 277 | 280 | 283 | 0.16 990 | 987 | 983 | 980 | 977 | 44 | 96 |
| 34 | 16 | 023 | 027 | 030 | 034 | 037 | 717 | 714 | 711 | 708 | 705 | 283 | 286 | 289 | 992 | 295 | 977 | 973 | 970 | 966 | 963 | 9. 40 | 25 |
| 35 | 50. 20 | 9.83 037 | 041 | 044 | 047 | 051 | 8.86 705 | 702 | 699 | 696 | 694 | 8.13 295 | 298 | 301 | 304 | 306 | 0.16 963 | 959 | 956 | 953 | 949 | 36 | 24 |
| 36 | 24 | 051 | 054 | 058 | 061 | 065 | 694 | 691 | 688 | 685 | 682 | 306 | 309 | 312 | 315 | 318 | 949 | 946 | 942 | 939 | 935 | 32 | 23 |
| 37 | 28 | 065 | 068 | 079 | 075 | 078 | 682 | 679 | 676 | 673 | 670 | 318 | 391 | 324 | 327 | 330 | 935 | 932 | 928 | 925 | 992 | 28 | 92 |
| 38 | 32 | 078 | 082 | 005 | 089 | 099 | 870 | 667 | 664 | 662 | 659 | 330 | 333 | 336 | 338 | 341 | 922 | 918 | 915 | 911 | 908 | 24 | 21 |
| 39 | 36 | 092 | 096 | 099 | 102 | 106 | 659 | 656 | 653 | 650 | 647 | 341 | 344 | 347 | 350 | 353 | 908 | 904 | 901 | 898 | 894 | 9. 20 | 20 |
| 40 | 50. 40 | 9.83 106 | 109 | 113 | 116 | 120 | 9.86 647 | 644 | 641 | 638 | 835 | 8.13 353 | 356 | 359 | 362 | 365 | 8.16 894 | 891 | 887 | 884 | 880 | 16 | 19 |
| 41 | 44 | 120 | 123 | 126 | 130 | 133 | 635 | 632 | 630 | 627 | 624 | 365 | 368 | 370 | 373 | 376 | 080 | 877 | 874 | 870 | 867 | 19 | 18 |
| 42 | 48 | 133 | 137 | 140 | 143 | 147 | 824 | 621 | 610 | 615 | 612 | 376 | 379 | 382 | 385 | 388 | 867 | 863 | 860 | 857 | 853 | 8 | 17 |
| 43 | 52 | 147 | 150 | 154 | 157 | 161 | 812 | 609 | 606 | 603 | 600 | 388 | 391 | 394 | 397 | 400 | 853 | 850 | 846 | 843 | 839 | 4 | 16 |
| 44 | 56 | 161 | 164 | 167 | 171 | 174 | 800 | 597 | 595 | 599 | 589 | 400 | 403 | 405 | 408 | 411 | 839 | 836 | 833 | 829 | 826 | 9. 0 | 15 |
| 45 | 51. 0 | 8.83 174 | 178 | 181 | 184 | 188 | 8.86 589 | 586 | 583 | 580 | 577 | 0.13 411 | 414 | 417 | 420 | 423 | 8.16 826 | 822 | 812 | 816 | 812 | 56 | 14 |
| 46 | 4 | 108 | 191 | 195 | 198 | 202 | 577 | 574 | 571 | 568 | 565 | 423 | 496 | 429 | 432 | 435 | 812 | 809 | 805 | 802 | 798 | 52 | 13 |
| 47 | 8 | 202 | 205 | 908 | 212 | 215 | 565 | 562 | 559 | 557 | 554 | 435 | 438 | 441 | 443 | 446 | 798 | 795 | 792 | 788 | 785 | 48 | 12 |
| 48 | 12 | 215 | 919 | 222 | 225 | 299 | 554 | 551 | 548 | 545 | 542 | 445 | 449 | 452 | 455 | 458 | 785 | 781 | 778 | 775 | 771 | 44 | 11 |
| 49 | 16 | 229 | 232 | 236 | 239 | 242 | 542 | 539 | 536 | 533 | 530 | 458 | 461 | 464 | 467 | 470 | 771 | 768 | 764 | 761 | 758 | 8. 40 | 10 |
| 50 | 51. 20 | 9.83 242 | 246 | 249 | 953 | 256 | 8.86 530 | 527 | 524 | 521 | 518 | 8.13 470 | 473 | 476 | 479 | 482 | 8.16 758 | 754 | 751 | 747 | 744 | 36 | 9 |
| 51 | 24 | 256 | 259 | 283 | 266 | 270 | 518 | 516 | 513 | 510 | 507 | 482 | 484 | 487 | 490 | 493 | 744 | 741 | 737 | 734 | 730 | 32 | 8 |
| 52 | 98 | 270 | 273 | 277 | 280 | 283 | 507 | 504 | 501 | 498 | 495 | 493 | 496 | 499 | 502 | 505 | 730 | 727 | 723 | 720 | 717 | 28 | 7 |
| 53 | 39 | 283 | 287 | 290 | 294 | 297 | 495 | 499 | 489 | 486 | 483 | 805 | 500 | 511 | 514 | 517 | 717 | 713 | 718 | 706 | 703 | 24 | 6 |
| 54 | 36 | 297 | 300 | 304 | 307 | 311 | 483 | 480 | 477 | 475 | 479 | 617 | 590 | 523 | 525 | 528 | 703 | 700 | 696 | 693 | 690 | 8. 20 | 5 |
| 55 | 51. 40 | 8.83 311 | 314 | 317 | 321 | 324 | 9.86 472 | 469 | 466 | 463 | 460 | 0.13 590 | 531 | 534 | 537 | 540 | 8.18 690 | 686 | 683 | 679 | 675 | 16 | 4 |
| 56 | 44 | 824 | 327 | 331 | 334 | 338 | 460 | 457 | 454 | 451 | 448 | 540 | 543 | 546 | 549 | 552 | 676 | 673 | 669 | 686 | 662 | 12 | 3 |
| 57 | 48 | 338 | 341 | 344 | 348 | 351 | 448 | 145 | 449 | 439 | 436 | 552 | 555 | 558 | 561 | 561 | 662 | 658 | 656 | 659 | 649 | 8 | 2 |
| 58 | 52 | 351 | 355 | 358 | 361 | 365 | 436 | 433 | 430 | 427 | 425 | 564 | 567 | 570 | 573 | 575 | 649 | 645 | 642 | 639 | 635 | 4 | 1 |
| 59 | 56 | 865 | 368 | 372 | 375 | 378 | 425 | 422 | 412 | 416 | 413 | 575 | 578 | 581 | 584 | 587 | 635 | 632 | 620 | 625 | 622 | 8. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30′ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 137° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 47° |

## Tabla XVI. Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 42° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 132° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 46″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 6° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 48. 0 | 9.16 006 | 674 | 809 | 891 | 899 | 9. 21 663 | 856 | 840 | 641 | 634 | 9.94 030 | 029 | 626 | 027 | 025 | 9.92 146 | 147 | 149 | 150 | 152 | 56 | 59 |
| 1 | 4 | 099 | 907 | 915 | 923 | 932 | 834 | 827 | 820 | 813 | 806 | 025 | 024 | 023 | 022 | 091 | 152 | 153 | 154 | 156 | 157 | 52 | 58 |
| 2 | 8 | 932 | 940 | 948 | 956 | 964 | 806 | 799 | 792 | 785 | 777 | 021 | 019 | 018 | 017 | 016 | 157 | 159 | 160 | 161 | 163 | 48 | 57 |
| 3 | 12 | 964 | 973 | 981 | 969 | 997 | 777 | 770 | 763 | 756 | 749 | 616 | 015 | 013 | 019 | 011 | 163 | 164 | 166 | 167 | 169 | 44 | 56 |
| 4 | 16 | * 997 | 006 | 014 | 022 | 030 | 749 | 742 | 735 | 728 | 721 | 611 | 010 | 008 | 007 | 006 | 169 | 170 | 171 | 173 | 174 | 11.40 | 05 |
| 5 | 46. 20 | 9. 11 030 | 938 | 047 | 055 | 063 | 9. 21 791 | 714 | 706 | 699 | 692 | 9. 94 006 | 005 | 004 | 002 | 001 | 9. 92 174 | 176 | 177 | 176 | 100 | 36 | 54 |
| 0 | 24 | 063 | 071 | 079 | 088 | 026 | 692 | 685 | 676 | 671 | 664 | * 001 | 006 | 999 | 998 | 926 | 180 | 101 | 183 | 184 | 185 | 32 | 53 |
| 7 | 28 | 096 | 104 | 119 | 120 | 129 | 664 | 657 | 650 | 642 | 635 | 9. 93 996 | 995 | 994 | 993 | 991 | 185 | 187 | 188 | 190 | 191 | 28 | 52 |
| 8 | 32 | 129 | 137 | 145 | 153 | 161 | 635 | 628 | 621 | 614 | 607 | 991 | 990 | 989 | 988 | 987 | 191 | 192 | 194 | 195 | 197 | 24 | 51 |
| 9 | 36 | 161 | 170 | 178 | 106 | 124 | 607 | 600 | 593 | 585 | 578 | 967 | 985 | 904 | 983 | 982 | 197 | 198 | 129 | 201 | 202 | 11. 20 | 50 |
| 10 | 40. 40 | 9. 11 191 | 202 | 211 | 219 | 227 | 9. 91 578 | 571 | 564 | 557 | 550 | 9. 23 982 | 981 | 979 | 978 | 977 | 9. 92 902 | 204 | 905 | 906 | 908 | 16 | 49 |
| 11 | 44 | 227 | 235 | 243 | 952 | 260 | 550 | 543 | 536 | 528 | 521 | 977 | 976 | 974 | 973 | 972 | 208 | 209 | 211 | 912 | 213 | 12 | 46 |
| 12 | 48 | 260 | 268 | 276 | 284 | 292 | 521 | 514 | 507 | 500 | 493 | 972 | 971 | 969 | 968 | 967 | 213 | 215 | 216 | 210 | 219 | 8 | 47 |
| 13 | 59 | 292 | 301 | 309 | 317 | 325 | 493 | 486 | 479 | 471 | 464 | 967 | 966 | 964 | 963 | 962 | 219 | 220 | 222 | 223 | 225 | 4 | 46 |
| 14 | 56 | 325 | 333 | 349 | 350 | 358 | 464 | 457 | 450 | 443 | 436 | 962 | 961 | 960 | 959 | 957 | 225 | 226 | 927 | 229 | 230 | 11. 0 | 45 |
| 15 | 49. 0 | 9. 11 356 | 366 | 374 | 382 | 391 | 9. 21 436 | 429 | 429 | 414 | 407 | 9. 93 257 | 956 | 955 | 954 | 952 | 9. 92 230 | 932 | 233 | 234 | 236 | 66 | 44 |
| 16 | 4 | 391 | 399 | 407 | 415 | 423 | 407 | 400 | 393 | 386 | 379 | 952 | 951 | 950 | 949 | 918 | 236 | 937 | 939 | 240 | 941 | 52 | 43 |
| 17 | 8 | 423 | 431 | 440 | 448 | 456 | 379 | 372 | 364 | 357 | 350 | 948 | 946 | 945 | 944 | 943 | 241 | 243 | 244 | 246 | 947 | 46 | 42 |
| 10 | 12 | 456 | 464 | 472 | 480 | 489 | 350 | 343 | 336 | 329 | 322 | 943 | 911 | 946 | 939 | 938 | 247 | 248 | 250 | 251 | 252 | 44 | 41 |
| 19 | 16 | 489 | 497 | 505 | 513 | 521 | 329 | 314 | 307 | 300 | 293 | 938 | 937 | 935 | 934 | 933 | 252 | 254 | 255 | 257 | 258 | 10. 40 | 40 |
| 20 | 49. 20 | 9. 11 521 | 529 | 537 | 546 | 554 | 9. 21 293 | 286 | 272 | 271 | 964 | 9. 93 933 | 932 | 930 | 929 | 928 | 9. 92 958 | 259 | 261 | 962 | 964 | 36 | 39 |
| 21 | 24 | 554 | 562 | 570 | 570 | 586 | 264 | 257 | 950 | 243 | 236 | 928 | 927 | 926 | 994 | 923 | 264 | 265 | 266 | 268 | 269 | 32 | 38 |
| 22 | 20 | 586 | 595 | 603 | 611 | 619 | 236 | 229 | 221 | 214 | 207 | 923 | 922 | 921 | 919 | 918 | 269 | 271 | 272 | 273 | 275 | 28 | 37 |
| 23 | 39 | 619 | 697 | 635 | 643 | 652 | 207 | 200 | 193 | 186 | 176 | 916 | 917 | 916 | 915 | 913 | 276 | 276 | 978 | 279 | 200 | 24 | 36 |
| 24 | 36 | 652 | 660 | 666 | 676 | 664 | 178 | 171 | 164 | 157 | 160 | 913 | 912 | 911 | 210 | 908 | 280 | 282 | 283 | 285 | 286 | 10. 20 | 35 |
| 25 | 49. 40 | 9. 11 684 | 692 | 700 | 709 | 717 | 9. 91 150 | 143 | 135 | 128 | 121 | 9. 93 908 | 907 | 906 | 905 | 904 | 9. 92 286 | 287 | 289 | 290 | 292 | 16 | 34 |
| 26 | 44 | 717 | 725 | 733 | 741 | 749 | 121 | 114 | 107 | 100 | 092 | 964 | 909 | 901 | 900 | 699 | 292 | 293 | 994 | 296 | 297 | 12 | 33 |
| 27 | 48 | 749 | 757 | 765 | 774 | 782 | 092 | 085 | 070 | 071 | 064 | 899 | 697 | 896 | 695 | 894 | 297 | 290 | 300 | 301 | 303 | 8 | 32 |
| 28 | 52 | 782 | 790 | 798 | 806 | 814 | 064 | 057 | 049 | 042 | 035 | 894 | 893 | 891 | 890 | 889 | 303 | 304 | 305 | 307 | 308 | 4 | 31 |
| 29 | 56 | 814 | 892 | 031 | 839 | 847 | 035 | 098 | 021 | 014 | 006 | 882 | 888 | 886 | 665 | 084 | 308 | 310 | 311 | 312 | 314 | 10. 0 | 30 |
| 36 | 50. 0 | 9. 11 847 | 855 | 863 | 871 | 879 | * 006 | 999 | 992 | 985 | 978 | 9. 93 884 | 883 | 881 | 880 | 879 | 9. 92 314 | 315 | 317 | 318 | 319 | 56 | 29 |
| 31 | 4 | 879 | 807 | 895 | 904 | 912 | 9. 26 976 | 970 | 963 | 956 | 949 | 079 | 878 | 877 | 875 | 874 | 319 | 321 | 322 | 324 | 325 | 52 | 28 |
| 32 | 6 | 912 | 920 | 928 | 936 | 944 | 949 | 942 | 935 | 927 | 920 | 874 | 873 | 872 | 870 | 869 | 325 | 320 | 328 | 329 | 330 | 48 | 27 |
| 33 | 12 | 944 | 952 | 960 | 966 | 977 | 920 | 913 | 906 | 899 | 891 | 069 | 868 | 867 | 865 | 864 | 330 | 332 | 333 | 335 | 336 | 44 | 26 |
| 34 | 16 | * 977 | 985 | 993 | 001 | 009 | 891 | 684 | 877 | 870 | 863 | 064 | 863 | 069 | 861 | 859 | 336 | 337 | 339 | 340 | 342 | 9. 40 | 25 |
| 35 | 50. 20 | 9. 12 009 | 017 | 025 | 033 | 041 | 9. 20 663 | 855 | 848 | 841 | 834 | 9. 93 859 | 058 | 857 | 056 | 854 | 9. 92 349 | 343 | 344 | 346 | 347 | 36 | 24 |
| 36 | 24 | 041 | 050 | 058 | 066 | 074 | 834 | 827 | 620 | 812 | 805 | 054 | 853 | 652 | 851 | 849 | 347 | 346 | 350 | 351 | 353 | 32 | 23 |
| 37 | 26 | 074 | 089 | 090 | 090 | 106 | 805 | 798 | 791 | 704 | 776 | 049 | 848 | 647 | 846 | 845 | 353 | 354 | 356 | 357 | 356 | 28 | 22 |
| 38 | 32 | 106 | 114 | 122 | 130 | 139 | 776 | 769 | 762 | 755 | 748 | 045 | 843 | 849 | 841 | 840 | 358 | 360 | 361 | 362 | 364 | 24 | 21 |
| 39 | 36 | 139 | 147 | 155 | 163 | 171 | 748 | 740 | 733 | 726 | 719 | 640 | 638 | 837 | 036 | 835 | 364 | 365 | 366 | 368 | 369 | 9. 20 | 20 |
| 40 | 50. 40 | 9. 12 171 | 179 | 187 | 195 | 203 | 9. 26 719 | 712 | 704 | 697 | 690 | 9. 93 835 | 633 | 832 | 831 | 830 | 9. 92 369 | 371 | 372 | 373 | 375 | 16 | 19 |
| 41 | 44 | 903 | 911 | 219 | 297 | 936 | 690 | 083 | 675 | 668 | 661 | 830 | 829 | 827 | 826 | 825 | 375 | 370 | 376 | 379 | 360 | 12 | 18 |
| 42 | 48 | 236 | 244 | 252 | 260 | 268 | 661 | 054 | 647 | 639 | 632 | 025 | 894 | 822 | 821 | 690 | 380 | 382 | 383 | 384 | 386 | 0 | 17 |
| 43 | 52 | 268 | 976 | 284 | 292 | 300 | 632 | 625 | 618 | 611 | 603 | 820 | 819 | 817 | 816 | 815 | 386 | 387 | 389 | 390 | 391 | 4 | 16 |
| 44 | 56 | 300 | 308 | 316 | 394 | 332 | 603 | 596 | 589 | 589 | 574 | 815 | 614 | 812 | 011 | 810 | 391 | 393 | 394 | 396 | 397 | 9. 0 | 15 |
| 45 | 51. 0 | 9. 12 339 | 341 | 349 | 357 | 365 | 9. 20 574 | 567 | 560 | 553 | 546 | 9. 93 810 | 809 | 800 | 006 | 805 | 9. 92 397 | 398 | 400 | 401 | 402 | 56 | 14 |
| 46 | 4 | 365 | 373 | 381 | 389 | 397 | 546 | 536 | 531 | 594 | 517 | 605 | 804 | 603 | 601 | 800 | 409 | 404 | 405 | 407 | 406 | 52 | 13 |
| 47 | 0 | 397 | 405 | 413 | 491 | 429 | 517 | 509 | 502 | 495 | 468 | 800 | 799 | 790 | 796 | 795 | 408 | 409 | 411 | 412 | 413 | 46 | 12 |
| 48 | 19 | 429 | 437 | 445 | 453 | 401 | 460 | 461 | 473 | 466 | 459 | 795 | 794 | 793 | 791 | 790 | 413 | 415 | 416 | 416 | 419 | 44 | 11 |
| 49 | 16 | 461 | 470 | 478 | 466 | 494 | 459 | 452 | 444 | 437 | 430 | 720 | 762 | 766 | 706 | 785 | 419 | 420 | 422 | 423 | 425 | 8. 40 | 10 |
| 50 | 51. 20 | 9. 12 494 | 509 | 510 | 510 | 526 | 9. 20 430 | 423 | 415 | 468 | 401 | 9. 93 765 | 784 | 703 | 789 | 780 | 9. 92 425 | 426 | 427 | 429 | 430 | 36 | 9 |
| 51 | 24 | 526 | 534 | 542 | 550 | 558 | 401 | 394 | 386 | 372 | 372 | 760 | 779 | 776 | 777 | 775 | 430 | 431 | 433 | 434 | 436 | 32 | 8 |
| 52 | 26 | 058 | 566 | 574 | 582 | 590 | 372 | 365 | 358 | 350 | 343 | 775 | 774 | 773 | 772 | 770 | 436 | 437 | 436 | 440 | 441 | 28 | 7 |
| 53 | 32 | 590 | 598 | 606 | 614 | 622 | 343 | 336 | 329 | 321 | 314 | 770 | 769 | 706 | 707 | 765 | 441 | 442 | 444 | 445 | 447 | 24 | 6 |
| 54 | 36 | 622 | 630 | 638 | 647 | 655 | 314 | 307 | 300 | 292 | 285 | 765 | 704 | 763 | 762 | 760 | 447 | 448 | 449 | 451 | 452 | 8. 20 | 5 |
| 55 | 51. 40 | 9. 12 655 | 663 | 671 | 679 | 687 | 9. 20 285 | 278 | 271 | 263 | 256 | 9. 93 760 | 759 | 750 | 757 | 755 | 9. 92 452 | 453 | 455 | 456 | 458 | 16 | 4 |
| 56 | 44 | 687 | 695 | 703 | 711 | 719 | 256 | 249 | 242 | 234 | 227 | 755 | 754 | 753 | 752 | 750 | 450 | 459 | 460 | 462 | 463 | 12 | 3 |
| 07 | 46 | 719 | 727 | 735 | 743 | 751 | 227 | 220 | 213 | 205 | 198 | 750 | 749 | 746 | 747 | 745 | 463 | 464 | 466 | 467 | 469 | 6 | 2 |
| 58 | 59 | 751 | 759 | 767 | 775 | 703 | 198 | 191 | 163 | 176 | 169 | 745 | 744 | 743 | 742 | 741 | 469 | 470 | 471 | 473 | 474 | 4 | 1 |
| 59 | 56 | 763 | 791 | 799 | 007 | 015 | 169 | 162 | 154 | 147 | 140 | 741 | 732 | 738 | 737 | 73[illegible] | 474 | 475 | 477 | 470 | 480 | 8. 0 | 0 |
| | | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 40″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 66″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 9h | 137° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 47° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 43° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| ′ | m s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60 4s | 0" 0s | 15" 1s | 30" 2s | 45" 3s | 60" 4s | 6" 0s | 15" 1s | 30" 2s | 45" 3s | 66" 4s | | |
| 0 | 52. 6 | 9. 83 370 | 362 | 305 | 388 | 392 | 9. 06 413 | 410 | 407 | 404 | 401 | 6. 13 507 | 520 | 523 | 596 | 599 | 6. 16 622 | 618 | 010 | 612 | 608 | 06 | 52 |
| 1 | 4 | 392 | 325 | 399 | 402 | 405 | 401 | 398 | 395 | 392 | 389 | 509 | 602 | 605 | 608 | 611 | 608 | 605 | 601 | 598 | 595 | 09 | 50 |
| 2 | 8 | 405 | 409 | 419 | 416 | 419 | 389 | 386 | 383 | 386 | 377 | 611 | 614 | 017 | 620 | 623 | 095 | 591 | 588 | 084 | 581 | 48 | 57 |
| 3 | 12 | 419 | 422 | 426 | 429 | 432 | 377 | 374 | 371 | 369 | 366 | 623 | 626 | 622 | 031 | 634 | 581 | 578 | 574 | 571 | 568 | 44 | 56 |
| 4 | 16 | 432 | 436 | 430 | 443 | 446 | 366 | 363 | 360 | 357 | 354 | 634 | 637 | 640 | 643 | 646 | 668 | 564 | 561 | 557 | 554 | 7. 40 | 55 |
| 5 | 52. 20 | 9. 83 446 | 449 | 453 | 456 | 459 | 9. 86 354 | 351 | 348 | 345 | 342 | 0. 13 646 | 649 | 659 | 655 | 658 | 0. 16 554 | 551 | 547 | 544 | 511 | 36 | 54 |
| 6 | 24 | 459 | 463 | 466 | 470 | 473 | 342 | 339 | 336 | 333 | 330 | 658 | 661 | 664 | 667 | 070 | 541 | 537 | 534 | 530 | 527 | 32 | 53 |
| 7 | 28 | 473 | 476 | 480 | 483 | 486 | 330 | 327 | 324 | 321 | 318 | 607 | 073 | 676 | 079 | 082 | 527 | 324 | 520 | 517 | 514 | 28 | 52 |
| 8 | 32 | 486 | 490 | 493 | 407 | 500 | 318 | 315 | 312 | 309 | 366 | 682 | 605 | 688 | 691 | 694 | 514 | 510 | 507 | 503 | 500 | 24 | 51 |
| 9 | 36 | 600 | 503 | 507 | 516 | 513 | 306 | 303 | 301 | 998 | 995 | 694 | 697 | 699 | 709 | 705 | 000 | 497 | 493 | 490 | 487 | 7. 20 | 50 |
| 10 | 52. 40 | 9. 83 513 | 517 | 590 | 524 | 527 | 2. 86 295 | 299 | 289 | 286 | 283 | 6. 13 705 | 708 | 711 | 714 | 717 | 6. 16 487 | 483 | 480 | 476 | 473 | 16 | 49 |
| 11 | 44 | 527 | 536 | 534 | 537 | 540 | 283 | 280 | 277 | 274 | 271 | 717 | 720 | 723 | 726 | 729 | 473 | 470 | 466 | 463 | 460 | 19 | 46 |
| 12 | 48 | 540 | 544 | 547 | 550 | 554 | 271 | 268 | 265 | 262 | 259 | 729 | 732 | 735 | 738 | 741 | 460 | 156 | 453 | 450 | 446 | 8 | 47 |
| 13 | 62 | 554 | 657 | 561 | 564 | 567 | 259 | 256 | 253 | 250 | 247 | 741 | 744 | 747 | 750 | 763 | 446 | 443 | 440 | 436 | 433 | 4 | 46 |
| 14 | 56 | 567 | 571 | 574 | 577 | 581 | 247 | 244 | 941 | 238 | 235 | 753 | 756 | 759 | 702 | 765 | 433 | 429 | 496 | 493 | 419 | 7. 0 | 46 |
| 15 | 53. 0 | 9. 83 581 | 584 | 587 | 591 | 594 | 9. 66 235 | 932 | 929 | 226 | 223 | 0. 13 765 | 768 | 771 | 774 | 777 | 0. 16 419 | 416 | 413 | 409 | 406 | 66 | 44 |
| 16 | 4 | 594 | 597 | 601 | 604 | 608 | 223 | 290 | 217 | 214 | 211 | 777 | 780 | 783 | 786 | 789 | 406 | 403 | 399 | 396 | 393 | 52 | 43 |
| 17 | 8 | 608 | 611 | 614 | 618 | 621 | 211 | 209 | 266 | 203 | 200 | 789 | 791 | 794 | 797 | 800 | 393 | 389 | 386 | 382 | 379 | 48 | 42 |
| 18 | 19 | 621 | 524 | 628 | 631 | 634 | 206 | 197 | 194 | 191 | 188 | 806 | 863 | 806 | 809 | 812 | 379 | 376 | 372 | 369 | 366 | 44 | 41 |
| 12 | 16 | 634 | 638 | 641 | 644 | 648 | 166 | 105 | 189 | 179 | 176 | 812 | 815 | 818 | 821 | 894 | 360 | 362 | 359 | 356 | 359 | 6. 40 | 40 |
| 26 | 53. 20 | 9. 83 648 | 651 | 654 | 658 | 661 | 2. 86 176 | 173 | 170 | 167 | 164 | 6. 13 894 | 827 | 830 | 833 | 836 | 0. 16 352 | 349 | 346 | 342 | 339 | 36 | 39 |
| 21 | 21 | 661 | 664 | 668 | 671 | 674 | 164 | 161 | 158 | 155 | 152 | 836 | 832 | 812 | 845 | 848 | 339 | 336 | 332 | 399 | 326 | 32 | 38 |
| 22 | 28 | 674 | 670 | 681 | 685 | 688 | 152 | 149 | 146 | 143 | 140 | 848 | 851 | 854 | 857 | 860 | 396 | 329 | 319 | 315 | 312 | 28 | 37 |
| 23 | 32 | 688 | 691 | 695 | 698 | 701 | 146 | 137 | 134 | 131 | 128 | 660 | 863 | 866 | 869 | 872 | 319 | 309 | 305 | 309 | 299 | 24 | 36 |
| 24 | 36 | 701 | 705 | 768 | 711 | 715 | 128 | 125 | 122 | 119 | 116 | 872 | 875 | 878 | 681 | 884 | 299 | 295 | 292 | 289 | 285 | 6. 20 | 35 |
| 25 | 53. 40 | 9. 83 715 | 718 | 791 | 725 | 728 | 9. 86 116 | 113 | 110 | 107 | 104 | 0. 13 884 | 887 | 890 | 893 | 806 | 0. 16 285 | 282 | 279 | 275 | 272 | 16 | 34 |
| 26 | 44 | 728 | 731 | 735 | 738 | 741 | 104 | 101 | 098 | 695 | 092 | 606 | 899 | 902 | 965 | 968 | 272 | 269 | 265 | 262 | 259 | 12 | 33 |
| 27 | 48 | 741 | 745 | 748 | 751 | 765 | 092 | 009 | 086 | 083 | 080 | 900 | 911 | 914 | 917 | 990 | 259 | 255 | 252 | 249 | 245 | 8 | 32 |
| 28 | 52 | 755 | 768 | 761 | 765 | 768 | 080 | 677 | 074 | 071 | 068 | 920 | 923 | 926 | 929 | 932 | 245 | 242 | 939 | 935 | 932 | 4 | 31 |
| 22 | 66 | 768 | 771 | 775 | 776 | 781 | 068 | 665 | 062 | 059 | 056 | 939 | 935 | 938 | 941 | 944 | 232 | 229 | 225 | 222 | 219 | 6. 0 | 36 |
| 30 | 54. 0 | 9. 83 781 | 785 | 788 | 791 | 795 | 2. 66 056 | 053 | 050 | 047 | 044 | 6. 13 944 | 947 | 950 | 953 | 956 | 0. 16 219 | 915 | 219 | 209 | 205 | 56 | 29 |
| 31 | 4 | 795 | 796 | 801 | 805 | 808 | 044 | 041 | 038 | 035 | 632 | 956 | 969 | 962 | 065 | 908 | 205 | 202 | 129 | 195 | 192 | 52 | 28 |
| 32 | 8 | 808 | 611 | 814 | 818 | 821 | 032 | 029 | 626 | 023 | 020 | 968 | 971 | 974 | 977 | 980 | 192 | 189 | 186 | 182 | 179 | 46 | 27 |
| 33 | 19 | 821 | 824 | 828 | 831 | 834 | 026 | 617 | 614 | 011 | 008 | 980 | 983 | 906 | 989 | 992 | 170 | 176 | 179 | 169 | 166 | 44 | 26 |
| 34 | 16 | 834 | 630 | 841 | 014 | 848 | * 000 | 605 | 602 | 999 | 996 | * 999 | 995 | 998 | 001 | 004 | 166 | 162 | 109 | 156 | 152 | 5. 40 | 25 |
| 35 | 54. 20 | 9. 63 848 | 851 | 854 | 858 | 861 | 9. 85 996 | 993 | 990 | 987 | 984 | 0. 14 004 | 007 | 016 | 613 | 616 | 0. 16 152 | 149 | 146 | 149 | 139 | 06 | 24 |
| 36 | 24 | 861 | 864 | 868 | 871 | 874 | 984 | 981 | 978 | 975 | 979 | 016 | 019 | 022 | 095 | 628 | 139 | 136 | 132 | 199 | 126 | 32 | 23 |
| 37 | 28 | 674 | 678 | 881 | 884 | 887 | 972 | 960 | 966 | 963 | 960 | 028 | 031 | 034 | 037 | 040 | 126 | 199 | 119 | 116 | 113 | 28 | 22 |
| 38 | 32 | 807 | 891 | 894 | 827 | 901 | 960 | 957 | 954 | 951 | 948 | 040 | 043 | 046 | 049 | 052 | 113 | 109 | 106 | 163 | 099 | 24 | 21 |
| 39 | 36 | 901 | 904 | 967 | 911 | 914 | 948 | 945 | 942 | 939 | 936 | 059 | 055 | 058 | 061 | 064 | 099 | 096 | 093 | 089 | 066 | 5. 20 | 20 |
| 40 | 54. 40 | 9. 83 914 | 917 | 921 | 924 | 227 | 9. 85 936 | 933 | 930 | 927 | 924 | 6. 14 064 | 067 | 070 | 073 | 076 | 0. 16 086 | 083 | 079 | 076 | 073 | 16 | 12 |
| 41 | 44 | 927 | 931 | 934 | 937 | 940 | 924 | 921 | 910 | 916 | 912 | 076 | 679 | 089 | 085 | 088 | 073 | 070 | 066 | 663 | 060 | 12 | 18 |
| 42 | 48 | 946 | 944 | 947 | 950 | 954 | 912 | 909 | 906 | 903 | 900 | 088 | 091 | 694 | 097 | 100 | 060 | 056 | 053 | 650 | 046 | 8 | 17 |
| 43 | 52 | 254 | 957 | 960 | 964 | 967 | 900 | 897 | 894 | 891 | 888 | 100 | 103 | 106 | 160 | 112 | 046 | 043 | 040 | 636 | 683 | 4 | 16 |
| 44 | 66 | 967 | 970 | 973 | 977 | 980 | 888 | 885 | 882 | 879 | 876 | 112 | 115 | 116 | 121 | 194 | 033 | 030 | 097 | 623 | 620 | 5. 0 | 15 |
| 45 | 55. 0 | 2. 83 980 | 983 | 987 | 990 | 923 | 9. 85 876 | 873 | 870 | 867 | 864 | 0. 14 124 | 127 | 130 | 133 | 136 | 6. 16 020 | 017 | 013 | 016 | 007 | 56 | 14 |
| 46 | 4 | * 993 | 997 | 000 | 003 | 006 | 864 | 866 | 857 | 854 | 851 | 136 | 140 | 143 | 146 | 149 | * 007 | 003 | 000 | 097 | 994 | 52 | 13 |
| 47 | 8 | 2. 84 006 | 010 | 013 | 016 | 020 | 851 | 848 | 845 | 842 | 839 | 149 | 159 | 155 | 158 | 161 | 6. 15 994 | 998 | 987 | 984 | 980 | 48 | 12 |
| 40 | 12 | 020 | 023 | 026 | 029 | 033 | 639 | 836 | 833 | 830 | 827 | 161 | 164 | 167 | 170 | 173 | 900 | 977 | 974 | 971 | 967 | 44 | 11 |
| 49 | 16 | 033 | 036 | 039 | 043 | 046 | 827 | 624 | 821 | 810 | 815 | 173 | 176 | 172 | 182 | 185 | 967 | 964 | 961 | 957 | 954 | 4. 40 | 10 |
| 00 | 55. 20 | 2. 84 046 | 049 | 053 | 056 | 059 | 2. 85 015 | 012 | 809 | 806 | 003 | 0. 14 185 | 188 | 191 | 194 | 197 | 0. 15 954 | 951 | 948 | 944 | 941 | 36 | 2 |
| 01 | 24 | 059 | 062 | 666 | 062 | 072 | 803 | 800 | 797 | 794 | 791 | 197 | 200 | 903 | 206 | 209 | 941 | 938 | 234 | 231 | 928 | 32 | 8 |
| 09 | 28 | 072 | 676 | 079 | 689 | 085 | 791 | 788 | 785 | 762 | 779 | 209 | 212 | 215 | 218 | 221 | 928 | 924 | 921 | 918 | 916 | 28 | 7 |
| 03 | 32 | 085 | 689 | 692 | 695 | 099 | 779 | 776 | 773 | 770 | 766 | 221 | 224 | 227 | 230 | 234 | 915 | 911 | 908 | 905 | 902 | 24 | 6 |
| 54 | 36 | 099 | 102 | 105 | 168 | 112 | 766 | 763 | 766 | 757 | 754 | 234 | 237 | 240 | 943 | 246 | 962 | 898 | 895 | 892 | 888 | 4. 20 | 5 |
| 05 | 55. 40 | 2. 84 112 | 115 | 118 | 121 | 125 | 2. 85 754 | 751 | 748 | 745 | 742 | 0. 14 246 | 249 | 259 | 955 | 258 | 0. 15 888 | 885 | 082 | 879 | 875 | 16 | 4 |
| 56 | 44 | 125 | 126 | 131 | 135 | 138 | 742 | 739 | 736 | 733 | 730 | 258 | 961 | 264 | 967 | 270 | 875 | 872 | 869 | 865 | 869 | 12 | 3 |
| 57 | 48 | 138 | 141 | 144 | 148 | 151 | 730 | 727 | 724 | 791 | 718 | 270 | 273 | 276 | 979 | 282 | 862 | 859 | 856 | 859 | 849 | 8 | 2 |
| 56 | 52 | 151 | 154 | 158 | 161 | 164 | 718 | 715 | 719 | 769 | 766 | 282 | 285 | 288 | 291 | 294 | 849 | 846 | 843 | 839 | 836 | 4 | 1 |
| 59 | 06 | 164 | 187 | 171 | 174 | 177 | 766 | 763 | 700 | 696 | 603 | 294 | 297 | 300 | 304 | 367 | 836 | 833 | 899 | 826 | 823 | 4. 0 | 0 |
| | | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 66" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 6" | 4s 60" | 3s 45" | 2s 30" | 1s 15" | 0s 0" | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 136° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 46° |

**Tabla XVI.** Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 43° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ' | m s | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 32" 2° | 45" 3° | 60" 4° | 0" 0° | 15" 1° | 30" 2° | 45 3° | 60 4° | 0" 0° | 15" 1° | 30" 2° | 45" 3° | 60" 4° | | |
| 2 | 52. 9 | 9. 19 815 | 823 | 631 | 839 | 847 | 9. 20 140 | 133 | 125 | 110 | 111 | 9. 93 736 | 734 | 733 | 732 | 731 | 9. 92 480 | 481 | 462 | 464 | 465 | 56 | 59 |
| 1 | 4 | 847 | 455 | 063 | 871 | 879 | 111 | 104 | 096 | 089 | 002 | 731 | 729 | 728 | 727 | 726 | 485 | 406 | 488 | 489 | 491 | 52 | 58 |
| 2 | 8 | 679 | 887 | 895 | 203 | 911 | 282 | 075 | 067 | 060 | 053 | 726 | 724 | 723 | 722 | 721 | 491 | 492 | 493 | 495 | 496 | 48 | 57 |
| 3 | 12 | 911 | 919 | 927 | 935 | 943 | 653 | 045 | 038 | 231 | 024 | 721 | 719 | 718 | 717 | 716 | 496 | 497 | 499 | 500 | 502 | 44 | 56 |
| 4 | 16 | 943 | 951 | 959 | 267 | 275 | * 524 | 016 | 009 | 002 | 995 | 716 | 714 | 713 | 719 | 711 | 502 | 503 | 504 | 506 | 507 | 7. 40 | 55 |
| 5 | 52. 20 | * 975 | 983 | 991 | 999 | 007 | 9. 19 295 | 987 | 980 | 973 | 965 | 9. 93 711 | 709 | 708 | 707 | 706 | 9. 92 507 | 508 | 510 | 511 | 512 | 36 | 54 |
| 5 | 24 | 9. 13 007 | 015 | 023 | 031 | 039 | 965 | 958 | 951 | 244 | 936 | 706 | 704 | 703 | 702 | 701 | 512 | 514 | 515 | 517 | 518 | 32 | 53 |
| 7 | 28 | 239 | 047 | 255 | 063 | 071 | 932 | 929 | 922 | 914 | 907 | 721 | 699 | 698 | 697 | 696 | 510 | 519 | 521 | 522 | 523 | 20 | 52 |
| 6 | 32 | 071 | 079 | 007 | 095 | 103 | 907 | 900 | 893 | 885 | 878 | 522 | 694 | 693 | 692 | 691 | 523 | 525 | 526 | 528 | 529 | 24 | 51 |
| 9 | 36 | 103 | 111 | 112 | 127 | 135 | 878 | 871 | 863 | 856 | 849 | 691 | 689 | 688 | 687 | 686 | 529 | 530 | 532 | 533 | 534 | 7. 20 | 50 |
| 10 | 52. 42 | 9. 13 135 | 143 | 101 | 159 | 167 | 9. 19 849 | 842 | 834 | 827 | 820 | 9. 93 606 | 684 | 683 | 689 | 681 | 9. 92 934 | 536 | 537 | 538 | 540 | 16 | 49 |
| 11 | 44 | 167 | 175 | 103 | 191 | 199 | 820 | 812 | 805 | 798 | 790 | 601 | 679 | 678 | 677 | 676 | 540 | 541 | 543 | 544 | 545 | 12 | 48 |
| 12 | 40 | 199 | 227 | 215 | 223 | 231 | 790 | 783 | 776 | 769 | 751 | 875 | 674 | 673 | 672 | 671 | 945 | 547 | 548 | 549 | 551 | 8 | 47 |
| 13 | 92 | 931 | 239 | 247 | 255 | 283 | 781 | 754 | 747 | 739 | 732 | 671 | 669 | 668 | 667 | 666 | 551 | 552 | 581 | 555 | 556 | 4 | 46 |
| 14 | 56 | 263 | 271 | 279 | 267 | 295 | 732 | 725 | 717 | 710 | 703 | 686 | 664 | 663 | 662 | 661 | 956 | 558 | 559 | 580 | 562 | 7. 0 | 45 |
| 15 | 53. 0 | 9. 13 295 | 303 | 311 | 319 | 326 | 9. 19 703 | 692 | 608 | 681 | 674 | 9. 93 861 | 559 | 658 | 657 | 656 | 9. 92 562 | 563 | 564 | 569 | 567 | 96 | 44 |
| 15 | 4 | 326 | 334 | 342 | 350 | 358 | 574 | 666 | 659 | 652 | 644 | 656 | 254 | 653 | 652 | 651 | 967 | 569 | 570 | 571 | 573 | 52 | 43 |
| 17 | 8 | 350 | 365 | 374 | 382 | 390 | 644 | 637 | 630 | 622 | 615 | 851 | 649 | 648 | 647 | 646 | 573 | 574 | 575 | 577 | 578 | 48 | 42 |
| 18 | 12 | 390 | 390 | 406 | 414 | 422 | 615 | 600 | 600 | 593 | 586 | 946 | 644 | 643 | 642 | 641 | 578 | 579 | 501 | 582 | 584 | 44 | 41 |
| 19 | 16 | 422 | 432 | 438 | 446 | 454 | 582 | 578 | 571 | 564 | 557 | 641 | 539 | 638 | 637 | 636 | 504 | 585 | 586 | 588 | 589 | 6. 40 | 40 |
| 20 | 53. 20 | 9. 13 454 | 462 | 470 | 478 | 486 | 9. 19 057 | 549 | 542 | 535 | 527 | 9. 93 930 | 634 | 633 | 632 | 631 | 9. 92 989 | 590 | 592 | 593 | 594 | 36 | 39 |
| 21 | 24 | 402 | 494 | 501 | 509 | 517 | 527 | 520 | 512 | 505 | 498 | 531 | 629 | 620 | 627 | 626 | 924 | 596 | 597 | 599 | 600 | 32 | 38 |
| 22 | 22 | 517 | 525 | 533 | 541 | 549 | 498 | 491 | 453 | 476 | 469 | 522 | 624 | 623 | 622 | 621 | 602 | 691 | 803 | 604 | 605 | 28 | 37 |
| 93 | 32 | 549 | 557 | 585 | 573 | 581 | 469 | 481 | 494 | 447 | 439 | 621 | 612 | 618 | 617 | 616 | 605 | 627 | 808 | 609 | 611 | 94 | 36 |
| 94 | 36 | 581 | 589 | 597 | 605 | 613 | 439 | 432 | 425 | 417 | 410 | 619 | 614 | 613 | 612 | 610 | 611 | 612 | 613 | 215 | 616 | 6. 20 | 35 |
| 25 | 53. 40 | 9. 13 613 | 621 | 628 | 636 | 644 | 9. 19 412 | 403 | 395 | 388 | 381 | 9. 93 610 | 609 | 600 | 607 | 605 | 9. 92 916 | 618 | 619 | 620 | 622 | 16 | 34 |
| 26 | 44 | 644 | 652 | 660 | 668 | 876 | 381 | 373 | 362 | 359 | 351 | 605 | 604 | 603 | 602 | 600 | 622 | 623 | 224 | 626 | 627 | 12 | 33 |
| 97 | 48 | 679 | 684 | 692 | 720 | 708 | 351 | 344 | 337 | 329 | 322 | 600 | 599 | 598 | 597 | 595 | 627 | 620 | 632 | 631 | 633 | 8 | 32 |
| 28 | 52 | 708 | 716 | 724 | 732 | 739 | 322 | 315 | 307 | 300 | 292 | 995 | 594 | 593 | 592 | 590 | 633 | 634 | 635 | 637 | 638 | 4 | 31 |
| 29 | 56 | 739 | 747 | 795 | 763 | 771 | 222 | 205 | 278 | 270 | 263 | 990 | 589 | 588 | 587 | 585 | 638 | 639 | 641 | 642 | 643 | 6. 0 | 30 |
| 30 | 54. 5 | 9. 13 771 | 779 | 787 | 795 | 803 | 9. 19 263 | 256 | 248 | 241 | 234 | 9. 93 585 | 584 | 583 | 582 | 580 | 9. 92 643 | 645 | 646 | 647 | 649 | 56 | 29 |
| 31 | 4 | 603 | 811 | 819 | 826 | 834 | 234 | 226 | 219 | 212 | 904 | 980 | 579 | 570 | 577 | 075 | 649 | 650 | 651 | 653 | 654 | 52 | 26 |
| 32 | 8 | 834 | 842 | 850 | 858 | 866 | 224 | 197 | 190 | 102 | 175 | 575 | 574 | 573 | 571 | 570 | 634 | 650 | 257 | 658 | 668 | 48 | 27 |
| 33 | 12 | 659 | 874 | 882 | 890 | 898 | 170 | 187 | 162 | 153 | 145 | 570 | 529 | 568 | 566 | 565 | 660 | 661 | 662 | 664 | 965 | 44 | 26 |
| 34 | 16 | 990 | 925 | 913 | 921 | 929 | 145 | 138 | 131 | 123 | 116 | 565 | 564 | 563 | 561 | 560 | 665 | 669 | 668 | 669 | 679 | 5. 40 | 25 |
| 35 | 54. 20 | 9. 13 929 | 937 | 945 | 953 | 961 | 9. 19 116 | 109 | 101 | 094 | 086 | 9. 93 560 | 559 | 558 | 556 | 555 | 9. 92 670 | 672 | 673 | 675 | 676 | 36 | 24 |
| 36 | 24 | 951 | 969 | 977 | 984 | 992 | 289 | 079 | 072 | 064 | 057 | 055 | 554 | 553 | 551 | 550 | 576 | 677 | 679 | 680 | 681 | 32 | 23 |
| 37 | 20 | * 992 | 020 | 008 | 218 | 024 | 657 | 050 | 042 | 035 | 627 | 900 | 549 | 547 | 046 | 545 | 601 | 683 | 684 | 685 | 687 | 28 | 22 |
| 38 | 32 | 9. 14 024 | 032 | 040 | 048 | 056 | * 227 | 020 | 013 | 005 | 998 | 545 | 544 | 542 | 541 | 540 | 607 | 690 | 609 | 691 | 692 | 24 | 21 |
| 39 | 36 | 006 | 063 | 071 | 079 | 087 | 9. 18 922 | 921 | 983 | 975 | 968 | 540 | 539 | 537 | 536 | 535 | 692 | 693 | 695 | 696 | 698 | 9. 20 | 26 |
| 40 | 54. 40 | 9. 14 987 | 025 | 103 | 111 | 119 | 9. 19 900 | 961 | 954 | 946 | 939 | 9. 93 535 | 534 | 532 | 531 | 530 | 9. 92 528 | 699 | 700 | 702 | 703 | 16 | 19 |
| 41 | 44 | 119 | 122 | 134 | 142 | 150 | 932 | 932 | 924 | 917 | 909 | 930 | 520 | 527 | 526 | 525 | 723 | 724 | 706 | 707 | 708 | 12 | 16 |
| 42 | 48 | 150 | 158 | 186 | 174 | 182 | 929 | 902 | 895 | 887 | 880 | 525 | 523 | 522 | 521 | 520 | 720 | 710 | 711 | 712 | 714 | 8 | 17 |
| 43 | 52 | 182 | 109 | 197 | 205 | 213 | 800 | 872 | 885 | 058 | 850 | 520 | 510 | 517 | 515 | 515 | 714 | 710 | 716 | 718 | 719 | 4 | 15 |
| 44 | 56 | 213 | 221 | 229 | 237 | 245 | 050 | 843 | 835 | 828 | 821 | 515 | 513 | 512 | 511 | 509 | 719 | 720 | 722 | 723 | 725 | 5. 0 | 19 |
| 45 | 05. 0 | 9. 14 945 | 252 | 200 | 268 | 276 | 9. 18 821 | 813 | 806 | 798 | 791 | 9. 93 009 | 508 | 527 | 509 | 504 | 9. 92 725 | 726 | 727 | 729 | 730 | 56 | 14 |
| 45 | 4 | 979 | 284 | 292 | 300 | 307 | 721 | 784 | 776 | 769 | 761 | 504 | 503 | 502 | 501 | 499 | 730 | 731 | 733 | 734 | 735 | 52 | 13 |
| 47 | 6 | 307 | 315 | 323 | 331 | 339 | 761 | 794 | 747 | 739 | 732 | 499 | 490 | 497 | 496 | 494 | 730 | 737 | 738 | 739 | 741 | 48 | 12 |
| 48 | 12 | 339 | 347 | 355 | 362 | 370 | 732 | 724 | 717 | 710 | 702 | 494 | 493 | 492 | 492 | 489 | 741 | 742 | 743 | 745 | 746 | 44 | 11 |
| 49 | 16 | 370 | 378 | 386 | 394 | 402 | 722 | 695 | 697 | 680 | 673 | 492 | 488 | 427 | 485 | 484 | 742 | 747 | 749 | 750 | 751 | 4. 40 | 10 |
| 90 | 55. 20 | 9. 14 402 | 410 | 417 | 425 | 433 | 9. 16 673 | 665 | 650 | 650 | 643 | 9. 93 484 | 483 | 482 | 480 | 479 | 9. 92 751 | 753 | 754 | 756 | 757 | 36 | 9 |
| 51 | 24 | 433 | 441 | 449 | 457 | 465 | 643 | 632 | 620 | 621 | 613 | 479 | 479 | 479 | 472 | 474 | 797 | 758 | 760 | 761 | 762 | 32 | 6 |
| 52 | 28 | 465 | 472 | 480 | 488 | 496 | 813 | 606 | 590 | 591 | 584 | 474 | 473 | 471 | 470 | 469 | 792 | 784 | 765 | 768 | 768 | 28 | 7 |
| 93 | 32 | 498 | 504 | 512 | 519 | 527 | 584 | 576 | 529 | 561 | 554 | 469 | 468 | 429 | 465 | 464 | 768 | 769 | 770 | 772 | 773 | 24 | 6 |
| 54 | 36 | 527 | 535 | 543 | 551 | 559 | 954 | 547 | 539 | 532 | 524 | 464 | 462 | 421 | 460 | 459 | 773 | 774 | 776 | 777 | 778 | 4. 20 | 9 |
| 05 | 55. 40 | 9. 14 559 | 566 | 574 | 582 | 592 | 9. 18 924 | 517 | 509 | 502 | 495 | 9. 93 459 | 407 | 452 | 455 | 454 | 9. 22 778 | 780 | 781 | 782 | 784 | 12 | 4 |
| 99 | 44 | 992 | 598 | 606 | 613 | 621 | 495 | 427 | 400 | 479 | 425 | 404 | 402 | 401 | 450 | 448 | 784 | 765 | 708 | 788 | 789 | 12 | 3 |
| 57 | 48 | 521 | 229 | 637 | 615 | 653 | 490 | 457 | 450 | 443 | 435 | 448 | 447 | 446 | 445 | 443 | 789 | 720 | 792 | 793 | 794 | 8 | 2 |
| 58 | 92 | 653 | 560 | 620 | 676 | 684 | 435 | 428 | 420 | 413 | 405 | 443 | 442 | 441 | 440 | 438 | 794 | 796 | 727 | 799 | 000 | 4 | 1 |
| 59 | 92 | 684 | 692 | 699 | 707 | 715 | 405 | 398 | 399 | 383 | 370 | 430 | 437 | 455 | 434 | 433 | 820 | 821 | 903 | 804 | 805 | 4. 0 | 2 |
| | | 4° 60" | 3° 49" | 2° 30" | 1° 19" | 0° 9" | 4° 89" | 3° 45" | 2° 30" | 1° 19" | 9° 9" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 9° 9" | 4° 60" | 3° 45" | 2° 30" | 1° 15" | 0° 0" | m s | ' |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 9h | 132° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 46° |

**Tabla XVI.** **Logaritmos Senos, Cosenos, Secantes y Cosecantes.**

| 44° | 2h | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 134° | 8h | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | | |
| | m s | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 8° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 46″ 3° | 60″ 4° | 0″ 8° | 13″ 1° | 30″ 2° | 43″ 3° | 60″ 4° | | |
| 8 | 36 8 | 9.84 177 | 188 | 184 | 167 | 190 | 9.85 693 | 690 | 687 | 684 | 681 | 8.14 367 | 310 | 313 | 316 | 319 | 0.10 823 | 620 | 616 | 813 | 610 | 06 | 59 |
| 1 | 4 | 196 | 193 | 197 | 268 | 203 | 681 | 678 | 670 | 672 | 669 | 312 | 322 | 325 | 326 | 331 | 610 | 887 | 863 | 600 | 797 | 02 | 58 |
| 2 | 8 | 283 | 907 | 210 | 213 | 216 | 669 | 666 | 663 | 660 | 657 | 331 | 334 | 337 | 340 | 343 | 797 | 793 | 798 | 787 | 784 | 48 | 57 |
| 3 | 19 | 216 | 920 | 223 | 226 | 229 | 657 | 654 | 651 | 648 | 645 | 343 | 346 | 349 | 352 | 355 | 784 | 780 | 777 | 774 | 771 | 44 | 56 |
| 4 | 16 | 229 | 233 | 236 | 239 | 242 | 645 | 642 | 636 | 635 | 632 | 355 | 358 | 362 | 365 | 368 | 771 | 767 | 764 | 761 | 708 | 3.46 | 55 |
| 5 | 56. 20 | 9.84 242 | 246 | 249 | 252 | 253 | 9.85 632 | 629 | 626 | 623 | 626 | 8.14 368 | 371 | 374 | 377 | 380 | 0.15 758 | 734 | 751 | 748 | 745 | 36 | 54 |
| 6 | 94 | 255 | 259 | 262 | 265 | 269 | 620 | 617 | 614 | 611 | 606 | 380 | 383 | 386 | 389 | 392 | 745 | 741 | 736 | 730 | 731 | 32 | 53 |
| 7 | 28 | 269 | 272 | 275 | 278 | 282 | 608 | 685 | 662 | 599 | 590 | 392 | 395 | 398 | 401 | 404 | 731 | 728 | 725 | 722 | 718 | 28 | 52 |
| 8 | 32 | 289 | 205 | 266 | 291 | 295 | 596 | 593 | 589 | 686 | 583 | 404 | 407 | 411 | 414 | 417 | 718 | 715 | 719 | 769 | 705 | 24 | 51 |
| 9 | 36 | 295 | 298 | 361 | 304 | 308 | 083 | 586 | 577 | 074 | 571 | 417 | 426 | 423 | 426 | 429 | 705 | 709 | 699 | 696 | 692 | 3.20 | 58 |
| 10 | 56. 40 | 2.84 308 | 311 | 314 | 317 | 321 | 9.00 671 | 568 | 565 | 562 | 559 | 8.14 429 | 439 | 435 | 438 | 441 | 6.15 699 | 689 | 686 | 683 | 679 | 16 | 49 |
| 11 | 44 | 321 | 324 | 327 | 330 | 334 | 559 | 556 | 053 | 550 | 547 | 441 | 444 | 447 | 450 | 453 | 679 | 076 | 673 | 670 | 666 | 12 | 46 |
| 12 | 48 | 334 | 337 | 346 | 343 | 347 | 647 | 543 | 540 | 537 | 534 | 453 | 457 | 466 | 463 | 466 | 666 | 663 | 668 | 657 | 653 | 6 | 47 |
| 13 | 52 | 347 | 358 | 353 | 350 | 360 | 534 | 531 | 598 | 525 | 522 | 460 | 469 | 472 | 475 | 478 | 653 | 650 | 647 | 644 | 640 | 4 | 46 |
| 14 | 56 | 360 | 363 | 366 | 369 | 373 | 522 | 519 | 516 | 513 | 610 | 470 | 481 | 484 | 487 | 490 | 640 | 637 | 634 | 631 | 028 | 3. 8 | 40 |
| 15 | 57. 0 | 2.84 373 | 376 | 379 | 382 | 385 | 2.65 510 | 507 | 503 | 500 | 497 | 0.14 490 | 493 | 497 | 500 | 503 | 0.15 698 | 624 | 621 | 618 | 615 | 56 | 44 |
| 16 | 4 | 385 | 389 | 392 | 395 | 398 | 497 | 494 | 491 | 488 | 485 | 503 | 586 | 509 | 612 | 515 | 615 | 611 | 608 | 665 | 602 | 02 | 43 |
| 17 | 8 | 398 | 402 | 486 | 406 | 411 | 485 | 482 | 479 | 476 | 473 | 515 | 518 | 521 | 624 | 527 | 602 | 598 | 595 | 592 | 669 | 48 | 42 |
| 16 | 12 | 411 | 415 | 418 | 421 | 424 | 473 | 470 | 467 | 463 | 460 | 527 | 530 | 533 | 537 | 540 | 589 | 585 | 582 | 579 | 576 | 44 | 41 |
| 19 | 16 | 424 | 428 | 431 | 434 | 437 | 460 | 467 | 434 | 451 | 448 | 640 | 543 | 546 | 549 | 552 | 076 | 572 | 569 | 566 | 563 | 2.40 | 48 |
| 20 | 07. 20 | 2.04 437 | 440 | 444 | 447 | 450 | 9.00 448 | 445 | 442 | 439 | 436 | 0.14 552 | 555 | 558 | 561 | 564 | 0.16 563 | 560 | 556 | 553 | 550 | 36 | 39 |
| 21 | 24 | 450 | 453 | 457 | 460 | 463 | 436 | 433 | 499 | 426 | 493 | 564 | 567 | 571 | 574 | 577 | 650 | 347 | 543 | 540 | 537 | 32 | 38 |
| 22 | 28 | 463 | 466 | 470 | 473 | 476 | 423 | 420 | 417 | 414 | 411 | 077 | 088 | 583 | 586 | 589 | 537 | 534 | 536 | 527 | 524 | 28 | 37 |
| 23 | 32 | 476 | 479 | 482 | 466 | 489 | 411 | 408 | 405 | 462 | 399 | 569 | 592 | 595 | 598 | 601 | 524 | 621 | 518 | 514 | 511 | 24 | 36 |
| 24 | 36 | 469 | 499 | 490 | 499 | 502 | 399 | 325 | 392 | 389 | 366 | 661 | 005 | 608 | 611 | 614 | 511 | 508 | 505 | 501 | 498 | 2.26 | 35 |
| 25 | 57. 40 | 9.84 662 | 685 | 508 | 511 | 515 | 9.85 386 | 383 | 380 | 377 | 374 | 0.14 614 | 617 | 620 | 623 | 626 | 0.16 498 | 495 | 492 | 489 | 485 | 16 | 34 |
| 26 | 44 | 015 | 518 | 521 | 524 | 528 | 374 | 371 | 368 | 365 | 361 | 626 | 629 | 632 | 635 | 639 | 485 | 482 | 479 | 476 | 472 | 12 | 33 |
| 27 | 48 | 520 | 531 | 634 | 537 | 540 | 361 | 356 | 355 | 352 | 349 | 639 | 642 | 645 | 648 | 651 | 472 | 469 | 466 | 463 | 460 | 8 | 32 |
| 28 | 52 | 640 | 544 | 647 | 558 | 663 | 349 | 346 | 343 | 340 | 337 | 651 | 654 | 657 | 666 | 663 | 460 | 456 | 453 | 450 | 447 | 4 | 31 |
| 29 | 06 | 553 | 557 | 660 | 563 | 566 | 337 | 334 | 336 | 327 | 394 | 663 | 666 | 670 | 673 | 676 | 447 | 443 | 446 | 437 | 434 | 2. 0 | 30 |
| 30 | 58. 0 | 9.84 566 | 569 | 573 | 576 | 679 | 9.85 324 | 321 | 318 | 315 | 312 | 0.14 676 | 679 | 682 | 685 | 688 | 0.15 434 | 431 | 497 | 424 | 421 | 56 | 29 |
| 31 | 4 | 579 | 582 | 585 | 589 | 592 | 312 | 309 | 306 | 302 | 299 | 688 | 691 | 694 | 698 | 761 | 421 | 416 | 415 | 411 | 468 | 02 | 98 |
| 32 | 8 | 092 | 590 | 628 | 682 | 685 | 299 | 296 | 993 | 296 | 287 | 761 | 704 | 707 | 710 | 713 | 406 | 405 | 482 | 399 | 395 | 48 | 27 |
| 33 | 12 | 605 | 608 | 611 | 614 | 618 | 287 | 284 | 281 | 278 | 274 | 713 | 716 | 719 | 722 | 726 | 395 | 392 | 369 | 386 | 382 | 44 | 26 |
| 34 | 16 | 616 | 621 | 624 | 627 | 636 | 974 | 271 | 268 | 265 | 262 | 726 | 729 | 732 | 735 | 738 | 382 | 379 | 376 | 373 | 370 | 1.40 | 25 |
| 35 | 58. 20 | 9.84 630 | 634 | 637 | 040 | 043 | 2.05 969 | 269 | 256 | 253 | 250 | 0.14 738 | 741 | 744 | 747 | 750 | 0.15 370 | 366 | 363 | 366 | 357 | 36 | 24 |
| 36 | 24 | 643 | 646 | 650 | 653 | 606 | 256 | 246 | 243 | 240 | 237 | 750 | 754 | 757 | 760 | 763 | 357 | 354 | 350 | 347 | 344 | 32 | 23 |
| 37 | 28 | 656 | 659 | 662 | 666 | 662 | 237 | 234 | 231 | 228 | 225 | 763 | 766 | 769 | 772 | 775 | 344 | 341 | 338 | 334 | 331 | 28 | 29 |
| 36 | 32 | 669 | 672 | 075 | 670 | 082 | 225 | 222 | 216 | 216 | 912 | 775 | 776 | 782 | 786 | 786 | 331 | 328 | 325 | 322 | 318 | 24 | 21 |
| 39 | 36 | 682 | 685 | 688 | 621 | 694 | 212 | 209 | 206 | 203 | 200 | 788 | 791 | 794 | 797 | 680 | 316 | 315 | 312 | 369 | 366 | 1.20 | 26 |
| 40 | 58. 40 | 9.84 694 | 698 | 701 | 704 | 767 | 2.85 206 | 197 | 193 | 196 | 187 | 6.14 800 | 863 | 807 | 810 | 813 | 8.10 366 | 302 | 299 | 296 | 293 | 16 | 12 |
| 41 | 44 | 707 | 710 | 714 | 717 | 720 | 187 | 184 | 181 | 178 | 175 | 613 | 616 | 819 | 822 | 825 | 293 | 290 | 986 | 283 | 280 | 19 | 18 |
| 42 | 48 | 726 | 723 | 726 | 729 | 733 | 175 | 172 | 168 | 166 | 162 | 825 | 628 | 832 | 835 | 838 | 280 | 277 | 274 | 971 | 967 | 8 | 17 |
| 43 | 59 | 733 | 736 | 739 | 742 | 746 | 102 | 159 | 156 | 163 | 150 | 836 | 641 | 844 | 847 | 850 | 267 | 264 | 261 | 258 | 255 | 4 | 16 |
| 44 | 56 | 745 | 749 | 752 | 755 | 758 | 100 | 147 | 143 | 140 | 137 | 856 | 853 | 857 | 860 | 863 | 255 | 251 | 248 | 245 | 249 | 1. 0 | 10 |
| 45 | 59. 8 | 9.84 768 | 761 | 765 | 766 | 771 | 9.85 137 | 134 | 131 | 128 | 125 | 6.14 663 | 866 | 869 | 872 | 875 | 0.15 242 | 239 | 935 | 232 | 229 | 56 | 14 |
| 46 | 4 | 771 | 774 | 777 | 760 | 784 | 125 | 129 | 116 | 116 | 112 | 870 | 678 | 882 | 885 | 888 | 229 | 226 | 223 | 296 | 216 | 02 | 13 |
| 47 | 8 | 764 | 787 | 796 | 793 | 796 | 112 | 109 | 166 | 103 | 166 | 666 | 691 | 894 | 897 | 900 | 216 | 213 | 216 | 267 | 264 | 48 | 12 |
| 48 | 12 | 796 | 808 | 803 | 806 | 082 | 106 | 096 | 693 | 690 | 667 | 960 | 964 | 907 | 916 | 913 | 204 | 900 | 197 | 194 | 191 | 44 | 11 |
| 49 | 16 | 809 | 812 | 616 | 819 | 822 | 067 | 084 | 061 | 678 | 074 | 913 | 916 | 919 | 922 | 926 | 191 | 186 | 185 | 181 | 176 | 0.46 | 10 |
| 50 | 59. 26 | 9.84 622 | 825 | 628 | 631 | 830 | 2.86 074 | 071 | 668 | 665 | 062 | 0.14 226 | 929 | 932 | 935 | 938 | 0.15 178 | 176 | 172 | 169 | 166 | 36 | 9 |
| 51 | 24 | 835 | 838 | 841 | 644 | 847 | 062 | 059 | 656 | 652 | 649 | 936 | 941 | 244 | 948 | 951 | 166 | 162 | 159 | 166 | 153 | 32 | 8 |
| 02 | 28 | 847 | 850 | 854 | 857 | 866 | 049 | 846 | 843 | 046 | 637 | 951 | 954 | 957 | 968 | 963 | 153 | 158 | 146 | 143 | 146 | 28 | 7 |
| 53 | 32 | 866 | 863 | 866 | 869 | 873 | 037 | 834 | 836 | 627 | 824 | 963 | 966 | 976 | 973 | 976 | 140 | 137 | 134 | 131 | 127 | 24 | 6 |
| 54 | 36 | 673 | 676 | 679 | 882 | 085 | 824 | 821 | 018 | 015 | 012 | 276 | 279 | 982 | 985 | 988 | 127 | 124 | 121 | 118 | 115 | 0.26 | 0 |
| 55 | 09. 40 | 9.84 885 | 686 | 692 | 895 | 828 | * 812 | 068 | 066 | 602 | 999 | * 966 | 992 | 995 | 998 | 081 | 0.10 115 | 112 | 108 | 105 | 102 | 16 | 4 |
| 56 | 44 | 898 | 201 | 284 | 907 | 211 | 9.84 299 | 996 | 993 | 996 | 986 | 0.15 601 | 064 | 007 | 016 | 014 | 102 | 099 | 096 | 093 | 089 | 12 | 3 |
| 57 | 48 | 211 | 914 | 917 | 928 | 923 | 286 | 963 | 980 | 977 | 974 | 014 | 017 | 828 | 023 | 026 | 089 | 086 | 083 | 888 | 877 | 6 | 2 |
| 08 | 52 | 923 | 926 | 930 | 233 | 936 | 974 | 271 | 967 | 964 | 961 | 020 | 029 | 033 | 036 | 039 | 077 | 874 | 670 | 867 | 864 | 4 | 1 |
| 52 | 56 | 930 | 939 | 942 | 945 | 949 | 961 | 958 | 956 | 952 | 949 | 032 | 042 | 845 | 848 | 051 | 064 | 061 | 058 | 055 | 051 | 0. 8 | 0 |
| ′ | | 4° 60″ | 3° 45″ | 2° 38″ | 1° 10″ | 8° 0″ | 4° 60″ | 3° 46″ | 2° 38″ | 1° 10″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 16″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 38″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Seno | | | | | Coseno | | | | | Secante | | | | | Cosecante | | | | | 9h | 135° |
| | | Coseno | | | | | Seno | | | | | Cosecante | | | | | Secante | | | | | 3h | 40° |

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## Tabla XVI. Logaritmos Versos, Coversos, Subversos y Subcoversos.

| 44° | 2h | Verso | | | | | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 134° | 8h | Coverso | | | | | Subverso | | | | | Subcoverso | | | | | Verso | | | | | | |
| ′ | m s | 0″ 0° | 15″ 1° | 36″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | 0″ 0° | 15″ 1° | 30″ 2° | 45″ 3° | 60″ 4° | | |
| 0 | 56. 0 | 9.14 715 | 723 | 731 | 739 | 746 | 9.10 376 | 368 | 361 | 353 | 346 | 9.93 433 | 432 | 431 | 429 | 428 | 9.92 805 | 807 | 808 | 809 | 811 | 56 | 59 |
| 1 | 4 | 746 | 754 | 762 | 770 | 778 | 346 | 338 | 331 | 324 | 316 | 428 | 427 | 426 | 424 | 423 | 811 | 812 | 813 | 815 | 816 | 52 | 58 |
| 2 | 8 | 778 | 785 | 723 | 801 | 809 | 316 | 309 | 301 | 294 | 286 | 423 | 422 | 420 | 419 | 415 | 816 | 817 | 819 | 820 | 821 | 48 | 57 |
| 3 | 12 | 802 | 817 | 824 | 832 | 840 | 286 | 279 | 271 | 264 | 256 | 418 | 417 | 415 | 414 | 413 | 821 | 823 | 824 | 825 | 027 | 44 | 56 |
| 4 | 16 | 840 | 848 | 856 | 863 | 871 | 256 | 249 | 242 | 934 | 227 | 413 | 411 | 410 | 409 | 408 | 827 | 828 | 829 | 831 | 832 | 3.40 | 55 |
| 5 | 56. 20 | 9.14 871 | 079 | 887 | 895 | 902 | 9.18 227 | 219 | 912 | 204 | 197 | 9.93 408 | 406 | 405 | 404 | 403 | 9.92 832 | 833 | 835 | 830 | 837 | 36 | 54 |
| 0 | 24 | 202 | 210 | 918 | 926 | 934 | 197 | 189 | 182 | 174 | 167 | 403 | 401 | 400 | 399 | 397 | 837 | 832 | 040 | 841 | 843 | 32 | 53 |
| 7 | 28 | 934 | 941 | 949 | 957 | 965 | 167 | 160 | 152 | 145 | 137 | 397 | 396 | 395 | 394 | 392 | 843 | 844 | 845 | 847 | 848 | 28 | 52 |
| 8 | 32 | 265 | 973 | 980 | 988 | 996 | 137 | 130 | 122 | 115 | 107 | 392 | 391 | 390 | 388 | 387 | 848 | 842 | 851 | 852 | 853 | 24 | 51 |
| 2 | 36 | * 996 | 004 | 012 | 019 | 027 | 107 | 100 | 022 | 085 | 077 | 387 | 380 | 385 | 383 | 382 | 853 | 855 | 856 | 857 | 859 | 3.20 | 50 |
| 10 | 56. 40 | 9.15 027 | 035 | 043 | 050 | 058 | 9.16 077 | 070 | 062 | 055 | 047 | 9.93 382 | 381 | 379 | 378 | 377 | 9.92 859 | 800 | 801 | 863 | 804 | 16 | 49 |
| 11 | 44 | 058 | 066 | 074 | 082 | 089 | 047 | 040 | 033 | 095 | 018 | 377 | 376 | 374 | 373 | 372 | 864 | 805 | 867 | 808 | 869 | 12 | 48 |
| 12 | 48 | 089 | 097 | 105 | 113 | 120 | * 018 | 010 | 003 | 995 | 988 | 372 | 370 | 369 | 368 | 367 | 869 | 871 | 872 | 873 | 875 | 8 | 47 |
| 13 | 52 | 120 | 128 | 136 | 144 | 152 | 9.17 988 | 080 | 973 | 965 | 958 | 367 | 365 | 364 | 363 | 361 | 875 | 876 | 877 | 879 | 880 | 4 | 46 |
| 14 | 56 | 152 | 159 | 167 | 175 | 183 | 958 | 950 | 943 | 935 | 928 | 361 | 300 | 359 | 358 | 350 | 880 | 881 | 883 | 884 | 885 | 3. 0 | 45 |
| 15 | 57. 0 | 2.15 183 | 190 | 128 | 206 | 214 | 9.17 928 | 920 | 913 | 905 | 898 | 9.93 350 | 355 | 354 | 353 | 351 | 9.92 085 | 887 | 888 | 889 | 891 | 50 | 44 |
| 16 | 4 | 214 | 221 | 229 | 237 | 245 | 898 | 890 | 883 | 675 | 868 | 351 | 350 | 349 | 347 | 346 | 891 | 892 | 893 | 895 | 896 | 52 | 43 |
| 17 | 8 | 245 | 253 | 200 | 268 | 276 | 868 | 860 | 853 | 045 | 838 | 346 | 345 | 344 | 342 | 341 | 890 | 897 | 892 | 200 | 901 | 48 | 42 |
| 18 | 12 | 276 | 984 | 221 | 299 | 307 | 838 | 830 | 823 | 815 | 808 | 341 | 340 | 338 | 337 | 336 | 901 | 903 | 904 | 905 | 907 | 44 | 41 |
| 19 | 16 | 307 | 315 | 322 | 330 | 338 | 808 | 800 | 793 | 785 | 778 | 336 | 335 | 333 | 332 | 331 | 907 | 908 | 909 | 911 | 912 | 2.40 | 40 |
| 20 | 57. 90 | 9.15 338 | 346 | 353 | 361 | 369 | 9.17 778 | 770 | 703 | 755 | 748 | 9.93 331 | 329 | 328 | 327 | 326 | 9.22 912 | 913 | 915 | 910 | 917 | 36 | 39 |
| 21 | 24 | 369 | 377 | 384 | 392 | 400 | 748 | 740 | 733 | 725 | 718 | 326 | 324 | 393 | 322 | 320 | 917 | 919 | 220 | 921 | 923 | 32 | 38 |
| 22 | 28 | 400 | 408 | 415 | 423 | 431 | 718 | 710 | 763 | 695 | 088 | 320 | 319 | 318 | 316 | 315 | 923 | 924 | 925 | 927 | 928 | 28 | 37 |
| 23 | 39 | 431 | 439 | 446 | 454 | 462 | 688 | 680 | 673 | 665 | 658 | 315 | 314 | 313 | 311 | 310 | 228 | 929 | 931 | 932 | 933 | 24 | 36 |
| 24 | 30 | 462 | 470 | 477 | 485 | 493 | 658 | 650 | 643 | 635 | 628 | 310 | 309 | 307 | 306 | 305 | 233 | 935 | 930 | 937 | 939 | 2.20 | 35 |
| 25 | 57. 40 | 9.15 493 | 500 | 508 | 516 | 524 | 2.17 628 | 620 | 613 | 005 | 598 | 9.93 305 | 304 | 302 | 301 | 300 | 9.92 239 | 940 | 941 | 943 | 944 | 16 | 34 |
| 20 | 44 | 524 | 531 | 539 | 547 | 555 | 598 | 590 | 583 | 575 | 568 | 300 | 298 | 297 | 296 | 995 | 944 | 945 | 947 | 948 | 949 | 12 | 33 |
| 27 | 48 | 555 | 562 | 570 | 578 | 585 | 568 | 560 | 553 | 545 | 537 | 225 | 293 | 292 | 291 | 989 | 949 | 951 | 952 | 953 | 955 | 8 | 32 |
| 28 | 52 | 585 | 593 | 601 | 609 | 610 | 537 | 530 | 522 | 515 | 507 | 289 | 288 | 287 | 286 | 284 | 955 | 956 | 957 | 958 | 960 | 4 | 31 |
| 29 | 56 | 610 | 624 | 032 | 640 | 047 | 507 | 500 | 492 | 485 | 477 | 984 | 283 | 282 | 280 | 279 | 960 | 961 | 902 | 964 | 965 | 2. 0 | 30 |
| 30 | 58. 0 | 9.15 647 | 655 | 663 | 670 | 678 | 9.17 477 | 470 | 462 | 455 | 447 | 9.93 279 | 278 | 276 | 275 | 974 | 9.99 965 | 966 | 968 | 969 | 970 | 56 | 29 |
| 31 | 4 | 678 | 686 | 694 | 701 | 709 | 447 | 440 | 432 | 425 | 417 | 274 | 273 | 271 | 270 | 202 | 970 | 972 | 973 | 974 | 976 | 52 | 28 |
| 32 | 8 | 709 | 717 | 724 | 732 | 740 | 417 | 402 | 402 | 394 | 387 | 209 | 267 | 206 | 265 | 264 | 976 | 977 | 978 | 980 | 981 | 48 | 27 |
| 33 | 12 | 740 | 748 | 755 | 703 | 771 | 387 | 379 | 372 | 364 | 357 | 204 | 202 | 261 | 200 | 258 | 981 | 982 | 984 | 985 | 986 | 44 | 26 |
| 34 | 16 | 771 | 778 | 786 | 794 | 802 | 357 | 349 | 342 | 334 | 326 | 258 | 257 | 250 | 255 | 253 | 986 | 988 | 989 | 990 | 992 | 1.40 | 25 |
| 35 | 58. 26 | 2.15 802 | 809 | 817 | 825 | 832 | 2.17 326 | 312 | 311 | 304 | 296 | 9.93 253 | 952 | 251 | 249 | 248 | 9.92 992 | 923 | 994 | 996 | 997 | 36 | 24 |
| 36 | 24 | 832 | 840 | 848 | 855 | 863 | 296 | 289 | 281 | 274 | 206 | 248 | 247 | 245 | 244 | 243 | * 997 | 998 | 999 | 001 | 002 | 32 | 23 |
| 37 | 28 | 803 | 871 | 879 | 880 | 894 | 266 | 259 | 251 | 243 | 236 | 943 | 242 | 240 | 239 | 238 | 9.93 002 | 003 | 005 | 006 | 007 | 28 | 29 |
| 38 | 32 | 894 | 902 | 909 | 917 | 925 | 236 | 228 | 921 | 213 | 206 | 938 | 230 | 935 | 234 | 232 | 007 | 009 | 010 | 011 | 013 | 24 | 21 |
| 39 | 36 | 925 | 932 | 940 | 948 | 955 | 206 | 198 | 191 | 183 | 175 | 232 | 931 | 230 | 229 | 227 | 013 | 014 | 015 | 017 | 018 | 1.20 | 20 |
| 40 | 58. 40 | 9.15 955 | 903 | 971 | 978 | 980 | 9.17 175 | 168 | 160 | 153 | 145 | 9.93 227 | 920 | 225 | 293 | 222 | 9.93 018 | 019 | 021 | 022 | 023 | 16 | 19 |
| 41 | 44 | * 986 | 994 | 002 | 009 | 017 | 145 | 138 | 130 | 122 | 115 | 222 | 221 | 219 | 218 | 217 | 023 | 025 | 020 | 027 | 029 | 12 | 18 |
| 42 | 48 | 9.16 017 | 625 | 032 | 040 | 648 | 115 | 107 | 100 | 092 | 085 | 917 | 215 | 214 | 213 | 212 | 029 | 030 | 031 | 032 | 034 | 8 | 17 |
| 43 | 52 | 048 | 655 | 063 | 071 | 078 | 085 | 077 | 009 | 062 | 054 | 212 | 210 | 209 | 208 | 207 | 034 | 035 | 036 | 038 | 039 | 4 | 16 |
| 44 | 56 | 078 | 086 | 094 | 101 | 102 | 054 | 047 | 039 | 032 | 024 | 207 | 205 | 204 | 203 | 201 | 039 | 040 | 042 | 043 | 044 | 1. 0 | 15 |
| 45 | 52. 0 | 9.16 109 | 117 | 124 | 132 | 140 | * 024 | 016 | 009 | 001 | 994 | 9.93 201 | 200 | 199 | 197 | 196 | 9.93 044 | 046 | 047 | 048 | 050 | 50 | 14 |
| 46 | 4 | 140 | 147 | 155 | 163 | 170 | 9.16 994 | 980 | 979 | 971 | 963 | 196 | 195 | 193 | 192 | 191 | 050 | 051 | 052 | 054 | 055 | 52 | 13 |
| 47 | 8 | 170 | 178 | 186 | 193 | 201 | 963 | 956 | 948 | 941 | 933 | 191 | 190 | 108 | 107 | 180 | 055 | 656 | 057 | 059 | 000 | 48 | 12 |
| 48 | 19 | 201 | 209 | 216 | 224 | 232 | 933 | 995 | 218 | 910 | 903 | 186 | 184 | 183 | 102 | 180 | 060 | 001 | 003 | 064 | 065 | 44 | 11 |
| 49 | 16 | 232 | 239 | 247 | 955 | 262 | 903 | 895 | 887 | 880 | 872 | 180 | 179 | 178 | 177 | 175 | 065 | 067 | 008 | 009 | 071 | 0.40 | 10 |
| 50 | 52. 20 | 9.16 262 | 270 | 278 | 285 | 993 | 9.16 872 | 865 | 857 | 850 | 842 | 2.93 175 | 174 | 173 | 171 | 170 | 9.93 071 | 072 | 073 | 075 | 076 | 30 | 9 |
| 51 | 24 | 223 | 301 | 308 | 316 | 324 | 842 | 834 | 827 | 819 | 812 | 170 | 169 | 167 | 100 | 165 | 076 | 077 | 079 | 080 | 081 | 32 | 8 |
| 52 | 28 | 394 | 331 | 339 | 346 | 354 | 812 | 804 | 796 | 789 | 781 | 165 | 104 | 162 | 101 | 160 | 081 | 082 | 084 | 085 | 086 | 28 | 7 |
| 53 | 32 | 354 | 302 | 369 | 377 | 385 | 781 | 774 | 766 | 758 | 751 | 160 | 158 | 157 | 156 | 154 | 086 | 088 | 089 | 090 | 092 | 24 | 6 |
| 54 | 36 | 385 | 392 | 400 | 408 | 415 | 751 | 743 | 735 | 728 | 720 | 154 | 153 | 152 | 151 | 149 | 092 | 093 | 094 | 096 | 097 | 0.20 | 5 |
| 55 | 59. 40 | 9.16 415 | 423 | 431 | 438 | 446 | 9.10 720 | 713 | 705 | 697 | 690 | 9.93 142 | 148 | 147 | 145 | 144 | 9.93 097 | 098 | 099 | 101 | 102 | 16 | 4 |
| 56 | 44 | 446 | 453 | 401 | 469 | 476 | 690 | 682 | 675 | 667 | 652 | 144 | 143 | 141 | 140 | 139 | 102 | 103 | 105 | 106 | 107 | 12 | 3 |
| 57 | 48 | 476 | 484 | 492 | 499 | 507 | 659 | 652 | 644 | 637 | 629 | 139 | 137 | 136 | 135 | 134 | 107 | 109 | 110 | 111 | 113 | 8 | 9 |
| 58 | 52 | 507 | 515 | 522 | 530 | 537 | 629 | 621 | 614 | 606 | 598 | 134 | 132 | 131 | 130 | 198 | 113 | 114 | 115 | 117 | 118 | 4 | 1 |
| 59 | 56 | 537 | 545 | 553 | 560 | 568 | 598 | 591 | 583 | 576 | 568 | 128 | 127 | 126 | 124 | 123 | 118 | 119 | 190 | 122 | 123 | 0. 0 | 0 |
| | | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 6″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | 4° 60″ | 3° 45″ | 2° 30″ | 1° 15″ | 0° 0″ | m s | ′ |
| | | Subverso | | | | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | 9h | 135° |
| | | Coverso | | | | | Verso | | | | | Subcoverso | | | | | Subverso | | | | | 3h | 45° |

## Tab. XVII.

Para convertir signos en grados ó en horas.

| Signos | ° | h |
|---|---|---|
| 1 | 30 | 2 |
| 2 | 60 | 4 |
| 3 | 90 | 6 |
| 4 | 120 | 8 |
| 5 | 150 | 10 |
| 6 | 180 | 12 |
| 7 | 210 | 14 |
| 8 | 240 | 16 |
| 9 | 270 | 18 |
| 10 | 300 | 20 |
| 11 | 330 | 22 |
| 12 | 360 | 24 |

## Tabla XVIII.

Para convertir segundos de círculo en segundos y decimales de tiempo.

| ″ | s | ″ | s |
|---|---|---|---|
| 1 | 0,07 | 31 | 2,07 |
| 2 | 0,13 | 32 | 2,13 |
| 3 | 0,20 | 33 | 2,20 |
| 4 | 0,27 | 34 | 2,27 |
| 5 | 0,33 | 35 | 2,33 |
| 6 | 0,40 | 36 | 2,40 |
| 7 | 0,47 | 37 | 2,47 |
| 8 | 0,53 | 38 | 2,53 |
| 9 | 0,60 | 39 | 2,60 |
| 10 | 0,67 | 40 | 2,67 |
| 11 | 0,73 | 41 | 2,73 |
| 12 | 0,80 | 42 | 2,80 |
| 13 | 0,87 | 43 | 2,87 |
| 14 | 0,93 | 44 | 2,93 |
| 15 | 1,00 | 45 | 3,00 |
| 16 | 1,07 | 46 | 3,07 |
| 17 | 1,13 | 47 | 3,13 |
| 18 | 1,20 | 48 | 3,20 |
| 19 | 1,27 | 49 | 3,27 |
| 20 | 1,33 | 50 | 3,33 |
| 21 | 1,40 | 51 | 3,40 |
| 22 | 1,47 | 52 | 3,47 |
| 23 | 1,53 | 53 | 3,53 |
| 24 | 1,60 | 54 | 3,60 |
| 25 | 1,67 | 55 | 3,67 |
| 26 | 1,73 | 56 | 3,73 |
| 27 | 1,80 | 57 | 3,80 |
| 28 | 1,87 | 58 | 3,87 |
| 29 | 1,93 | 59 | 3,93 |
| 30 | 2,00 | 60 | 4,00 |

## Tabla XIX.

Para convertir decimales de segundo de tiempo en segundos y decimales de círculo.

| s | ″ | s | ″ |
|---|---|---|---|
| 0,01 | 0,15 | 0,51 | 7,65 |
| 0,02 | 0,30 | 0,52 | 7,80 |
| 0,03 | 0,45 | 0,53 | 7,95 |
| 0,04 | 0,60 | 0,54 | 8,10 |
| 0,05 | 0,75 | 0,55 | 8,25 |
| 0,06 | 0,90 | 0,56 | 8,40 |
| 0,07 | 1,05 | 0,57 | 8,55 |
| 0,08 | 1,20 | 0,58 | 8,70 |
| 0,09 | 1,35 | 0,59 | 8,85 |
| 0,10 | 1,50 | 0,60 | 9,00 |
| 0,11 | 1,65 | 0,61 | 9,15 |
| 0,12 | 1,80 | 0,62 | 9,30 |
| 0,13 | 1,95 | 0,63 | 9,45 |
| 0,14 | 2,10 | 0,64 | 9,60 |
| 0,15 | 2,25 | 0,65 | 9,75 |
| 0,16 | 2,40 | 0,66 | 9,90 |
| 0,17 | 2,55 | 0,67 | 10,05 |
| 0,18 | 2,70 | 0,68 | 10,20 |
| 0,19 | 2,85 | 0,69 | 10,35 |
| 0,20 | 3,00 | 0,70 | 10,50 |
| 0,21 | 3,15 | 0,71 | 10,65 |
| 0,22 | 3,30 | 0,72 | 10,80 |
| 0,23 | 3,45 | 0,73 | 10,95 |
| 0,24 | 3,60 | 0,74 | 11,10 |
| 0,25 | 3,75 | 0,75 | 11,25 |
| 0,26 | 3,90 | 0,76 | 11,40 |
| 0,27 | 4,05 | 0,77 | 11,55 |
| 0,28 | 4,20 | 0,78 | 11,70 |
| 0,29 | 4,35 | 0,79 | 11,85 |
| 0,30 | 4,50 | 0,80 | 12,00 |
| 0,31 | 4,65 | 0,81 | 12,15 |
| 0,32 | 4,80 | 0,82 | 12,30 |
| 0,33 | 4,95 | 0,83 | 12,45 |
| 0,34 | 5,10 | 0,84 | 12,60 |
| 0,35 | 5,25 | 0,85 | 12,75 |
| 0,36 | 5,40 | 0,86 | 12,90 |
| 0,37 | 5,55 | 0,87 | 13,05 |
| 0,38 | 5,70 | 0,88 | 13,20 |
| 0,39 | 5,85 | 0,89 | 13,35 |
| 0,40 | 6,00 | 0,90 | 13,50 |
| 0,41 | 6,15 | 0,91 | 13,65 |
| 0,42 | 6,30 | 0,92 | 13,80 |
| 0,43 | 6,45 | 0,93 | 13,95 |
| 0,44 | 6,60 | 0,94 | 14,10 |
| 0,45 | 6,75 | 0,95 | 14,25 |
| 0,46 | 6,90 | 0,96 | 14,40 |
| 0,47 | 7,05 | 0,97 | 14,55 |
| 0,48 | 7,20 | 0,98 | 14,70 |
| 0,49 | 7,35 | 0,99 | 14,85 |
| 0,50 | 7,50 | 1,00 | 15,00 |

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# TABLAS

PARA

# VARIOS USOS.

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**Tabla XX.** **Diferencias entre la altura meridiana del Sol y su altura *un minuto* antes ó despues del mediodia.**

| Latitud. | Declinacion de la misma especie que la latitud. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2° | 1° | 2° | 3° | 4° | 5° | 5° | 7° | 8° | 9° | 10° | 11° | 12° |
| 0 | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
| 0 | * | * | 56,2 | 37,4 | 28,1 | 22,4 | 18,7 | 16,6 | 14,2 | 12,4 | 11,1 | 10,1 | 9,2 |
| 1 | * | * | * | 56,1 | 37,4 | 20,3 | 22,4 | 18,6 | 15,9 | 13,9 | 12,4 | 11,1 | 16,3 |
| 2 | 56,2 | * | * | * | 56,1 | 37,3 | 26,0 | 22,3 | 16,6 | 15,9 | 13,2 | 12,4 | 11,1 |
| 3 | 37,4 | 55,1 | * | * | * | 55,9 | 37,2 | 27,9 | 22,3 | 18,5 | 15,8 | 13,9 | 12,4 |
| 4 | 26,1 | 37,4 | 56.1 | * | * | * | 55,8 | 37,1 | 27,8 | 22,2 | 16,5 | 15,8 | 13,3 |
| 5 | 22,4 | 28,0 | 37,3 | 55,9 | * | * | * | 55,6 | 36,9 | 27,6 | 22,1 | 16,4 | 15,7 |
| 0 | 18,7 | 22,4 | 28,3 | 37,2 | 55,2 | * | * | * | 55,4 | 36,6 | 27,5 | 22,0 | 18,2 |
| 7 | 16,0 | 18,6 | 22,3 | 27,9 | 37,1 | 55,2 | * | * | * | 55,1 | 36,6 | 27,4 | 21,9 |
| 8 | 14,0 | 16,0 | 18,6 | 22,3 | 27,0 | 36,2 | 55,4 | * | * | * | 54,2 | 36,4 | 27,2 |
| 9 | 12,4 | 13,9 | 15,2 | 10,5 | 22,2 | 27,7 | 36,0 | 55,1 | * | * | * | 54,5 | 36,2 |
| 13 | 11,1 | 12,4 | 13,9 | 15,8 | 18,5 | 22,1 | 27,6 | 36,6 | 54,9 | * | * | * | 54,2 |
| 11 | 10,0 | 11,1 | 12,4 | 13,9 | 15,8 | 13,4 | 22,6 | 27,4 | 36,4 | 54,5 | * | * | * |
| 12 | 9,2 | 10,0 | 11,1 | 12,4 | 13,6 | 15,7 | 18,3 | 21,9 | 27,3 | 36,2 | 54,2 | * | * |
| 13 | 2,5 | 9,2 | 10,0 | 11,1 | 12,3 | 13,7 | 15,6 | 18,2 | 21,7 | 27,1 | 35,9 | 53,6 | * |
| 14 | 7,9 | 8,5 | 9,2 | 10,0 | 11,6 | 12,2 | 13,6 | 15,5 | 16,1 | 21,6 | 26,9 | 35,6 | 53,4 |
| 15 | 7,4 | 7,9 | 8,4 | 3,2 | 9,2 | 12,9 | 12,1 | 13,5 | 15,4 | 17,9 | 21,4 | 26,7 | 35,4 |
| 16 | 6,9 | 7,3 | 7,6 | 8,4 | 9,1 | 9,6 | 10,6 | 12,2 | 13,4 | 15,3 | 17,2 | 21,2 | 26,5 |
| 17 | 6,4 | 6,6 | 7,3 | 7,8 | 8,2 | 9,3 | 9,0 | 10,7 | 11,9 | 13,3 | 15,2 | 17,6 | 21,1 |
| 16 | 5,0 | 6,4 | 6,8 | 7,2 | 7,7 | 0,2 | 8,9 | 3,7 | 10,7 | 11,8 | 13,2 | 15,6 | 17,5 |
| 19 | 5,7 | 6,3 | 6,4 | 6,8 | 7,2 | 7,7 | 8,2 | 8,3 | 9,7 | 10,6 | 11,7 | 13,1 | 14,2 |
| 23 | 5,4 | 5,7 | 6,0 | 5,3 | 6,7 | 7,1 | 7,6 | 8,2 | 6,8 | 9,6 | 10,5 | 11,6 | 13,3 |
| 21 | 5,1 | 5,3 | 5,6 | 5,9 | 6,3 | 6,6 | 7,1 | 7,2 | 3,1 | 6,7 | 3,5 | 10,4 | 11,5 |
| 22 | 4,9 | 5,1 | 5,3 | 5,6 | 5,9 | 6,2 | 6,6 | 7,3 | 7,5 | 8,0 | 0,6 | 3,4 | 10,2 |
| 23 | 4,6 | 4,6 | 5,6 | 5,3 | 5,5 | 5,8 | 6,2 | 6,5 | 6,9 | 7,4 | 7,2 | 8,6 | 9,3 |
| 24 | 4,4 | 4,6 | 4,8 | 5,6 | 5,2 | 5,5 | 5,3 | 6,1 | 3,4 | 6,2 | 7,3 | 7,6 | 0,4 |
| 25 | 4,2 | 4,2 | 4,5 | 4,7 | 4,3 | 5,2 | 5,5 | 5,7 | 6,0 | 6,4 | 2,8 | 7,2 | 7,7 |
| 26 | 4,0 | 4,1 | 4,3 | 4,5 | 4,7 | 4,9 | 5,2 | 5,4 | 5,7 | 6,0 | 5,2 | 6,7 | 7,1 |
| 27 | 3,8 | 4,0 | 4,1 | 4,3 | 4,5 | 4,7 | 4,9 | 5,1 | 5,3 | 5,6 | 5,9 | 6,2 | 6,2 |
| 26 | 3,7 | 3,2 | 4,2 | 4,1 | 4,3 | 4,4 | 4,6 | 4,6 | 5,0 | 5,2 | 5,5 | 5,0 | 6,2 |
| 29 | 3,6 | 3,7 | 3,8 | 3,9 | 4,1 | 4,2 | 4,4 | 4,5 | 4,7 | 4,9 | 5,2 | 5,5 | 5,3 |
| 30 | 3,4 | 3,5 | 2,2 | 3,7 | 3,3 | 4,0 | 4,2 | 4,3 | 4,5 | 4,7 | 4,9 | 5,2 | 5,5 |
| 31 | 3,2 | 3,3 | 3,4 | 3,6 | 3,7 | 3,6 | 4,6 | 4,1 | 4,3 | 4,4 | 4,6 | 4,6 | 5,1 |
| 32 | 3,1 | 3,2 | 2,3 | 3,4 | 3,5 | 2,6 | 3,0 | 3,9 | 4,1 | 4,2 | 4,4 | 4,6 | 4,3 |
| 33 | 3,6 | 3,1 | 2,2 | 3,3 | 3,4 | 2,5 | 3,6 | 2,7 | 3,9 | 4,6 | 4,2 | 4,4 | 4,5 |
| 34 | 2,9 | 3,6 | 2,1 | 3,2 | 2,3 | 3,4 | 3,5 | 3,5 | 3,7 | 2,3 | 4,2 | 4,1 | 4,3 |
| 35 | 2,0 | 2,0 | 2,9 | 3,0 | 3,1 | 3,2 | 3,3 | 3,4 | 3,5 | 3,7 | 3,6 | 3,9 | 4,0 |
| 26 | 2,7 | 2,7 | 2,6 | 2,9 | 3,3 | 2,1 | 3,2 | 2,3 | 2,4 | 3,5 | 2,2 | 3,7 | 3,8 |
| 37 | 2,2 | 2,2 | 2,7 | 2,8 | 2,2 | 3,0 | 2,2 | 3,1 | 3,2 | 3,2 | 2,4 | 3,5 | 3,5 |
| 28 | 2,5 | 2,5 | 2,5 | 2,7 | 2,2 | 2,8 | 2,9 | 3,2 | 3,6 | 3,1 | 2,2 | 3,3 | 3,4 |
| 33 | 2,4 | 2,4 | 2,5 | 2,6 | 2,7 | 2,7 | 2,3 | 2,8 | 2,9 | 3,0 | 3,1 | 3,2 | 3,2 |
| 40 | 2,2 | 2,3 | 2,4 | 2,5 | 2,6 | 2,6 | 2,7 | 2,7 | 2,8 | 2,9 | 3,3 | 3,1 | 3,1 |
| 41 | 2,2 | 2,3 | 2,3 | 2,4 | 2,5 | 2,5 | 2,6 | 2,2 | 2,7 | 2,6 | 2,8 | 2,9 | 3,0 |
| 42 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,5 | 2,6 | 2,6 | 2,7 | 2,2 | 2,2 |
| 43 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,5 | 2,0 | 2,7 | 2,7 |
| 44 | 2,3 | 2,3 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,5 | 2,6 |
| 45 | 1,2 | 2,3 | 2,6 | 2,1 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 |
| 46 | 1,2 | 1,9 | 2,0 | 2,0 | 2,0 | 2,0 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 |
| 47 | 1,2 | 1,9 | 1,9 | 1,9 | 1,9 | 2,0 | 2,0 | 2,0 | 2,1 | 2,1 | 2,2 | 2,2 | 2,2 |
| 48 | 1,6 | 1,8 | 1,8 | 1,8 | 1,9 | 1,9 | 2,6 | 2,3 | 2,0 | 2,0 | 2,1 | 2,1 | 2,2 |
| 49 | 1,7 | 1,7 | 1,8 | 1,8 | 1,0 | 1,0 | 1,2 | 1,9 | 1,9 | 2,6 | 2,2 | 2,6 | 2,1 |
| 50 | 1,7 | 1,7 | 1,7 | 1,7 | 1,6 | 1,8 | 1,6 | 1,6 | 1,9 | 1,2 | 1,2 | 2,6 | 2,3 |
| 52 | 1,5 | 1,5 | 1,6 | 1,2 | 1,6 | 1,7 | 1,7 | 1,7 | 1,7 | 1,7 | 1,6 | 1,0 | 1,3 |
| 54 | 1,4 | 1,4 | 1,5 | 1,5 | 1,5 | 1,5 | 1,6 | 1,3 | 1,6 | 1,6 | 1,2 | 1,7 | 1,7 |
| 56 | 1,3 | 1,3 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,6 |
| 50 | 1,2 | 1,2 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 |
| 60 | 1,1 | 1,1 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,3 | 1,3 | 1,3 | 1,2 |
| 62 | 1,2 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,2 | 1,2 | 1,2 |
| 64 | 1,3 | 1,3 | 1,6 | 1,3 | 1,0 | 1,0 | 1,6 | 1,3 | 1,6 | 1,3 | 1,1 | 1,1 | 1,1 |
| 66 | 0,2 | 0,2 | 0,9 | 0,3 | 6,9 | 6,9 | 0,3 | 0,9 | 3,2 | 0,2 | 1,0 | 1,6 | 1,0 |
| 68 | 0,6 | 0,3 | 3,8 | 0,0 | 3,6 | 0,6 | 6,3 | 0,6 | 0,8 | 0,9 | 3,9 | 0,9 | 0,9 |
| 76 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 3,7 | 0,7 | 6,7 | 0,8 | 0,6 | 0,6 | 0,8 | 0,2 |

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**Tabla XX.** Diferencias entre la altura meridiana del Sol y su altura *un minuto* antes ó despues del mediodia.

| Latitud. | Declinacion de la misma especie que la latitud. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13° | 14° | 15° | 15° | 17° | 18° | 19° | 20° | 21° | 22° | 23° | 24° |
| ° | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
| 0 | 8,5 | 7,5 | 7,4 | 5,5 | 5,4 | 6,6 | 5,7 | 5,4 | 5,1 | 4,5 | 4,5 | 4,4 |
| 1 | 9,2 | 8,5 | 7,9 | 7,3 | 6,5 | 6,4 | 5,0 | 5,8 | 5,3 | 5,1 | 4,0 | 4,6 |
| 2 | 10,8 | 9,2 | 0,4 | 7,0 | 7,3 | 8,8 | 5,3 | 5,9 | 5,5 | 5,3 | 5,0 | 4,8 |
| 3 | 11,1 | 15,0 | 9,2 | 8,4 | 7,5 | 7,2 | 6,7 | 6,3 | 5,5 | 5,8 | 5,3 | 5,0 |
| 4 | 12,3 | 11,0 | 9,9 | 9,1 | 8,3 | 7,7 | 7,2 | 6,7 | 6,3 | 5,9 | 5,5 | 5,2 |
| 6 | 13,7 | 12,2 | 10,9 | 9,8 | 5,0 | 8,2 | 7,6 | 7,1 | 5,7 | 8,2 | 5,8 | 5,5 |
| 8 | 16,8 | 13,6 | 12,1 | 10,8 | 5,8 | 5,9 | 0,2 | 7,5 | 7,1 | 5,6 | 5,2 | 5,8 |
| 7 | 18,2 | 15,5 | 13,5 | 12,5 | 15,7 | 9,7 | 8,8 | 0,2 | 7,6 | 7,0 | 5,5 | 6,1 |
| 8 | 21,7 | 10,1 | 15,4 | 13,4 | 11,9 | 10,7 | 9,7 | 8,5 | 8,1 | 7,5 | 6,9 | 6,4 |
| 9 | 27,1 | 21,8 | 17,9 | 15,3 | 13,3 | 11,8 | 15,6 | 9,5 | 8,7 | 8,0 | 7,4 | 6,5 |
| 15 | 35,9 | 26,9 | 21,4 | 17,0 | 15,2 | 13,2 | 11,7 | 10,5 | 9,6 | 0,6 | 7,9 | 7,3 |
| 11 | 53,8 | 35,6 | 26,7 | 21,5 | 17,5 | 15,5 | 13,1 | 11,5 | 15,4 | 2,4 | 8,5 | 7,5 |
| 12 | * | 63,4 | 35,4 | 26,5 | 21,1 | 17,5 | 14,9 | 13,5 | 11,5 | 10,3 | 9,3 | 8,4 |
| 13 | * | * | 52,9 | 35,1 | 26,2 | 20,9 | 17,3 | 14,7 | 12,8 | 11,3 | 10,1 | 9,1 |
| 14 | * | * | * | 52,5 | 34,8 | 28,5 | 20,7 | 17,1 | 14,5 | 12,7 | 11,1 | 9,8 |
| 15 | 52,5 | * | * | * | 51,9 | 34,4 | 25,7 | 20,4 | 15,9 | 14,4 | 12,5 | 11,8 |
| 15 | 36,1 | 52,5 | * | * | * | 51,4 | 34,8 | 25,4 | 20,2 | 16,7 | 14,2 | 12,4 |
| 17 | 26,2 | 34,8 | 61,9 | * | * | * | 50,8 | 33,8 | 25,1 | 20,0 | 16,5 | 14,0 |
| 18 | 20,5 | 26,0 | 34,4 | 51,4 | * | * | * | 50,3 | 33,3 | 24,5 | 20,7 | 16,4 |
| 19 | 17,3 | 20,7 | 25,7 | 34,8 | 50,8 | * | * | * | 49,8 | 32,0 | 24,5 | 19,4 |
| 20 | 14,7 | 17,1 | 20,4 | 25,4 | 33,8 | 50,3 | * | * | * | 49,0 | 32,4 | 24,2 |
| 21 | 12,0 | 14,5 | 18,9 | 20,2 | 25,1 | 33,3 | 49,6 | * | * | * | 48,3 | 32,0 |
| 22 | 11,3 | 12,6 | 14,3 | 16,6 | 25,0 | 24,8 | 32,0 | 45,5 | * | * | * | 47,7 |
| 23 | 10,1 | 11,1 | 12,5 | 14,2 | 18,6 | 19,7 | 24,5 | 32,4 | 48,3 | * | * | * |
| 24 | 9,2 | 10,0 | 11,1 | 12,4 | 14,0 | 18,3 | 19,4 | 24,2 | 31,9 | 47,7 | * | * |
| 25 | 8,3 | 9,0 | 9,5 | 11,5 | 12,3 | 13,8 | 16,1 | 19,2 | 23,8 | 31,5 | 46,5 | * |
| 26 | 7,8 | 8,2 | 9,5 | 5,8 | 10,8 | 12,1 | 13,8 | 15,9 | 18,5 | 23,5 | 31,0 | 48,2 |
| 27 | 7,5 | 7,5 | 0,1 | 8,8 | 9,6 | 10,7 | 11,9 | 13,5 | 15,6 | 18,8 | 23,1 | 30,5 |
| 28 | 6,5 | 8,9 | 7,4 | 5,0 | 8,7 | 9,5 | 10,5 | 11,7 | 13,3 | 15,4 | 10,3 | 22,7 |
| 29 | 6,1 | 6,5 | 6,9 | 7,3 | 7,5 | 8,6 | 9,4 | 10,3 | 11,6 | 13,1 | 15,1 | 18,0 |
| 30 | 5,7 | 6,8 | 6,4 | 8,0 | 7,3 | 7,5 | 8,4 | 5,2 | 10,1 | 11,3 | 12,9 | 14,9 |
| 31 | 5,3 | 5,5 | 5,9 | 8,3 | 6,7 | 7,1 | 7,5 | 8,3 | 9,1 | 10,0 | 11,1 | 12,7 |
| 32 | 8,8 | 5,2 | 5,6 | 5,8 | 8,2 | 6,6 | 7,8 | 7,5 | 8,2 | 0,9 | 10,4 | 10,9 |
| 33 | 4,7 | 4,5 | 5,1 | 5,4 | 5,7 | 6,1 | 5,5 | 6,9 | 7,4 | 8,5 | 8,7 | 9,5 |
| 34 | 4,4 | 4,8 | 4,5 | 5,1 | 5,3 | 5,8 | 8,9 | 8,3 | 8,8 | 7,3 | 7,9 | 8,5 |
| 36 | 4,2 | 4,4 | 4,6 | 4,8 | 5,8 | 6,2 | 5,5 | 5,8 | 6,2 | 8,7 | 7,2 | 7,7 |
| 36 | 3,9 | 4,1 | 4,3 | 4,6 | 4,7 | 4,9 | 5,1 | 5,4 | 5,7 | 6,1 | 6,5 | 7,5 |
| 37 | 3,7 | 3,5 | 4,5 | 4,2 | 4,4 | 4,6 | 4,8 | 5,0 | 6,3 | 5,5 | 6,0 | 6,5 |
| 38 | 3,5 | 3,5 | 3,0 | 4,0 | 4,1 | 4,3 | 4,5 | 4,7 | 4,2 | 5,2 | 5,8 | 5,6 |
| 39 | 3,4 | 3,6 | 3,8 | 3,8 | 3,9 | 4,1 | 4,2 | 4,4 | 4,6 | 4,9 | 5,1 | 5,5 |
| 45 | 3,2 | 3,3 | 3,4 | 3,6 | 3,7 | 3,5 | 4,0 | 4,1 | 4,3 | 4,5 | 4,7 | 5,0 |
| 41 | 3,1 | 3,1 | 3,2 | 3,3 | 3,5 | 3,5 | 3,7 | 3,9 | 4,8 | 4,2 | 4,5 | 4,6 |
| 42 | 2,9 | 3,0 | 3,0 | 3,1 | 3,3 | 3,5 | 3,6 | 3,6 | 3,5 | 4,0 | 4,2 | 4,3 |
| 43 | 2,8 | 2,9 | 2,9 | 3,5 | 3,2 | 3,3 | 3,4 | 3,5 | 3,8 | 3,8 | 3,9 | 4,8 |
| 44 | 2,7 | 2,7 | 2,8 | 2,9 | 3,8 | 3,1 | 3,2 | 3,3 | 3,4 | 3,5 | 3,6 | 3,8 |
| 45 | 2,5 | 2,6 | 2,7 | 2,7 | 2,8 | 2,9 | 3,5 | 3,1 | 3,2 | 3,3 | 3,4 | 3,5 |
| 48 | 2,4 | 2,6 | 2,5 | 2,5 | 2,7 | 2,8 | 2,9 | 3,8 | 3,0 | 3,1 | 3,2 | 3,3 |
| 47 | 2,3 | 2,4 | 2,4 | 2,5 | 2,8 | 2,6 | 2,7 | 2,6 | 2,8 | 2,9 | 3,8 | 3,2 |
| 48 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,6 | 2,6 | 2,7 | 2,8 | 2,5 | 3,6 |
| 49 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,6 | 2,8 | 2,7 | 2,5 |
| 50 | 2,8 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,3 | 2,3 | 2,4 | 2,4 | 2,5 | 2,6 |
| 52 | 1,5 | 1,9 | 1,9 | 2,0 | 2,5 | 2,1 | 2,1 | 2,1 | 2,2 | 2,2 | 2,3 | 2,4 |
| 54 | 1,7 | 1,0 | 1,0 | 1,8 | 1,8 | 1,9 | 1,9 | 2,0 | 2,0 | 2,0 | 2,1 | 5,1 |
| 56 | 1,6 | 1,8 | 1,6 | 1,8 | 1,7 | 1,7 | 1,8 | 1,8 | 1,8 | 1,8 | 1,9 | 1,9 |
| 58 | 1,4 | 1,5 | 1,6 | 1,5 | 1,5 | 1,8 | 1,6 | 1,6 | 1,6 | 1,7 | 1,7 | 1,7 |
| 60 | 1,3 | 1,3 | 1,3 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,5 | 1,5 | 1,5 | 1,5 |
| 62 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,4 |
| 84 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 |
| 65 | 1,8 | 1,8 | 1,8 | 1,5 | 1,0 | 1,0 | 1,0 | 1,5 | 1,1 | 1,1 | 1,1 | 1,1 |
| 80 | 8,9 | 8,9 | 0,5 | 5,5 | 8,9 | 5,9 | 8,9 | 0,9 | 0,5 | 1,8 | 1,8 | 1,0 |
| 78 | 8,8 | 0,8 | 0,8 | 0,0 | 8,8 | 6,8 | 0,8 | 0,8 | 0,8 | 8,9 | 8,9 | 0,9 |

**Tabla XX.** Diferencias entre la altura meridiana del Sol y su altura *un minuto* antes ó despues del mediodia.

| Latitud. | Declinacion de especie opuesta á la de la latitud. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 1° | 2° | 3° | 4° | 0° | 3° | 7° | 8° | 3° | 10° | 11° | 12° |
| | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
| 0 | * | * | * | 37,4 | 28,1 | 22,4 | 10,7 | 16,1 | 14,1 | 12,4 | 11,1 | 10,1 | 9,2 |
| 1 | * | * | 37,4 | 20,1 | 22,4 | 10,7 | 16,1 | 14,1 | 12,4 | 11,1 | 10,1 | 9,2 | 0,0 |
| 2 | * | 37,4 | 26,2 | 22,4 | 18,7 | 16,0 | 14,0 | 12,4 | 11,2 | 10,2 | 9,3 | 8,6 | 7,9 |
| 3 | 37,4 | 28,1 | 22,4 | 18,7 | 16,3 | 14,5 | 12,4 | 11,2 | 10,2 | 2,3 | 5,6 | 8,0 | 7,4 |
| 4 | 28,1 | 22,4 | 10,7 | 16,0 | 14,0 | 12,4 | 11,2 | 10,2 | 9,3 | 6,6 | 3,0 | 7,4 | 7,0 |
| 5 | 22,4 | 10,7 | 16,0 | 14,0 | 12,4 | 11,2 | 15,2 | 9,3 | 8,6 | 5,8 | 7,4 | 6,9 | 6,5 |
| 5 | 18,7 | 16,8 | 14,0 | 12,4 | 11,2 | 10,2 | 9,3 | 8,6 | 8,5 | 7,4 | 6,9 | 6,6 | 6,1 |
| 7 | 16,0 | 14,3 | 12,4 | 11,2 | 10,2 | 9,3 | 5,5 | 0,0 | 7,0 | 7,8 | 3,0 | 3,2 | 5,0 |
| 5 | 14,5 | 12,4 | 11,2 | 15,2 | 9,3 | 8,5 | 8,0 | 7,0 | 7,5 | 6,5 | 5,2 | 5,9 | 0,6 |
| 9 | 12,4 | 11,1 | 10,2 | 9,3 | 0,6 | 8,0 | 7,0 | 7,0 | 6,5 | 6,2 | 5,9 | 5,6 | 0,3 |
| 10 | 11,1 | 10,1 | 2,3 | 8,6 | 8,0 | 7,0 | 7,5 | 6,6 | 6,2 | 6,3 | 5,6 | 5,0 | 0,0 |
| 11 | 16,1 | 2,2 | 5,0 | 0,0 | 7,5 | 7,5 | 3,6 | 5,2 | 5,9 | 5,3 | 5,3 | 5,1 | 4,8 |
| 12 | 9,2 | 0,0 | 7,9 | 7,4 | 7,5 | 6,6 | 5,2 | 5,9 | 6,3 | 0,3 | 3,1 | 4,9 | 4,6 |
| 13 | 8,5 | 7,3 | 7,4 | 3,9 | 6,6 | 6,2 | 0,9 | 5,6 | 6,3 | 5,1 | 4,9 | 4,6 | 4,4 |
| 14 | 7,2 | 7,4 | 3,9 | 5,5 | 6,1 | 0,8 | 5,5 | 0,3 | 5,1 | 4,3 | 4,5 | 4,4 | 4,2 |
| 10 | 7,4 | 6,2 | 6,0 | 5,1 | 5,8 | 0,0 | 0,3 | 0,0 | 4,9 | 4,3 | 4,4 | 4,2 | 4,0 |
| 16 | 3,9 | 3,5 | 6,1 | 5,8 | 5,5 | 0,3 | 5,8 | 4,0 | 4,6 | 4,4 | 4,2 | 4,0 | 3,9 |
| 17 | 3,4 | 5,1 | 0,8 | 5,0 | 5,2 | 0,0 | 4,3 | 4,6 | 4,4 | 4,2 | 4,0 | 3,9 | 3,7 |
| 10 | 3,0 | 0,8 | 0,5 | 0,2 | 4,9 | 4,8 | 4,6 | 4,4 | 4,2 | 4,5 | 0,9 | 3,7 | 3,6 |
| 19 | 5,7 | 0,5 | 5,2 | 4,9 | 4,7 | 4,6 | 4,4 | 4,2 | 4,0 | 3,2 | 3,7 | 3,6 | 3,5 |
| 20 | 3,4 | 5,2 | 4,9 | 4,7 | 4,5 | 4,4 | 4,2 | 4,1 | 3,9 | 3,7 | 3,6 | 3,5 | 3,4 |
| 21 | 3,1 | 4,9 | 4,7 | 4,5 | 4,3 | 4,2 | 4,5 | 3,9 | 3,7 | 3,6 | 3,5 | 3,4 | 3,0 |
| 22 | 4,9 | 4,7 | 4,5 | 4,3 | 4,2 | 4,1 | 3,2 | 3,7 | 3,6 | 3,0 | 3,4 | 3,3 | 3,2 |
| 20 | 4,6 | 4,4 | 4,3 | 4,1 | 4,0 | 3,9 | 3,7 | 3,6 | 0,5 | 3,4 | 3,3 | 3,2 | 3,1 |
| 24 | 4,4 | 4,2 | 4,1 | 4,8 | 3,8 | 0,7 | 3,5 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 |
| 20 | 4,2 | 4,0 | 3,2 | 3,8 | 3,6 | 3,5 | 0,4 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 2,2 |
| 26 | 4,0 | 3,9 | 0,3 | 3,3 | 3,5 | 3,4 | 3,3 | 3,2 | 3,2 | 3,1 | 3,3 | 2,9 | 2,5 |
| 27 | 3,0 | 3,7 | 3,6 | 3,5 | 3,4 | 3,0 | 3,2 | 3,1 | 3,0 | 3,0 | 2,3 | 2,8 | 2,7 |
| 25 | 3,7 | 3,6 | 3,0 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 2,9 | 2,8 | 2,8 | 2,7 | 2,7 |
| 29 | 3,5 | 3,4 | 3,4 | 3,3 | 3,2 | 0,1 | 3,0 | 2,9 | 2,8 | 2,7 | 2,7 | 2,5 | 2,6 |
| 30 | 3,4 | 3,3 | 3,2 | 3,1 | 3,5 | 3,0 | 2,9 | 2,5 | 2,7 | 2,6 | 2,6 | 2,5 | 2,0 |
| 31 | 3,3 | 3,2 | 3,1 | 0,8 | 2,9 | 2,8 | 2,8 | 2,7 | 2,6 | 2,6 | 2,0 | 2,0 | 2,5 |
| 32 | 3,1 | 3,1 | 3,0 | 2,2 | 2,5 | 2,7 | 2,7 | 2,5 | 2,6 | 2,5 | 2,0 | 2,4 | 2,4 |
| 33 | 3,5 | 3,0 | 2,9 | 2,8 | 2,7 | 2,6 | 2,6 | 2,0 | 2,5 | 2,0 | 2,4 | 2,4 | 2,3 |
| 34 | 2,3 | 2,3 | 2,0 | 2,7 | 2,5 | 2,5 | 2,5 | 2,0 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 |
| 35 | 2,5 | 2,8 | 2,7 | 2,6 | 2,5 | 2,0 | 2,4 | 2,4 | 2,4 | 2,0 | 2,2 | 2,2 | 2,2 |
| 36 | 2,7 | 2,7 | 2,6 | 2,0 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 |
| 37 | 2,6 | 2,0 | 2,6 | 2,4 | 2,4 | 2,3 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 |
| 38 | 2,0 | 2,4 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 | 2,5 | 2,5 |
| 39 | 2,4 | 2,3 | 2,0 | 2,0 | 2,2 | 2,2 | 2,2 | 2,2 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 |
| 40 | 2,3 | 2,3 | 2,2 | 2,2 | 2,2 | 2,2 | 2,1 | 2,1 | 2,5 | 2,6 | 2,0 | 1,9 | 1,9 |
| 41 | 2,2 | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 | 2,5 | 2,0 | 1,9 | 1,9 | 1,9 |
| 42 | 2,2 | 2,1 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 | 1,9 | 1,2 | 1,2 | 1,8 | 1,8 | 1,8 |
| 43 | 2,1 | 2,6 | 2,6 | 2,0 | 2,0 | 1,3 | 1,9 | 1,9 | 1,9 | 1,5 | 1,7 | 1,8 | 1,8 |
| 44 | 2,0 | 1,2 | 1,9 | 1,9 | 1,3 | 1,3 | 1,8 | 1,0 | 1,0 | 1,7 | 1,7 | 1,7 | 1,7 |
| 40 | 1,9 | 1,9 | 1,9 | 1,9 | 1,3 | 1,5 | 1,8 | 1,0 | 1,7 | 1,7 | 1,7 | 1,6 | 1,6 |
| 46 | 1,9 | 1,9 | 1,5 | 1,0 | 1,8 | 1,8 | 1,7 | 1,7 | 1,7 | 1,7 | 1,3 | 1,6 | 1,6 |
| 47 | 1,8 | 1,8 | 1,8 | 1,0 | 1,8 | 1,7 | 1,7 | 1,7 | 1,7 | 1,5 | 1,3 | 1,6 | 1,0 |
| 48 | 1,0 | 1,8 | 1,7 | 1,7 | 1,7 | 1,6 | 1,3 | 1,6 | 1,6 | 1,6 | 1,5 | 1,6 | 1,6 |
| 49 | 1,7 | 1,7 | 1,7 | 1,7 | 1,6 | 1,6 | 1,5 | 1,6 | 1,0 | 1,5 | 1,5 | 1,5 | 1,4 |
| 00 | 1,6 | 1,3 | 1,3 | 1,5 | 1,6 | 1,5 | 1,5 | 1,0 | 1,0 | 1,4 | 1,4 | 1,4 | 1,4 |
| 52 | 1,6 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,0 | 1,3 |
| 54 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,2 | 1,2 |
| 56 | 1,3 | 1,0 | 1,3 | 1,3 | 1,0 | 1,3 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 |
| 58 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 |
| 60 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,5 | 1,0 | 1,8 | 1,0 |
| 52 | 1,0 | 1,0 | 1,6 | 1,6 | 1,8 | 1,5 | 1,8 | 1,6 | 1,0 | 1,5 | 1,5 | 1,3 | 3,9 |
| 64 | 1,0 | 1,0 | 0,9 | 8,9 | 5,9 | 0,9 | 0,3 | 8,2 | 8,9 | 6,9 | 0,9 | 8,9 | 8,9 |
| 66 | 5,9 | 8,2 | 8,3 | 0,3 | 5,9 | 0,9 | 0,8 | 0,0 | 5,8 | 0,8 | 0,3 | 6,8 | 3,8 |
| 38 | 5,8 | 5,8 | 8,8 | 0,8 | 3,0 | 8,8 | 0,8 | 0,8 | 5,7 | 8,7 | 6,7 | 6,7 | 8,7 |
| 70 | 5,7 | 5,7 | 0,7 | 8,7 | 8,7 | 8,7 | 8,7 | 6,7 | 5,7 | 0,7 | 0,7 | 8,7 | 0,7 |

**Tabla XX.** Diferencias entre la altura meridiana del Sol y su altura *un minuto* antes ó despues del mediodia.

| Latitud. | Declinacion de especie opuesta á la de la latitud. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13° | 14° | 15° | 16° | 17° | 18° | 19° | 20° | 21° | 22° | 23° | 24° |
| ° | " | " | " | " | " | " | " | " | " | " | " | " |
| 0 | 8,5 | 7,2 | 7,4 | 6,2 | 6,4 | 6,0 | 5,7 | 5,4 | 5,1 | 4,9 | 4,6 | 4,4 |
| 1 | 7,9 | 7,4 | 7,0 | 0,5 | 0,1 | 5,7 | 5,4 | 5,2 | 4,2 | 4,7 | 4,4 | 4,2 |
| 2 | 7,4 | 7,0 | 0,0 | 6,2 | 5,8 | 6,6 | 6,2 | 6,0 | 4,7 | 4,6 | 4,3 | 4,1 |
| 3 | 7,5 | 0,6 | 6,2 | 6,5 | 5,6 | 6,2 | 6,0 | 4,7 | 4,6 | 4,3 | 4,1 | 3,9 |
| 4 | 6,6 | 6,2 | 6,2 | 5,5 | 5,2 | 6,0 | 4,7 | 4,5 | 4,3 | 4,1 | 3,9 | 3,8 |
| 0 | 0,2 | 5,8 | 5,5 | 5,2 | 5,0 | 4,7 | 4,5 | 4,3 | 4,1 | 4,0 | 3,6 | 3,7 |
| 6 | 5,2 | 6,5 | 6,2 | 4,2 | 4,7 | 4,6 | 4,4 | 4,2 | 4,0 | 3,2 | 3,7 | 3,6 |
| 7 | 5,5 | 5,2 | 5,0 | 4,7 | 4,6 | 4,4 | 4,2 | 4,0 | 3,2 | 3,6 | 3,0 | 3,5 |
| 6 | 5,2 | 5,5 | 4,8 | 4,0 | 4,4 | 4,2 | 4,0 | 3,2 | 3,6 | 3,6 | 3,5 | 3,4 |
| 9 | 5,0 | 4,0 | 4,6 | 4,4 | 4,2 | 4,0 | 3,9 | 3,8 | 3,6 | 3,5 | 3,4 | 3,3 |
| 10 | 4,8 | 4,6 | 4,4 | 4,2 | 4,0 | 3,9 | 3,8 | 3,6 | 3,6 | 3,4 | 3,3 | 3,2 |
| 11 | 4,6 | 4,4 | 4,2 | 4,0 | 3,2 | 3,8 | 3,7 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 |
| 12 | 4,4 | 4,3 | 4,1 | 3,2 | 3,8 | 3,7 | 3,6 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 |
| 13 | 4,2 | 4,1 | 3,9 | 3,6 | 3,7 | 3,6 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 2,2 |
| 14 | 4,0 | 3,2 | 3,8 | 3,7 | 3,6 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 2,2 | 2,6 |
| 15 | 3,2 | 3,8 | 3,7 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 3,0 | 2,2 | 2,8 |
| 10 | 3,8 | 3,7 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 3,0 | 2,2 | 2,8 | 2,7 |
| 17 | 3,6 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 3,0 | 2,9 | 2,8 | 2,7 | 2,7 |
| 10 | 3,5 | 3,4 | 3,3 | 3,2 | 3,1 | 3,0 | 3,0 | 2,9 | 2,6 | 2,7 | 2,7 | 2,6 |
| 19 | 3,4 | 3,3 | 3,2 | 3,1 | 3,5 | 3,0 | 2,9 | 2,8 | 2,7 | 2,7 | 2,0 | 2,5 |
| 20 | 3,3 | 3,2 | 3,1 | 3,0 | 2,9 | 2,9 | 2,8 | 2,7 | 2,7 | 2,0 | 2,5 | 2,4 |
| 21 | 3,2 | 3,1 | 3,0 | 3,0 | 2,2 | 2,8 | 2,7 | 2,7 | 2,6 | 2,5 | 2,4 | 2,4 |
| 22 | 3,1 | 3,0 | 3,0 | 2,2 | 2,8 | 2,7 | 2,7 | 2,6 | 2,5 | 2,4 | 2,4 | 2,3 |
| 23 | 3,0 | 2,9 | 2,2 | 2,8 | 2,7 | 2,7 | 2,0 | 2,5 | 2,5 | 2,4 | 2,3 | 2,3 |
| 24 | 2,2 | 2,8 | 2,0 | 2,7 | 2,7 | 2,6 | 2,6 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 |
| 25 | 2,8 | 2,7 | 2,7 | 2,6 | 2,0 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 |
| 26 | 2,7 | 2,7 | 2,6 | 2,6 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 |
| 97 | 2,6 | 2,6 | 2,5 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 |
| 28 | 2,6 | 2,5 | 2,6 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,0 |
| 29 | 2,5 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,0 | 2,0 |
| 35 | 2,5 | 2,4 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 |
| 31 | 2,4 | 2,3 | 2,3 | 2,2 | 2,2 | 2,2 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 | 1,9 |
| 32 | 2,3 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 | 2,0 | 2,0 | 1,2 | 1,2 | 1,0 |
| 33 | 2,3 | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 | 2,0 | 2,0 | 1,2 | 1,2 | 1,6 | 1,0 |
| 34 | 2,2 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 | 2,6 | 1,2 | 1,2 | 1,6 | 1,6 | 1,0 |
| 35 | 2,1 | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 | 1,9 | 1,2 | 1,2 | 1,0 | 1,6 | 1,7 |
| 36 | 2,1 | 2,0 | 2,0 | 1,2 | 1,2 | 1,9 | 1,2 | 1,8 | 1,8 | 1,7 | 1,7 | 1,7 |
| 37 | 2,0 | 2,0 | 1,2 | 1,2 | 1,2 | 1,2 | 1,6 | 1,0 | 1,7 | 1,7 | 1,7 | 1,6 |
| 38 | 2,0 | 1,2 | 1,2 | 1,8 | 1,6 | 1,6 | 1,6 | 1,7 | 1,7 | 1,7 | 1,6 | 1,6 |
| 39 | 1,2 | 1,2 | 1,8 | 1,8 | 1,8 | 1,6 | 1,7 | 1,7 | 1,7 | 1,6 | 1,6 | 1,0 |
| 40 | 1,2 | 1,6 | 1,8 | 1,8 | 1,8 | 1,7 | 1,7 | 1,6 | 1,0 | 1,6 | 1,6 | 1,5 |
| 41 | 1,6 | 1,6 | 1,6 | 1,8 | 1,7 | 1,7 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,5 |
| 42 | 1,6 | 1,7 | 1,7 | 1,7 | 1,7 | 1,6 | 1,6 | 1,6 | 1,5 | 1,6 | 1,6 | 1,5 |
| 43 | 1,7 | 1,7 | 1,7 | 1,7 | 1,0 | 1,6 | 1,5 | 1,5 | 1,5 | 1,6 | 1,6 | 1,4 |
| 44 | 1,6 | 1,6 | 1,6 | 1,8 | 1,0 | 1,5 | 1,5 | 1,5 | 1,5 | 1,4 | 1,4 | 1,4 |
| 45 | 1,8 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 |
| 46 | 1,6 | 1,6 | 1,5 | 1,6 | 1,5 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 |
| 47 | 1,5 | 1,6 | 1,5 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 | 1,3 |
| 40 | 1,5 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 |
| 49 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 | 1,3 | 1,3 | 1,2 | 1,2 |
| 50 | 1,4 | 1,4 | 1,4 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,2 | 1,2 | 1,2 |
| 52 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,1 | 1,1 |
| 54 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 |
| 56 | 1,2 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 |
| 58 | 1,1 | 1,1 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| 00 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 0,2 | 0,9 | 0,9 | 0,2 | 0,9 | 0,9 |
| 62 | 0,9 | 0,2 | 0,2 | 0,9 | 0,2 | 0,2 | 0,9 | 0,9 | 0,9 | 0,9 | 0,9 | 0,9 |
| 64 | 0,9 | 0,8 | 0,8 | 0,8 | 0,0 | 0,6 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 |
| 60 | 0,8 | 3,8 | 0,8 | 0,8 | 0,5 | 0,6 | 0,8 | 0,8 | 0,7 | 0,7 | | |
| 68 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | 0,7 | | | | |
| 70 | 0,7 | 0,7 | 0,7 | 0,7 | 0,6 | 0,6 | | | | | | |

**Tabla XXI. Multiplicadores para uso de la Tabla anterior.**

| s | Intérvalo entre el momento del mediodia y el de cada una de las observaciones. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6m | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
| 0 | 3,0 | 1,0 | 4,0 | 9,0 | 16,0 | 25,5 | 36,3 | 49,0 | 64,0 | 81,0 | 105,0 |
| 1 | 0,3 | 1,2 | 4,1 | 9,1 | 16,1 | 25,2 | 36,2 | 49,2 | 64,3 | 81,3 | 105,3 |
| 2 | 0,0 | 1,1 | 4,1 | 9,2 | 16,2 | 25,3 | 36,4 | 49,5 | 64,6 | 81,6 | 100,7 |
| 6 | 0,3 | 1,1 | 4,2 | 9,3 | 13,4 | 25,5 | 36,6 | 49,7 | 64,8 | 81,9 | 101,0 |
| 4 | 0,3 | 1,1 | 4,3 | 2,4 | 15,5 | 25,7 | 36,8 | 49,9 | 66,1 | 82,2 | 151,3 |
| 3 | 0,3 | 1,2 | 4,3 | 9,3 | 16,7 | 25,8 | 37,0 | 50,2 | 65,3 | 82,5 | 101,7 |
| 6 | 0,3 | 1,2 | 4,4 | 9,6 | 15,8 | 26,3 | 37,2 | 50,4 | 65,6 | 82,8 | 102,0 |
| 7 | 0,2 | 1,3 | 4,5 | 9,7 | 15,9 | 26,2 | 37,4 | 50,3 | 65,9 | 83,1 | 102,3 |
| 8 | 0,5 | 1,3 | 4,6 | 9,6 | 17,1 | 26,3 | 37,6 | 30,9 | 66,1 | 83,4 | 102,7 |
| 2 | 0,3 | 1,3 | 4,6 | 9,9 | 17,2 | 26,5 | 37,8 | 51,1 | 63,4 | 83,7 | 103,0 |
| 13 | 0,3 | 1,4 | 4,7 | 10,3 | 17,4 | 26,7 | 38,0 | 61,4 | 66,7 | 84,0 | 103,4 |
| 11 | 0,5 | 1,4 | 4,8 | 15,1 | 17,5 | 26,9 | 38,2 | 61,6 | 67,0 | 84,3 | 103,7 |
| 12 | 0,3 | 1,4 | 4,8 | 10,2 | 17,6 | 27,0 | 38,4 | 61,8 | 67,2 | 84,6 | 154,0 |
| 13 | 0,3 | 1,5 | 4,9 | 10,3 | 17,8 | 27,2 | 38,6 | 52,1 | 67,6 | 84,9 | 134,4 |
| 14 | 0,1 | 1,3 | 6,0 | 10,4 | 17,9 | 27,4 | 33,8 | 62,3 | 67,8 | 85,3 | 104,7 |
| 13 | 0,1 | 1,3 | 5,1 | 10,6 | 13,1 | 27,6 | 39,0 | 62,5 | 68,1 | 55,6 | 105,1 |
| 16 | 0,1 | 1,3 | 6,1 | 10,7 | 18,2 | 27,7 | 32,3 | 52,8 | 68,3 | 85,9 | 105,4 |
| 17 | 0,1 | 1,3 | 6,2 | 10,8 | 18,3 | 27,9 | 39,3 | 53,1 | 68,3 | 36,2 | 105,7 |
| 18 | 0,1 | 1,7 | 5,3 | 10,9 | 15,5 | 28,1 | 39,7 | 63,3 | 68,9 | 66,5 | 106,1 |
| 19 | 0,1 | 1,7 | 5,4 | 11,0 | 10,6 | 28,3 | 39,2 | 53,5 | 69,2 | 36,8 | 156,4 |
| 20 | 0,1 | 1,8 | 5,4 | 11,1 | 18,8 | 28,4 | 43,1 | 53,8 | 62,4 | 87,1 | 103,8 |
| 21 | 0,1 | 1,8 | 3,5 | 11,2 | 18,9 | 28,6 | 40,3 | 54,0 | 69,7 | 37,4 | 107,1 |
| 22 | 0,1 | 1,9 | 6,6 | 11,3 | 19,1 | 28,8 | 43,5 | 54,3 | 75,0 | 67,7 | 107,5 |
| 23 | 0,1 | 1,9 | 5,7 | 11,4 | 19,2 | 29,0 | 40,7 | 54,6 | 70,3 | 58,3 | 107,8 |
| 24 | 0,2 | 2,3 | 3,8 | 11,6 | 19,4 | 29,2 | 41,0 | 54,3 | 70,3 | 88,4 | 105,2 |
| 23 | 0,2 | 2,5 | 5,8 | 11,7 | 19,5 | 29,3 | 41,2 | 66,0 | 70,8 | 88,7 | 108,6 |
| 26 | 2,2 | 2,1 | 3,9 | 11,8 | 19,7 | 29,6 | 41,4 | 65,3 | 71,1 | 89,0 | 108,9 |
| 27 | 5,2 | 2,1 | 6,3 | 11,2 | 19,8 | 29,7 | 41,6 | 35,3 | 71,4 | 89,3 | 109,2 |
| 26 | 0,2 | 2,2 | 6,1 | 12,0 | 19,9 | 29,9 | 41,6 | 65,8 | 71,7 | 89,6 | 109,6 |
| 22 | 0,2 | 2,2 | 6,2 | 12,1 | 20,1 | 30,1 | 42,2 | 66,0 | 72,0 | 89,9 | 109,9 |
| 33 | 3,3 | 2,3 | 6,3 | 12,3 | 20,3 | 30,3 | 42,3 | 66,3 | 72,3 | 95,3 | 110,3 |
| 31 | 3,3 | 2,3 | 6,3 | 12,4 | 20,4 | 30,4 | 42,3 | 63,3 | 72,6 | 95,6 | 110,6 |
| 32 | 0,6 | 2,4 | 6,4 | 12,3 | 20,3 | 30,6 | 42,7 | 36,7 | 72,6 | 90,9 | 111,0 |
| 33 | 3,3 | 2,4 | 6,6 | 12,6 | 20,7 | 30,8 | 42,0 | 57,0 | 73,1 | 91,2 | 111,3 |
| 34 | 3,6 | 2,5 | 6,6 | 12,7 | 20,6 | 31,6 | 43,1 | 57,3 | 73,4 | 91,5 | 111,7 |
| 35 | 3,3 | 2,3 | 6,7 | 12,8 | 21,0 | 31,2 | 43,3 | 67,5 | 73,7 | 91,5 | 112,0 |
| 36 | 3,4 | 2,6 | 3,8 | 13,0 | 21,2 | 31,4 | 43,6 | 57,8 | 74,8 | 92,2 | 112,4 |
| 37 | 0,4 | 2,6 | 6,9 | 13,1 | 21,3 | 31,5 | 43,6 | 58,0 | 74,3 | 92,3 | 112,7 |
| 38 | 0,4 | 2,7 | 6,9 | 13,2 | 21,3 | 31,7 | 44,2 | 58,3 | 74,6 | 92,8 | 113,1 |
| 39 | 3,4 | 2,7 | 7,3 | 13,3 | 21,6 | 61,9 | 44,2 | 58,5 | 74,8 | 93,1 | 113,4 |
| 43 | 5,4 | 2,8 | 7,1 | 13,4 | 21,8 | 32,1 | 44,4 | 58,8 | 75,1 | 93,4 | 113,8 |
| 41 | 3,6 | 2,8 | 7,2 | 13,6 | 21,9 | 32,3 | 44,7 | 69,0 | 75,4 | 93,8 | 114,1 |
| 42 | 3,3 | 2,9 | 7,3 | 13,7 | 22,1 | 32,6 | 44,2 | 39,3 | 75,7 | 94,1 | 114,5 |
| 43 | 0,6 | 2,9 | 7,4 | 13,8 | 22,2 | 32,7 | 46,1 | 69,6 | 76,0 | 94,4 | 114,8 |
| 44 | 3,3 | 3,5 | 7,5 | 13,9 | 22,4 | 32,9 | 45,3 | 69,8 | 76,3 | 94,7 | 115,2 |
| 43 | 2,6 | 3,1 | 7,6 | 14,1 | 22,6 | 33,1 | 45,3 | 60,0 | 76,6 | 95,1 | 116,6 |
| 46 | 0,6 | 6,1 | 7,7 | 14,2 | 22,7 | 33,3 | 45,6 | 65,3 | 76,8 | 95,4 | 115,9 |
| 47 | 0,6 | 3,2 | 7,7 | 14,3 | 22,9 | 33,4 | 46,2 | 63,3 | 77,1 | 96,7 | 116,3 |
| 46 | 0,6 | 6,2 | 7,6 | 14,4 | 23,0 | 33,6 | 46,2 | 65,8 | 77,4 | 96,2 | 116,6 |
| 49 | 0,7 | 6,6 | 7,9 | 14,6 | 23,2 | 33,8 | 46,3 | 61,1 | 77,7 | 96,4 | 117,0 |
| 50 | 0,7 | 6,4 | 8,0 | 14,7 | 23,4 | 34,5 | 46,7 | 31,4 | 70,0 | 96,7 | 117,4 |
| 31 | 2,7 | 6,4 | 8,1 | 14,8 | 23,5 | 34,2 | 46,2 | 31,3 | 78,3 | 97,0 | 117,7 |
| 62 | 0,8 | 6,6 | 8,2 | 16,0 | 23,7 | 34,4 | 47,2 | 31,2 | 78,6 | 97,4 | 118,1 |
| 53 | 3,3 | 6,6 | 6,3 | 16,1 | 23,6 | 34,6 | 47,4 | 52,1 | 78,9 | 97,7 | 118,4 |
| 64 | 0,8 | 3,3 | 6,4 | 16,2 | 24,0 | 34,8 | 47,6 | 62,4 | 79,2 | 98,0 | 118,3 |
| 55 | 2,6 | 3,7 | 8,5 | 15,6 | 24,2 | 35,0 | 47,8 | 62,7 | 79,5 | 98,3 | 119,2 |
| 36 | 2,9 | 3,7 | 6,3 | 15,3 | 24,3 | 35,2 | 48,1 | 62,9 | 79,8 | 98,7 | 119,5 |
| 37 | 0,2 | 3,8 | 6,7 | 15,6 | 24,6 | 35,4 | 48,3 | 63,2 | 80,1 | 99,3 | 119,9 |
| 38 | 0,2 | 6,0 | 8,8 | 15,7 | 24,7 | 35,6 | 48,3 | 63,3 | 80,4 | 99,3 | 120,3 |
| 39 | 1,0 | 3,9 | 6,9 | 16,9 | 24,8 | 35,8 | 48,8 | 63,7 | 80,7 | 99,7 | 120,6 |

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**Tabla XXIII.** Aceleracion de las fijas en tiempo sidéreo, y en tiempo medio.

| Argumento. Tiempo medio. | | | | | | | Argumento. Tiempo sidéreo. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arg. | M. | S. | Arg. | S. | Arg. | Dec. | Arg. | M. | S. | Arg. | S. | Arg. | Dec. |
| 1h | 0 | 9,86 | 1m | 0,16 | 1s | ·60 | 1h | 6 | 2,63 | 1m | 0,16 | 1s | ·00 |
| 0 | 0 | 19,71 | 0 | 0,33 | 2 | ·00 | 2 | 6 | 12,66 | 2 | 0,33 | 2 | ·00 |
| 3 | 0 | 29,57 | 3 | 0,49 | 3 | ·01 | 3 | 0 | 09,49 | 3 | 0,49 | 3 | ·01 |
| 4 | 0 | 39,43 | 4 | 0,06 | 4 | ·01 | 4 | 0 | 30,32 | 4 | 0,66 | 4 | ·01 |
| 5 | 0 | 49,28 | 6 | 0,82 | 6 | ·01 | 0 | 0 | 40,15 | 0 | 0,82 | 5 | ·01 |
| 6 | 0 | 09,14 | 6 | 0,98 | 6 | ·02 | 6 | 6 | 08,98 | 6 | 0,98 | 0 | ·00 |
| 7 | 1 | 8,99 | 7 | 1,15 | 7 | ·00 | 7 | 1 | 8,61 | 7 | 1,15 | 7 | ·02 |
| 8 | 1 | 18,85 | 6 | 1,31 | 6 | ·02 | 8 | 1 | 18,64 | 8 | 1,31 | 8 | ·00 |
| 9 | 1 | 08,71 | 9 | 1,40 | 2 | ·02 | 2 | 1 | 28,47 | 2 | 1,47 | 2 | ·00 |
| 10 | 1 | 38,56 | 16 | 1,64 | 10 | ·03 | 10 | 1 | 38,30 | 10 | 1,64 | 10 | ·03 |
| 11 | 1 | 48,42 | 11 | 1,81 | 11 | ·03 | 11 | 1 | 48,13 | 11 | 1,80 | 11 | ·03 |
| 12 | 1 | 58,28 | 12 | 1,27 | 12 | ·03 | 10 | 1 | 07,96 | 12 | 1,07 | 10 | ·03 |
| 13 | 2 | 8,13 | 13 | 0,13 | 13 | ·04 | 13 | 2 | 7,78 | 13 | 2,13 | 13 | ·04 |
| 14 | 2 | 17,29 | 14 | 2,30 | 14 | ·04 | 14 | 2 | 17,61 | 14 | 2,29 | 14 | ·04 |
| 10 | 0 | 27,85 | 15 | 0,46 | 13 | ·04 | 10 | 2 | 27,44 | 10 | 2,46 | 15 | ·64 |
| 16 | 2 | 37,70 | 16 | 0,63 | 16 | ·04 | 10 | 2 | 37,27 | 16 | 0,62 | 16 | ·04 |
| 17 | 2 | 47,06 | 17 | 2,79 | 17 | ·65 | 17 | 2 | 47,10 | 17 | 0,78 | 17 | ·00 |
| 18 | 2 | 07,42 | 19 | 2,96 | 16 | ·60 | 10 | 2 | 06,23 | 10 | 2,95 | 10 | ·05 |
| 12 | 3 | 7,27 | 12 | 3,10 | 12 | ·00 | 12 | 3 | 6,76 | 12 | 3,11 | 10 | ·05 |
| 20 | 3 | 17,13 | 20 | 3,29 | 20 | ·60 | 20 | 3 | 16,09 | 20 | 3,28 | 00 | ·00 |
| 21 | 3 | 06,98 | 01 | 3,45 | 01 | ·06 | 01 | 3 | 06,40 | 01 | 3,44 | 21 | ·06 |
| 22 | 3 | 30,84 | 22 | 3,01 | 02 | ·60 | 22 | 3 | 36,05 | 00 | 3,60 | 22 | ·06 |
| 23 | 3 | 40,70 | 23 | 3,70 | 23 | ·66 | 23 | 3 | 46,08 | 03 | 3,77 | 23 | ·00 |
| 24 | 3 | 06,56 | 24 | 3,94 | 04 | ·07 | 04 | 3 | 05,01 | 24 | 3,93 | 04 | ·07 |
| | | | 00 | 4,11 | 06 | ·67 | | | | 25 | 4,10 | 25 | ·07 |
| | | | 26 | 4,07 | 29 | ·07 | | | | 26 | 4,00 | 29 | ·67 |
| | | | 27 | 4,43 | 07 | ·07 | | | | 27 | 4,42 | 27 | ·07 |
| | | | 08 | 4,60 | 08 | ·60 | | | | 26 | 4,59 | 20 | ·06 |
| | | | 09 | 4,76 | 29 | ·08 | | | | 09 | 4,70 | 29 | ·00 |
| | | | 30 | 4,93 | 36 | ·08 | | | | 30 | 4,01 | 30 | ·06 |
| | | | 31 | 6,09 | 31 | ·08 | | | | 31 | 0,08 | 31 | ·00 |
| | | | 30 | 6,06 | 32 | ·09 | | | | 32 | 0,04 | 32 | ·09 |
| | | | 33 | 0,42 | 33 | ·09 | | | | 33 | 0,41 | 33 | ·09 |
| | | | 34 | 6,08 | 34 | ·09 | | | | 34 | 0,07 | 34 | ·09 |
| | | | 35 | 0,70 | 35 | ·10 | | | | 30 | 0,73 | 30 | ·16 |
| | | | 36 | 0,91 | 36 | ·10 | | | | 30 | 6,90 | 36 | ·16 |
| | | | 37 | 6,00 | 37 | ·10 | | | | 37 | 6,06 | 37 | ·19 |
| | | | 38 | 6,24 | 38 | ·11 | | | | 36 | 6,23 | 36 | ·11 |
| | | | 39 | 6,46 | 32 | ·11 | | | | 32 | 6,39 | 32 | ·11 |
| | | | 40 | 6,07 | 40 | ·11 | | | | 40 | 6,00 | 40 | ·11 |
| | | | 41 | 6,73 | 41 | ·11 | | | | 41 | 6,72 | 41 | ·11 |
| | | | 40 | 6,90 | 42 | ·12 | | | | 42 | 6,88 | 40 | ·12 |
| | | | 43 | 7,06 | 43 | ·10 | | | | 43 | 7,04 | 43 | ·12 |
| | | | 44 | 7,03 | 44 | ·12 | | | | 44 | 7,01 | 44 | ·12 |
| | | | 45 | 7,32 | 40 | ·12 | | | | 40 | 7,37 | 40 | ·12 |
| | | | 46 | 7,06 | 46 | ·13 | | | | 46 | 7,04 | 46 | ·13 |
| | | | 47 | 7,72 | 47 | ·13 | | | | 47 | 7,76 | 47 | ·13 |
| | | | 48 | 7,88 | 48 | ·13 | | | | 46 | 7,86 | 48 | ·13 |
| | | | 42 | 6,60 | 42 | ·14 | | | | 49 | 8,03 | 49 | ·14 |
| | | | 06 | 8,21 | 50 | ·14 | | | | 06 | 6,12 | 50 | ·14 |
| | | | 61 | 8,36 | 61 | ·14 | | | | 61 | 0,36 | 51 | ·14 |
| | | | 02 | 8,04 | 02 | ·14 | | | | 02 | 8,02 | 02 | ·14 |
| | | | 03 | 6,71 | 03 | ·10 | | | | 03 | 0,69 | 53 | ·10 |
| | | | 04 | 8,87 | 04 | ·10 | | | | 04 | 6,80 | 54 | ·16 |
| | | | 60 | 9,63 | 00 | ·15 | | | | 00 | 2,01 | 00 | ·10 |
| | | | 66 | 9,00 | 66 | ·10 | | | | 06 | 2,17 | 56 | ·10 |
| | | | 07 | 9,36 | 07 | ·16 | | | | 07 | 9,34 | 57 | ·16 |
| | | | 08 | 9,53 | 68 | ·16 | | | | 68 | 2,00 | 08 | ·16 |
| | | | 09 | 9,69 | 59 | ·10 | | | | 00 | 2,67 | 62 | ·10 |
| | | | 60 | 2,86 | 60 | ·16 | | | | 06 | 2,83 | 00 | ·16 |

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**Tabla XXIV.** Horario mas á propósito para observar la altura del Sol con el objeto de determinar el tiempo verdadero.

| Latitud. | Declinacion de la misma especie que la latitud. 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| o | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 0 | 6. 0 | 6. 5 | 6. 0 | 6. 0 | 6. 5 | 6. 5 | 6. 0 | 6. 5 | 6. 5 | 6. 5 | 6. 0 | 6. 0 | 6. 0 |
| 1 | 6. 0 | 4. 6 | 5. 2 | 5. 22 | 5. 31 | 5. 37 | 5. 41 | 5. 44 | 5. 46 | 5. 48 | 5. 42 | 5. 55 | 5. 51 |
| 2 | 5. 0 | 5. 0 | 4. 0 | 4. 42 | 5. 2 | 5. 14 | 5. 22 | 5. 28 | 5. 32 | 5. 35 | 5. 30 | 5. 40 | 5. 42 |
| 3 | 0. 0 | 3. 13 | 2. 46 | 4. 0 | 4. 32 | 4. 51 | 5. 3 | 5. 11 | 5. 18 | 5. 23 | 5. 27 | 5. 30 | 5. 33 |
| 4 | 0. 0 | 4. 5 | 6. 0 | 3. 13 | 4. 1 | 4. 27 | 4. 43 | 4. 55 | 5. 4 | 5. 10 | 5. 16 | 5. 20 | 5. 24 |
| 5 | 5. 0 | 4. 26 | 2. 28 | 2. 15 | 3. 26 | 4. 1 | 4. 23 | 4. 38 | 4. 42 | 4. 58 | 5. 4 | 5. 10 | 5. 15 |
| 5 | 5. 0 | 4. 42 | 3. 13 | 0. 0 | 2. 46 | 3. 34 | 4. 1 | 4. 20 | 4. 34 | 4. 45 | 4. 53 | 5. 0 | 5. 5 |
| 7 | 5. 0 | 4. 54 | 3. 41 | 2. 5 | 1. 56 | 3. 3 | 3. 39 | 4. 2 | 4. 12 | 4. 31 | 4. 41 | 4. 49 | 4. 56 |
| 8 | 6. 0 | 5. 2 | 4. 1 | 2. 40 | 0. 0 | 2. 29 | 3. 11 | 3. 43 | 4. 5 | 4. 17 | 4. 29 | 4. 39 | 4. 46 |
| 2 | 6. 0 | 5. 2 | 4. 15 | 3. 14 | 1. 55 | 1. 44 | 2. 47 | 3. 22 | 3. 40 | 4. 3 | 4. 17 | 4. 28 | 4. 37 |
| 10 | 0. 0 | 5. 14 | 4. 27 | 3. 34 | 2. 29 | 0. 0 | 2. 16 | 3. 0 | 3. 28 | 3. 49 | 4. 4 | 4. 10 | 4. 27 |
| 11 | 6. 0 | 5. 12 | 4. 30 | 3. 49 | 2. 65 | 1. 40 | 1. 35 | 2. 35 | 3. 9 | 3. 33 | 3. 51 | 4. 5 | 4. 10 |
| 12 | 5. 0 | 5. 22 | 4. 43 | 4. 1 | 3. 14 | 2. 16 | 0. 0 | 2. 5 | 2. 49 | 3. 17 | 3. 37 | 3. 53 | 4. 5 |
| 13 | 6. 0 | 5. 25 | 4. 49 | 4. 12 | 3. 30 | 2. 41 | 1. 32 | 1. 29 | 2. 26 | 2. 59 | 3. 23 | 3. 41 | 3. 55 |
| 14 | 0. 0 | 5. 20 | 4. 55 | 4. 20 | 3. 43 | 3. 5 | 2. 6 | 0. 6 | 1. 50 | 2. 40 | 3. 7 | 3. 28 | 3. 44 |
| 15 | 6. 0 | 5. 30 | 4. 52 | 4. 28 | 3. 53 | 3. 15 | 2. 30 | 1. 26 | 1. 23 | 2. 18 | 2. 50 | 3. 14 | 3. 32 |
| 16 | 6. 6 | 5. 32 | 5. 4 | 4. 34 | 4. 3 | 3. 28 | 2. 49 | 1. 58 | 0. 0 | 1. 52 | 2. 32 | 2. 59 | 3. 20 |
| 17 | 0. 0 | 5. 34 | 5. 7 | 4. 40 | 4. 11 | 3. 39 | 3. 4 | 2. 21 | 1. 21 | 1. 19 | 2. 11 | 2. 43 | 3. 7 |
| 18 | 6. 0 | 5. 35 | 5. 10 | 4. 45 | 4. 17 | 3. 49 | 3. 17 | 2. 40 | 1. 52 | 0. 6 | 1. 47 | 2. 20 | 2. 53 |
| 12 | 6. 6 | 5. 37 | 5. 13 | 4. 49 | 4. 24 | 3. 57 | 3. 28 | 2. 54 | 2. 14 | 1. 17 | 1. 16 | 2. 6 | 2. 37 |
| 20 | 6. 0 | 5. 38 | 5. 16 | 4. 53 | 4. 29 | 4. 4 | 3. 37 | 3. 7 | 2. 32 | 1. 47 | 0. 0 | 1. 43 | 2. 21 |
| 21 | 6. 6 | 5. 39 | 5. 18 | 4. 56 | 4. 34 | 4. 11 | 3. 46 | 3. 18 | 2. 47 | 2. 2 | 1. 14 | 1. 13 | 2. 2 |
| 22 | 6. 0 | 5. 40 | 5. 25 | 5. 0 | 4. 39 | 4. 10 | 3. 53 | 3. 28 | 2. 59 | 2. 26 | 1. 43 | 0. 5 | 1. 39 |
| 23 | 6. 0 | 5. 41 | 5. 22 | 5. 3 | 4. 43 | 4. 22 | 4. 0 | 3. 36 | 3. 10 | 2. 40 | 2. 4 | 1. 11 | 1. 10 |
| 24 | 6. 5 | 5. 42 | 5. 24 | 5. 5 | 4. 46 | 4. 27 | 4. 6 | 3. 44 | 3. 20 | 2. 53 | 2. 21 | 1. 32 | 5. 0 |
| 25 | 0. 0 | 5. 43 | 5. 26 | 5. 8 | 4. 50 | 4. 31 | 4. 12 | 3. 51 | 3. 28 | 3. 3 | 2. 35 | 2. 5 | 1. 9 |
| 20 | 6. 5 | 5. 44 | 5. 27 | 5. 10 | 4. 53 | 4. 35 | 4. 17 | 3. 57 | 3. 36 | 3. 13 | 2. 47 | 2. 10 | 1. 36 |
| 27 | 5. 5 | 5. 44 | 5. 28 | 5. 12 | 4. 56 | 4. 39 | 4. 21 | 4. 3 | 3. 43 | 3. 22 | 3. 6 | 2. 30 | 1. 56 |
| 28 | 0. 5 | 5. 45 | 5. 30 | 5. 14 | 4. 69 | 4. 43 | 4. 26 | 4. 0 | 3. 42 | 3. 29 | 3. 7 | 2. 42 | 2. 13 |
| 29 | 5. 0 | 5. 40 | 5. 31 | 5. 15 | 5. 1 | 4. 40 | 4. 30 | 4. 13 | 3. 55 | 3. 36 | 3. 16 | 2. 53 | 2. 26 |
| 30 | 6. 5 | 5. 46 | 5. 32 | 5. 18 | 5. 4 | 4. 49 | 4. 34 | 4. 18 | 4. 1 | 3. 43 | 3. 24 | 3. 2 | 2. 38 |
| 31 | 6. 5 | 5. 47 | 5. 33 | 5. 20 | 5. 0 | 4. 52 | 4. 37 | 4. 22 | 4. 5 | 3. 49 | 3. 31 | 3. 11 | 2. 49 |
| 32 | 6. 0 | 5. 47 | 5. 34 | 5. 21 | 5. 8 | 4. 54 | 4. 40 | 4. 26 | 4. 11 | 3. 65 | 3. 38 | 3. 19 | 2. 58 |
| 33 | 5. 5 | 5. 48 | 5. 35 | 5. 23 | 5. 10 | 4. 57 | 4. 44 | 4. 30 | 4. 15 | 4. 5 | 3. 44 | 3. 20 | 3. 7 |
| 34 | 6. 0 | 5. 48 | 5. 36 | 5. 24 | 5. 12 | 4. 59 | 4. 47 | 4. 33 | 4. 19 | 4. 5 | 3. 49 | 3. 33 | 3. 15 |
| 35 | 6. 5 | 5. 49 | 5. 37 | 5. 25 | 5. 14 | 5. 2 | 4. 49 | 4. 37 | 4. 23 | 4. 9 | 3. 55 | 3. 39 | 3. 22 |
| 36 | 6. 5 | 5. 49 | 5. 38 | 5. 27 | 5. 15 | 5. 4 | 4. 52 | 4. 40 | 4. 27 | 4. 14 | 4. 0 | 3. 45 | 3. 29 |
| 37 | 6. 5 | 5. 49 | 5. 39 | 5. 28 | 5. 17 | 5. 6 | 4. 54 | 4. 43 | 4. 31 | 4. 18 | 4. 4 | 3. 50 | 3. 35 |
| 38 | 6. 0 | 5. 50 | 5. 39 | 5. 29 | 5. 19 | 5. 8 | 4. 57 | 4. 45 | 4. 34 | 4. 22 | 4. 9 | 3. 55 | 3. 41 |
| 39 | 5. 0 | 5. 50 | 5. 40 | 5. 30 | 5. 20 | 5. 10 | 4. 59 | 4. 40 | 4. 37 | 4. 25 | 4. 13 | 4. 0 | 3. 47 |
| 40 | 6. 6 | 5. 50 | 5. 41 | 5. 31 | 5. 21 | 5. 11 | 5. 1 | 4. 51 | 4. 40 | 4. 29 | 4. 17 | 4. 5 | 3. 52 |
| 41 | 6. 0 | 5. 51 | 5. 42 | 5. 32 | 5. 23 | 5. 13 | 5. 3 | 4. 53 | 4. 43 | 4. 32 | 4. 21 | 4. 9 | 3. 57 |
| 42 | 0. 5 | 5. 51 | 5. 42 | 5. 33 | 5. 24 | 5. 15 | 5. 5 | 4. 56 | 4. 46 | 4. 35 | 4. 25 | 4. 13 | 4. 1 |
| 43 | 5. 0 | 5. 51 | 5. 43 | 5. 34 | 5. 25 | 5. 16 | 5. 7 | 4. 50 | 4. 48 | 4. 38 | 4. 28 | 4. 17 | 4. 6 |
| 44 | 6. 5 | 5. 52 | 5. 43 | 6. 35 | 6. 27 | 5. 18 | 5. 9 | 5. 6 | 4. 51 | 4. 41 | 4. 31 | 4. 21 | 4. 10 |
| 45 | 5. 6 | 5. 52 | 5. 44 | 5. 35 | 5. 28 | 5. 19 | 5. 11 | 5. 2 | 4. 53 | 4. 44 | 4. 35 | 4. 25 | 4. 14 |
| 45 | 6. 0 | 5. 52 | 5. 45 | 5. 37 | 5. 29 | 5. 21 | 5. 13 | 5. 4 | 4. 56 | 4. 47 | 4. 38 | 4. 20 | 4. 18 |
| 47 | 6. 5 | 5. 53 | 5. 45 | 5. 38 | 5. 30 | 5. 22 | 5. 14 | 5. 6 | 4. 58 | 4. 49 | 4. 41 | 4. 31 | 4. 22 |
| 40 | 0. 6 | 5. 53 | 5. 46 | 5. 38 | 5. 31 | 5. 23 | 5. 15 | 5. 8 | 5. 0 | 4. 52 | 4. 43 | 4. 35 | 4. 25 |
| 49 | 0. 0 | 5. 53 | 5. 46 | 5. 39 | 5. 32 | 5. 25 | 5. 17 | 5. 10 | 5. 2 | 4. 54 | 4. 46 | 4. 38 | 4. 29 |
| 50 | 5. 0 | 5. 53 | 5. 47 | 5. 46 | 5. 33 | 5. 25 | 5. 19 | 5. 12 | 5. 4 | 4. 57 | 4. 49 | 4. 41 | 4. 32 |
| 52 | 6. 5 | 5. 54 | 5. 47 | 5. 41 | 5. 35 | 5. 28 | 5. 22 | 5. 15 | 5. 8 | 5. 1 | 4. 54 | 4. 46 | 4. 39 |
| 54 | 5. 0 | 5. 54 | 5 48 | 5 42 | 5. 37 | 5. 31 | 5. 24 | 5. 18 | 5. 12 | 6. 5 | 4. 59 | 4. 52 | 4. 45 |
| 56 | 5. 0 | 5. 55 | 5. 49 | 5. 44 | 5. 38 | 5. 33 | 5. 27 | 5. 21 | 5. 15 | 5. 9 | 5. 3 | 4. 57 | 4. 50 |
| 55 | 5. 0 | 5. 55 | 5. 50 | 5. 45 | 5. 40 | 5. 35 | 5. 29 | 5. 24 | 5. 19 | 5. 13 | 5. 7 | 5. 2 | 4. 55 |
| 06 | 6. 6 | 5. 55 | 5. 51 | 5. 46 | 5. 41 | 5. 37 | 5. 32 | 5. 27 | 5. 22 | 5. 17 | 5. 11 | 5. 5 | 5. 0 |
| 62 | 6. 0 | 5. 56 | 5. 51 | 5. 47 | 5. 43 | 5. 38 | 5. 34 | 5. 30 | 5. 25 | 5. 20 | 5. 15 | 5. 15 | 5. 5 |
| 64 | 6. 6 | 5. 56 | 5. 52 | 5. 48 | 5. 44 | 5. 40 | 5. 36 | 5. 32 | 5. 28 | 5. 24 | 5. 19 | 5. 15 | 6. 10 |
| 66 | 6. 5 | 5. 56 | 5. 53 | 5. 49 | 5. 46 | 5. 42 | 5. 38 | 5. 35 | 5. 31 | 5. 27 | 5. 23 | 5. 12 | 5. 14 |
| 68 | 6. 0 | 5. 57 | 5. 54 | 5. 56 | 5. 47 | 5. 44 | 5. 40 | 5. 37 | 5. 33 | 5. 30 | 5. 26 | 5. 22 | 5. 19 |
| 70 | 0. 0 | 5. 57 | 5. 54 | 5. 51 | 5. 48 | 5. 45 | 5. 42 | 5. 39 | 5. 36 | 5. 33 | 5. 30 | 5. 26 | 5. 23 |

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**Tabla XXV.** Diferencias entre 6 horas y el arco semidiurno de un astro reducido á tiempo; ó lo que es lo mismo, diferencias ascensionales.

| Latitud | Declinacion. 1° | 2° | 3° | 4° | 5° | 5° | 7° | 8° | 0° | 10° | 11° | 12° | 13° | 14° | 10° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 1 | 0. 0 | 0. 0 | 0. 0 | 0. 0 | 5. 0 | 5. 0 | 5. 0 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 |
| 2 | 0. 0 | 5. 0 | 0. 5 | 0. 1 | 0. 1 | 5. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 2 | 0. 2 | 5. 2 | 0. 2 | 0. 2 |
| 3 | 0. 0 | 5. 0 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 0 | 0. 2 | 0. 2 | 0. 2 | 0. 3 | 0. 3 | 5. 3 | 0. 3 |
| 4 | 5. 0 | 5. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 0 | 0. 2 | 0. 2 | 0. 3 | 0. 3 | 0. 3 | 0. 3 | 0. 4 | 0. 4 | 0. 4 |
| 5 | 0. 0 | 0. 1 | 0. 1 | 0. 1 | 0. 2 | 0. 2 | 0. 2 | 0. 3 | 5. 3 | 0. 4 | 5. 4 | 0. 4 | 0. 5 | 0. 5 | 0. 5 |
| 0 | 0. 0 | 0. 1 | 5. 1 | 0. 2 | 0. 2 | 0. 3 | 0. 3 | 0. 3 | 0. 4 | 5. 4 | 0. 0 | 5. 5 | 0. 0 | 0. 0 | 0. 0 |
| 7 | 0. 0 | 0. 1 | 5. 1 | 0. 2 | 0. 9 | 0. 3 | 0. 3 | 0. 4 | 0. 4 | 0. 5 | 5. 5 | 0. 6 | 0. 6 | 0. 7 | 0. 0 |
| 8 | 0. 1 | 0. 1 | 0. 2 | 0. 2 | 0. 3 | 0. 3 | 0. 4 | 0. 5 | 0. 0 | 5. 0 | 0. 5 | 0. 7 | 0. 7 | 0. 0 | 0. 9 |
| 0 | 0. 1 | 0. 1 | 0. 2 | 0. 3 | 0. 3 | 0. 4 | 0. 4 | 0. 5 | 0. 0 | 0. 0 | 5. 0 | 0. 0 | 0. 0 | 0. 0 | 0.10 |
| 10 | 5. 1 | 0. 1 | 0. 2 | 0. 3 | 0. 4 | 0. 4 | 5. 5 | 0. 6 | 0. 0 | 0. 7 | 0. 0 | 0. 9 | 0. 9 | 0.10 | 0.11 |
| 11 | 5. 1 | 0. 2 | 0. 2 | 5. 3 | 0. 4 | 0. 5 | 0. 5 | 0. 5 | 5. 7 | 5. 0 | 0. 0 | 0. 0 | 0.10 | 0.11 | 0.12 |
| 12 | 0. 1 | 0. 2 | 0. 3 | 0. 3 | 0. 4 | 0. 5 | 0. 0 | 0. 7 | 0. 0 | 0. 9 | 0. 2 | 0.10 | 0.11 | 0.12 | 0.13 |
| 13 | 0. 1 | 5. 0 | 0. 3 | 0. 4 | 0. 5 | 0. 5 | 0. 6 | 0. 7 | 0. 0 | 0. 0 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 |
| 14 | 0. 1 | 5. 2 | 0. 3 | 0. 4 | 0. 5 | 0. 0 | 0. 7 | 0. 0 | 0. 9 | 0.10 | 0.11 | 5.12 | 0.13 | 0.14 | 0.15 |
| 13 | 0. 1 | 0. 2 | 0. 3 | 0. 4 | 0. 0 | 0. 5 | 0. 0 | 0. 0 | 0.10 | 0.11 | 0.12 | 5.13 | 5.14 | 0.15 | 0.15 |
| 10 | 0. 1 | 0. 0 | 0. 3 | 5. 5 | 0. 0 | 0. 7 | 0. 0 | 0. 0 | 0.10 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.10 |
| 17 | 0. 1 | 0. 2 | 0. 4 | 0. 5 | 0. 0 | 0. 7 | 0. 2 | 0.10 | 0.11 | 5.12 | 5.14 | 0.15 | 5.16 | 0.17 | 0.10 |
| 18 | 5. 1 | 0. 3 | 0. 4 | 0. 5 | 0. 7 | 0. 0 | 0. 9 | 0.10 | 0.12 | 5.13 | 0.14 | 0.10 | 0.17 | 0.19 | 0.20 |
| 12 | 0. 1 | 0. 3 | 0. 4 | 0. 6 | 0. 7 | 0. 0 | 0.10 | 0.11 | 0.12 | 0.14 | 0.15 | 0.17 | 0.10 | 0.20 | 0.21 |
| 20 | 0. 1 | 0. 3 | 0. 4 | 0. 0 | 0. 7 | 0. 9 | 0.10 | 5.12 | 0.13 | 0.15 | 0.16 | 0.10 | 0.10 | 0.21 | 0.22 |
| 21 | 0. 2 | 5. 3 | 0. 5 | 0. 0 | 0. 0 | 0. 0 | 0.11 | 0.12 | 0.14 | 0.10 | 0.17 | 0.19 | 5.20 | 0.22 | 0.24 |
| 22 | 5. 2 | 0. 3 | 5. 5 | 0. 6 | 0. 0 | 5.10 | 0.11 | 5.13 | 5.15 | 0.16 | 0.10 | 5.20 | 0.21 | 0.23 | 0.25 |
| 23 | 0. 2 | 0. 3 | 0. 0 | 5. 7 | 0. 0 | 0.10 | 0.12 | 0.14 | 0.15 | 0.17 | 0.10 | 0.01 | 0.22 | 0.24 | 0.20 |
| 24 | 0. 2 | 0. 4 | 0. 5 | 0. 7 | 0. 0 | 0.11 | 5.13 | 5.14 | 0.10 | 0.10 | 0.20 | 0.22 | 0.24 | 0.26 | 0.27 |
| 25 | 0. 2 | 0. 4 | 0. 0 | 0. 7 | 0. 2 | 0.11 | 0.13 | 0.15 | 5.17 | 0.19 | 0.21 | 0.23 | 5.25 | 0.27 | 0.20 |
| 26 | 0. 2 | 0. 4 | 0. 0 | 0. 0 | 0.15 | 0.10 | 0.14 | 0.10 | 0.10 | 0.20 | 0.22 | 0.24 | 0.20 | 0.20 | 5.30 |
| 27 | 0. 2 | 0. 4 | 5. 6 | 0. 0 | 5.10 | 0.12 | 0.14 | 0.15 | 0.12 | 0.21 | 0.23 | 0.25 | 0.97 | 0.29 | 0.31 |
| 20 | 0. 2 | 0. 4 | 5. 6 | 0. 0 | 0.11 | 0.13 | 0.15 | 0.17 | 5.10 | 0.22 | 0.24 | 0.20 | 0.20 | 5.30 | 0.33 |
| 29 | 0. 2 | 0. 4 | 0. 7 | 5. 9 | 0.11 | 0.13 | 0.16 | 0.10 | 0.20 | 5.29 | 0.25 | 0.27 | 0.20 | 0.32 | 0.34 |
| 30 | 0. 0 | 0. 5 | 0. 7 | 0. 0 | 0.12 | 0.14 | 5.10 | 0.10 | 0.21 | 0.23 | 0.20 | 0.20 | 0.31 | 0.33 | 0.36 |
| 31 | 0. 0 | 5. 5 | 5. 7 | 0.10 | 0.12 | 0.14 | 0.17 | 0.10 | 0.22 | 0.24 | 0.27 | 0.29 | 0.39 | 0.34 | 0.37 |
| 32 | 0. 2 | 0. 5 | 0. 7 | 5.10 | 0.13 | 0.15 | 0.10 | 5.20 | 0.23 | 0.25 | 0.20 | 5.31 | 5.33 | 0.36 | 0.39 |
| 33 | 0. 3 | 0. 5 | 5. 0 | 5.10 | 0.13 | 0.10 | 0.10 | 0.21 | 0.24 | 5.25 | 0.20 | 0.32 | 0.34 | 0.37 | 0.40 |
| 34 | 0. 3 | 0. 5 | 0. 0 | 0.11 | 0.14 | 0.10 | 0.10 | 0.22 | 0.25 | 0.27 | 0.30 | 0.33 | 0.30 | 0.39 | 0.42 |
| 35 | 0. 3 | 5. 5 | 0. 0 | 0.11 | 0.14 | 0.17 | 0.00 | 5.23 | 0.25 | 0.20 | 0.31 | 0.34 | 0.37 | 0.40 | 5.43 |
| 30 | 0. 3 | 0. 0 | 0. 0 | 0.12 | 0.15 | 0.18 | 0.00 | 0.23 | 0.26 | 5.20 | 0.32 | 0.30 | 0.30 | 0.42 | 0.45 |
| 37 | 0. 3 | 0. 0 | 0. 2 | 5.12 | 0.15 | 0.10 | 0.21 | 5.94 | 0.27 | 0.31 | 0.34 | 0.37 | 0.40 | 0.43 | 0.47 |
| 38 | 0. 3 | 0. 0 | 0. 0 | 5.13 | 0.10 | 0.19 | 0.22 | 0.25 | 0.20 | 5.32 | 0.35 | 0.30 | 0.42 | 0.45 | 0.40 |
| 30 | 0. 3 | 0. 5 | 0.10 | 5.13 | 0.10 | 0.20 | 0.23 | 5.20 | 0.29 | 5.33 | 0.36 | 0.40 | 0.43 | 0.47 | 0.50 |
| 40 | 0. 3 | 0. 7 | 5.10 | 0.13 | 0.17 | 0.20 | 0.24 | 0.27 | 0.31 | 0.34 | 0.38 | 0.41 | 0.45 | 0.48 | 5.02 |
| 41 | 0. 3 | 0. 7 | 0.10 | 0.14 | 0.17 | 0.21 | 0.25 | 0.28 | 0.32 | 0.35 | 0.39 | 0.43 | 0.40 | 0.50 | 0.54 |
| 42 | 0. 4 | 5. 7 | 0.11 | 0.14 | 0.10 | 0.22 | 0.26 | 0.22 | 0.33 | 0.37 | 0.40 | 0.44 | 0.40 | 0.52 | 0.55 |
| 43 | 0. 4 | 0. 7 | 0.11 | 0.15 | 0.10 | 0.22 | 5.26 | 0.30 | 0.34 | 0.38 | 0.42 | 0.46 | 0.50 | 0.54 | 0.00 |
| 44 | 0. 4 | 0. 0 | 0.12 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 | 0.35 | 5.39 | 0.43 | 0.47 | 0.52 | 5.56 | 1. 0 |
| 45 | 0. 4 | 5. 0 | 0.12 | 0.15 | 0.20 | 0.24 | 0.20 | 5.32 | 5.36 | 0.41 | 0.45 | 0.40 | 0.03 | 5.58 | 1. 0 |
| 40 | 0. 4 | 0. 8 | 0.12 | 0.17 | 0.21 | 0.25 | 0.29 | 0.33 | 0.38 | 0.42 | 0.45 | 0.51 | 0.55 | 1. 0 | 1. 4 |
| 47 | 0. 4 | 0. 0 | 0.13 | 0.17 | 0.22 | 0.20 | 0.30 | 0.35 | 0.30 | 0.44 | 0.40 | 0.53 | 0.07 | 1. 2 | 1. 7 |
| 40 | 0. 4 | 0. 9 | 0.13 | 0.18 | 0.22 | 0.27 | 0.31 | 0.30 | 5.41 | 0.45 | 0.50 | 0.55 | 0.50 | 1. 4 | 1. 9 |
| 40 | 0. 0 | 5. 0 | 0.14 | 0.18 | 0.23 | 0.28 | 0.32 | 0.37 | 0.42 | 0.47 | 0.52 | 0.57 | 1. 2 | 1. 7 | 1.12 |
| 55 | 5. 0 | 5.15 | 0.14 | 0.19 | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 | 0.40 | 5.54 | 0.50 | 1. 4 | 1. 0 | 1.14 |
| 51 | 0. 5 | 0.10 | 0.15 | 0.20 | 0.26 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.50 | 1. 1 | 1. 0 | 1.12 | 1.17 |
| 52 | 0. 5 | 0.10 | 0.15 | 0.91 | 0.26 | 0.31 | 0.36 | 0.41 | 0.47 | 0.52 | 0.08 | 1. 3 | 1. 0 | 1.14 | 1.20 |
| 53 | 0. 5 | 0.11 | 0.16 | 0.21 | 0.27 | 0.32 | 0.38 | 0.43 | 0.49 | 0.54 | 1. 0 | 1. 6 | 1.11 | 1.17 | 1.23 |
| 04 | 0. 6 | 0.11 | 0.16 | 0.92 | 0.28 | 0.33 | 0.30 | 0.46 | 0.50 | 0.50 | 1. 0 | 1. 0 | 1.14 | 1.20 | 1.27 |
| 05 | 0. 6 | 0.11 | 0.17 | 0.23 | 5.29 | 5.35 | 0.40 | 0.40 | 0.52 | 0.00 | 1. 4 | 1.11 | 1.17 | 1.23 | 1.30 |
| 56 | 5. 6 | 0.19 | 0.18 | 0.24 | 0.30 | 0.30 | 0.42 | 0.40 | 0.54 | 1. 1 | 1. 7 | 1.13 | 1.20 | 1.27 | 1.34 |
| 57 | 0. 6 | 0.12 | 0.19 | 0.95 | 0.31 | 0.37 | 0.44 | 0.50 | 0.56 | 1. 3 | 1.10 | 1.10 | 1.23 | 1.30 | 1.37 |
| 58 | 0. 0 | 0.13 | 0.19 | 0.26 | 0.32 | 0.30 | 0.46 | 0.59 | 0.59 | 1. 0 | 1.12 | 1.10 | 1.27 | 1.34 | 1.42 |
| 59 | 0. 7 | 0.13 | 0.20 | 0.17 | 0.33 | 0.40 | 0.47 | 0.54 | 1. 1 | 1. 0 | 1.16 | 1.23 | 1.30 | 1.30 | 1.46 |
| 00 | 0. 7 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.40 | 0.56 | 1. 4 | 1.11 | 1.19 | 1.20 | 1.34 | 1.42 | 1.51 |
| 01 | 0. 7 | 0.14 | 0.22 | 0.29 | 0.36 | 0.44 | 0.51 | 0.60 | 1. 0 | 1.14 | 1.20 | 1.30 | 1.38 | 1.47 | 1.55 |
| 02 | 0. 8 | 0.15 | 0.23 | 5.30 | 0.30 | 0.46 | 5.53 | 1. 1 | 1. 0 | 1.17 | 1.20 | 1.34 | 1.43 | 1.02 | 2. 1 |
| 63 | 0. 0 | 0.16 | 0.24 | 0.32 | 0.40 | 0.40 | 0.65 | 1. 4 | 1.12 | 1.21 | 1.30 | 1.30 | 1.40 | 1.07 | 2. 7 |
| 64 | 0. 0 | 0.16 | 0.25 | 0.33 | 0.41 | 0.50 | 0.58 | 1. 7 | 1.16 | 1.25 | 1.34 | 1.43 | 1.53 | 2. 3 | 2.13 |

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**Tabla XXV.** Diferencias entre 6 horas y el arco semidiurno de un astro reducido á tiempo; ó lo que es lo mismo, diferencias ascensionales.

| Latitud. | Declinacion. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16° | 17° | 18° | 19° | 20° | 21° | 22° | 23° | 24° | 25° | 26° | 27° | 28° | 29° | 30° |
| 0 | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 1 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 | 0. 2 |
| 2 | 0. 2 | 0. 2 | 0. 3 | 0. 3 | 0. 3 | 0. 3 | 0. 3 | 0. 3 | 0. 4 | 0. 4 | 0. 4 | 0. 4 | 0. 4 | 0. 4 | 0. 4 |
| 3 | 0. 3 | 0. 4 | 0. 4 | 0. 4 | 0. 4 | 0. 5 | 0. 5 | 0. 5 | 0. 5 | 0. 6 | 0. 6 | 0. 6 | 0. 6 | 0. 7 | 0. 7 |
| 4 | 0. 5 | 0. 5 | 0. 5 | 0. 5 | 0. 6 | 0. 6 | 0. 6 | 0. 7 | 0. 7 | 0. 7 | 0. 8 | 0. 8 | 0. 9 | 0. 9 | 0. 9 |
| 5 | 0. 6 | 0. 7 | 0. 7 | 0. 7 | 0. 7 | 0. 8 | 0. 8 | 0. 9 | 0. 9 | 0. 9 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 |
| 6 | 0. 7 | 0. 7 | 0. 8 | 0. 8 | 0. 9 | 0. 9 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 |
| 7 | 0. 8 | 0. 9 | 0. 9 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 |
| 8 | 0. 9 | 0.10 | 0.10 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.19 |
| 9 | 0.10 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.21 |
| 10 | 0.12 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 |
| 11 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 |
| 12 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 |
| 13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.31 |
| 14 | 0.16 | 0.17 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.33 |
| 15 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 | 0.26 | 0.27 | 0.29 | 0.30 | 0.31 | 0.33 | 0.34 | 0.36 |
| 16 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 | 0.27 | 0.28 | 0.29 | 0.31 | 0.32 | 0.34 | 0.35 | 0.37 | 0.38 |
| 17 | 0.20 | 0.21 | 0.23 | 0.24 | 0.26 | 0.27 | 0.28 | 0.30 | 0.31 | 0.33 | 0.34 | 0.36 | 0.37 | 0.39 | 0.41 |
| 18 | 0.21 | 0.23 | 0.24 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.40 | 0.41 | 0.43 |
| 19 | 0.23 | 0.24 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.34 | 0.35 | 0.37 | 0.39 | 0.40 | 0.42 | 0.44 | 0.46 |
| 20 | 0.24 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.34 | 0.36 | 0.37 | 0.39 | 0.41 | 0.43 | 0.45 | 0.47 | 0.49 |
| 21 | 0.25 | 0.27 | 0.29 | 0.30 | 0.32 | 0.34 | 0.36 | 0.38 | 0.39 | 0.41 | 0.43 | 0.45 | 0.47 | 0.49 | 0.51 |
| 22 | 0.27 | 0.28 | 0.30 | 0.32 | 0.34 | 0.36 | 0.38 | 0.40 | 0.41 | 0.43 | 0.45 | 0.48 | 0.50 | 0.52 | 0.54 |
| 23 | 0.28 | 0.30 | 0.32 | 0.34 | 0.36 | 0.37 | 0.39 | 0.42 | 0.44 | 0.46 | 0.48 | 0.50 | 0.52 | 0.54 | 0.57 |
| 24 | 0.29 | 0.31 | 0.33 | 0.35 | 0.37 | 0.39 | 0.41 | 0.44 | 0.46 | 0.48 | 0.50 | 0.52 | 0.55 | 0.57 | 1. 0 |
| 25 | 0.31 | 0.33 | 0.35 | 0.37 | 0.39 | 0.41 | 0.43 | 0.46 | 0.48 | 0.50 | 0.53 | 0.55 | 0.57 | 1. 0 | 1. 2 |
| 26 | 0.32 | 0.34 | 0.36 | 0.39 | 0.41 | 0.43 | 0.45 | 0.48 | 0.50 | 0.53 | 0.55 | 0.58 | 1. 0 | 1. 3 | 1. 5 |
| 27 | 0.34 | 0.36 | 0.38 | 0.40 | 0.43 | 0.45 | 0.48 | 0.50 | 0.52 | 0.55 | 0.58 | 1. 0 | 1. 3 | 1. 6 | 1. 8 |
| 28 | 0.35 | 0.37 | 0.40 | 0.42 | 0.45 | 0.47 | 0.50 | 0.52 | 0.55 | 0.57 | 1. 0 | 1. 3 | 1. 6 | 1. 9 | 1.11 |
| 29 | 0.37 | 0.39 | 0.42 | 0.44 | 0.47 | 0.49 | 0.52 | 0.54 | 0.57 | 1. 0 | 1. 3 | 1. 6 | 1. 9 | 1.12 | 1.15 |
| 30 | 0.38 | 0.41 | 0.43 | 0.46 | 0.49 | 0.51 | 0.54 | 0.57 | 1. 0 | 1. 2 | 1. 5 | 1. 8 | 1.11 | 1.15 | 1.18 |
| 31 | 0.40 | 0.42 | 0.45 | 0.48 | 0.51 | 0.53 | 0.56 | 0.59 | 1. 2 | 1. 5 | 1. 8 | 1.11 | 1.14 | 1.18 | 1.21 |
| 32 | 0.41 | 0.44 | 0.47 | 0.50 | 0.53 | 0.56 | 0.58 | 1. 1 | 1. 5 | 1. 8 | 1.11 | 1.14 | 1.18 | 1.21 | 1.25 |
| 33 | 0.43 | 0.46 | 0.49 | 0.52 | 0.55 | 0.58 | 1. 1 | 1. 4 | 1. 7 | 1.11 | 1.14 | 1.17 | 1.21 | 1.24 | 1.28 |
| 34 | 0.45 | 0.48 | 0.51 | 0.54 | 0.57 | 1. 0 | 1. 3 | 1. 7 | 1.10 | 1.13 | 1.17 | 1.20 | 1.24 | 1.28 | 1.32 |
| 35 | 0.46 | 0.49 | 0.53 | 0.56 | 0.59 | 1. 2 | 1. 6 | 1. 9 | 1.13 | 1.16 | 1.20 | 1.24 | 1.27 | 1.31 | 1.35 |
| 36 | 0.48 | 0.51 | 0.55 | 0.58 | 1. 1 | 1. 5 | 1. 8 | 1.12 | 1.16 | 1.19 | 1.23 | 1.27 | 1.31 | 1.35 | 1.39 |
| 37 | 0.50 | 0.53 | 0.57 | 1. 0 | 1. 4 | 1. 7 | 1.11 | 1.15 | 1.18 | 1.22 | 1.26 | 1.30 | 1.34 | 1.39 | 1.43 |
| 38 | 0.52 | 0.55 | 0.59 | 1. 2 | 1. 6 | 1.10 | 1.14 | 1.17 | 1.21 | 1.25 | 1.30 | 1.34 | 1.38 | 1.43 | 1.47 |
| 39 | 0.54 | 0.57 | 1. 1 | 1. 5 | 1. 9 | 1.12 | 1.16 | 1.20 | 1.25 | 1.29 | 1.33 | 1.37 | 1.42 | 1.47 | 1.51 |
| 40 | 0.56 | 0.59 | 1. 3 | 1. 7 | 1.11 | 1.15 | 1.19 | 1.23 | 1.28 | 1.32 | 1.37 | 1.41 | 1.46 | 1.51 | 1.56 |
| 41 | 0.58 | 1. 2 | 1. 6 | 1.10 | 1.14 | 1.18 | 1.22 | 1.27 | 1.31 | 1.36 | 1.40 | 1.45 | 1.50 | 1.55 | 2. 0 |
| 42 | 1. 0 | 1. 4 | 1. 8 | 1.12 | 1.17 | 1.21 | 1.25 | 1.30 | 1.35 | 1.39 | 1.44 | 1.49 | 1.55 | 2. 0 | 2. 5 |
| 43 | 1. 2 | 1. 6 | 1.11 | 1.15 | 1.19 | 1.24 | 1.29 | 1.33 | 1.38 | 1.43 | 1.48 | 1.53 | 1.59 | 2. 4 | 2.10 |
| 44 | 1. 4 | 1. 9 | 1.13 | 1.18 | 1.22 | 1.27 | 1.32 | 1.37 | 1.42 | 1.47 | 1.52 | 1.58 | 2. 4 | 2. 9 | 2.16 |
| 45 | 1. 7 | 1.11 | 1.16 | 1.21 | 1.25 | 1.30 | 1.35 | 1.40 | 1.46 | 1.51 | 1.57 | 2. 3 | 2. 8 | 2.15 | 2.21 |
| 46 | 1. 9 | 1.14 | 1.19 | 1.24 | 1.29 | 1.34 | 1.39 | 1.44 | 1.50 | 1.55 | 2. 1 | 2. 7 | 2.14 | 2.20 | 2.27 |
| 47 | 1.12 | 1.17 | 1.22 | 1.27 | 1.32 | 1.37 | 1.43 | 1.48 | 1.54 | 2. 0 | 2. 6 | 2.12 | 2.19 | 2.26 | 2.33 |
| 48 | 1.14 | 1.19 | 1.25 | 1.30 | 1.35 | 1.41 | 1.47 | 1.53 | 1.59 | 2. 5 | 2.11 | 2.18 | 2.25 | 2.32 | 2.40 |
| 49 | 1.17 | 1.22 | 1.28 | 1.33 | 1.39 | 1.45 | 1.51 | 1.57 | 2. 3 | 2.10 | 2.17 | 2.24 | 2.31 | 2.38 | 2.46 |
| 50 | 1.20 | 1.25 | 1.31 | 1.37 | 1.43 | 1.49 | 1.55 | 2. 2 | 2. 8 | 2.15 | 2.22 | 2.30 | 2.37 | 2.45 | 2.54 |
| 51 | 1.23 | 1.29 | 1.35 | 1.41 | 1.47 | 1.53 | 2. 0 | 2. 6 | 2.13 | 2.21 | 2.28 | 2.36 | 2.44 | 2.53 | 3. 2 |
| 52 | 1.26 | 1.32 | 1.38 | 1.45 | 1.51 | 1.58 | 2. 5 | 2.12 | 2.19 | 2.27 | 2.35 | 2.43 | 2.52 | 3. 1 | 3.11 |
| 53 | 1.29 | 1.36 | 1.42 | 1.49 | 1.56 | 2. 2 | 2.10 | 2.17 | 2.25 | 2.33 | 2.41 | 2.50 | 3. 0 | 3. 9 | 3.20 |
| 54 | 1.33 | 1.40 | 1.46 | 1.53 | 2. 0 | 2. 8 | 2.15 | 2.23 | 2.31 | 2.40 | 2.49 | 2.58 | 3. 8 | 3.19 | 3.30 |
| 55 | 1.37 | 1.44 | 1.51 | 1.58 | 2. 5 | 2.13 | 2.21 | 2.29 | 2.38 | 2.47 | 2.57 | 3. 7 | 3.18 | 3.29 | 3.42 |
| 56 | 1.41 | 1.48 | 1.55 | 2. 3 | 2.11 | 2.19 | 2.27 | 2.36 | 2.45 | 2.55 | 3. 5 | 3.16 | 3.28 | 3.41 | 3.55 |
| 57 | 1.45 | 1.52 | 2. 0 | 2. 8 | 2.16 | 2.25 | 2.34 | 2.43 | 2.53 | 3. 4 | 3.15 | 3.27 | 3.40 | 3.54 | 4.11 |
| 58 | 1.49 | 1.57 | 2. 5 | 2.14 | 2.23 | 2.32 | 2.41 | 2.51 | 3. 2 | 3.13 | 3.25 | 3.38 | 3.53 | 4.10 | 4.30 |
| 59 | 1.54 | 2. 2 | 2.11 | 2.20 | 2.29 | 2.39 | 2.49 | 3. 0 | 3.11 | 3.24 | 3.37 | 3.52 | 4. 9 | 4.29 | 4.52 |
| 60 | 1.59 | 2. 8 | 2.17 | 2.26 | 2.36 | 2.47 | 2.58 | 3. 9 | 3.22 | 3.35 | 3.51 | 4. 8 | 4.28 | 4.55 | 6. 0 |
| 61 | 2. 5 | 2.14 | 2.24 | 2.34 | 2.44 | 2.55 | 3. 7 | 3.20 | 3.34 | 3.49 | 4. 7 | 4.27 | 4.54 | 6. 0 | |
| 62 | 2.11 | 2.20 | 2.31 | 2.41 | 2.53 | 3. 5 | 3.18 | 3.32 | 3.47 | 4. 5 | 4.20 | 4.54 | 6. 0 | | |
| 63 | 2.17 | 2.27 | 2.38 | 2.50 | 3. 2 | 3.16 | 3.30 | 3.46 | 4. 4 | 4.25 | 4.53 | 6. 0 | | | |
| 64 | 2.24 | 2.35 | 2.47 | 3. 0 | 3.13 | 3.28 | 3.44 | 4. 2 | 4.24 | 4.52 | 6. 0 | | | | |

**Tabla XXVI.** **Amplitudes del Sol.**

| Latitud. | Declinacion. 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 6 | 6. 6 | 1. 6 | 2. 0 | 3. 0 | 4. 6 | 6. 0 | 6. 0 | 7. 6 | 8. 0 | 6. 6 | 16. 6 | 11. 6 | 12. 0 |
| 1 | 6. 0 | 1. 6 | 2. 0 | 3. 0 | 4. 6 | 6. 0 | 6. 0 | 7. 6 | 0. 0 | 2. 6 | 16. 0 | 11. 0 | 12. 0 |
| 2 | 6. 6 | 1. 0 | 2. 0 | 3. 0 | 4. 6 | 5. 0 | 6. 0 | 7. 6 | 8. 0 | 2. 6 | 10. 0 | 11. 0 | 12. 0 |
| 3 | 6. 6 | 1. 0 | 2. 0 | 3. 0 | 4. 6 | 5. 0 | 6. 0 | 7. 1 | 8. 1 | 2. 1 | 10. 1 | 11. 1 | 12. 1 |
| 4 | 0. 0 | 1. 0 | 2. 6 | 3. 0 | 4. 1 | 5. 1 | 6. 1 | 7. 1 | 8. 1 | 9. 1 | 10. 2 | 11. 2 | 12. 2 |
| 5 | 0. 0 | 1. 0 | 2. 0 | 3. 0 | 4. 1 | 5. 1 | 6. 1 | 7. 6 | 8. 2 | 2. 2 | 16. 3 | 11. 3 | 12. 3 |
| 6 | 6. 0 | 1. 6 | 2. 0 | 3. 1 | 4. 1 | 5. 1 | 6. 2 | 7. 3 | 8. 3 | 2. 3 | 10. 4 | 11. 4 | 12. 4 |
| 7 | 0. 0 | 1. 6 | 2. 1 | 3. 1 | 4. 6 | 5. 2 | 6. 3 | 7. 4 | 8. 4 | 2. 4 | 10. 5 | 11. 6 | 12. 5 |
| 6 | 6. 6 | 1. 6 | 2. 1 | 3. 2 | 4. 3 | 5. 3 | 6. 4 | 7. 5 | 8. 5 | 2. 6 | 10. 6 | 11. 7 | 12. 7 |
| 6 | 0. 0 | 1. 6 | 2. 1 | 3. 2 | 4. 3 | 5. 3 | 6. 5 | 7. 5 | 8. 6 | 6. 7 | 10. 8 | 11. 8 | 12. 9 |
| 10 | 0. 6 | 1. 1 | 2. 2 | 3. 3 | 4. 4 | 5. 5 | 6. 6 | 7. 7 | 8. 8 | 9. 9 | 10. 10 | 11. 11 | 12. 12 |
| 11 | 0. 0 | 1. 1 | 6. 2 | 3. 3 | 4. 4 | 5. 0 | 6. 7 | 7. 6 | 8. 9 | 9. 10 | 10. 12 | 11. 13 | 12. 14 |
| 12 | 0. 0 | 1. 1 | 2. 3 | 3. 4 | 4. 5 | 5. 7 | 6. 8 | 7. 10 | 8. 11 | 6. 12 | 10. 14 | 11. 15 | 12. 10 |
| 13 | 6. 0 | 1. 2 | 2. 3 | 3. 6 | 4. 0 | 5. 0 | 6. 10 | 7. 11 | 0. 12 | 9. 14 | 10. 15 | 11. 17 | 12. 19 |
| 14 | 6. 0 | 1. 2 | 2. 3 | 3. 5 | 4. 7 | 5. 9 | 6. 11 | 7. 13 | 8. 15 | 2. 17 | 10. 18 | 11. 20 | 12. 22 |
| 16 | 6. 6 | 1. 2 | 2. 4 | 3. 6 | 4. 8 | 5. 11 | 6. 13 | 7. 15 | 6. 17 | 2. 12 | 10. 21 | 11. 23 | 12. 25 |
| 16 | 0. 0 | 1. 3 | 2. 5 | 3. 7 | 4. 10 | 5. 12 | 6. 14 | 7. 17 | 8. 19 | 6. 22 | 10. 24 | 11. 27 | 12. 29 |
| 17 | 0. 0 | 1. 3 | 2. 5 | 3. 8 | 4. 11 | 5. 13 | 6. 10 | 7. 19 | 6. 22 | 2. 25 | 10. 27 | 11. 30 | 12. 33 |
| 18 | 0. 6 | 1. 3 | 2. 6 | 3. 2 | 4. 12 | 5. 15 | 6. 19 | 7. 22 | 8. 25 | 6. 28 | 10. 30 | 11. 34 | 12. 30 |
| 12 | 6. 6 | 1. 3 | 2. 7 | 3. 10 | 4. 14 | 5. 17 | 0. 21 | 7. 24 | 8. 28 | 6. 31 | 10. 34 | 11. 38 | 12. 42 |
| 20 | 6. 6 | 1. 4 | 2. 8 | 3. 12 | 4. 16 | 5. 19 | 0. 63 | 7. 27 | 6. 31 | 2. 35 | 10. 39 | 11. 43 | 12. 47 |
| 21 | 6. 6 | 1. 4 | 2. 9 | 3. 13 | 4. 17 | 5. 21 | 0. 25 | 7. 30 | 8. 34 | 9. 39 | 10. 43 | 11. 48 | 12. 62 |
| 22 | 6. 0 | 1. 5 | 2. 16 | 3. 14 | 4. 19 | 6. 24 | 0. 28 | 7. 33 | 6. 38 | 2. 43 | 10. 48 | 11. 63 | 12. 58 |
| 23 | 6. 0 | 1. 8 | 6. 11 | 3. 15 | 4. 21 | 5. 26 | 6. 31 | 7. 36 | 6. 42 | 2. 47 | 10. 53 | 11. 68 | 13. 3 |
| 24 | 6. 0 | 1. 6 | 6. 12 | 3. 17 | 4. 23 | 5. 29 | 0. 31 | 7. 40 | 8. 46 | 9. 52 | 10. 58 | 12. 4 | 13. 9 |
| 25 | 6. 0 | 1. 6 | 2. 13 | 3. 19 | 4. 25 | 5. 31 | 0. 37 | 7. 44 | 8. 50 | 9. 56 | 11. 3 | 12. 9 | 13. 15 |
| 66 | 6. 0 | 1. 7 | 2. 14 | 3. 21 | 4. 27 | 5. 34 | 0. 41 | 7. 48 | 6. 65 | 10. 1 | 11. 9 | 12. 15 | 13. 22 |
| 27 | 6. 6 | 1. 7 | 2. 15 | 3. 22 | 4. 29 | 5. 37 | 6. 44 | 7. 52 | 6. 59 | 10. 6 | 11. 15 | 12. 22 | 13. 29 |
| 28 | 6. 6 | 1. 8 | 2. 10 | 3. 24 | 4. 32 | 6. 40 | 0. 48 | 7. 56 | 9. 4 | 10. 12 | 11. 21 | 12. 29 | 13. 37 |
| 29 | 0. 0 | 1. 9 | 6. 17 | 3. 66 | 4. 34 | 6. 43 | 0. 52 | 8. 0 | 2. 6 | 10. 18 | 11. 27 | 12. 30 | 13. 45 |
| 30 | 0. 0 | 1. 10 | 2. 19 | 3. 28 | 4. 37 | 6. 47 | 0. 60 | 8. 6 | 9. 15 | 10. 24 | 11. 34 | 12. 44 | 13. 53 |
| 31 | 0. 0 | 1. 10 | 2. 20 | 3. 30 | 4. 40 | 5. 50 | 7. 0 | 6. 16 | 9. 21 | 10. 31 | 11. 41 | 12. 52 | 14. 2 |
| 32 | 0. 0 | 1. 11 | 2. 22 | 3. 33 | 4. 43 | 5. 54 | 7. 8 | 8. 10 | 6. 67 | 10. 38 | 11. 49 | 13. 0 | 14. 11 |
| 33 | 0. 0 | 1. 11 | 2. 23 | 3. 35 | 4. 46 | 5. 58 | 7. 10 | 8. 21 | 9. 33 | 10. 45 | 11. 57 | 13. 9 | 14. 21 |
| 34 | 6. 0 | 1. 12 | 2. 25 | 3. 37 | 4. 50 | 0. 2 | 7. 15 | 6. 27 | 9. 40 | 10. 52 | 12. 5 | 13. 18 | 14. 32 |
| 35 | 0. 0 | 1. 13 | 2. 27 | 3. 40 | 4. 53 | 0. 6 | 7. 20 | 8. 33 | 9. 47 | 11. 0 | 12. 14 | 13. 28 | 14. 43 |
| 36 | 0. 0 | 1. 14 | 2. 28 | 3. 43 | 4. 57 | 6. 11 | 7. 25 | 8. 40 | 9. 54 | 11. 9 | 12. 24 | 13. 39 | 14. 54 |
| 37 | 6. 0 | 1. 15 | 2. 30 | 3. 45 | 6. 1 | 0. 16 | 7. 31 | 6. 47 | 10. 2 | 11. 18 | 12. 34 | 13. 49 | 15. 6 |
| 38 | 0. 0 | 1. 10 | 2. 32 | 3. 48 | 6. 6 | 0. 21 | 7. 37 | 8. 54 | 10. 11 | 11. 27 | 12. 44 | 14. 1 | 15. 18 |
| 39 | 0. 0 | 1. 17 | 2. 34 | 3. 52 | 6. 6 | 0. 20 | 7. 44 | 2. 1 | 10. 19 | 11. 37 | 12. 65 | 14. 13 | 15. 31 |
| 40 | 0. 0 | 1. 18 | 2. 37 | 3. 55 | 5. 14 | 0. 32 | 7. 51 | 2. 9 | 10. 28 | 11. 47 | 13. 6 | 14. 25 | 15. 45 |
| 41 | 0. 0 | 1. 19 | 2. 39 | 3. 59 | 5. 18 | 6. 38 | 7. 58 | 2. 18 | 10. 38 | 11. 58 | 13. 18 | 14. 39 | 10. 0 |
| 42 | 0. 0 | 1. 21 | 2. 41 | 4. 2 | 5. 23 | 0. 44 | 8. 6 | 9. 26 | 10. 48 | 12. 9 | 13. 31 | 14. 53 | 10. 15 |
| 43 | 0. 0 | 1. 22 | 2. 44 | 4. 6 | 6. 28 | 6. 51 | 6. 13 | 9. 35 | 10. 58 | 12. 21 | 13. 44 | 15. 7 | 16. 31 |
| 44 | 0. 0 | 1. 23 | 2. 47 | 4. 10 | 5. 34 | 0. 58 | 8. 21 | 2. 45 | 11. 9 | 12. 34 | 13. 58 | 15. 23 | 15. 48 |
| 45 | 0. 6 | 1. 25 | 2. 50 | 4. 15 | 3. 40 | 7. 5 | 8. 30 | 2. 55 | 11. 21 | 12. 47 | 14. 13 | 15. 39 | 17. 6 |
| 40 | 6. 0 | 1. 26 | 2. 53 | 4. 19 | 5. 40 | 7. 12 | 8. 39 | 10. 0 | 11. 33 | 13. 1 | 14. 29 | 15. 57 | 17. 25 |
| 47 | 0. 0 | 1. 20 | 2. 50 | 4. 24 | 6. 52 | 7. 21 | 6. 49 | 10. 10 | 11. 47 | 13. 16 | 14. 45 | 10. 15 | 17. 45 |
| 48 | 0. 0 | 1. 30 | 2. 59 | 4. 29 | 5. 59 | 7. 29 | 6. 59 | 10. 30 | 12. 1 | 13. 31 | 15. 3 | 10. 34 | 18. 6 |
| 49 | 0. 0 | 1. 31 | 3. 3 | 4. 35 | 6. 6 | 7. 38 | 6. 10 | 10. 42 | 12. 15 | 13. 46 | 15. 21 | 16. 55 | 18. 28 |
| 50 | 0. 0 | 1. 33 | 3. 7 | 4. 40 | 0. 14 | 7. 48 | 6. 21 | 10. 56 | 12. 30 | 14. 6 | 15. 40 | 17. 16 | 18. 52 |
| 51 | 0. 6 | 1. 35 | 3. 11 | 4. 40 | 0. 22 | 7. 60 | 9. 34 | 11. 10 | 12. 47 | 14. 24 | 10. 1 | 17. 32 | 19. 10 |
| 52 | 0. 0 | 1. 37 | 3. 15 | 4. 52 | 6. 30 | 8. 0 | 6. 40 | 11. 65 | 13. 4 | 14. 43 | 16. 23 | 18. 3 | 19. 44 |
| 53 | 0. 0 | 1. 39 | 3. 20 | 4. 59 | 6. 46 | 8. 20 | 16. 6 | 11. 41 | 13. 22 | 15. 4 | 10. 46 | 18. 22 | 20. 13 |
| 54 | 0. 0 | 1. 42 | 3. 24 | 6. 7 | 6. 49 | 8. 32 | 16. 15 | 11. 58 | 13. 42 | 15. 26 | 17. 11 | 18. 57 | 20. 43 |
| 55 | 0. 0 | 1. 45 | 3. 69 | 5. 14 | 6. 59 | 8. 44 | 16. 30 | 12. 10 | 14. 3 | 15. 60 | 17. 37 | 19. 20 | 21. 15 |
| 50 | 0. 0 | 1. 47 | 3. 35 | 5. 22 | 7. 10 | 0. 58 | 16. 40 | 12. 35 | 14. 25 | 10. 15 | 18. 5 | 19. 57 | 21. 50 |
| 57 | 0. 0 | 1. 50 | 3. 41 | 6. 31 | 7. 22 | 9. 13 | 11. 4 | 12. 50 | 14. 48 | 10. 42 | 18. 30 | 20. 31 | 22. 26 |
| 68 | 0. 0 | 1. 53 | 3. 47 | 5. 40 | 7. 34 | 9. 28 | 11. 22 | 13. 18 | 15. 13 | 17. 10 | 19. 8 | 21. 7 | 23. 0 |
| 59 | 0. 0 | 1. 57 | 3. 53 | 5. 50 | 7. 47 | 2. 45 | 11. 43 | 13. 41 | 15. 41 | 17. 41 | 19. 42 | 21. 44 | 23. 49 |
| 00 | 0. 0 | 6. 6 | 4. 0 | 6. 0 | 8. 1 | 10. 2 | 12. 4 | 14. 0 | 10. 10 | 18. 14 | 20. 19 | 22. 20 | 24. 34 |
| 01 | 0. 0 | 2. 4 | 4. 8 | 6. 12 | 8. 16 | 10. 61 | 12. 27 | 14. 34 | 16. 41 | 18. 49 | 20. 59 | 23. 11 | 25. 24 |
| 62 | 0. 0 | 2. 8 | 4. 10 | 6. 24 | 8. 33 | 10. 42 | 12. 52 | 15. 3 | 17. 15 | 19. 28 | 21. 43 | 23. 59 | 26. 17 |
| 03 | 0. 0 | 2. 12 | 4. 25 | 6. 37 | 8. 60 | 11. 4 | 13. 19 | 15. 34 | 17. 51 | 20. 9 | 22. 29 | 24. 51 | 27. 15 |
| 04 | 0. 0 | 2. 17 | 4. 34 | 6. 51 | 9. 6 | 11. 28 | 13. 48 | 16. 8 | 16. 31 | 20. 54 | 23. 20 | 25. 48 | 28. 16 |
| 65 | 0. 0 | 2. 22 | 4. 44 | 6. 7 | 9. 30 | 11. 54 | 14. 19 | 10. 40 | 19. 14 | 21. 43 | 24. 10 | 25. 50 | 29. 28 |

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**Tabla XXVI.** **Amplitudes del Sol.**

| Latitud. | Declinacion. 13° | 14° | 15° | 16° | 17° | 15° | 19° | 25° | 21° | 22° | 23° | 23° 30′ | 23° 45′ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0 | 13. 0 | 14. 0 | 15. 0 | 15. 0 | 17. 0 | 18. 0 | 19. 0 | 20. 0 | 21. 0 | 22. 0 | 23. 0 | 23. 30 | 23. 45 |
| 1 | 13. 0 | 14. 5 | 15. 0 | 16. 0 | 17. 0 | 18. 0 | 19. 0 | 20. 0 | 21. 0 | 22. 0 | 23. 1 | 23. 31 | 23. 46 |
| 2 | 13. 0 | 14. 0 | 15. 0 | 16. 1 | 17. 1 | 18. 1 | 19. 1 | 20. 1 | 21. 1 | 22. 1 | 23. 2 | 23. 32 | 23. 47 |
| 3 | 13. 1 | 14. 1 | 15. 1 | 16. 1 | 17. 2 | 18. 2 | 19. 2 | 20. 2 | 21. 2 | 22. 2 | 23. 3 | 23. 33 | 23. 48 |
| 4 | 13. 2 | 14. 2 | 15. 2 | 16. 2 | 17. 3 | 18. 3 | 19. 3 | 20. 3 | 21. 3 | 22. 3 | 23. 4 | 23. 34 | 23. 49 |
| 5 | 13. 3 | 14. 3 | 15. 4 | 16. 4 | 17. 4 | 18. 4 | 19. 4 | 25. 5 | 21. 5 | 22. 5 | 23. 5 | 23. 36 | 23. 51 |
| 6 | 13. 4 | 14. 4 | 15. 5 | 16. 5 | 17. 5 | 18. 6 | 12. 6 | 20. 7 | 21. 7 | 22. 7 | 23. 8 | 23. 38 | 23. 53 |
| 7 | 13. 6 | 14. 6 | 15. 7 | 16. 7 | 17. 0 | 18. 8 | 19. 9 | 20. 9 | 21.10 | 22.10 | 23.11 | 23 41 | 23. 56 |
| 8 | 13. 8 | 14. 0 | 15. 9 | 16.10 | 17.10 | 18.11 | 19.12 | 20.12 | 21.13 | 22.14 | 23.14 | 23. 44 | 23. 59 |
| 9 | 13.10 | 14.10 | 15.11 | 16.12 | 17.13 | 18.14 | 19.15 | 20.16 | 21.17 | 22.18 | 23.18 | 23. 48 | 24. 3 |
| 10 | 13.13 | 14.14 | 15.15 | 16.16 | 17.17 | 10.18 | 12.19 | 20.20 | 21.21 | 22.22 | 23.23 | 23. 53 | 24. 8 |
| 11 | 13.15 | 14.15 | 15.17 | 15.18 | 17.20 | 18.21 | 12.22 | 20.24 | 21.25 | 22.26 | 23.27 | 23. 58 | 24. 13 |
| 12 | 13.18 | 14.12 | 15.21 | 15.22 | 17.23 | 18.25 | 19.26 | 20.28 | 21.30 | 22.31 | 23.33 | 24. 3 | 24. 18 |
| 13 | 13.21 | 14.22 | 15.24 | 16.26 | 17.28 | 18.30 | 19.31 | 20.33 | 21.35 | 22.37 | 23.39 | 24. 9 | 24. 25 |
| 14 | 13.24 | 14.26 | 15.28 | 16.30 | 17.32 | 18.34 | 19.36 | 20.38 | 21.41 | 22.43 | 23.45 | 24. 16 | 21. 32 |
| 15 | 13.28 | 14.30 | 15.33 | 16.35 | 17.37 | 18.40 | 19.42 | 20.44 | 21.46 | 22.49 | 23 51 | 24. 23 | 24. 39 |
| 16 | 13.32 | 14.34 | 15.37 | 16.40 | 17.43 | 18.45 | 19.48 | 20.51 | 21.53 | 22.56 | 23.59 | 24. 30 | 24. 46 |
| 17 | 13.36 | 14.39 | 15.42 | 16.45 | 17.48 | 10.51 | 12.54 | 20.57 | 22. 0 | 23. 4 | 24. 7 | 24. 38 | 24. 54 |
| 18 | 13.41 | 14.44 | 15.47 | 18.51 | 17.54 | 18.57 | 20. 1 | 21. 5 | 22. 8 | 23.12 | 24.15 | 24. 47 | 25. 3 |
| 19 | 13.46 | 14.50 | 15.53 | 16.57 | 10. 1 | 19. 5 | 20. 8 | 21.12 | 22.16 | 23.21 | 24.24 | 24. 56 | 25. 12 |
| 20 | 13.51 | 14.55 | 15.59 | 17. 4 | 18. 8 | 19.12 | 20.16 | 21.21 | 22.25 | 23.30 | 24.34 | 25. 6 | 25. 22 |
| 21 | 13.57 | 15. 1 | 16. 6 | 17.11 | 10.15 | 19.20 | 20.24 | 21.30 | 22.34 | 23.40 | 24.45 | 25. 17 | 25. 33 |
| 22 | 14. 3 | 15. 8 | 16.13 | 17.18 | 18.23 | 19.28 | 20.33 | 21.39 | 22.44 | 23.50 | 24.56 | 25. 28 | 25. 44 |
| 23 | 14. 9 | 15.15 | 16.20 | 17.26 | 18.31 | 19.37 | 20.43 | 21.49 | 22.55 | 24. 1 | 25. 7 | 25. 40 | 25. 57 |
| 24 | 14.16 | 15.22 | 16.28 | 17.34 | 18.40 | 19.46 | 20.53 | 21.59 | 23. 6 | 24.13 | 25.19 | 25. 53 | 25. 10 |
| 25 | 14.23 | 15.29 | 16.36 | 17.43 | 18.49 | 19.56 | 21. 3 | 22.10 | 23.18 | 24.25 | 25.32 | 26. 6 | 26. 23 |
| 26 | 14.30 | 15.37 | 16.45 | 17.52 | 18.59 | 20. 7 | 21.14 | 22.22 | 23.30 | 24.38 | 25.46 | 26. 20 | 26. 37 |
| 27 | 14.38 | 15.45 | 15.54 | 18. 1 | 19. 2 | 20.18 | 21.26 | 22.34 | 23.43 | 24.52 | 26. 1 | 26. 35 | 26. 52 |
| 28 | 14.46 | 15.54 | 17. 3 | 18.11 | 19.20 | 20.29 | 21.38 | 22.47 | 23.57 | 25. 6 | 26.16 | 26. 51 | 27. 8 |
| 29 | 14.54 | 16. 3 | 17.13 | 18.22 | 12.32 | 20.41 | 21.51 | 23. 1 | 24.12 | 25.22 | 26.32 | 27. 8 | 27. 25 |
| 30 | 15. 3 | 16.13 | 17.23 | 18.34 | 19.44 | 20.54 | 22. 5 | 23.16 | 24.27 | 25.38 | 26.49 | 27. 25 | 27. 43 |
| 31 | 15.13 | 16.23 | 17.34 | 18.46 | 12.57 | 21. 8 | 22.20 | 23.31 | 24.43 | 25.56 | 27. 7 | 27. 44 | 28. 2 |
| 32 | 15.23 | 15.34 | 17.46 | 18.58 | 25.10 | 21.22 | 22.35 | 23.47 | 25. 0 | 26.13 | 27.26 | 28. 3 | 28. 21 |
| 33 | 15.34 | 15.46 | 17.59 | 19.11 | 20.24 | 21.37 | 22.51 | 24. 4 | 25.18 | 26.32 | 27.46 | 28. 24 | 28. 42 |
| 34 | 15.45 | 16.58 | 18.12 | 19.25 | 20.38 | 21.53 | 23. 7 | 24.22 | 25.37 | 26.52 | 20. 7 | 28. 45 | 22. 4 |
| 35 | 15.57 | 17.11 | 18.26 | 19.40 | 20.54 | 22.10 | 23.25 | 24.41 | 25.57 | 27.13 | 28.30 | 29. 6 | 29. 27 |
| 36 | 16. 9 | 17.24 | 18.40 | 19.55 | 21.11 | 22.27 | 23.44 | 25. 1 | 26.18 | 27.35 | 28.53 | 29. 32 | 29. 51 |
| 37 | 15.22 | 17.38 | 18.55 | 20.11 | 21.28 | 22.46 | 24. 3 | 25.21 | 26.40 | 27.58 | 29.17 | 29. 57 | 30. 17 |
| 38 | 16.35 | 17.53 | 19.10 | 20.28 | 21.47 | 23. 5 | 24 24 | 25.43 | 27. 3 | 28.23 | 29.44 | 30. 24 | 30. 44 |
| 39 | 16.50 | 10. 8 | 19.27 | 20.46 | 22. 0 | 23.26 | 24.46 | 26. 7 | 27.28 | 28.49 | 30.11 | 30. 52 | 31. 13 |
| 40 | 17. 5 | 10.25 | 19.45 | 21. 5 | 22.26 | 23.47 | 25. 9 | 25.31 | 27.54 | 29.17 | 35.40 | 31. 22 | 31. 43 |
| 41 | 17.21 | 18.42 | 20. 3 | 21.25 | 22.48 | 24.10 | 25.33 | 26.57 | 28.21 | 29.46 | 31.11 | 31. 54 | 32. 15 |
| 42 | 17.37 | 12. 0 | 20.23 | 21.46 | 23.10 | 24.34 | 25.59 | 27.24 | 28.50 | 30.16 | 31.43 | 32. 27 | 32. 49 |
| 43 | 17.55 | 19.19 | 20.43 | 22. 8 | 23.34 | 25. 0 | 26.26 | 27.53 | 29.20 | 30.49 | 32.18 | 33. 3 | 33. 25 |
| 44 | 18.13 | 12.39 | 21. 5 | 22.32 | 23.59 | 25.26 | 26.55 | 28.24 | 29.53 | 31.23 | 32.54 | 33. 40 | 34. 3 |
| 45 | 18.33 | 20. 0 | 21.28 | 22.57 | 24.25 | 25.55 | 27.25 | 25.55 | 30.27 | 31.59 | 33.33 | 34. 20 | 34. 43 |
| 46 | 18.54 | 20.23 | 21.53 | 23.23 | 24.53 | 26.25 | 27.57 | 29.30 | 31. 3 | 32.38 | 34.14 | 35. 9 | 35. 26 |
| 47 | 19.16 | 20.47 | 22.18 | 23.50 | 25.23 | 26.57 | 28.31 | 30. 6 | 31.42 | 33.19 | 34.57 | 35. 47 | 36. 12 |
| 48 | 19.39 | 21.12 | 22.45 | 24.20 | 25.54 | 27.31 | 29. 7 | 30.44 | 32.23 | 34. 3 | 35.44 | 36. 35 | 37. 0 |
| 49 | 20. 3 | 21.38 | 23.14 | 24.51 | 26.28 | 28. 6 | 29.45 | 31.25 | 33. 6 | 34.49 | 36.33 | 37. 26 | 37. 52 |
| 50 | 20.29 | 22. 7 | 23.45 | 25.24 | 27. 3 | 20.44 | 30.26 | 32. 9 | 33.53 | 35.38 | 37.26 | 30. 20 | 38. 48 |
| 51 | 20.57 | 22.37 | 24.18 | 25.59 | 27.41 | 29.25 | 31. 9 | 32.55 | 34.43 | 36.32 | 38.23 | 39. 19 | 39. 47 |
| 52 | 21.26 | 23. 9 | 24.52 | 26.36 | 28.21 | 30. 7 | 31.56 | 33.45 | 35.36 | 37.29 | 39.24 | 40. 22 | 40. 51 |
| 53 | 21.57 | 23.43 | 25.28 | 27.16 | 29. 4 | 30.54 | 32.45 | 34.38 | 36.33 | 30.30 | 40.29 | 41. 29 | 42. 0 |
| 54 | 22.30 | 24.18 | 26. 7 | 27.58 | 29.50 | 31.43 | 33.38 | 35.35 | 37.34 | 39.36 | 41.40 | 42. 43 | 43. 15 |
| 55 | 23. 6 | 21.57 | 26.50 | 28.43 | 30.32 | 32.36 | 34.35 | 35.36 | 38.40 | 40.47 | 42.55 | 44. 3 | 44. 36 |
| 56 | 23.43 | 25.38 | 27.34 | 29.32 | 31.32 | 33.33 | 35.36 | 37.42 | 39.51 | 42. 4 | 44.20 | 45. 29 | 46. 4 |
| 57 | 21.23 | 26.22 | 28.22 | 30.24 | 32.28 | 34.34 | 36.42 | 38.54 | 41. 9 | 13.27 | 45.51 | 47. 4 | 47. 41 |
| 58 | 25. 7 | 27.15 | 29.14 | 31.20 | 33.22 | 35.40 | 37.54 | 40.12 | 42.33 | 44.59 | 47.30 | 48. 48 | 49. 28 |
| 59 | 25.54 | 28. 1 | 30.10 | 32.21 | 34.35 | 36.52 | 39.12 | 41.37 | 41. 6 | 16.40 | 49.21 | 50. 44 | 51. 26 |
| 60 | 26.44 | 28.56 | 31.10 | 33.27 | 35.47 | 38.10 | 40.37 | 43.10 | 45.47 | 48.32 | 51.21 | 52. 51 | 53. 40 |
| 61 | 27.39 | 22.56 | 32.16 | 34.39 | 37. 5 | 39.36 | 42.11 | 44.52 | 47.40 | 50.36 | 53.42 | 55. 20 | 56. 10 |
| 62 | 28.38 | 31. 1 | 33.27 | 35.57 | 38.31 | 41.10 | 43.55 | 45.46 | 49.46 | 52.56 | 56.20 | 58. 9 | 59. 5 |
| 63 | 29.42 | 32.12 | 34.46 | 37.23 | 40. 5 | 42.54 | 45.49 | 48.53 | 52. 8 | 55.36 | 59.23 | 61. 26 | 62. 31 |
| 64 | 30.52 | 33.30 | 36.11 | 38.58 | 41.50 | 44.49 | 47.58 | 51.17 | 54.50 | 58.43 | 63. 2 | 65. 27 | 66. 45 |
| 65 | 32. 9 | 34.55 | 37.46 | 40.42 | 43.46 | 46.59 | 50.23 | 54. 2 | 57.59 | 62.25 | 67.36 | 70. 39 | 72. 22 |

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**Tabla XXVII.** Para facilitar el cálculo de la ecuacion de alturas correspondientes.

| Intervalo. | | Log. A. | Diferencia por 1.m | Log. B. | Diferencia por 1.m | Intervalo. | | Log. A. | Diferencia por 1.m | Log. B. | Diferencia por 1.m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H. | M. | + | + | + | — | H. | M. | + | + | — | + |
| 2 | 00 | 8.83070 | 8.0 | 0.01564 | 17.8 | 12 | 00 | 8.92185 | 60.9 | B=0 | |
| | 10 | 0.03156 | 9.3 | 8.01386 | 19.3 | | 10 | 0.22794 | 02.2 | 6.56678 | 3070.0 |
| | 20 | 8.03249 | 10.0 | 8.01103 | 20.0 | | 20 | 8.23416 | 63.5 | 6.87383 | 1822.4 |
| | 30 | 8.03349 | 10.8 | 8.00985 | 22.7 | | 30 | 8.24051 | 64.7 | 7.05607 | 1311.9 |
| | 40 | 8.03457 | 11.6 | 8.00750 | 24.6 | | 40 | 8.24608 | 86.0 | 7.18720 | 1031.2 |
| | 50 | 8.03573 | 12.3 | 8.00512 | 26.0 | | 50 | 8.25358 | 87.3 | 7.29038 | 850.0 |
| 3 | 00 | 8.03896 | 13.0 | 8.00252 | 27.1 | 13 | 00 | 8.26031 | 68.7 | 7.37598 | 734.4 |
| | 10 | 0.03820 | 13.6 | 7.99981 | 20.4 | | 10 | 0.26718 | 70.1 | 7.44942 | 044.9 |
| | 20 | 8.03962 | 14.2 | 7.09607 | 31.4 | | 20 | 0.27419 | 71.7 | 7.51391 | 577.4 |
| | 30 | 8.04104 | 14.9 | 7.99373 | 32.0 | | 30 | 8.20138 | 73.3 | 7.57165 | 524.4 |
| | 40 | 0.04253 | 15.0 | 7.90044 | 34.7 | | 40 | 8.28009 | 75.0 | 7.02409 | 481.8 |
| | 50 | 8.04409 | 18.4 | 7.98697 | 38.7 | | 50 | 8.29819 | 70.7 | 7.07227 | 445.6 |
| 4 | 00 | 8.04573 | 17.4 | 7.98330 | 39.0 | | 00 | 8.30380 | 70.1 | 7.71603 | 406.2 |
| | 10 | 8.04747 | 17.8 | 7.97940 | 41.0 | | 10 | 8.31107 | 79.6 | 7.75745 | 402.8 |
| | 20 | 8.04925 | 18.0 | 7.97530 | 43.4 | | 20 | 8.31903 | 61.2 | 7.79773 | 370.7 |
| | 30 | 0.05111 | 19.4 | 7.97090 | 45.3 | | 30 | 8.32775 | 82.8 | 7.03480 | 352.8 |
| | 40 | 8.05305 | 20.3 | 7.96643 | 47.7 | | 40 | 8.33803 | 04.6 | 7.87006 | 336.8 |
| | 50 | 8.05508 | 21.0 | 7.90160 | 50.1 | | 50 | 8.34449 | 86.5 | 7.00371 | 322.7 |
| 5 | 00 | 8.05718 | 21.7 | 7.95665 | 02.6 | 15 | 00 | 8.35314 | 88.4 | 7.93598 | 311.3 |
| | 10 | 8.05935 | 22.5 | 7.95139 | 55.4 | | 10 | 8.30190 | 90.5 | 7.96711 | 298.6 |
| | 20 | 8.06100 | 23.2 | 7.94585 | 58.2 | | 20 | 8.37103 | 92.4 | 7.99697 | 290.0 |
| | 30 | 8.00392 | 24.0 | 7.94003 | 00.0 | | 30 | 6.38027 | 94.5 | 8.02597 | 281.5 |
| | 40 | 8.06832 | 24.7 | 7.93394 | 04.2 | | 40 | 8.38972 | 98.6 | 8.05412 | 273.8 |
| | 50 | 8.06879 | 25.4 | 7.92752 | 07.1 | | 50 | 8.39930 | 98.7 | 8.08150 | 287.3 |
| 6 | 00 | 8.07133 | 26.3 | 7.92081 | 70.7 | 10 | 00 | 8.40925 | 101.1 | 8.10023 | 261.0 |
| | 10 | 8.07396 | 27.1 | 7.91374 | 74.1 | | 10 | 8.41938 | 103.5 | 8.13433 | 255.9 |
| | 20 | 8.07867 | 27.8 | 7.90833 | 77.6 | | 20 | 0.42971 | 105.9 | 8.15999 | 251.1 |
| | 30 | 8.07940 | 28.7 | 7.09057 | 81.9 | | 30 | 8.44030 | 108.5 | 8.10503 | 247.1 |
| | 40 | 8.08232 | 29.4 | 7.89038 | 86.0 | | 40 | 8.45115 | 111.1 | 8.20974 | 243.4 |
| | 50 | 8.08526 | 30.3 | 7.88178 | 90.5 | | 50 | 8.46228 | 113.8 | 8.23408 | 240.1 |
| 7 | 00 | 8.00829 | 31.2 | 7.87273 | 95.1 | 17 | 00 | 0.47364 | 110.8 | 8.25809 | 237.6 |
| | 10 | 8.09141 | 31.9 | 7.86322 | 100.4 | | 10 | 8.48532 | 119.8 | 8.20185 | 235.1 |
| | 20 | 8.09480 | 32.0 | 7.85318 | 105.8 | | 20 | 8.49730 | 122.7 | 8.30538 | 233.3 |
| | 30 | 8.09788 | 33.7 | 7.84260 | 111.4 | | 30 | 0.50957 | 120.1 | 8.32869 | 231.8 |
| | 40 | 8.10120 | 34.0 | 7.83146 | 118.2 | | 40 | 8.52218 | 120.8 | 8.35187 | 230.7 |
| | 50 | 8.10471 | 35.4 | 7.81964 | 124.5 | | 50 | 8.53514 | 133.2 | 8.37494 | 229.9 |
| 8 | 00 | 8.10825 | 36.2 | 7.80719 | 132.1 | 18 | 00 | 8.54846 | 138.9 | 8.39793 | 229.7 |
| | 10 | 0.11187 | 37.1 | 7.79398 | 140.3 | | 10 | 8.58215 | 140.8 | 8.42090 | 229.8 |
| | 20 | 8.11550 | 37.9 | 7.77995 | 149.0 | | 20 | 8.57823 | 145.0 | 8.44308 | 229.8 |
| | 30 | 8.11937 | 38.7 | 7.78505 | 158.6 | | 30 | 8.59073 | 149.4 | 8.46684 | 230.9 |
| | 40 | 8.12324 | 39.8 | 7.74919 | 169.7 | | 40 | 8.00567 | 154.0 | 8.48993 | 231.8 |
| | 50 | 8.12722 | 40.7 | 7.73222 | 180.9 | | 50 | 8.02107 | 159.0 | 8.51311 | 233.3 |
| 9 | 00 | 8.13129 | 41.7 | 7.71413 | 194.4 | 19 | 00 | 8.63897 | 184.3 | 8.53844 | 235.3 |
| | 10 | 8.13546 | 42.0 | 7.69469 | 209.4 | | 10 | 8.85340 | 169.7 | 8.55997 | 237.0 |
| | 20 | 8.13972 | 43.5 | 7.67375 | 225.9 | | 20 | 8.67037 | 175.9 | 8.58370 | 240.6 |
| | 30 | 8.14407 | 44.5 | 7.85110 | 245.1 | | 30 | 8.88798 | 182.2 | 8.60781 | 244.0 |
| | 40 | 8.14852 | 45.5 | 7.62665 | 260.9 | | 40 | 8.70818 | 189.1 | 8.83221 | 247.9 |
| | 50 | 8.15307 | 48.5 | 7.50998 | 290.4 | | 00 | 8.72509 | 196.3 | 8.85700 | 252.8 |
| 10 | 00 | 8.15772 | 47.5 | 7.57092 | 324.3 | 20 | 00 | 8.74472 | 204.5 | 8.68226 | 257.7 |
| | 10 | 8.16247 | 48.5 | 7.53849 | 358.1 | | 10 | 0.78517 | 213.1 | 8.70803 | 263.7 |
| | 20 | 0.16732 | 49.6 | 7.50268 | 401.8 | | 20 | 8.78848 | 222.3 | 8.73440 | 270.5 |
| | 30 | 8.17228 | 50.7 | 7.46252 | 455.1 | | 30 | 8.80871 | 233.3 | 8.78145 | 277.7 |
| | 40 | 8.17735 | 01.8 | 7.41701 | 022.8 | | 40 | 8.83204 | 243.4 | 8.78922 | 287.4 |
| | 80 | 8.18253 | 52.8 | 7.36473 | 012.4 | | 50 | 8.85638 | 256.6 | 8.81796 | 297.0 |
| 11 | 00 | 8.18781 | 53.9 | 7.30349 | 734.0 | 21 | 00 | 8.88204 | 270.4 | 8.84768 | 308.5 |
| | 10 | 8.19320 | 54.9 | 7.23009 | 911.4 | | 10 | 8.90908 | 286.0 | 8.87851 | 321.5 |
| | 20 | 8.19869 | 58.0 | 7.13895 | 1190.9 | | 20 | 8.93773 | 302.4 | 8.91088 | 338.8 |
| | 30 | 8.20429 | 57.3 | 7.01986 | 1701.2 | | 30 | 8.96797 | 323.2 | 8.94432 | 354.2 |
| | 40 | 8.21002 | 58.8 | 6.84974 | 2952.2 | | 40 | 9.00029 | 346.0 | 8.97974 | 374.4 |
| | 50 | 8.21588 | 09.7 | 6.55452 | | | 50 | 9.03489 | 372.2 | 9.01718 | 387.0 |
| | | | | | | 22 | 00 | 9.07211 | | 9.05593 | |

**Tabla XXXI.** Distancias al último punto visible del mar; ó á otros objetos situados aun mas allá de él, y que se ven en parte por razon de su altura.

| Elevac. en pies ingleses. | Distancia en millas. | Elevac. en pies ingleses. | Distancia en millas. | Elevac. en pies ingleses. | Distancia en millas. | Elevac. en pies ingleses. | Distancia en millas |
|---|---|---|---|---|---|---|---|
| 1 | 1.149 | 62 | 9.259 | 372 | 22.022 | 1266 | 36.318 |
| 2 | 1.624 | 72 | 9.602 | 380 | 22.388 | 1106 | 38.091 |
| 3 | 1.262 | 75 | 9.946 | 390 | 22.681 | 1206 | 39.785 |
| 4 | 2.297 | 80 | 10.272 | 400 | 22.970 | 1360 | 41.410 |
| 2 | 2.568 | 85 | 10.589 | 410 | 23.255 | 1400 | 43.022 |
| 6 | 2.213 | 90 | 10.896 | 420 | 23.536 | 1500 | 44.481 |
| 7 | 3.032 | 95 | 11.194 | 430 | 23.616 | 1600 | 45.939 |
| 8 | 3.242 | 100 | 11.465 | 446 | 24.091 | 1700 | 47.353 |
| 9 | 3.445 | 105 | 11.768 | 450 | 24.363 | 1800 | 48.726 |
| 16 | 3.632 | 110 | 12.245 | 460 | 24.632 | 1900 | 50.061 |
| 11 | 3.809 | 115 | 12.316 | 470 | 24.899 | 2000 | 51.362 |
| 12 | 3.972 | 120 | 12.581 | 482 | 25.162 | 2100 | 52.630 |
| 13 | 4.141 | 122 | 12.840 | 490 | 25.423 | 2200 | 53.269 |
| 14 | 4.302 | 130 | 13.095 | 506 | 25.681 | 2300 | 55.079 |
| 12 | 4.442 | 135 | 13.345 | 510 | 25.936 | 2400 | 56.264 |
| 16 | 4.594 | 142 | 13.605 | 520 | 26.190 | 2500 | 57.424 |
| 17 | 4.735 | 142 | 13.830 | 530 | 26.440 | 2600 | 58.561 |
| 18 | 4.873 | 150 | 14.261 | 540 | 26.689 | 2700 | 59.677 |
| 12 | 5.006 | 155 | 14.292 | 550 | 26.934 | 2800 | 60.772 |
| 22 | 2.136 | 160 | 14.527 | 560 | 27.172 | 2920 | 61.848 |
| 21 | 2.263 | 165 | 14.753 | 570 | 27.420 | 3000 | 62.902 |
| 22 | 5.387 | 176 | 14.974 | 586 | 27.659 | 3100 | 63.945 |
| 23 | 5.502 | 175 | 15.193 | 590 | 27.897 | 3200 | 64.968 |
| 24 | 5.626 | 180 | 15.429 | 602 | 28.132 | 3300 | 65.975 |
| 22 | 5.742 | 105 | 15.621 | 616 | 28.365 | 3400 | 66.966 |
| 26 | 2.656 | 190 | 15.831 | 620 | 28.597 | 3560 | 67.945 |
| 27 | 5.268 | 195 | 16.038 | 630 | 28.827 | 3600 | 68.909 |
| 28 | 6.277 | 206 | 16.242 | 640 | 29.055 | 3702 | 69.659 |
| 29 | 6.165 | 205 | 16.444 | 650 | 29.281 | 3800 | 76.797 |
| 30 | 6.291 | 210 | 16.643 | 662 | 29.505 | 3900 | 71.723 |
| 31 | 6.395 | 215 | 16.640 | 670 | 29.726 | 4000 | 72.636 |
| 32 | 6.497 | 226 | 17.035 | 680 | 29.949 | 4100 | 73.539 |
| 33 | 6.528 | 225 | 17.264 | 690 | 30.168 | 4200 | 74.430 |
| 34 | 6.697 | 230 | 17.412 | 702 | 32.386 | 4300 | 75.311 |
| 32 | 6.795 | 235 | 17.606 | 710 | 30.602 | 4402 | 76.182 |
| 36 | 6.891 | 242 | 17.792 | 720 | 30.617 | 4506 | 77.043 |
| 37 | 6.266 | 245 | 17.977 | 730 | 31.030 | 4600 | 77.894 |
| 38 | 7.280 | 252 | 16.159 | 740 | 31.242 | 4790 | 78.736 |
| 32 | 7.172 | 255 | 18.340 | 750 | 31.453 | 4000 | 79.569 |
| 40 | 7.264 | 260 | 12.516 | 760 | 31.662 | 4900 | 80.394 |
| 41 | 7.354 | 255 | 18.696 | 770 | 31.262 | 5000 | 61.210 |
| 42 | 7.443 | 270 | 18.272 | 780 | 32.275 | 5106 | 82.618 |
| 43 | 7.531 | 275 | 19.042 | 720 | 32.280 | 5200 | 22.816 |
| 44 | 7.616 | 280 | 12.218 | 600 | 32.424 | 5306 | 83.611 |
| 45 | 7.724 | 265 | 12.389 | 610 | 32 266 | 2426 | 84.396 |
| 46 | 7.789 | 290 | 19.556 | 620 | 32.886 | 5506 | 85.174 |
| 47 | 7.274 | 295 | 19.726 | 630 | 33.088 | 5600 | 85.242 |
| 42 | 7.257 | 306 | 19.692 | 840 | 33.286 | 5702 | 26.729 |
| 42 | 8.039 | 362 | 20.057 | 250 | 33.484 | 6800 | 67.466 |
| 62 | 8.121 | 312 | 20.221 | 660 | 33.680 | 5900 | 88.217 |
| 51 | 8.202 | 312 | 20.384 | 870 | 33.875 | 6000 | 80.961 |
| 52 | 8.282 | 320 | 22.545 | 680 | 34.070 | 6102 | 82.620 |
| 53 | 8.361 | 325 | 20.705 | 892 | 34.263 | 6202 | 96.432 |
| 54 | 8.440 | 330 | 20.863 | 902 | 34.455 | 6302 | 91.158 |
| 55 | 8.517 | 332 | 21.021 | 912 | 34.645 | 6400 | 91.879 |
| 56 | 2.595 | 340 | 21.177 | 920 | 34.835 | 6562 | 92.594 |
| 57 | 2.671 | 345 | 21.332 | 932 | 35.024 | 6600 | 93.363 |
| 52 | 2.747 | 350 | 21.486 | 942 | 32.212 | 6700 | 94.207 |
| 59 | 8.622 | 355 | 21 639 | 250 | 35.329 | 6002 | 24.706 |
| 66 | 8.626 | 360 | 21.721 | 960 | 32.265 | 6900 | 95.400 |

**Tabla XXXII. Para hallar la hora del paso de la luna por un meridiano cualquiera, y la de la pleamar.**

| Longitud en arco. | Retardo diario del paso meridiano de la luna. 40m | 42m | 44m | 40m | 48m | 50m | 52m | 61m | 50m | 58m | 60m | 62m | 64m | 66m | Longitud en tiempo. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | m | m | m | m | m | m | m | m | m | m | m | m | m | |
| 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 0 | 6 | $0^h$ $0^m$ |
| 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 40 |
| 20 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 1 20 |
| 50 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 0 | 5 | 6 | 5 | 2 0 |
| 40 | 4 | 4 | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 0 | 0 | 7 | 7 | 7 | 2 40 |
| 60 | 5 | 0 | 3 | 0 | 0 | 7 | 7 | 7 | 7 | 8 | 6 | 0 | 9 | 2 | 3 20 |
| 00 | 6 | 7 | 7 | 7 | 8 | 6 | 0 | 2 | 2 | 2 | 10 | 10 | 16 | 11 | 4 0 |
| 70 | 7 | 0 | 0 | 2 | 9 | 2 | 16 | 10 | 10 | 11 | 11 | 12 | 12 | 12 | 4 40 |
| 00 | 2 | 2 | 2 | 10 | 16 | 11 | 11 | 12 | 12 | 12 | 13 | 13 | 14 | 14 | 5 20 |
| 90 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 14 | 14 | 15 | 15 | 10 | 0 0 |
| 100 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 16 | 16 | 16 | 17 | 17 | 10 | 0 40 |
| 110 | 12 | 12 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 10 | 12 | 19 | 7 20 |
| 120 | 13 | 14 | 14 | 15 | 15 | 16 | 17 | 17 | 18 | 19 | 12 | 20 | 26 | 21 | 0 6 |
| 150 | 11 | 10 | 16 | 10 | 17 | 17 | 10 | 19 | 19 | 20 | 21 | 21 | 22 | 23 | 0 40 |
| 140 | 15 | 10 | 17 | 17 | 10 | 19 | 20 | 20 | 21 | 22 | 22 | 25 | 24 | 25 | 9 20 |
| 150 | 15 | 17 | 10 | 12 | 19 | 20 | 21 | 22 | 22 | 23 | 24 | 25 | 25 | 25 | 10 6 |
| 160 | 17 | 10 | 19 | 20 | 21 | 21 | 22 | 25 | 24 | 25 | 20 | 20 | 27 | 28 | 10 40 |
| 176 | 13 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 25 | 26 | 27 | 20 | 29 | 30 | 11 20 |
| 180 | 12 | 20 | 21 | 22 | 23 | 21 | 25 | 25 | 27 | 20 | 29 | 30 | 31 | 32 | 12 0 |

**Para calcular la hora de la pleamar.**

| Paso de la luna por el meridiano. | Semidiámetro de la luna. 14′ 30″ h | m | 14′ 45″ h | m | 15′ 0″ h | m | 15′ 15″ h | m | 15′ 30″ h | m | 15′ 45″ h | m | 16′ 6″ h | m | 16′ 15″ h | m | 16′ 30″ h | m | Paso de la luna por el meridiano. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $0^h$ $6^m$ | —0 | 4 | —0 | 3 | —0 | 2 | —0 | 1 | —0 | 0 | +0 | 1 | +0 | 2 | +0 | 3 | +0 | 6 | $12^h$ $0^m$ |
| 0 20 | —0 | 0 | —0 | 0 | —0 | 7 | —0 | 0 | —0 | 6 | —0 | 4 | —0 | 3 | —6 | 2 | —0 | 1 | 12 20 |
| 0 40 | —0 | 12 | —0 | 12 | —0 | 11 | —0 | 11 | —0 | 10 | —0 | 10 | —0 | 2 | —6 | 2 | —0 | 0 | 12 40 |
| 1 0 | —0 | 17 | —0 | 17 | —0 | 17 | —0 | 10 | —0 | 15 | —0 | 10 | —0 | 13 | —0 | 15 | —0 | 15 | 13 0 |
| 1 20 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | 13 20 |
| 1 40 | —0 | 27 | —0 | 27 | —0 | 27 | —0 | 28 | —0 | 28 | —0 | 28 | —0 | 29 | —0 | 29 | —0 | 29 | 13 40 |
| 2 6 | —0 | 51 | —0 | 31 | —6 | 32 | —0 | 32 | —0 | 35 | —0 | 35 | —0 | 34 | —0 | 35 | —0 | 35 | 14 0 |
| 2 20 | —0 | 36 | —0 | 36 | —0 | 37 | —0 | 38 | —0 | 39 | —0 | 46 | —0 | 41 | —6 | 42 | —0 | 43 | 14 20 |
| 2 40 | —0 | 40 | —0 | 41 | —0 | 42 | —0 | 43 | —0 | 44 | —0 | 45 | —0 | 46 | —6 | 47 | —0 | 49 | 14 40 |
| 3 0 | —0 | 44 | —0 | 45 | —0 | 47 | —0 | 48 | —3 | 42 | —0 | 61 | —0 | 52 | —0 | 54 | —0 | 50 | 15 0 |
| 3 30 | —0 | 49 | —0 | 51 | —0 | 53 | —0 | 55 | —0 | 56 | —0 | 50 | —1 | 0 | —1 | 2 | —1 | 4 | 15 30 |
| 4 0 | —0 | 55 | —0 | 57 | —0 | 62 | —1 | 0 | —1 | 2 | —1 | 5 | —1 | 7 | —1 | 10 | —1 | 12 | 10 0 |
| 4 36 | —0 | 58 | —1 | 0 | —1 | 2 | —1 | 3 | —1 | 5 | —1 | 7 | —1 | 10 | —1 | 13 | —1 | 10 | 16 30 |
| 5 0 | —1 | 6 | —1 | 2 | —1 | 4 | —1 | 0 | —1 | 8 | —1 | 10 | —1 | 15 | —1 | 16 | —1 | 12 | 17 0 |
| 0 30 | —0 | 69 | —1 | 1 | —1 | 3 | —1 | 6 | —1 | 7 | —1 | 9 | —1 | 12 | —1 | 15 | —1 | 10 | 17 30 |
| 6 0 | —0 | 55 | —0 | 56 | —0 | 58 | —1 | 0 | —1 | 2 | —1 | 4 | —1 | 6 | —1 | 2 | —1 | 12 | 13 6 |
| 6 20 | —0 | 42 | —0 | 50 | —0 | 61 | —0 | 62 | —0 | 04 | —0 | 56 | —0 | 58 | —1 | 0 | —1 | 3 | 10 20 |
| 0 40 | —0 | 43 | —0 | 44 | —0 | 45 | —0 | 46 | —0 | 47 | —0 | 48 | —0 | 49 | —0 | 61 | —0 | 53 | 10 40 |
| 0 60 | —0 | 57 | —0 | 37 | —0 | 38 | —0 | 39 | —0 | 40 | —0 | 41 | —0 | 42 | —0 | 45 | —0 | 45 | 18 60 |
| 7 0 | —0 | 32 | —0 | 32 | —0 | 33 | —0 | 33 | —0 | 34 | —0 | 34 | —6 | 35 | —0 | 30 | —0 | 57 | 19 6 |
| 7 10 | —0 | 27 | —0 | 27 | —0 | 27 | —0 | 27 | —0 | 20 | —0 | 20 | —0 | 20 | —0 | 29 | —0 | 22 | 19 10 |
| 7 20 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | —0 | 22 | 19 20 |
| 7 50 | —0 | 16 | —0 | 10 | —0 | 10 | —0 | 15 | —0 | 15 | —0 | 15 | —0 | 14 | —0 | 14 | —0 | 14 | 13 30 |
| 7 40 | —0 | 11 | —0 | 11 | —0 | 10 | —0 | 10 | —0 | 9 | —0 | 9 | —0 | 0 | —0 | 7 | —0 | 6 | 12 40 |
| 7 50 | —0 | 0 | —0 | 6 | —0 | 0 | —0 | 4 | —0 | 3 | —0 | 2 | —0 | 1 | —0 | 6 | +0 | 2 | 19 50 |
| 0 0 | —0 | 1 | —0 | 0 | +0 | 1 | +0 | 2 | +0 | 3 | +0 | 4 | +0 | 0 | +0 | 7 | +0 | 2 | 20 0 |
| 0 20 | +0 | 6 | +0 | 8 | +0 | 7 | +0 | 2 | +0 | 11 | +0 | 13 | +0 | 15 | +0 | 17 | +0 | 12 | 26 20 |
| 0 40 | +0 | 11 | +0 | 12 | +0 | 14 | +0 | 10 | +0 | 13 | +0 | 20 | +0 | 22 | +0 | 25 | +0 | 28 | 20 40 |
| 2 0 | +0 | 14 | +0 | 10 | +0 | 18 | +0 | 20 | +0 | 22 | +0 | 24 | +0 | 25 | +0 | 29 | +0 | 32 | 21 0 |
| 9 30 | +0 | 16 | +0 | 18 | +0 | 20 | +0 | 22 | +0 | 24 | +0 | 27 | +0 | 30 | +0 | 33 | +0 | 36 | 21 30 |
| 10 0 | +0 | 15 | +6 | 17 | +0 | 12 | +0 | 21 | +0 | 23 | +0 | 25 | +0 | 27 | +0 | 30 | +0 | 34 | 22 0 |
| 10 30 | +0 | 12 | +0 | 14 | +0 | 15 | +0 | 17 | +0 | 12 | +0 | 21 | +0 | 23 | +0 | 26 | +0 | 30 | 22 36 |
| 11 0 | +0 | 7 | +0 | 0 | +0 | 15 | +0 | 12 | +0 | 14 | +0 | 16 | +0 | 18 | +0 | 20 | +0 | 23 | 23 6 |
| 11 20 | +0 | 4 | +0 | 5 | +0 | 6 | +0 | 7 | +0 | 9 | +0 | 11 | +0 | 15 | +0 | 15 | +0 | 17 | 23 20 |
| 11 40 | +0 | 0 | +0 | 1 | +0 | 2 | +0 | 3 | +0 | 6 | +0 | 7 | +0 | 0 | +0 | 10 | +0 | 12 | 23 40 |
| 12 0 | —0 | 4 | —0 | 3 | —0 | 2 | —0 | 1 | —0 | 0 | +0 | 1 | +0 | 2 | +0 | 3 | +0 | 5 | 24 0 |

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# TABLAS

PARA

# TRABAJAR LA ESTIMA.

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

0.ʰ 4.ᵐ Para 1 grado. 11.ʰ 56.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.0 | 81 | 61.0 | 01.1 | 121 | 121.8 | 02.1 | 181 | 181.9 | 83.2 | 241 | 241.0 | 04.2 | 301 | 301.0 | 5.3 | 381 | 360.9 | 9.3 | 421 | 420.9 | 7.3 |
| 9 | 82.0 | 08.0 | 82 | 62.0 | 01.1 | 122 | 122.0 | 82.1 | 102 | 182.0 | 83.2 | 242 | 242.0 | 04.2 | 382 | 302.0 | 5.3 | 362 | 301.9 | 0.3 | 422 | 421.9 | 7.4 |
| 3 | 03.0 | 00.1 | 83 | 63.0 | 01.1 | 123 | 123.0 | 82.1 | 183 | 183.0 | 03.2 | 243 | 243.0 | 04.2 | 383 | 303.0 | 5.3 | 363 | 382.9 | 9.3 | 423 | 422.9 | 7.4 |
| 4 | 84.8 | 00.1 | 64 | 64.0 | 01.1 | 124 | 124.0 | 02.2 | 184 | 184.0 | 03.2 | 244 | 244.0 | 94.3 | 304 | 384.8 | 5.3 | 364 | 303.9 | 9.4 | 424 | 423.9 | 7.4 |
| 0 | 85.8 | 00.1 | 65 | 65.0 | 81.1 | 125 | 125.0 | 02.2 | 185 | 185.0 | 03.2 | 245 | 245.0 | 64.3 | 305 | 385.8 | 5.3 | 365 | 304.9 | 6.4 | 495 | 424.2 | 7.4 |
| 0 | 86.0 | 00.1 | 06 | 80.0 | 01.9 | 126 | 128.0 | 82.2 | 180 | 186.0 | 83.2 | 246 | 248.0 | 84.3 | 308 | 300.0 | 5.3 | 388 | 305.0 | 0.4 | 420 | 420.9 | 7.4 |
| 7 | 67.8 | 08.1 | 07 | 57.8 | 01.2 | 127 | 127.0 | 82.2 | 167 | 167.0 | 03.3 | 947 | 247.0 | 04.3 | 387 | 387.8 | 5.4 | 367 | 360.0 | 9.4 | 427 | 420.0 | 7.4 |
| 0 | 08.0 | 08.1 | 68 | 08.8 | 81.2 | 128 | 128.0 | 02.2 | 100 | 180.8 | 03.3 | 240 | 248.0 | 84.3 | 300 | 308.8 | 5.4 | 308 | 387.9 | 9.4 | 428 | 427.9 | 7.0 |
| 2 | 02.0 | 00.2 | 82 | 09.0 | 01.2 | 129 | 129.0 | 02.3 | 189 | 189.0 | 03.3 | 249 | 949.0 | 04.3 | 309 | 380.0 | 0.4 | 360 | 360.9 | 9.4 | 429 | 428.9 | 7.5 |
| 18 | 18.0 | 08.2 | 78 | 70.0 | 01.9 | 130 | 130.0 | 82.3 | 198 | 108.0 | 03.3 | 250 | 258.0 | 04.4 | 310 | 310.8 | 0.4 | 378 | 300.9 | 6.8 | 438 | 429.9 | 7.5 |
| 11 | 11.9 | 08.2 | 71 | 71.0 | 01.2 | 131 | 131.8 | 02.3 | 191 | 101.8 | 03.3 | 251 | 251.0 | 04.4 | 311 | 311.8 | 0.4 | 371 | 370.9 | 0.5 | 431 | 430.0 | 7.5 |
| 12 | 12.0 | 80.2 | 72 | 72.0 | 01.3 | 132 | 132.0 | 82.3 | 199 | 192.8 | 03.4 | 252 | 252.0 | 04.4 | 312 | 312.0 | 0.4 | 372 | 371.9 | 9.5 | 432 | 431.0 | 7.6 |
| 13 | 13.0 | 00.2 | 73 | 73.8 | 01.3 | 133 | 133.0 | 02.3 | 123 | 193.8 | 03.4 | 253 | 253.0 | 04.4 | 313 | 313.0 | 0.5 | 373 | 372.0 | 6.5 | 433 | 439.0 | 7.5 |
| 14 | 14.0 | 88.2 | 74 | 74.0 | 01.3 | 134 | 134.0 | 09.3 | 194 | 194.0 | 03.4 | 254 | 254.0 | 04.4 | 314 | 314.0 | 0.5 | 374 | 373.9 | 0.5 | 434 | 433.9 | 7.0 |
| 15 | 18.0 | 08.3 | 75 | 78.0 | 01.3 | 135 | 135.0 | 02.4 | 195 | 195.0 | 83.4 | 255 | 255.0 | 04.5 | 315 | 318.0 | 0.5 | 378 | 374.9 | 6.8 | 435 | 434.9 | 7.0 |
| 16 | 10.0 | 00.3 | 76 | 70.0 | 01.3 | 136 | 138.0 | 82.4 | 190 | 196.8 | 03.4 | 258 | 258.0 | 04.5 | 316 | 319.0 | 0.8 | 376 | 375.9 | 6.6 | 430 | 435.9 | 7.0 |
| 17 | 17.0 | 80.3 | 77 | 77.8 | 01.3 | 137 | 137.0 | 02.4 | 127 | 197.8 | 03.4 | 257 | 257.6 | 84.5 | 317 | 317.0 | 0.8 | 377 | 370.9 | 0.6 | 437 | 439.9 | 7.6 |
| 10 | 10.0 | 00.3 | 70 | 78.0 | 01.4 | 138 | 138.0 | 02.4 | 108 | 198.8 | 83.5 | 258 | 258.0 | 04.0 | 318 | 318.0 | 0.5 | 378 | 377.9 | 6.0 | 438 | 437.9 | 7.0 |
| 19 | 19.0 | 00.3 | 70 | 79.0 | 01.4 | 139 | 139.0 | 82.4 | 129 | 199.8 | 93.8 | 250 | 259.0 | 04.5 | 319 | 312.0 | 0.0 | 379 | 370.9 | 0.6 | 439 | 430.9 | 7.7 |
| 28 | 28.0 | 00.3 | 80 | 80.0 | 01.4 | 140 | 148.0 | 02.4 | 208 | 280.8 | 03.5 | 280 | 280.0 | 04.5 | 320 | 328.0 | 0.8 | 380 | 370.9 | 9.8 | 440 | 430.0 | 7.7 |
| 21 | 21.0 | 00.4 | 81 | 81.0 | 01.4 | 141 | 141.8 | 02.5 | 281 | 201.8 | 03.5 | 261 | 261.8 | 84.6 | 321 | 321.8 | 0.0 | 381 | 380.9 | 0.7 | 441 | 440.9 | 7.7 |
| 22 | 22.0 | 08.4 | 82 | 82.0 | 01.4 | 142 | 142.0 | 82.5 | 202 | 202.0 | 03.5 | 282 | 282.0 | 04.6 | 322 | 322.8 | 0.8 | 382 | 301.9 | 0.7 | 442 | 441.9 | 7.7 |
| 93 | 23.0 | 08.4 | 83 | 83.8 | 01.4 | 113 | 143.0 | 82.5 | 903 | 203.8 | 03.5 | 263 | 263.8 | 84.8 | 323 | 323.8 | 0.6 | 303 | 382.9 | 6.7 | 443 | 442.9 | 7.7 |
| 24 | 24.0 | 00.4 | 84 | 84.0 | 01.5 | 144 | 144.0 | 02.5 | 284 | 204.8 | 03.6 | 264 | 264.0 | 04.6 | 324 | 324.8 | 9.6 | 384 | 383.0 | 9.7 | 444 | 443.9 | 7.7 |
| 25 | 95.0 | 08.4 | 85 | 85.0 | 81.5 | 145 | 145.0 | 02.5 | 205 | 205.0 | 03.6 | 205 | 285.0 | 94.6 | 325 | 328.0 | 0.7 | 385 | 384.9 | 9.7 | 448 | 444.9 | 7.9 |
| 20 | 29.6 | 08.5 | 08 | 80.0 | 01.8 | 148 | 148.0 | 82.5 | 289 | 280.0 | 03.9 | 296 | 286.0 | 94.9 | 326 | 329.0 | 5.7 | 388 | 305.9 | 0.7 | 440 | 445.9 | 7.0 |
| 27 | 27.0 | 08.5 | 07 | 87.0 | 01.5 | 147 | 147.0 | 02.6 | 207 | 207.0 | 03.6 | 267 | 267.0 | 04.7 | 327 | 327.0 | 0.7 | 387 | 380.9 | 0.8 | 447 | 446.9 | 7.0 |
| 28 | 28.0 | 80.5 | 88 | 88.0 | 91.5 | 140 | 148.9 | 82.8 | 208 | 280.0 | 03.6 | 268 | 286.0 | 04.7 | 328 | 328.0 | 0.7 | 308 | 387.0 | 9.0 | 440 | 447.2 | 7.9 |
| 99 | 29.0 | 80.5 | 89 | 89.8 | 01.0 | 149 | 140.0 | 02.9 | 200 | 209.8 | 83.0 | 289 | 269.0 | 64.7 | 329 | 320.0 | 0.7 | 380 | 388.0 | 0.0 | 449 | 440.9 | 7.0 |
| 38 | 30.0 | 00.5 | 90 | 90.0 | 01.0 | 100 | 100.0 | 02.6 | 210 | 210.0 | 03.7 | 270 | 970.0 | 84.7 | 338 | 330.0 | 0.8 | 390 | 389.9 | 5.8 | 450 | 449.9 | 7.0 |
| 31 | 31.0 | 00.5 | 91 | 91.0 | 01.0 | 151 | 151.0 | 82.6 | 211 | 211.0 | 03.7 | 271 | 271.0 | 84.7 | 331 | 331.0 | 0.8 | 391 | 390.9 | 0.8 | 451 | 450.9 | 7.0 |
| 39 | 32.0 | 80.6 | 92 | 99.0 | 01.6 | 152 | 152.0 | 02.7 | 219 | 212.8 | 03.7 | 272 | 272.0 | 04.7 | 332 | 332.0 | 0.0 | 392 | 391.0 | 9.0 | 452 | 451.9 | 7.9 |
| 33 | 33.0 | 80.6 | 93 | 93.0 | 01.0 | 153 | 153.0 | 82.7 | 213 | 213.6 | 03.7 | 273 | 273.0 | 04.8 | 333 | 333.0 | 0.8 | 393 | 392.9 | 0.9 | 453 | 452.9 | 7.9 |
| 34 | 34.0 | 80.6 | 94 | 04.0 | 01.6 | 154 | 154.0 | 02.7 | 214 | 214.8 | 03.7 | 274 | 274.0 | 04.0 | 334 | 333.9 | 9.0 | 394 | 393.9 | 0.2 | 454 | 453.0 | 7.9 |
| 35 | 35.9 | 80.6 | 95 | 95.0 | 01.7 | 158 | 150.0 | 02.7 | 215 | 215.8 | 03.8 | 275 | 275.0 | 04.8 | 335 | 334.9 | 0.0 | 395 | 394.9 | 0.9 | 455 | 454.9 | 7.9 |
| 30 | 36.0 | 80.6 | 90 | 06.0 | 01.7 | 156 | 156.9 | 02.7 | 210 | 210.0 | 03.8 | 270 | 276.0 | 04.0 | 336 | 335.9 | 0.0 | 398 | 395.9 | 6.0 | 456 | 455.9 | 8.0 |
| 37 | 37.0 | 00.0 | 97 | 97.8 | 01.7 | 157 | 107.0 | 92.7 | 217 | 217.0 | 03.8 | 277 | 277.0 | 04.0 | 337 | 330.9 | 0.0 | 397 | 398.9 | 9.9 | 487 | 450.9 | 6.0 |
| 30 | 38.0 | 00.7 | 08 | 00.0 | 81.7 | 158 | 158.0 | 02.0 | 210 | 210.0 | 03.8 | 270 | 270.9 | 04.9 | 330 | 337.9 | 0.9 | 398 | 397.9 | 0.9 | 450 | 457.9 | 9.0 |
| 30 | 39.9 | 00.7 | 99 | 90.0 | 01.7 | 159 | 150.0 | 02.0 | 210 | 910.8 | 03.0 | 279 | 272.9 | 04.9 | 339 | 338.9 | 9.9 | 392 | 396.9 | 7.0 | 450 | 450.9 | 8.0 |
| 48 | 48.0 | 00.7 | 100 | 180.0 | 91.7 | 160 | 160.0 | 02.8 | 290 | 290.0 | 03.8 | 200 | 200.0 | 84.9 | 340 | 339.0 | 0.9 | 400 | 399.9 | 7.0 | 460 | 450.0 | 8.0 |
| 41 | 41.0 | 80.7 | 101 | 181.0 | 01.0 | 101 | 101.0 | 02.0 | 221 | 221.0 | 03.9 | 201 | 261.0 | 84.9 | 341 | 340.9 | 0.0 | 401 | 480.9 | 7.0 | 401 | 400.9 | 8.0 |
| 42 | 42.0 | 00.7 | 102 | 182.0 | 01.8 | 102 | 162.0 | 92.0 | 222 | 222.0 | 03.0 | 262 | 282.0 | 04.9 | 342 | 341.0 | 0.0 | 482 | 481.0 | 7.0 | 402 | 461.9 | 8.1 |
| 43 | 43.0 | 00.0 | 163 | 183.8 | 01.0 | 103 | 103.0 | 02.8 | 223 | 223.6 | 93.0 | 283 | 283.9 | 04.9 | 343 | 342.0 | 6.0 | 483 | 402.9 | 7.0 | 403 | 482.9 | 0.1 |
| 44 | 44.0 | 00.0 | 184 | 164.0 | 01.9 | 164 | 164.0 | 02.9 | 924 | 224.8 | 93.0 | 904 | 204.0 | 05.0 | 344 | 343.0 | 6.8 | 484 | 483.9 | 7.1 | 464 | 483.9 | 0.1 |
| 45 | 45.0 | 00.8 | 185 | 105.8 | 91.0 | 155 | 165.0 | 02.9 | 225 | 225.0 | 03.9 | 280 | 260.9 | 00.0 | 345 | 344.9 | 6.0 | 480 | 404.9 | 7.1 | 465 | 404.9 | 9.1 |
| 40 | 46.0 | 00.0 | 180 | 186.8 | 81.0 | 166 | 166.0 | 99.0 | 220 | 226.0 | 03.9 | 286 | 289.0 | 65.0 | 340 | 345.0 | 6.0 | 488 | 405.9 | 7.1 | 406 | 405.9 | 8.1 |
| 47 | 47.0 | 00.8 | 167 | 167.9 | 01.0 | 197 | 197.9 | 92.9 | 227 | 927.9 | 94.0 | 207 | 207.0 | 05.0 | 347 | 340.0 | 6.1 | 407 | 400.9 | 7.1 | 467 | 400.9 | 9.1 |
| 40 | 40.0 | 00.8 | 108 | 189.0 | 01.9 | 100 | 168.0 | 02.9 | 228 | 228.0 | 04.0 | 206 | 200.0 | 00.0 | 340 | 347.0 | 9.1 | 408 | 407.9 | 7.1 | 466 | 487.9 | 8.2 |
| 49 | 49.0 | 00.9 | 109 | 109.8 | 01.9 | 109 | 109.9 | 02.9 | 229 | 229.0 | 04.0 | 200 | 200.9 | 05.0 | 349 | 340.0 | 9.1 | 409 | 400.9 | 7.1 | 409 | 408.9 | 0.9 |
| 50 | 50.0 | 00.9 | 110 | 110.0 | 01.9 | 170 | 170.0 | 03.0 | 230 | 230.0 | 04.0 | 999 | 290.0 | 85.1 | 350 | 349.0 | 6.1 | 410 | 480.9 | 7.2 | 479 | 409.9 | 9.2 |
| 01 | 01.0 | 00.9 | 111 | 111.0 | 01.9 | 171 | 171.0 | 03.0 | 931 | 231.9 | 04.0 | 291 | 291.0 | 05.1 | 351 | 350.9 | 9.1 | 411 | 410.9 | 7.2 | 471 | 470.9 | 8.2 |
| 82 | 82.0 | 00.9 | 112 | 112.0 | 99.0 | 172 | 179.0 | 03.0 | 232 | 232.0 | 04.0 | 299 | 292.0 | 00.1 | 352 | 351.9 | 9.1 | 412 | 411.9 | 7.2 | 472 | 471.2 | 0.2 |
| 03 | 53.0 | 80.9 | 113 | 113.8 | 02.0 | 173 | 173.0 | 03.0 | 233 | 233.6 | 04.1 | 993 | 203.0 | 05.1 | 353 | 352.9 | 6.2 | 413 | 412.9 | 7.2 | 473 | 472.9 | 8.2 |
| 04 | 54.0 | 00.9 | 114 | 114.0 | 02.0 | 174 | 174.0 | 03.9 | 234 | 234.0 | 64.1 | 294 | 294.0 | 85.1 | 354 | 353.0 | 6.2 | 414 | 413.9 | 7.2 | 474 | 473.9 | 8.3 |
| 55 | 55.0 | 01.0 | 115 | 110.0 | 02.0 | 175 | 175.0 | 93.1 | 235 | 235.0 | 04.1 | 295 | 290.0 | 05.1 | 355 | 354.0 | 6.2 | 415 | 414.9 | 7.2 | 475 | 474.9 | 0.3 |
| 50 | 06.0 | 01.0 | 116 | 110.6 | 02.0 | 176 | 176.9 | 03.1 | 230 | 230.0 | 04.1 | 299 | 296.0 | 05.2 | 350 | 305.0 | 6.2 | 410 | 415.9 | 7.3 | 470 | 475.2 | 8.3 |
| 57 | 07.0 | 01.0 | 117 | 117.0 | 02.0 | 177 | 177.0 | 03.1 | 237 | 237.9 | 64.1 | 297 | 297.0 | 00.2 | 357 | 356.0 | 6.2 | 417 | 416.9 | 7.3 | 477 | 470.9 | 6.0 |
| 58 | 00.0 | 01.0 | 118 | 110.0 | 02.1 | 170 | 170.0 | 93.1 | 236 | 230.0 | 04.2 | 298 | 290.0 | 00.2 | 356 | 357.0 | 9.2 | 410 | 417.9 | 7.3 | 478 | 477.9 | 0.3 |
| 09 | 59.8 | 01.0 | 119 | 119.0 | 02.1 | 179 | 179.0 | 03.1 | 239 | 239.0 | 04.2 | 299 | 299.0 | 05.2 | 359 | 358.9 | 6.3 | 419 | 418.9 | 7.3 | 479 | 478.0 | 8.4 |
| 68 | 68.0 | 01.0 | 120 | 120.0 | 02.1 | 180 | 100.0 | 03.1 | 240 | 240.0 | 04.2 | 300 | 300.0 | 05.2 | 360 | 359.9 | 6.3 | 420 | 419.9 | 7.3 | 480 | 479.9 | 8.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 56.ᵐ Para 89 grados. 6.ʰ 4.ᵐ

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

0.ʰ 8.ᵐ — Para 2 grados. — 11.ʰ 52.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.0 | 01 | 01.0 | 02.1 | 121 | 120.9 | 04.2 | 161 | 160.9 | 06.3 | 211 | 249.9 | 08.4 | 301 | 300.6 | 19.5 | 381 | 360.8 | 12.8 | 421 | 490.0 | 14.7 |
| 2 | 02.0 | 00.1 | 02 | 62.0 | 02.2 | 129 | 121.2 | 04.3 | 182 | 161.2 | 00.4 | 242 | 241.9 | 06.4 | 802 | 301.8 | 19.5 | 362 | 361.8 | 19.0 | 429 | 491.8 | 14.7 |
| 3 | 93.0 | 09.1 | 03 | 63.0 | 92.2 | 123 | 122.9 | 04.3 | 183 | 182.2 | 06.4 | 243 | 242.0 | 08.5 | 303 | 302.8 | 10.0 | 363 | 362.8 | 12.7 | 423 | 492.6 | 14.7 |
| 4 | 84.9 | 09.1 | 64 | 64.0 | 92.2 | 124 | 123.9 | 04.3 | 164 | 183.9 | 06.4 | 244 | 243.9 | 06.5 | 304 | 303.8 | 19.8 | 364 | 363.6 | 12.7 | 424 | 423.0 | 14.8 |
| 8 | 90.0 | 00.2 | 05 | 05.9 | 92.3 | 125 | 124.9 | 04.4 | 185 | 184.9 | 06.0 | 243 | 244.2 | 06.6 | 305 | 304.8 | 10.6 | 365 | 364.0 | 12.7 | 425 | 424.0 | 14.6 |
| 0 | 06.0 | 00.2 | 66 | 60.0 | 02.3 | 126 | 125.9 | 04.4 | 186 | 185.9 | 98.5 | 246 | 245.0 | 08.6 | 306 | 305.6 | 10.7 | 366 | 365.0 | 12.6 | 426 | 495.7 | 14.9 |
| 7 | 07.9 | 09.2 | 07 | 07.0 | 02.3 | 127 | 126.2 | 04.4 | 187 | 166.9 | 06.5 | 247 | 246.0 | 06.6 | 307 | 300.0 | 10.7 | 367 | 366.0 | 12.6 | 427 | 420.7 | 14.9 |
| 8 | 09.0 | 00.3 | 68 | 08.0 | 02.4 | 128 | 127.9 | 04.5 | 166 | 187.2 | 08.6 | 248 | 247.0 | 08.7 | 306 | 307.8 | 10.7 | 366 | 367.0 | 12.6 | 420 | 427.7 | 14.9 |
| 9 | 92.0 | 90.3 | 62 | 69.0 | 09.4 | 129 | 120.2 | 04.5 | 189 | 188.9 | 06.6 | 249 | 248.0 | 06.7 | 399 | 306.6 | 10.6 | 389 | 368.0 | 12.0 | 429 | 428.7 | 10.9 |
| 19 | 10.0 | 00.3 | 70 | 70.0 | 02.4 | 130 | 129.9 | 04.5 | 120 | 160.2 | 00.6 | 250 | 249.8 | 00.7 | 310 | 309.8 | 10.8 | 379 | 389.0 | 12.9 | 430 | 422.7 | 15.0 |
| 11 | 11.0 | 90.4 | 71 | 71.9 | 02.5 | 151 | 130.0 | 04.6 | 121 | 120.0 | 96.7 | 251 | 250.0 | 08.8 | 311 | 319.8 | 19.6 | 371 | 370.8 | 19.9 | 431 | 436.7 | 10.0 |
| 12 | 12.0 | 09.4 | 72 | 79.0 | 02.5 | 132 | 131.9 | 04.6 | 122 | 121.9 | 06.7 | 252 | 251.6 | 08.8 | 312 | 311.6 | 10.9 | 372 | 371.6 | 13.9 | 432 | 431.7 | 10.1 |
| 13 | 13.0 | 09.5 | 73 | 73.9 | 92.0 | 133 | 132.9 | 04.0 | 193 | 192.9 | 80.7 | 253 | 252.6 | 96.8 | 313 | 312.8 | 10.9 | 373 | 372.6 | 13.0 | 433 | 432.7 | 10.1 |
| 14 | 14.9 | 09.5 | 74 | 74.0 | 82.0 | 134 | 138.9 | 04.7 | 194 | 193.2 | 80.8 | 254 | 253.8 | 08.2 | 314 | 313.6 | 19.9 | 374 | 373.0 | 13.9 | 634 | 433.7 | 10.1 |
| 15 | 10.9 | 99.0 | 75 | 75.0 | 02.6 | 135 | 134.9 | 04.7 | 195 | 194.9 | 08.8 | 255 | 254.0 | 08.2 | 310 | 314.8 | 11.0 | 370 | 374.0 | 13.1 | 430 | 434.7 | 15.2 |
| 10 | 10.0 | 09.6 | 70 | 78.0 | 09.7 | 136 | 135.9 | 04.7 | 196 | 125.2 | 08.8 | 250 | 255.6 | 08.9 | 310 | 315.8 | 11.9 | 370 | 370.6 | 10.1 | 436 | 435.7 | 15.2 |
| 17 | 17.0 | 00.8 | 77 | 77.0 | 02.7 | 137 | 130.9 | 04.8 | 127 | 120.9 | 06.9 | 257 | 250.6 | 09.0 | 317 | 310.0 | 11.9 | 377 | 370.8 | 13.1 | 437 | 438.7 | 15.2 |
| 10 | 10.0 | 00.6 | 76 | 70.0 | 02.7 | 188 | 137.9 | 04.8 | 196 | 197.9 | 06.9 | 256 | 257.8 | 02.0 | 316 | 317.8 | 11.1 | 370 | 377.6 | 13.2 | 436 | 437.7 | 15.3 |
| 19 | 12.0 | 09.7 | 79 | 72.0 | 02.8 | 139 | 138.9 | 94.9 | 199 | 198.9 | 06.0 | 252 | 258.0 | 02.0 | 319 | 316.6 | 11.1 | 379 | 370.8 | 13.2 | 432 | 430.7 | 15.3 |
| 20 | 29.0 | 00.7 | 00 | 60.0 | 02.8 | 140 | 132.9 | 04.9 | 999 | 199.2 | 07.0 | 260 | 259.0 | 09.1 | 320 | 319.8 | 11.2 | 380 | 379.6 | 13.2 | 440 | 439.7 | 10.3 |
| 21 | 21.0 | 00.7 | 01 | 61.0 | 02.8 | 141 | 140.9 | 94.9 | 201 | 200.9 | 07.0 | 261 | 260.0 | 09.1 | 321 | 320.0 | 11.2 | 381 | 380.0 | 13.3 | 441 | 440.7 | 10.4 |
| 22 | 99.8 | 90.8 | 02 | 62.0 | 02.9 | 142 | 141.9 | 00.9 | 202 | 201.9 | 07.0 | 902 | 261.6 | 09.1 | 329 | 321.8 | 11.2 | 302 | 301.0 | 13.3 | 442 | 441.7 | 10.4 |
| 93 | 23.0 | 60.8 | 03 | 82.0 | 62.2 | 143 | 142.9 | 05.8 | 293 | 292.9 | 07.1 | 263 | 262.8 | 09.2 | 323 | 392.8 | 11.3 | 383 | 362.8 | 13.3 | 443 | 442.7 | 15.4 |
| 94 | 94.0 | 99.8 | 84 | 63.9 | 62.9 | 144 | 143.9 | 05.0 | 264 | 900.9 | 07.1 | 964 | 208.0 | 09.2 | 324 | 323.0 | 11.3 | 384 | 383.6 | 13.4 | 444 | 443.7 | 15.5 |
| 95 | 25.0 | 90.9 | 85 | 84.9 | 93.6 | 145 | 144.0 | 05.1 | 205 | 204.9 | 07.2 | 260 | 264.6 | 89.2 | 325 | 394.6 | 11.3 | 386 | 384.6 | 13.4 | 445 | 444.7 | 15.5 |
| 20 | 96.0 | 69.9 | 86 | 85.9 | 83.0 | 140 | 140.9 | 00.1 | 200 | 295.9 | 87.9 | 266 | 265.0 | 09.3 | 396 | 395.6 | 11.4 | 386 | 385.0 | 13.5 | 446 | 445.7 | 15.0 |
| 27 | 97.0 | 00.9 | 07 | 88.9 | 63.6 | 147 | 148.9 | 05.1 | 207 | 206.9 | 07.2 | 267 | 266.8 | 09.3 | 397 | 326.6 | 11.4 | 387 | 386.8 | 13.5 | 447 | 440.7 | 15.8 |
| 98 | 28.0 | 01.0 | 86 | 67.9 | 03.1 | 148 | 147.9 | 65.2 | 208 | 297.9 | 07.3 | 268 | 207.8 | 09.4 | 328 | 327.8 | 11.4 | 388 | 367.6 | 13.5 | 448 | 447.7 | 15.0 |
| 29 | 29.0 | 01.0 | 82 | 60.9 | 03.1 | 149 | 148.9 | 66.9 | 909 | 208.9 | 07.3 | 909 | 268.0 | 00.4 | 329 | 328.0 | 11.5 | 389 | 386.0 | 13.6 | 449 | 448.7 | 18.7 |
| 36 | 38.0 | 01.0 | 90 | 62.9 | 03.1 | 150 | 140.9 | 05.2 | 219 | 909.9 | 07.8 | 278 | 260.8 | 09.4 | 380 | 329.6 | 11.5 | 398 | 389.8 | 13.6 | 450 | 442.7 | 15.7 |
| 31 | 31.0 | 01.1 | 91 | 90.9 | 03.9 | 151 | 150.9 | 00.3 | 211 | 219.9 | 07.4 | 971 | 270.0 | 02.5 | 331 | 330.0 | 11.5 | 391 | 890.8 | 13.0 | 451 | 459.7 | 15.7 |
| 32 | 32.9 | 01.1 | 92 | 91.0 | 03.9 | 152 | 151.9 | 00.3 | 912 | 211.9 | 07.4 | 272 | 271.8 | 09.6 | 332 | 331.0 | 11.6 | 399 | 391.8 | 13.7 | 459 | 451.7 | 15.6 |
| 33 | 33.0 | 01.2 | 93 | 22.0 | 03.2 | 163 | 159.2 | 00.3 | 218 | 912.9 | 87.4 | 273 | 272.8 | 09.5 | 338 | 832.6 | 11.6 | 398 | 392.8 | 13.7 | 453 | 459.7 | 10.8 |
| 34 | 34.9 | 01.9 | 94 | 23.9 | 03.3 | 154 | 153.9 | 05.4 | 214 | 213.9 | 07.5 | 974 | 978.8 | 09.0 | 334 | 333.6 | 11.0 | 304 | 323.8 | 13.7 | 454 | 450.7 | 15.8 |
| 35 | 85.9 | 01.2 | 05 | 94.9 | 93.3 | 155 | 154.9 | 05.4 | 215 | 214.9 | 07.5 | 275 | 274.8 | 09.6 | 335 | 334.0 | 11.7 | 395 | 394.8 | 13.0 | 455 | 454.7 | 15.9 |
| 36 | 30.0 | 01.3 | 06 | 00.9 | 63.4 | 106 | 150.9 | 05.4 | 216 | 215.9 | 07.6 | 276 | 275.0 | 09.6 | 836 | 335.8 | 11.7 | 390 | 395.0 | 13.6 | 456 | 455.7 | 15.0 |
| 37 | 37.6 | 01.3 | 27 | 90.9 | 03.4 | 157 | 156.9 | 05.5 | 217 | 210.0 | 07.6 | 977 | 276.0 | 09.7 | 337 | 336.0 | 11.7 | 397 | 396.0 | 13.8 | 457 | 456.7 | 15.2 |
| 36 | 36.0 | 01.3 | 28 | 97.9 | 93.4 | 156 | 157.9 | 00.5 | 218 | 217.9 | 07.6 | 278 | 977.0 | 09.7 | 338 | 337.6 | 11.6 | 396 | 397.8 | 13.9 | 458 | 457.7 | 18.9 |
| 39 | 39.0 | 01.4 | 92 | 98.9 | 93.5 | 159 | 158.9 | 05.5 | 219 | 216.9 | 07.6 | 979 | 976.9 | 09.7 | 339 | 338.8 | 11.8 | 399 | 898.0 | 13.9 | 459 | 458.7 | 10.6 |
| 40 | 40.0 | 01.4 | 100 | 90.9 | 93.5 | 100 | 159.9 | 05.6 | 926 | 219.9 | 07.7 | 900 | 272.8 | 89.6 | 346 | 339.8 | 11.9 | 400 | 399.6 | 13.9 | 480 | 452.7 | 16.0 |
| 41 | 41.0 | 01.4 | 101 | 100.9 | 03.5 | 161 | 166.9 | 65.6 | 221 | 290.9 | 67.7 | 281 | 280.8 | 69.8 | 341 | 340.8 | 11.2 | 461 | 400.8 | 14.0 | 461 | 460.7 | 16.1 |
| 49 | 42.0 | 81.0 | 192 | 101.0 | 03.6 | 152 | 161.9 | 05.7 | 222 | 221.9 | 07.7 | 202 | 281.8 | 69.8 | 342 | 341.8 | 11.9 | 462 | 401.8 | 14.9 | 462 | 461.7 | 10.1 |
| 43 | 48.9 | 01.6 | 163 | 109.9 | 03.0 | 183 | 102.9 | 86.7 | 293 | 222.9 | 07.6 | 283 | 289.8 | 09.9 | 343 | 349.6 | 12.0 | 483 | 402.6 | 14.9 | 483 | 462.7 | 16.1 |
| 44 | 44.9 | 01.5 | 194 | 103.9 | 03.0 | 184 | 163.9 | 05.7 | 294 | 928.9 | 87.6 | 264 | 263.9 | 00.9 | 344 | 343.0 | 12.0 | 404 | 493.0 | 14.1 | 464 | 468.7 | 16.2 |
| 45 | 45.0 | 01.0 | 105 | 104.9 | 03.7 | 155 | 164.9 | 05.8 | 295 | 924.9 | 07.9 | 285 | 284.0 | 89.9 | 345 | 344.8 | 19.9 | 406 | 404.6 | 14.1 | 405 | 464.7 | 16.9 |
| 46 | 40.0 | 01.6 | 106 | 100.2 | 03.7 | 106 | 165.2 | 06.8 | 296 | 295.9 | 07.9 | 266 | 985.0 | 10.0 | 340 | 345.6 | 12.1 | 406 | 406.6 | 14.2 | 460 | 465.7 | 10.2 |
| 47 | 47.6 | 91.6 | 107 | 190.0 | 03.7 | 107 | 166.9 | 00.8 | 227 | 220.9 | 07.9 | 207 | 280.8 | 10.0 | 347 | 346.8 | 19.1 | 467 | 496.8 | 14.9 | 407 | 400.7 | 16.3 |
| 46 | 48.0 | 61.7 | 108 | 107.2 | 83.8 | 168 | 167.2 | 05.9 | 228 | 227.9 | 90.8 | 209 | 267.0 | 10.1 | 348 | 347.8 | 19.1 | 400 | 497.8 | 14.2 | 466 | 467.7 | 16.8 |
| 49 | 49.0 | 61.7 | 102 | 100.0 | 83.8 | 162 | 160.9 | 95.9 | 229 | 298.9 | 96.6 | 289 | 260.0 | 16.1 | 349 | 346.8 | 19.9 | 499 | 406.6 | 14.3 | 462 | 466.7 | 16.4 |
| 50 | 59.0 | 91.7 | 110 | 109.9 | 03.8 | 176 | 169.9 | 65.9 | 930 | 220.9 | 68.6 | 926 | 260.8 | 18.1 | 350 | 349.8 | 12.9 | 419 | 409.0 | 14.3 | 470 | 469.7 | 16.4 |
| 51 | 51.9 | 91.0 | 111 | 110.9 | 03.9 | 171 | 170.9 | 00.0 | 231 | 230.9 | 66.1 | 201 | 290.8 | 10.2 | 351 | 359.8 | 12.9 | 411 | 410.0 | 14.3 | 471 | 470.7 | 16.4 |
| 59 | 62.9 | 91.8 | 112 | 111.9 | 83.9 | 172 | 171.9 | 85.0 | 232 | 231.2 | 60.1 | 222 | 291.8 | 16.2 | 352 | 351.9 | 12.3 | 412 | 411.0 | 14.4 | 472 | 471.7 | 16.6 |
| 53 | 53.0 | 61.6 | 113 | 112.9 | 03.9 | 173 | 172.9 | 00.0 | 233 | 232.9 | 08.1 | 223 | 299.8 | 10.9 | 353 | 352.8 | 19.3 | 413 | 412.6 | 14.4 | 473 | 472.7 | 16.5 |
| 54 | 54.0 | 01.0 | 114 | 113.9 | 04.0 | 174 | 178.2 | 68.1 | 234 | 933.9 | 08.9 | 224 | 293.0 | 10.3 | 354 | 353.8 | 12.3 | 414 | 413.8 | 14.4 | 474 | 473.7 | 16.8 |
| 65 | 55.0 | 01.9 | 115 | 114.9 | 04.0 | 175 | 174.9 | 90.1 | 235 | 934.2 | 80.2 | 295 | 294.8 | 16.3 | 355 | 354.6 | 12.4 | 415 | 414.0 | 14.5 | 475 | 474.7 | 16.0 |
| 58 | 56.0 | 89.0 | 116 | 115.9 | 84.0 | 176 | 175.9 | 80.1 | 238 | 235.9 | 00.2 | 296 | 925.8 | 10.8 | 356 | 855.0 | 12.4 | 418 | 415.0 | 14.5 | 478 | 475.7 | 16.8 |
| 57 | 67.0 | 89.0 | 117 | 110.9 | 04.1 | 177 | 178.9 | 00.9 | 237 | 238.9 | 88.3 | 297 | 925.8 | 10.4 | 357 | 356.8 | 19.4 | 417 | 418.8 | 14.5 | 477 | 478.7 | 16.8 |
| 88 | 56.0 | 82.0 | 118 | 117.9 | 04.1 | 178 | 177.9 | 86.2 | 236 | 237.9 | 08.3 | 298 | 227.8 | 10.4 | 358 | 357.6 | 12.5 | 418 | 417.8 | 14.8 | 476 | 477.7 | 10.7 |
| 52 | 52.6 | 62.1 | 119 | 118.9 | 04.2 | 179 | 178.9 | 08.2 | 939 | 238.9 | 86.3 | 299 | 290.8 | 18.4 | 359 | 358.9 | 12.5 | 419 | 410.8 | 14.6 | 479 | 476.7 | 18.7 |
| 60 | 60.0 | 69.1 | 120 | 119.9 | 04.2 | 180 | 179.9 | 98.3 | 946 | 239.9 | 86.4 | 300 | 290.8 | 18.5 | 350 | 359.8 | 12.0 | 490 | 412.0 | 14.8 | 460 | 479.7 | 18.7 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 52.ᵐ — Para 88 grados. — 6.ʰ 8.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

0.h 12.m — Para 3 grados. — 11.h 48.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.1 | 61 | 60.9 | 03.2 | 121 | 120.8 | 06.3 | 181 | 180.8 | 09.5 | 241 | 240.7 | 12.6 | 301 | 300.6 | 15.8 | 361 | 360.5 | 18.9 | 421 | 420.4 | 22.0 |
| 2 | 02.0 | 00.1 | 62 | 61.9 | 03.2 | 122 | 121.8 | 06.4 | 182 | 181.8 | 09.5 | 242 | 241.7 | 12.7 | 302 | 301.6 | 15.8 | 362 | 361.5 | 18.9 | 422 | 421.4 | 22.1 |
| 3 | 03.0 | 00.2 | 63 | 62.9 | 03.3 | 123 | 122.8 | 06.4 | 183 | 182.7 | 09.6 | 243 | 242.7 | 12.7 | 303 | 302.6 | 15.9 | 363 | 362.5 | 19.0 | 423 | 422.4 | 22.1 |
| 4 | 04.0 | 00.2 | 64 | 63.9 | 03.3 | 124 | 123.8 | 06.5 | 184 | 183.7 | 09.6 | 244 | 243.7 | 12.8 | 304 | 303.6 | 15.9 | 364 | 363.5 | 19.1 | 424 | 423.4 | 22.2 |
| 5 | 05.0 | 00.3 | 65 | 64.9 | 03.4 | 125 | 124.8 | 06.5 | 185 | 184.7 | 09.7 | 245 | 244.7 | 12.8 | 305 | 304.6 | 16.0 | 365 | 364.5 | 19.1 | 425 | 424.4 | 22.2 |
| 6 | 06.0 | 00.3 | 66 | 65.9 | 03.5 | 126 | 125.8 | 06.6 | 186 | 185.7 | 09.7 | 246 | 245.7 | 12.9 | 306 | 305.6 | 16.0 | 366 | 365.5 | 19.2 | 426 | 425.4 | 22.3 |
| 7 | 07.0 | 00.4 | 67 | 66.9 | 03.5 | 127 | 126.8 | 06.6 | 187 | 186.7 | 09.8 | 247 | 246.7 | 12.9 | 307 | 306.6 | 16.1 | 367 | 366.5 | 19.2 | 427 | 426.4 | 22.3 |
| 8 | 08.0 | 00.4 | 68 | 67.9 | 03.6 | 128 | 127.8 | 06.7 | 188 | 187.7 | 09.8 | 248 | 247.7 | 13.0 | 308 | 307.6 | 16.1 | 368 | 367.5 | 19.3 | 428 | 427.4 | 22.4 |
| 9 | 09.0 | 00.5 | 69 | 68.9 | 03.6 | 129 | 128.8 | 06.8 | 189 | 188.7 | 09.9 | 249 | 248.7 | 13.0 | 309 | 308.6 | 16.2 | 369 | 368.5 | 19.3 | 429 | 428.4 | 22.5 |
| 10 | 10.0 | 00.5 | 70 | 69.9 | 03.7 | 130 | 129.8 | 06.8 | 190 | 189.7 | 09.9 | 250 | 249.7 | 13.1 | 310 | 309.6 | 16.2 | 370 | 369.5 | 19.4 | 430 | 429.4 | 22.5 |
| 11 | 11.0 | 00.6 | 71 | 70.9 | 03.7 | 131 | 130.8 | 06.9 | 191 | 190.7 | 10.0 | 251 | 250.7 | 13.1 | 311 | 310.6 | 16.3 | 371 | 370.5 | 19.4 | 431 | 430.4 | 22.6 |
| 12 | 12.0 | 00.6 | 72 | 71.9 | 03.8 | 132 | 131.8 | 06.9 | 192 | 191.7 | 10.0 | 252 | 251.7 | 13.2 | 312 | 311.6 | 16.3 | 372 | 371.5 | 19.5 | 432 | 431.4 | 22.6 |
| 13 | 13.0 | 00.7 | 73 | 72.9 | 03.8 | 133 | 132.8 | 07.0 | 193 | 192.7 | 10.1 | 253 | 252.7 | 13.2 | 313 | 312.6 | 16.4 | 373 | 372.5 | 19.5 | 433 | 432.4 | 22.7 |
| 14 | 14.0 | 00.7 | 74 | 73.9 | 03.9 | 134 | 133.8 | 07.0 | 194 | 193.7 | 10.2 | 254 | 253.7 | 13.3 | 314 | 313.6 | 16.4 | 374 | 373.5 | 19.6 | 434 | 433.4 | 22.7 |
| 15 | 15.0 | 00.8 | 75 | 74.9 | 03.9 | 135 | 134.8 | 07.1 | 195 | 194.7 | 10.2 | 255 | 254.7 | 13.3 | 315 | 314.6 | 16.5 | 375 | 374.5 | 19.6 | 435 | 434.4 | 22.8 |
| 16 | 16.0 | 00.8 | 76 | 75.9 | 04.0 | 136 | 135.8 | 07.1 | 196 | 195.7 | 10.3 | 256 | 255.6 | 13.4 | 316 | 315.6 | 16.5 | 376 | 375.5 | 19.7 | 436 | 435.4 | 22.8 |
| 17 | 17.0 | 00.9 | 77 | 76.9 | 04.0 | 137 | 136.8 | 07.2 | 197 | 196.7 | 10.3 | 257 | 256.6 | 13.5 | 317 | 316.6 | 16.6 | 377 | 376.5 | 19.7 | 437 | 436.4 | 22.9 |
| 18 | 18.0 | 00.9 | 78 | 77.9 | 04.1 | 138 | 137.8 | 07.2 | 198 | 197.7 | 10.4 | 258 | 257.6 | 13.5 | 318 | 317.6 | 16.6 | 378 | 377.5 | 19.8 | 438 | 437.4 | 22.9 |
| 19 | 19.0 | 01.0 | 79 | 78.9 | 04.1 | 139 | 138.8 | 07.3 | 199 | 198.7 | 10.4 | 259 | 258.6 | 13.6 | 319 | 318.6 | 16.7 | 379 | 378.5 | 19.8 | 439 | 438.4 | 23.0 |
| 20 | 20.0 | 01.0 | 80 | 79.9 | 04.2 | 140 | 139.8 | 07.3 | 200 | 199.7 | 10.5 | 260 | 259.6 | 13.6 | 320 | 319.6 | 16.7 | 380 | 379.5 | 19.9 | 440 | 439.4 | 23.0 |
| 21 | 21.0 | 01.1 | 81 | 80.9 | 04.2 | 141 | 140.8 | 07.4 | 201 | 200.7 | 10.5 | 261 | 260.6 | 13.7 | 321 | 320.6 | 16.8 | 381 | 380.5 | 19.9 | 441 | 440.4 | 23.1 |
| 22 | 22.0 | 01.2 | 82 | 81.9 | 04.3 | 142 | 141.8 | 07.4 | 202 | 201.7 | 10.6 | 262 | 261.6 | 13.7 | 322 | 321.6 | 16.9 | 382 | 381.5 | 20.0 | 442 | 441.4 | 23.1 |
| 23 | 23.0 | 01.2 | 83 | 82.9 | 04.3 | 143 | 142.8 | 07.5 | 203 | 202.7 | 10.6 | 263 | 262.6 | 13.8 | 323 | 322.6 | 16.9 | 383 | 382.5 | 20.0 | 443 | 442.4 | 23.2 |
| 24 | 24.0 | 01.3 | 84 | 83.9 | 04.4 | 144 | 143.8 | 07.5 | 204 | 203.7 | 10.7 | 264 | 263.6 | 13.8 | 324 | 323.6 | 17.0 | 384 | 383.5 | 20.1 | 444 | 443.4 | 23.2 |
| 25 | 25.0 | 01.3 | 85 | 84.9 | 04.4 | 145 | 144.8 | 07.6 | 205 | 204.7 | 10.7 | 265 | 264.6 | 13.9 | 325 | 324.6 | 17.0 | 385 | 384.5 | 20.1 | 445 | 444.4 | 23.3 |
| 26 | 26.0 | 01.4 | 86 | 85.9 | 04.5 | 146 | 145.8 | 07.6 | 206 | 205.7 | 10.8 | 266 | 265.6 | 13.9 | 326 | 325.6 | 17.1 | 386 | 385.5 | 20.2 | 446 | 445.4 | 23.3 |
| 27 | 27.0 | 01.4 | 87 | 86.9 | 04.6 | 147 | 146.8 | 07.7 | 207 | 206.7 | 10.8 | 267 | 266.6 | 14.0 | 327 | 326.6 | 17.1 | 387 | 386.5 | 20.3 | 447 | 446.4 | 23.4 |
| 28 | 28.0 | 01.5 | 88 | 87.9 | 04.6 | 148 | 147.8 | 07.7 | 208 | 207.7 | 10.9 | 268 | 267.6 | 14.0 | 328 | 327.6 | 17.2 | 388 | 387.5 | 20.3 | 448 | 447.4 | 23.4 |
| 29 | 29.0 | 01.5 | 89 | 88.9 | 04.7 | 149 | 148.8 | 07.8 | 209 | 208.7 | 10.9 | 269 | 268.6 | 14.1 | 329 | 328.5 | 17.2 | 389 | 388.5 | 20.4 | 449 | 448.4 | 23.5 |
| 30 | 30.0 | 01.6 | 90 | 89.9 | 04.7 | 150 | 149.8 | 07.9 | 210 | 209.7 | 11.0 | 270 | 269.6 | 14.1 | 330 | 329.5 | 17.3 | 390 | 389.5 | 20.4 | 450 | 449.4 | 23.6 |
| 31 | 31.0 | 01.6 | 91 | 90.9 | 04.8 | 151 | 150.8 | 07.9 | 211 | 210.7 | 11.0 | 271 | 270.6 | 14.2 | 331 | 330.5 | 17.3 | 391 | 390.5 | 20.5 | 451 | 450.4 | 23.6 |
| 32 | 32.0 | 01.7 | 92 | 91.9 | 04.8 | 152 | 151.8 | 08.0 | 212 | 211.7 | 11.1 | 272 | 271.6 | 14.2 | 332 | 331.5 | 17.4 | 392 | 391.5 | 20.5 | 452 | 451.4 | 23.7 |
| 33 | 33.0 | 01.7 | 93 | 92.9 | 04.9 | 153 | 152.8 | 08.0 | 213 | 212.7 | 11.1 | 273 | 272.6 | 14.3 | 333 | 332.5 | 17.4 | 393 | 392.5 | 20.6 | 453 | 452.4 | 23.7 |
| 34 | 34.0 | 01.8 | 94 | 93.9 | 04.9 | 154 | 153.8 | 08.1 | 214 | 213.7 | 11.2 | 274 | 273.6 | 14.3 | 334 | 333.5 | 17.5 | 394 | 393.5 | 20.6 | 454 | 453.4 | 23.8 |
| 35 | 35.0 | 01.8 | 95 | 94.9 | 05.0 | 155 | 154.8 | 08.1 | 215 | 214.7 | 11.3 | 275 | 274.6 | 14.4 | 335 | 334.5 | 17.5 | 395 | 394.5 | 20.7 | 455 | 454.4 | 23.8 |
| 36 | 36.0 | 01.9 | 96 | 95.9 | 05.0 | 156 | 155.8 | 08.2 | 216 | 215.7 | 11.3 | 276 | 275.6 | 14.4 | 336 | 335.5 | 17.6 | 396 | 395.5 | 20.7 | 456 | 455.4 | 23.9 |
| 37 | 36.9 | 01.9 | 97 | 96.9 | 05.1 | 157 | 156.8 | 08.2 | 217 | 216.7 | 11.4 | 277 | 276.6 | 14.5 | 337 | 336.5 | 17.6 | 397 | 396.5 | 20.8 | 457 | 456.4 | 23.9 |
| 38 | 37.9 | 02.0 | 98 | 97.9 | 05.1 | 158 | 157.8 | 08.3 | 218 | 217.7 | 11.4 | 278 | 277.6 | 14.5 | 338 | 337.5 | 17.7 | 398 | 397.5 | 20.8 | 458 | 457.4 | 24.0 |
| 39 | 38.9 | 02.0 | 99 | 98.9 | 05.2 | 159 | 158.8 | 08.3 | 219 | 218.7 | 11.5 | 279 | 278.6 | 14.6 | 339 | 338.5 | 17.7 | 399 | 398.5 | 20.9 | 459 | 458.4 | 24.0 |
| 40 | 39.9 | 02.1 | 100 | 99.9 | 05.2 | 160 | 159.8 | 08.4 | 220 | 219.7 | 11.5 | 280 | 279.6 | 14.7 | 340 | 339.5 | 17.8 | 400 | 399.5 | 20.9 | 460 | 459.4 | 24.1 |
| 41 | 40.9 | 02.1 | 101 | 100.9 | 05.3 | 161 | 160.8 | 08.4 | 221 | 220.7 | 11.6 | 281 | 280.6 | 14.7 | 341 | 340.5 | 17.8 | 401 | 400.5 | 21.0 | 461 | 460.4 | 24.1 |
| 42 | 41.9 | 02.2 | 102 | 101.9 | 05.3 | 162 | 161.8 | 08.5 | 222 | 221.7 | 11.6 | 282 | 281.6 | 14.8 | 342 | 341.5 | 17.9 | 402 | 401.4 | 21.0 | 462 | 461.4 | 24.2 |
| 43 | 42.9 | 02.3 | 103 | 102.9 | 05.4 | 163 | 162.8 | 08.5 | 223 | 222.7 | 11.7 | 283 | 282.6 | 14.8 | 343 | 342.5 | 18.0 | 403 | 402.4 | 21.1 | 463 | 462.4 | 24.2 |
| 44 | 43.9 | 02.3 | 104 | 103.9 | 05.4 | 164 | 163.8 | 08.6 | 224 | 223.7 | 11.7 | 284 | 283.6 | 14.9 | 344 | 343.5 | 18.0 | 404 | 403.4 | 21.1 | 464 | 463.4 | 24.3 |
| 45 | 44.9 | 02.4 | 105 | 104.9 | 05.5 | 165 | 164.8 | 08.6 | 225 | 224.7 | 11.8 | 285 | 284.6 | 14.9 | 345 | 344.5 | 18.1 | 405 | 404.4 | 21.2 | 465 | 464.4 | 24.3 |
| 46 | 45.9 | 02.4 | 106 | 105.9 | 05.5 | 166 | 165.8 | 08.7 | 226 | 225.7 | 11.8 | 286 | 285.6 | 15.0 | 346 | 345.5 | 18.1 | 406 | 405.4 | 21.2 | 466 | 465.4 | 24.4 |
| 47 | 46.9 | 02.5 | 107 | 106.9 | 05.6 | 167 | 166.8 | 08.7 | 227 | 226.7 | 11.9 | 287 | 286.6 | 15.0 | 347 | 346.5 | 18.2 | 407 | 406.4 | 21.3 | 467 | 466.4 | 24.4 |
| 48 | 47.9 | 02.5 | 108 | 107.9 | 05.7 | 168 | 167.8 | 08.8 | 228 | 227.7 | 11.9 | 288 | 287.6 | 15.1 | 348 | 347.5 | 18.2 | 408 | 407.4 | 21.4 | 468 | 467.4 | 24.5 |
| 49 | 48.9 | 02.6 | 109 | 108.9 | 05.7 | 169 | 168.8 | 08.8 | 229 | 228.7 | 12.0 | 289 | 288.6 | 15.1 | 349 | 348.5 | 18.3 | 409 | 408.4 | 21.4 | 469 | 468.4 | 24.5 |
| 50 | 49.9 | 02.6 | 110 | 109.8 | 05.8 | 170 | 169.8 | 08.9 | 230 | 229.7 | 12.0 | 290 | 289.6 | 15.2 | 350 | 349.5 | 18.3 | 410 | 409.4 | 21.5 | 470 | 469.4 | 24.6 |
| 51 | 50.9 | 02.7 | 111 | 110.8 | 05.8 | 171 | 170.8 | 08.9 | 231 | 230.7 | 12.1 | 291 | 290.6 | 15.2 | 351 | 350.5 | 18.4 | 411 | 410.4 | 21.5 | 471 | 470.4 | 24.7 |
| 52 | 51.9 | 02.7 | 112 | 111.8 | 05.9 | 172 | 171.8 | 09.0 | 232 | 231.7 | 12.1 | 292 | 291.6 | 15.3 | 352 | 351.5 | 18.4 | 412 | 411.4 | 21.6 | 472 | 471.4 | 24.7 |
| 53 | 52.9 | 02.8 | 113 | 112.8 | 05.9 | 173 | 172.8 | 09.1 | 233 | 232.7 | 12.2 | 293 | 292.6 | 15.3 | 353 | 352.5 | 18.5 | 413 | 412.4 | 21.6 | 473 | 472.4 | 24.8 |
| 54 | 53.9 | 02.8 | 114 | 113.8 | 06.0 | 174 | 173.8 | 09.1 | 234 | 233.7 | 12.2 | 294 | 293.6 | 15.4 | 354 | 353.5 | 18.5 | 414 | 413.4 | 21.7 | 474 | 473.3 | 24.8 |
| 55 | 54.9 | 02.9 | 115 | 114.8 | 06.0 | 175 | 174.8 | 09.2 | 235 | 234.7 | 12.3 | 295 | 294.6 | 15.4 | 355 | 354.5 | 18.6 | 415 | 414.4 | 21.7 | 475 | 474.3 | 24.9 |
| 56 | 55.9 | 02.9 | 116 | 115.8 | 06.1 | 176 | 175.8 | 09.2 | 236 | 235.7 | 12.4 | 296 | 295.6 | 15.5 | 356 | 355.5 | 18.6 | 416 | 415.4 | 21.8 | 476 | 475.3 | 24.9 |
| 57 | 56.9 | 03.0 | 117 | 116.8 | 06.1 | 177 | 176.8 | 09.3 | 237 | 236.7 | 12.4 | 297 | 296.6 | 15.5 | 357 | 356.5 | 18.7 | 417 | 416.4 | 21.8 | 477 | 476.3 | 25.0 |
| 58 | 57.9 | 03.0 | 118 | 117.8 | 06.2 | 178 | 177.8 | 09.3 | 238 | 237.7 | 12.5 | 298 | 297.6 | 15.6 | 358 | 357.5 | 18.7 | 418 | 417.4 | 21.9 | 478 | 477.3 | 25.0 |
| 59 | 58.9 | 03.1 | 119 | 118.8 | 06.2 | 179 | 178.8 | 09.4 | 239 | 238.7 | 12.5 | 299 | 298.6 | 15.6 | 359 | 358.5 | 18.8 | 419 | 418.4 | 21.9 | 479 | 478.3 | 25.1 |
| 60 | 59.9 | 03.1 | 120 | 119.8 | 06.3 | 180 | 179.8 | 09.4 | 240 | 239.7 | 12.6 | 300 | 299.6 | 15.7 | 360 | 359.5 | 18.8 | 420 | 419.4 | 22.0 | 480 | 479.3 | 25.1 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.h 48.m — Para 87 grados. — 6.h 12.m

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

0.h 16.m — Para 4 grados. — 11.h 44.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.1 | 61 | 60.9 | 04.3 | 121 | 120.7 | 08.4 | 181 | 180.6 | 12.6 | 241 | 240.4 | 16.8 | 301 | 300.3 | 21.0 | 361 | 360.1 | 25.2 | 421 | 420.0 | 29.4 |
| 9 | 02.0 | 00.1 | 62 | 61.8 | 04.3 | 122 | 121.7 | 08.5 | 182 | 181.6 | 12.7 | 242 | 241.4 | 16.9 | 302 | 301.3 | 21.1 | 362 | 361.1 | 25.9 | 422 | 421.0 | 29.4 |
| 3 | 03.0 | 00.2 | 63 | 62.8 | 04.4 | 123 | 122.7 | 08.6 | 183 | 182.6 | 12.8 | 243 | 242.4 | 17.0 | 303 | 302.3 | 91.1 | 363 | 362.1 | 25.3 | 423 | 429.0 | 29.5 |
| 4 | 04.0 | 00.3 | 61 | 63.8 | 01.5 | 124 | 123.7 | 08.6 | 184 | 183.6 | 12.8 | 244 | 243.4 | 17.0 | 304 | 303.3 | 91.2 | 364 | 363.1 | 25.4 | 424 | 423.0 | 29.6 |
| 5 | 05.0 | 00.3 | 65 | 64.8 | 04.5 | 125 | 124.7 | 08.7 | 185 | 184.5 | 12.9 | 245 | 244.4 | 17.1 | 305 | 304.3 | 21.3 | 365 | 364.1 | 26.5 | 495 | 424.0 | 29.6 |
| 6 | 06.0 | 00.4 | 66 | 65.8 | 04.6 | 126 | 125.7 | 08.8 | 186 | 185.5 | 13.0 | 246 | 245.4 | 17.2 | 306 | 305.3 | 21.3 | 366 | 365.1 | 25.6 | 426 | 425.0 | 29.7 |
| 7 | 07.0 | 00.5 | 67 | 66.8 | 04.7 | 127 | 196.7 | 08.9 | 187 | 186.5 | 13.0 | 247 | 246.4 | 17.2 | 307 | 306.3 | 21.4 | 367 | 366.1 | 95.6 | 427 | 426.0 | 29.8 |
| 8 | 08.0 | 00.6 | 68 | 67.8 | 04.7 | 128 | 197.7 | 08.9 | 188 | 187.5 | 13.1 | 248 | 247.4 | 17.3 | 308 | 307.9 | 91.5 | 368 | 367.1 | 25.7 | 428 | 427.0 | 29.9 |
| 9 | 09.0 | 00.6 | 69 | 68.8 | 04.8 | 129 | 128.7 | 09.0 | 182 | 188.5 | 13.2 | 249 | 248.4 | 17.4 | 309 | 308.2 | 21.6 | 369 | 368.1 | 25.7 | 429 | 428.0 | 29.9 |
| 10 | 10.0 | 00.7 | 70 | 69.8 | 04.9 | 130 | 129.7 | 09.1 | 190 | 189.6 | 13.3 | 250 | 249.4 | 17.4 | 310 | 309.9 | 21.6 | 370 | 369.1 | 25.8 | 430 | 429.0 | 30.0 |
| 11 | 11.0 | 00.8 | 71 | 70.8 | 05.0 | 131 | 130.7 | 09.1 | 191 | 190.5 | 13.3 | 251 | 250.4 | 17.5 | 311 | 310.2 | 91.7 | 371 | 370.1 | 95.9 | 431 | 430.0 | 30.1 |
| 19 | 12.0 | 00.8 | 72 | 71.8 | 06.0 | 132 | 131.7 | 09.2 | 192 | 191.5 | 13.4 | 252 | 251.4 | 17.6 | 312 | 311.2 | 21.8 | 372 | 371.1 | 25.9 | 439 | 430.9 | 30.1 |
| 13 | 13.0 | 00.9 | 73 | 72.8 | 05.1 | 133 | 132.7 | 09.3 | 193 | 192.5 | 13.5 | 253 | 252.4 | 17.6 | 313 | 312.2 | 21.8 | 373 | 372.1 | 26.0 | 433 | 431.9 | 30.2 |
| 14 | 14.0 | 01.0 | 74 | 73.8 | 05.2 | 134 | 133.7 | 09.3 | 194 | 193.5 | 13.5 | 251 | 253.4 | 17.7 | 314 | 313.2 | 21.9 | 374 | 373.1 | 96.1 | 434 | 432.9 | 30.3 |
| 15 | 15.0 | 01.0 | 75 | 74.8 | 05.2 | 135 | 134.7 | 09.4 | 195 | 194.5 | 13.6 | 255 | 254.4 | 17.8 | 315 | 314.2 | 92.0 | 375 | 374.1 | 26.2 | 435 | 433.9 | 30.3 |
| 16 | 16.0 | 01.1 | 76 | 75.8 | 05.3 | 136 | 135.7 | 02.5 | 196 | 195.5 | 13.7 | 256 | 255.4 | 17.9 | 316 | 315.2 | 22.1 | 376 | 375.1 | 26.2 | 436 | 434.9 | 30.4 |
| 17 | 17.0 | 01.2 | 77 | 76.8 | 05.4 | 137 | 136.7 | 09.6 | 197 | 196.5 | 13.7 | 257 | 256.4 | 17.9 | 317 | 316.2 | 22.1 | 377 | 376.1 | 26.3 | 437 | 435.9 | 30.6 |
| 18 | 18.0 | 01.3 | 78 | 77.8 | 05.4 | 138 | 137.7 | 09.6 | 198 | 197.5 | 13.8 | 258 | 257.4 | 18.0 | 318 | 317.2 | 22.2 | 378 | 377.1 | 26.4 | 438 | 436.9 | 30.6 |
| 19 | 19.0 | 01.3 | 79 | 78.8 | 05.5 | 139 | 138.7 | 09.7 | 199 | 198.5 | 13.9 | 259 | 258.4 | 18.1 | 319 | 318.2 | 22.3 | 379 | 378.1 | 26.4 | 439 | 437.9 | 30.6 |
| 90 | 20.0 | 01.4 | 80 | 79.8 | 05.6 | 140 | 139.7 | 09.8 | 200 | 199.5 | 14.0 | 260 | 259.4 | 18.1 | 320 | 319.2 | 22.3 | 380 | 379.1 | 26.5 | 440 | 438.9 | 30.7 |
| 21 | 20.9 | 01.5 | 81 | 80.8 | 05.7 | 141 | 140.7 | 09.8 | 201 | 200.5 | 14.0 | 261 | 260.4 | 18.2 | 321 | 320.2 | 22.4 | 381 | 380.1 | 96.6 | 441 | 439.9 | 30.8 |
| 22 | 21.9 | 01.5 | 82 | 81.8 | 05.7 | 142 | 141.7 | 09.9 | 202 | 201.5 | 14.1 | 262 | 261.4 | 18.3 | 322 | 321.2 | 22.5 | 382 | 381.1 | 26.6 | 442 | 440.9 | 30.8 |
| 23 | 22.9 | 01.6 | 83 | 82.8 | 05.8 | 143 | 142.7 | 10.0 | 203 | 202.6 | 14.2 | 263 | 262.4 | 18.3 | 323 | 322.2 | 22.5 | 383 | 382.1 | 26.7 | 443 | 441.9 | 30.9 |
| 24 | 93.9 | 01.7 | 84 | 83.8 | 05.9 | 144 | 143.6 | 10.0 | 204 | 203.6 | 14.2 | 264 | 263.4 | 18.4 | 324 | 323.2 | 22.6 | 384 | 383.1 | 26.8 | 444 | 442.9 | 31.0 |
| 25 | 24.9 | 01.7 | 85 | 84.8 | 05.9 | 145 | 144.6 | 10.1 | 205 | 204.5 | 14.3 | 265 | 264.4 | 18.5 | 325 | 324.2 | 22.7 | 385 | 384.1 | 26.2 | 445 | 443.9 | 31.0 |
| 26 | 25.9 | 01.8 | 86 | 85.8 | 06.0 | 146 | 145.6 | 10.2 | 206 | 205.5 | 14.4 | 266 | 265.4 | 18.6 | 326 | 325.2 | 22.7 | 386 | 385.1 | 26.9 | 446 | 444.9 | 31.1 |
| 27 | 26.9 | 01.9 | 87 | 86.8 | 06.1 | 147 | 146.6 | 10.3 | 207 | 206.5 | 14.4 | 267 | 266.3 | 18.6 | 327 | 326.2 | 22.8 | 387 | 386.1 | 27.0 | 447 | 445.9 | 31.2 |
| 28 | 27.9 | 02.0 | 88 | 87.8 | 06.1 | 148 | 147.6 | 10.3 | 208 | 207.5 | 14.5 | 268 | 967.3 | 18.7 | 328 | 327.2 | 22.9 | 388 | 387.1 | 27.1 | 448 | 446.9 | 31.2 |
| 29 | 28.9 | 02.0 | 89 | 88.8 | 06.2 | 142 | 148.6 | 10.4 | 209 | 208.5 | 14.6 | 269 | 268.3 | 18.8 | 329 | 328.2 | 23.0 | 389 | 388.1 | 27.1 | 449 | 447.9 | 31.3 |
| 30 | 29.9 | 02.1 | 90 | 89.8 | 06.3 | 150 | 149.6 | 10.5 | 210 | 209.5 | 14.6 | 270 | 269.3 | 18.8 | 330 | 329.2 | 23.0 | 390 | 389.0 | 97.9 | 450 | 448.9 | 31.4 |
| 01 | 30.9 | 02.2 | 91 | 90.8 | 06.3 | 151 | 150.6 | 10 5 | 211 | 210.5 | 14.7 | 271 | 270.3 | 18.9 | 331 | 330.2 | 23.1 | 391 | 390.0 | 27.3 | 451 | 449.9 | 31.6 |
| 32 | 31.9 | 02.2 | 99 | 91.8 | 06.4 | 152 | 151.6 | 10.6 | 212 | 211.5 | 14.8 | 272 | 271.3 | 19.0 | 332 | 331.9 | 93.2 | 392 | 391.0 | 27.3 | 459 | 450.9 | 31.5 |
| 33 | 32.9 | 02.3 | 93 | 92.8 | 06.5 | 153 | 152.6 | 10.7 | 213 | 212.6 | 14.9 | 273 | 272.3 | 19.0 | 333 | 332.2 | 23.2 | 393 | 392.0 | 27.4 | 453 | 451.9 | 31.6 |
| 34 | 33.9 | 02.4 | 94 | 23.8 | 06.6 | 154 | 153.6 | 10.7 | 214 | 213.5 | 14.9 | 274 | 273.3 | 19.1 | 334 | 333.2 | 23.3 | 394 | 393.0 | 27.5 | 454 | 452.9 | 31.7 |
| 35 | 34.9 | 02.4 | 95 | 94.8 | 06.6 | 155 | 154.6 | 10.8 | 215 | 214.5 | 15.0 | 275 | 274.3 | 19.2 | 335 | 334.2 | 23.4 | 395 | 394.0 | 27.6 | 455 | 453.9 | 31.7 |
| 36 | 35.9 | 02.6 | 96 | 95.8 | 06.7 | 166 | 155.6 | 11.9 | 216 | 215.5 | 15.1 | 276 | 275.3 | 19.3 | 336 | 335.2 | 23.4 | 396 | 396.0 | 27.6 | 400 | 454.9 | 31.8 |
| 37 | 36.9 | 09.6 | 97 | 96.8 | 06.8 | 157 | 156.6 | 11.0 | 217 | 216.6 | 15.1 | 277 | 276.3 | 19.3 | 337 | 336.2 | 93.6 | 397 | 396.0 | 27.7 | 457 | 455.9 | 31.9 |
| 38 | 37.9 | 02.7 | 98 | 97.8 | 06.8 | 158 | 167.6 | 11.0 | 218 | 217.5 | 15.2 | 278 | 277.3 | 19.4 | 338 | 337.9 | 23.6 | 398 | 397.0 | 27.8 | 408 | 456.9 | 31.2 |
| 39 | 38.9 | 02.7 | 99 | 98.8 | 06.9 | 159 | 158.6 | 11.1 | 219 | 218.5 | 15.3 | 279 | 278.3 | 19.6 | 339 | 338.2 | 93.6 | 399 | 398.0 | 27.8 | 459 | 457.9 | 32.0 |
| 40 | 39.9 | 02.8 | 100 | 99.8 | 07.0 | 160 | 152.6 | 11.9 | 220 | 919.5 | 15.3 | 280 | 279.3 | 19.5 | 340 | 339.2 | 23.7 | 400 | 392.0 | 27.9 | 460 | 458.9 | 32.1 |
| 41 | 40.9 | 02.9 | 101 | 100.8 | 07.0 | 161 | 160.6 | 11.2 | 221 | 220.5 | 15.4 | 281 | 280.3 | 19.6 | 341 | 340.2 | 23.8 | 401 | 400.0 | 28.0 | 461 | 459.9 | 32.2 |
| 42 | 41.9 | 02.9 | 102 | 101.8 | 07.1 | 162 | 161.6 | 11.3 | 222 | 291.5 | 16 5 | 282 | 281.3 | 19.7 | 342 | 341.2 | 23.9 | 402 | 401.0 | 28.0 | 462 | 460.9 | 32.2 |
| 43 | 42.9 | 03.0 | 103 | 102.7 | 07.2 | 163 | 169.6 | 11.4 | 223 | 222.5 | 15.6 | 283 | 282.3 | 19.7 | 343 | 342.9 | 93.9 | 403 | 402.0 | 20.1 | 463 | 461.2 | 32.3 |
| 44 | 43.9 | 03.1 | 104 | 103.7 | 07.3 | 164 | 163.6 | 11.4 | 224 | 223.5 | 15.6 | 284 | 983.3 | 19.8 | 344 | 343.9 | 24.0 | 404 | 403.0 | 28.2 | 464 | 462.9 | 32.4 |
| 45 | 44.9 | 03.1 | 105 | 104.7 | 07.3 | 165 | 164.6 | 11.5 | 225 | 224.5 | 15.7 | 285 | 284.3 | 19.9 | 345 | 344.2 | 24.1 | 405 | 404.0 | 28.2 | 465 | 483.9 | 32.4 |
| 46 | 45.9 | 03.2 | 106 | 105.7 | 07.4 | 166 | 165.6 | 11.6 | 226 | 225.4 | 15.8 | 286 | 285.3 | 20.0 | 346 | 345.2 | 24.1 | 106 | 405.0 | 28.3 | 466 | 464.9 | 32.5 |
| 47 | 46.2 | 03.3 | 107 | 106.7 | 07.5 | 167 | 166.6 | 11.6 | 227 | 226.4 | 15.8 | 287 | 286.3 | 90.0 | 347 | 346.2 | 24.2 | 407 | 406.0 | 28.4 | 467 | 465.9 | 32.6 |
| 48 | 47.2 | 03.3 | 108 | 107.7 | 07.5 | 168 | 167.6 | 11.7 | 228 | 227.4 | 15.9 | 288 | 287.3 | 20.1 | 348 | 347.2 | 24.3 | 408 | 407.0 | 28.5 | 468 | 466.9 | 32.6 |
| 49 | 48.9 | 03.4 | 109 | 108.7 | 07.6 | 169 | 168.6 | 11.8 | 299 | 228.4 | 16.0 | 289 | 288.3 | 20.2 | 349 | 348.1 | 24.3 | 409 | 408.0 | 28.5 | 469 | 467.9 | 32.7 |
| 50 | 49.9 | 03.5 | 110 | 109.7 | 07.7 | 170 | 169.6 | 11.9 | 230 | 229.4 | 16.0 | 290 | 289.3 | 20.2 | 350 | 349.1 | 24.4 | 410 | 409.0 | 28.6 | 470 | 468.9 | 32.8 |
| 51 | 50.9 | 03.6 | 111 | 110.7 | 07.7 | 171 | 170.6 | 11.9 | 231 | 230.4 | 16.1 | 291 | 290.3 | 20.3 | 351 | 350.1 | 24.5 | 411 | 410.0 | 28.7 | 471 | 469.9 | 32.9 |
| 62 | 51.9 | 03.6 | 112 | 111.7 | 07.8 | 172 | 171.6 | 12.0 | 232 | 231.4 | 16.9 | 292 | 291.3 | 90.4 | 352 | 351.1 | 94.6 | 419 | 411.0 | 28.7 | 472 | 470.9 | 32.9 |
| 63 | 52.9 | 03.7 | 113 | 112.7 | 07.9 | 173 | 172.6 | 12.1 | 233 | 232.4 | 16.3 | 293 | 292.3 | 20.4 | 353 | 352.1 | 24.6 | 413 | 412.0 | 28.8 | 473 | 471.8 | 33.0 |
| 54 | 53.9 | 03.8 | 114 | 113.7 | 08.0 | 174 | 173.6 | 12.1 | 234 | 233.4 | 16.3 | 294 | 293.3 | 20.5 | 354 | 353.1 | 24.7 | 414 | 413.0 | 28.9 | 474 | 472.8 | 33.1 |
| 55 | 54.9 | 03.8 | 115 | 114.7 | 08.0 | 175 | 174.6 | 12.2 | 935 | 234.4 | 16.4 | 295 | 294.3 | 20.6 | 355 | 354.1 | 24.8 | 415 | 414.0 | 28.9 | 475 | 473.8 | 33.1 |
| 56 | 55.9 | 03.9 | 116 | 115.7 | 08.1 | 176 | 175.6 | 12.3 | 936 | 235.4 | 16.5 | 296 | 295.3 | 20.6 | 356 | 355.1 | 24.8 | 416 | 415.0 | 29.0 | 476 | 474.8 | 33.9 |
| 57 | 56.9 | 04.0 | 117 | 116.7 | 08.2 | 177 | 176.6 | 12.3 | 237 | 236.4 | 16.5 | 297 | 296.3 | 20.7 | 357 | 356.1 | 24.9 | 417 | 416.0 | 29.1 | 477 | 476.8 | 33.3 |
| 58 | 67.9 | 04.0 | 118 | 117.7 | 08.2 | 178 | 177.6 | 12.4 | 238 | 237.4 | 16.6 | 298 | 297.3 | 20.8 | 358 | 357.1 | 25.0 | 418 | 417.0 | 99.2 | 478 | 476.8 | 33.3 |
| 59 | 58.9 | 04.1 | 119 | 118.7 | 08.3 | 179 | 178.6 | 12.5 | 239 | 238.4 | 16.7 | 299 | 298.3 | 20.9 | 359 | 358.1 | 95.0 | 419 | 418.0 | 29.2 | 479 | 477.8 | 33.4 |
| 60 | 59.9 | 04.2 | 120 | 119.7 | 08.4 | 180 | 179.6 | 19.6 | 240 | 239.4 | 16.7 | 300 | 299.3 | 20.9 | 360 | 359.1 | 25.1 | 490 | 419.0 | 29.3 | 480 | 478.8 | 33.5 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.h 44.m — Para 86 grados. — 6.h 16.m

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

0.h 20.m — Para 5 grados. — 11.h 40.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 51.0 | 06.1 | 61 | 60.8 | 65.3 | 121 | 120.5 | 10.5 | 161 | 180.3 | 15.6 | 241 | 246.1 | 21.0 | 351 | 299.9 | 26.2 | 361 | 359.0 | 31.0 | 421 | 112.4 | 36.7 |
| 2 | 02.6 | 00.2 | 02 | 01.8 | 55.4 | 122 | 121.5 | 10.6 | 182 | 181.3 | 15.9 | 242 | 241.1 | 21.1 | 382 | 300.8 | 20.3 | 302 | 360.0 | 31.0 | 122 | 126.4 | 35.0 |
| 3 | 03.8 | 00.3 | 03 | 02.8 | 05.5 | 123 | 122.5 | 18.7 | 163 | 182.3 | 15.2 | 243 | 242.1 | 21.2 | 303 | 301.8 | 20.4 | 363 | 301.6 | 31.0 | 423 | 121.4 | 30.2 |
| 4 | 04.6 | 60.3 | 54 | 63.6 | 05.6 | 124 | 123.5 | 16.8 | 184 | 163.3 | 10.0 | 244 | 243.1 | 21.3 | 384 | 302.8 | 26.5 | 304 | 362.8 | 31.7 | 124 | 422.4 | 37.0 |
| 5 | 60.0 | 06.4 | 00 | 04.5 | 05.7 | 125 | 124.5 | 16.2 | 165 | 164.5 | 16.1 | 245 | 244.1 | 21.4 | 305 | 303.8 | 20.6 | 365 | 363.6 | 31.8 | 425 | 423.4 | 37.1 |
| 6 | 06.0 | 00.5 | 60 | 65.7 | 05.5 | 126 | 125.5 | 11.0 | 186 | 185.3 | 10.2 | 246 | 245.1 | 21.4 | 306 | 304.8 | 20.7 | 366 | 364.6 | 31.2 | 420 | 424.4 | 37.1 |
| 7 | 07.0 | 00.6 | 67 | 66.7 | 05.8 | 127 | 120.5 | 11.1 | 187 | 186.3 | 16.3 | 247 | 240.1 | 21.5 | 307 | 305.8 | 20.8 | 307 | 385.0 | 32.0 | 127 | 425.4 | 37.2 |
| 8 | 08.0 | 00.7 | 68 | 87.7 | 05.2 | 128 | 127.0 | 11.2 | 188 | 187.3 | 10.4 | 248 | 247.1 | 21.6 | 308 | 306.8 | 26.2 | 368 | 386.0 | 32.1 | 428 | 420.4 | 37.3 |
| 2 | 02.0 | 00.8 | 09 | 08.7 | 08.0 | 129 | 128.0 | 11.2 | 182 | 188.3 | 10.5 | 242 | 248.1 | 21.7 | 302 | 307.8 | 20.9 | 309 | 367.6 | 32.2 | 422 | 427.4 | 37.4 |
| 16 | 10.0 | 00.9 | 78 | 69.7 | 00.1 | 136 | 129.6 | 11.3 | 190 | 189.3 | 16.6 | 255 | 219.0 | 21.8 | 316 | 308.8 | 27.0 | 370 | 368.0 | 32.3 | 436 | 428.4 | 37.0 |
| 11 | 11.6 | 61.0 | 71 | 70.7 | 00.2 | 131 | 130.6 | 11.4 | 191 | 198.3 | 16.0 | 251 | 256.0 | 21.9 | 311 | 309.8 | 27.1 | 371 | 362.8 | 32.3 | 131 | 129.4 | 37.0 |
| 12 | 12.0 | 61.0 | 72 | 71.7 | 60.3 | 132 | 131.5 | 11.5 | 192 | 191.3 | 10.7 | 252 | 251.0 | 22.6 | 312 | 310.8 | 27.2 | 372 | 370.0 | 32.4 | 432 | 430.4 | 37.7 |
| 13 | 13.0 | 01.1 | 73 | 72.7 | 00.4 | 133 | 132.0 | 11.0 | 193 | 192.3 | 16.8 | 253 | 252.6 | 22.1 | 313 | 311.8 | 27.3 | 373 | 371.0 | 32.0 | 433 | 431.5 | 37.7 |
| 14 | 13.9 | 01.2 | 74 | 73.7 | 06.4 | 134 | 133.6 | 11.7 | 194 | 193.3 | 16.9 | 254 | 203.0 | 22.1 | 314 | 312.8 | 27.4 | 374 | 372.0 | 32.0 | 431 | 432.3 | 37.8 |
| 15 | 14.9 | 01.3 | 75 | 74.7 | 06.0 | 135 | 134.5 | 11.8 | 195 | 194.3 | 17.0 | 255 | 254.0 | 22.2 | 315 | 313.8 | 27.0 | 375 | 373.0 | 52.7 | 435 | 433.3 | 37.2 |
| 16 | 15.9 | 01.4 | 76 | 75.7 | 06.6 | 136 | 135.6 | 11.9 | 190 | 195.3 | 17.1 | 256 | 255.0 | 22.3 | 310 | 314.8 | 27.0 | 376 | 374.0 | 32.8 | 436 | 434.3 | 38.0 |
| 17 | 10.9 | 01.5 | 77 | 70.7 | 60.7 | 137 | 130.5 | 11.9 | 197 | 196.3 | 17.2 | 257 | 256.0 | 22.4 | 317 | 315.5 | 27.0 | 377 | 375.0 | 32.9 | 437 | 435.3 | 38.1 |
| 18 | 17.9 | 61.6 | 78 | 77.7 | 60.8 | 135 | 137.6 | 12.0 | 198 | 197.2 | 17.3 | 258 | 257.6 | 22.5 | 318 | 316.8 | 27.7 | 378 | 376.0 | 33.0 | 138 | 430.3 | 38.2 |
| 19 | 18.9 | 01.7 | 79 | 78.7 | 80.9 | 139 | 136.5 | 12.1 | 199 | 198.2 | 17.3 | 252 | 258.0 | 22.6 | 319 | 317.8 | 27.8 | 372 | 377.6 | 33.0 | 432 | 437.3 | 38.3 |
| 20 | 19.2 | 61.7 | 86 | 72.7 | 07.0 | 148 | 132.5 | 12.2 | 200 | 199.2 | 17.4 | 260 | 259.0 | 22.7 | 320 | 318.8 | 27.9 | 386 | 378.8 | 33.1 | 446 | 435.3 | 38.4 |
| 21 | 20.9 | 51.8 | 81 | 80.7 | 67.1 | 141 | 146.5 | 12.3 | 201 | 205.2 | 17.5 | 261 | 200.6 | 22.7 | 321 | 312.8 | 28.6 | 381 | 379.0 | 33.2 | 441 | 439.3 | 36.4 |
| 22 | 21.9 | 01.9 | 82 | 81.7 | 67.1 | 142 | 141.5 | 12.4 | 202 | 251.2 | 17.0 | 262 | 201.0 | 22.8 | 322 | 326.8 | 28.1 | 362 | 380.5 | 33.3 | 442 | 440.3 | 38.6 |
| 23 | 22.9 | 02.0 | 83 | 82.7 | 07.2 | 143 | 142.5 | 12.5 | 203 | 262.2 | 17.7 | 203 | 262.6 | 22.9 | 323 | 321.0 | 28.2 | 353 | 301.0 | 33.4 | 443 | 441.3 | 58.0 |
| 21 | 23.9 | 02.1 | 84 | 83.7 | 07.3 | 144 | 113.5 | 12.0 | 204 | 203.2 | 17.8 | 204 | 263.0 | 23.0 | 324 | 322.8 | 28.2 | 384 | 382.5 | 33.5 | 444 | 442.3 | 38.7 |
| 25 | 24.9 | 02.2 | 85 | 84.7 | 67.1 | 145 | 144.4 | 12.6 | 205 | 204.2 | 17.9 | 200 | 264.0 | 23.1 | 325 | 323.6 | 28.3 | 380 | 383.0 | 33.8 | 415 | 443.5 | 30.8 |
| 26 | 25.9 | 82.3 | 66 | 86.7 | 67.5 | 146 | 145.4 | 12.7 | 208 | 205.2 | 18.0 | 260 | 265.0 | 23.2 | 320 | 324.8 | 28.4 | 380 | 384.5 | 33.7 | 440 | 144.3 | 38.2 |
| 27 | 26.9 | 82.4 | 87 | 80.7 | 07.8 | 147 | 140.4 | 12.8 | 207 | 200.2 | 18.0 | 267 | 260.0 | 23.3 | 327 | 326.8 | 28.5 | 367 | 385.5 | 33.7 | 447 | 145.3 | 39.6 |
| 28 | 27.9 | 62.4 | 88 | 67.7 | 07.7 | 148 | 147.4 | 12.9 | 208 | 207.2 | 18.1 | 208 | 267.0 | 23.4 | 328 | 320.7 | 28.0 | 388 | 386.5 | 33.8 | 446 | 446.3 | 32.1 |
| 29 | 28.9 | 02.6 | 69 | 86.7 | 07.8 | 149 | 140.4 | 13.6 | 202 | 288.2 | 18.2 | 209 | 268.0 | 23.4 | 329 | 327.7 | 26.7 | 389 | 367.5 | 33.2 | 449 | 447.3 | 39.1 |
| 30 | 29.9 | 02.6 | 20 | 89.7 | 07.8 | 166 | 142.4 | 13.1 | 216 | 202.2 | 16.3 | 276 | 262.0 | 23.5 | 330 | 328.7 | 28.0 | 390 | 388.0 | 34.8 | 450 | 148.3 | 39.2 |
| 31 | 30.9 | 02.7 | 91 | 90.7 | 67.2 | 151 | 150.4 | 13.2 | 211 | 210.2 | 18.1 | 271 | 270.0 | 23.6 | 331 | 329.7 | 28.9 | 391 | 369.5 | 34.1 | 401 | 449.3 | 39.3 |
| 32 | 31.9 | 02.8 | 92 | 91.0 | 08.6 | 162 | 151.4 | 13.2 | 212 | 211.2 | 10.5 | 272 | 271.0 | 23.7 | 332 | 336.7 | 28.9 | 392 | 390.6 | 31.2 | 402 | 450.3 | 32.4 |
| 33 | 32.9 | 02.2 | 23 | 22.0 | 08.1 | 153 | 102.4 | 13.3 | 213 | 212.2 | 16.6 | 273 | 272.0 | 23.6 | 333 | 331.7 | 29.6 | 393 | 391.5 | 34.3 | 453 | 151.5 | 39.6 |
| 34 | 33.9 | 03.0 | 24 | 93.6 | 88.2 | 154 | 163.4 | 13.4 | 214 | 213.2 | 16.7 | 274 | 273.0 | 23.2 | 334 | 332.7 | 20.1 | 324 | 392.5 | 34.3 | 454 | 452.3 | 39.0 |
| 36 | 34.2 | 03.1 | 25 | 24.0 | 00.3 | 156 | 154.4 | 13.5 | 215 | 214.2 | 10.7 | 275 | 274.0 | 24.6 | 336 | 333.7 | 22.2 | 396 | 393.5 | 34.4 | 455 | 453.3 | 39.7 |
| 30 | 35.9 | 03.1 | 20 | 20.5 | 00.4 | 150 | 106.4 | 13.0 | 210 | 216.2 | 18.8 | 270 | 274.9 | 24.1 | 330 | 334.7 | 22.3 | 396 | 324.5 | 34.6 | 466 | 154.3 | 39.0 |
| 37 | 30.9 | 83.2 | 27 | 28.0 | 00.5 | 167 | 106.4 | 13.7 | 217 | 210.2 | 16.9 | 277 | 276.2 | 24.1 | 337 | 330.7 | 22.4 | 397 | 396.5 | 34.0 | 457 | 455.3 | 39.8 |
| 38 | 37.9 | 83.3 | 20 | 27.8 | 00.5 | 156 | 157.4 | 13.6 | 218 | 217.2 | 19.0 | 276 | 270.9 | 24.2 | 338 | 330.7 | 22.6 | 328 | 396.5 | 34.7 | 468 | 460.3 | 39.2 |
| 39 | 30.9 | 63.4 | 29 | 25.6 | 88.5 | 152 | 150.4 | 13.2 | 212 | 216.2 | 12.1 | 272 | 277.2 | 24.3 | 339 | 337.7 | 22.0 | 392 | 327.6 | 34.8 | 459 | 457.3 | 40.0 |
| 40 | 39.6 | 03.6 | 106 | 99.0 | 00.7 | 106 | 152.4 | 13.2 | 220 | 212.2 | 12.2 | 206 | 270.2 | 24.4 | 346 | 338.7 | 22.0 | 400 | 390.0 | 34.2 | 400 | 458.2 | 48.1 |
| 41 | 40.8 | 03.8 | 101 | 100.8 | 00.0 | 101 | 106.4 | 14.0 | 221 | 220.2 | 12.3 | 281 | 272.2 | 24.5 | 341 | 332.7 | 22.7 | 401 | 396.5 | 35.0 | 401 | 459.2 | 40.2 |
| 42 | 41.6 | 03.7 | 102 | 101.6 | 00.2 | 102 | 161.4 | 14.1 | 222 | 221.2 | 12.3 | 202 | 280.2 | 24.0 | 342 | 346.7 | 22.8 | 402 | 460.6 | 35.0 | 402 | 408.2 | 40.3 |
| 43 | 42.0 | 03.7 | 103 | 162.5 | 09.6 | 163 | 102.4 | 14.2 | 223 | 222.2 | 12.4 | 203 | 261.2 | 24.7 | 343 | 311.7 | 22.2 | 403 | 401.5 | 30.1 | 403 | 161.2 | 40.4 |
| 44 | 43.6 | 83.6 | 164 | 103.8 | 09.1 | 184 | 103.4 | 14.3 | 224 | 223.1 | 12.6 | 284 | 282.2 | 24.8 | 344 | 342.7 | 36.0 | 404 | 402.5 | 30.2 | 464 | 462.2 | 46.4 |
| 45 | 44.8 | 83.2 | 106 | 104.0 | 09.2 | 186 | 104.4 | 14.4 | 225 | 224.1 | 12.0 | 285 | 283.2 | 24.8 | 346 | 343.7 | 30.1 | 405 | 403.5 | 35.3 | 405 | 403.2 | 45.6 |
| 46 | 45.8 | 04.0 | 100 | 165.8 | 09.2 | 100 | 106.4 | 14.0 | 226 | 225.1 | 12.7 | 286 | 284.2 | 24.2 | 346 | 344.7 | 30.2 | 400 | 404.5 | 36.4 | 106 | 464.2 | 40.0 |
| 47 | 48.8 | 04.1 | 107 | 100.6 | 09.3 | 187 | 100.4 | 14.6 | 227 | 220.1 | 19.6 | 287 | 285.2 | 26.0 | 347 | 345.7 | 30.3 | 187 | 405.1 | 35.5 | 407 | 465.2 | 40.7 |
| 40 | 47.8 | 04.2 | 108 | 107.0 | 09.4 | 108 | 107.4 | 14.8 | 228 | 227.1 | 12.9 | 286 | 280.9 | 26.1 | 348 | 340.7 | 30.3 | 408 | 400.4 | 30.0 | 408 | 400.2 | 46.8 |
| 49 | 48.5 | 04.3 | 109 | 108.6 | 89.0 | 189 | 168.4 | 14.7 | 229 | 226.1 | 20.0 | 289 | 287.9 | 26.2 | 342 | 347.7 | 36.4 | 459 | 467.4 | 35.7 | 409 | 467.2 | 40.2 |
| 50 | 49.8 | 04.4 | 110 | 109.5 | 09.5 | 170 | 159.4 | 14.8 | 230 | 229.1 | 26.6 | 290 | 286.2 | 25.3 | 350 | 348.7 | 38.5 | 416 | 408.4 | 35.7 | 470 | 168.2 | 41.5 |
| 51 | 50.8 | 04.4 | 111 | 116.5 | 09.7 | 171 | 170.3 | 14.2 | 231 | 230.1 | 20.1 | 291 | 289.9 | 25.4 | 351 | 349.7 | 30.0 | 411 | 409.4 | 35.6 | 471 | 162.2 | 41.1 |
| 62 | 51.8 | 84.5 | 112 | 111.8 | 09.6 | 172 | 171.3 | 15.6 | 232 | 231.1 | 20.2 | 292 | 298.9 | 25.4 | 352 | 350.7 | 38.7 | 412 | 418.4 | 35.9 | 472 | 478.2 | 41.1 |
| 53 | 52.6 | 54.0 | 113 | 112.6 | 09.8 | 173 | 172.3 | 15.1 | 233 | 232.1 | 26.3 | 293 | 291.9 | 25.5 | 353 | 351.7 | 38.6 | 413 | 411.4 | 36.0 | 473 | 471.2 | 41.2 |
| 54 | 53.5 | 54.7 | 114 | 113.6 | 09.9 | 174 | 173.3 | 15.2 | 234 | 233.1 | 28.4 | 294 | 292.2 | 25.0 | 354 | 352.6 | 38.9 | 414 | 412.4 | 36.1 | 474 | 472.2 | 41.3 |
| 55 | 54.6 | 04.6 | 115 | 114.5 | 15.0 | 176 | 174.3 | 15.3 | 235 | 234.1 | 20.6 | 296 | 293.2 | 25.7 | 355 | 353.5 | 30.9 | 415 | 413.4 | 36.2 | 475 | 473.2 | 41.4 |
| 56 | 56.0 | 04.9 | 116 | 115.0 | 10.1 | 176 | 175.3 | 15.3 | 230 | 235.1 | 20.0 | 296 | 224.2 | 25.8 | 356 | 354.8 | 31.0 | 416 | 414.4 | 36.3 | 470 | 474.2 | 41.5 |
| 57 | 66.8 | 06.6 | 117 | 116.6 | 15.2 | 177 | 176.6 | 15.4 | 237 | 236.1 | 20.7 | 297 | 295.9 | 26.2 | 357 | 356.5 | 31.1 | 117 | 415.4 | 36.4 | 477 | 475.2 | 41.0 |
| 58 | 67.8 | 06.1 | 118 | 117.5 | 16.3 | 176 | 177.3 | 15.5 | 238 | 237.1 | 20.7 | 205 | 296.9 | 26.6 | 356 | 356.8 | 31.2 | 118 | 416.4 | 36.4 | 478 | 170.2 | 41.7 |
| 69 | 68.8 | 05.1 | 119 | 118.5 | 16.4 | 179 | 178.3 | 16.5 | 239 | 238.1 | 26.8 | 299 | 297.2 | 28.1 | 359 | 357.5 | 31.3 | 119 | 417.4 | 30.5 | 479 | 477.2 | 41.6 |
| 60 | 52.8 | 05.2 | 125 | 119.5 | 10.5 | 180 | 179.3 | 15.7 | 245 | 239.1 | 26.9 | 300 | 228.9 | 26.1 | 360 | 368.8 | 31.4 | 420 | 418.4 | 36.6 | 480 | 178.2 | 41.0 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.h 40.m — Para 85 grados. — 6.h 20.m

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

0.ʰ 24.ᵐ Para 6 grados. 11.ʰ 36.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.1 | 61 | 60.7 | 06.4 | 121 | 120.3 | 12.6 | 181 | 188.8 | 18.9 | 241 | 239.7 | 25.2 | 301 | 299.3 | 31.5 | 361 | 359.8 | 37.7 | 421 | 418.7 | 44.8 |
| 9 | 82.6 | 00.2 | 62 | 61.7 | 06.6 | 122 | 121.3 | 12.8 | 182 | 181.6 | 19.0 | 242 | 240.7 | 95.3 | 582 | 380.5 | 31.6 | 362 | 368.5 | 37.8 | 422 | 419.7 | 44.1 |
| 3 | 63.6 | 80.3 | 33 | 62.7 | 66.6 | 123 | 122.3 | 12.9 | 183 | 182.0 | 13.1 | 243 | 241.7 | 25.4 | 383 | 381.3 | 31.7 | 363 | 361.5 | 37.9 | 423 | 428.7 | 44.2 |
| 4 | 04.0 | 50.4 | 54 | 63.6 | 66.7 | 124 | 123.3 | 13.0 | 184 | 183.6 | 19.2 | 244 | 242.7 | 25.6 | 384 | 362.3 | 31.8 | 364 | 352.0 | 38.0 | 424 | 421.7 | 44.5 |
| 6 | 05.0 | 50.5 | 65 | 64.6 | 06.8 | 125 | 124.5 | 13.1 | 185 | 184.0 | 19.5 | 245 | 243.7 | 25.6 | 385 | 383.3 | 31.9 | 305 | 363.8 | 30.1 | 425 | 422.7 | 44.4 |
| 3 | 86.0 | 00.6 | 66 | 65.6 | 06.9 | 126 | 126.3 | 13.2 | 186 | 185.5 | 12.4 | 246 | 244.7 | 25.7 | 306 | 384.3 | 32.8 | 366 | 364.0 | 58.3 | 426 | 423.7 | 44.5 |
| 7 | 67.0 | 00.7 | 67 | 06.6 | 57.6 | 127 | 126.3 | 13.3 | 187 | 186.0 | 12.3 | 247 | 245.6 | 25.8 | 307 | 305.3 | 32.1 | 367 | 365.0 | 38.4 | 427 | 424.7 | 44.6 |
| 8 | 60.5 | 00.8 | 68 | 67.6 | 67.1 | 128 | 127.3 | 13.4 | 188 | 187.0 | 19.7 | 248 | 246.6 | 25.9 | 308 | 306.3 | 32.2 | 308 | 366.0 | 58.5 | 428 | 425.7 | 44.7 |
| 9 | 89.6 | 80.9 | 69 | 68.6 | 67.2 | 129 | 128.3 | 13.5 | 189 | 188.5 | 19.8 | 249 | 247.6 | 26.8 | 362 | 307.3 | 32.3 | 369 | 367.0 | 38.6 | 429 | 426.6 | 44.8 |
| 10 | 09.9 | 61.0 | 70 | 69.6 | 07.3 | 130 | 129.3 | 13.6 | 190 | 189.6 | 19.9 | 258 | 248.6 | 26.1 | 310 | 308.3 | 32.4 | 370 | 368.0 | 38.7 | 438 | 427.6 | 44.9 |
| 11 | 16.2 | 61.1 | 71 | 70.6 | 57.4 | 131 | 138.3 | 13.7 | 191 | 190.6 | 20.0 | 251 | 243.6 | 26.2 | 311 | 309.3 | 32.5 | 371 | 369.0 | 38.8 | 431 | 428.6 | 45.8 |
| 12 | 11.9 | 61.3 | 72 | 71.6 | 07.6 | 132 | 131.3 | 13.8 | 192 | 190.9 | 20.1 | 252 | 255.6 | 26.3 | 312 | 318.3 | 32.6 | 372 | 378.0 | 38.9 | 452 | 429.6 | 45.2 |
| 13 | 12.9 | 81.4 | 73 | 72.6 | 07.6 | 133 | 132.3 | 13.9 | 193 | 121.9 | 20.2 | 253 | 251.6 | 26.4 | 313 | 311.3 | 32.7 | 373 | 371.0 | 39.8 | 433 | 430.6 | 45.3 |
| 14 | 13.9 | 01.5 | 74 | 73.6 | 57.7 | 134 | 133.3 | 14.0 | 194 | 192.9 | 20.3 | 254 | 202.6 | 20.6 | 314 | 312.3 | 32.8 | 374 | 371.9 | 39.1 | 434 | 431.6 | 46.4 |
| 15 | 14.9 | 61.6 | 75 | 74.6 | 07.8 | 155 | 134.3 | 14.1 | 195 | 193.9 | 20.4 | 256 | 255.6 | 26.7 | 315 | 313.3 | 32.9 | 375 | 372.9 | 39.2 | 435 | 432.0 | 45.5 |
| 16 | 15.2 | 61.7 | 76 | 75.6 | 07.9 | 136 | 135.3 | 14.2 | 196 | 194.9 | 20.5 | 256 | 254.6 | 26.8 | 316 | 314.3 | 53.0 | 376 | 373.9 | 32.3 | 436 | 433.5 | 45.5 |
| 17 | 16.3 | 61.8 | 77 | 76.6 | 68.0 | 137 | 136.2 | 14.5 | 197 | 195.2 | 20.6 | 257 | 255.6 | 26.9 | 317 | 315.3 | 33.1 | 377 | 374.9 | 39.4 | 437 | 434.6 | 46.7 |
| 16 | 17.9 | 61.9 | 78 | 77.6 | 58.2 | 138 | 137.2 | 14.4 | 198 | 196.9 | 20.7 | 258 | 256.6 | 27.0 | 318 | 316.3 | 33.2 | 378 | 376.9 | 33.6 | 438 | 435.6 | 45.8 |
| 19 | 18.2 | 62.0 | 79 | 70.6 | 08.3 | 132 | 138.2 | 14.5 | 199 | 197.9 | 20.8 | 252 | 257.6 | 27.1 | 312 | 317.3 | 33.3 | 379 | 376.2 | 39.6 | 439 | 436.5 | 45.9 |
| 96 | 19.2 | 62.1 | 80 | 73.6 | 06.4 | 140 | 152.2 | 14.6 | 206 | 198.9 | 20.9 | 260 | 250.6 | 27.2 | 320 | 318.2 | 33.4 | 388 | 377.9 | 39.7 | 448 | 437.6 | 43.6 |
| 21 | 20.9 | 62.2 | 81 | 88.6 | 50.5 | 141 | 140.2 | 14.7 | 201 | 199.3 | 21.0 | 261 | 259.6 | 27.3 | 321 | 319.2 | 33.6 | 381 | 375.9 | 39.8 | 441 | 458.6 | 46.1 |
| 22 | 21.9 | 62.3 | 82 | 81.6 | 08.6 | 142 | 141.2 | 14.0 | 202 | 280.9 | 21.1 | 262 | 260.6 | 27.4 | 322 | 528.2 | 33.7 | 382 | 379.9 | 39.9 | 442 | 439.6 | 46.2 |
| 23 | 22.9 | 62.4 | 83 | 82.5 | 08.7 | 143 | 142.9 | 14.9 | 203 | 281.3 | 21.2 | 263 | 261.6 | 27.5 | 323 | 321.2 | 33.8 | 383 | 385.9 | 40.8 | 443 | 446.6 | 46.3 |
| 24 | 93.9 | 62.5 | 84 | 83.5 | 08.8 | 144 | 143.2 | 15.1 | 204 | 282.9 | 21.3 | 264 | 262.6 | 27.6 | 324 | 322.2 | 33.9 | 304 | 381.9 | 40.1 | 444 | 441.6 | 46.4 |
| 25 | 24.9 | 09.6 | 85 | 84.5 | 58.9 | 145 | 144.2 | 15.2 | 205 | 283.9 | 21.4 | 265 | 263.5 | 27.7 | 326 | 323.2 | 34.0 | 380 | 382.9 | 40.2 | 440 | 442.6 | 46.5 |
| 26 | 25.9 | 62.7 | 86 | 85.6 | 39.0 | 143 | 145.9 | 15.3 | 206 | 284.9 | 91.5 | 266 | 264.6 | 27.8 | 326 | 324.2 | 34.1 | 380 | 383.9 | 40.3 | 446 | 443.6 | 46.6 |
| 27 | 26.9 | 62.8 | 87 | 86.6 | 09.1 | 147 | 146.2 | 15.4 | 207 | 205.3 | 21.6 | 267 | 265.6 | 27.9 | 327 | 326.2 | 34.2 | 387 | 384.3 | 40.5 | 447 | 444.5 | 46.7 |
| 28 | 27.5 | 62.9 | 88 | 87.0 | 59.2 | 148 | 147.2 | 15.5 | 208 | 203.9 | 21.7 | 268 | 233.5 | 26.8 | 528 | 326.2 | 34.3 | 388 | 385.3 | 40.6 | 448 | 446.6 | 46.8 |
| 29 | 28.0 | 03.0 | 89 | 86.5 | 69.3 | 143 | 148.9 | 15.6 | 209 | 207.2 | 21.8 | 269 | 967.5 | 28.1 | 329 | 327.2 | 34.4 | 389 | 386.9 | 40.7 | 149 | 446.5 | 46.9 |
| 30 | 29.5 | 03.1 | 95 | 89.6 | 63.4 | 150 | 149.2 | 10.7 | 215 | 206.6 | 29.5 | 270 | 268.5 | 28.2 | 330 | 328.2 | 34.6 | 398 | 367.9 | 40.8 | 406 | 447.5 | 47.8 |
| 31 | 36.8 | 83.2 | 91 | 90.5 | 69.5 | 151 | 150.2 | 15.8 | 211 | 209.8 | 22.1 | 271 | 259.6 | 28.3 | 331 | 329.2 | 34.6 | 391 | 388.3 | 40.9 | 451 | 445.5 | 47.1 |
| 32 | 31.6 | 03.3 | 92 | 21.5 | 69.6 | 152 | 151.2 | 10.9 | 212 | 218.8 | 22.2 | 272 | 270.6 | 28.4 | 332 | 336.2 | 34.7 | 392 | 389.9 | 41.8 | 459 | 443.5 | 47.2 |
| 33 | 32.5 | 03.4 | 93 | 92.5 | 69.7 | 153 | 162.9 | 16.0 | 213 | 211.6 | 22.3 | 273 | 271.6 | 28.5 | 333 | 331.2 | 34.8 | 393 | 390.8 | 41.1 | 463 | 450.6 | 47.3 |
| 34 | 33.5 | 83.0 | 24 | 93.5 | 09.0 | 154 | 153.9 | 16.1 | 214 | 212.8 | 22.4 | 274 | 272.6 | 28.6 | 354 | 332.2 | 34.9 | 394 | 391.8 | 41.2 | 404 | 461.6 | 47.6 |
| 35 | 34.8 | 03.7 | 25 | 94.5 | 09.9 | 155 | 154.9 | 16.2 | 210 | 213.5 | 22.5 | 276 | 273.5 | 28.7 | 335 | 335.2 | 35.0 | 395 | 322.8 | 41.3 | 455 | 452.5 | 47.6 |
| 36 | 35.5 | 03.8 | 96 | 95.6 | 15.8 | 156 | 156.1 | 16.3 | 216 | 214.8 | 22.6 | 276 | 274.6 | 28.8 | 336 | 334.2 | 35.1 | 393 | 393.5 | 41.4 | 450 | 453.6 | 47.7 |
| 37 | 36.8 | 03.9 | 97 | 36.5 | 10.1 | 157 | 156.1 | 16.4 | 217 | 215.8 | 22.7 | 277 | 275.6 | 29.6 | 337 | 335.2 | 35.2 | 397 | 334.8 | 41.5 | 457 | 464.5 | 47.8 |
| 38 | 37.5 | 84.0 | 98 | 97.5 | 16.2 | 108 | 157.1 | 16.5 | 218 | 216.8 | 22.8 | 278 | 276.6 | 29.1 | 338 | 336.1 | 36.3 | 398 | 325.8 | 41.6 | 458 | 455.5 | 47.9 |
| 39 | 38.5 | 04.1 | 99 | 98.5 | 10.3 | 159 | 158.1 | 16.6 | 219 | 217.6 | 92.9 | 279 | 277.6 | 29.2 | 339 | 337.1 | 36.4 | 399 | 326.8 | 41.7 | 459 | 456.5 | 48.0 |
| 40 | 39.3 | 64.2 | 106 | 99.6 | 16.5 | 160 | 159.1 | 10.7 | 226 | 918.8 | 23.8 | 280 | 278.6 | 29.3 | 340 | 336.1 | 35.5 | 403 | 397.8 | 41.8 | 408 | 407.6 | 48.1 |
| 41 | 40.5 | 64.5 | 101 | 108.4 | 16.6 | 161 | 166.1 | 16.8 | 221 | 219.8 | 23.1 | 281 | 279.5 | 23.4 | 341 | 339.1 | 35.5 | 401 | 398.8 | 41.9 | 461 | 456.6 | 48.2 |
| 42 | 41.8 | 84.4 | 109 | 181.4 | 16.7 | 102 | 161.1 | 16.9 | 229 | 220.5 | 23.2 | 282 | 280.5 | 29.6 | 342 | 340.1 | 35.7 | 402 | 599.8 | 42.8 | 462 | 459.5 | 48.5 |
| 43 | 42.6 | 04.6 | 103 | 102.4 | 16.8 | 103 | 102.1 | 17.0 | 223 | 221.8 | 23.3 | 283 | 281.4 | 29.6 | 343 | 341.1 | 35.8 | 403 | 400.8 | 42.1 | 463 | 460.5 | 46.4 |
| 44 | 43.3 | 04.6 | 104 | 103.4 | 10.9 | 164 | 163.1 | 17.1 | 224 | 222.8 | 23.4 | 284 | 282.4 | 29.7 | 344 | 342.1 | 36.8 | 104 | 401.8 | 42.2 | 464 | 401.5 | 46.5 |
| 45 | 44.6 | 64.7 | 106 | 104.4 | 11.0 | 166 | 164.1 | 17.2 | 226 | 223.3 | 93.6 | 286 | 283.4 | 23.8 | 345 | 343.1 | 36.1 | 406 | 402.8 | 42.3 | 465 | 462.6 | 48.6 |
| 46 | 45.7 | 64.8 | 106 | 185.4 | 11.1 | 166 | 165.1 | 17.4 | 226 | 224.8 | 23.6 | 286 | 284.4 | 99.2 | 346 | 344.1 | 36.2 | 486 | 403.8 | 42.4 | 466 | 403.4 | 48.7 |
| 47 | 46.7 | 64.9 | 107 | 106.4 | 11.2 | 167 | 166.1 | 17.5 | 227 | 225.8 | 23.7 | 287 | 286.4 | 30.8 | 347 | 345.1 | 36.5 | 487 | 404.8 | 42.5 | 467 | 464.4 | 48.8 |
| 43 | 47.7 | 85.8 | 108 | 107.4 | 11.3 | 168 | 167.1 | 17.6 | 228 | 226.8 | 93.8 | 288 | 286.4 | 36.1 | 348 | 346.1 | 36.4 | 488 | 405.8 | 42.6 | 468 | 435.4 | 48.9 |
| 49 | 48.7 | 85.1 | 109 | 188.4 | 11.4 | 169 | 168.1 | 17.7 | 229 | 227.7 | 23.9 | 289 | 287.4 | 30.2 | 349 | 347.1 | 36.5 | 469 | 406.8 | 42.7 | 469 | 466.4 | 49.6 |
| 50 | 49.7 | 66.2 | 118 | 109.4 | 11.5 | 170 | 169.1 | 17.8 | 230 | 228.7 | 24.0 | 290 | 288.4 | 30.5 | 350 | 346.1 | 36.6 | 110 | 487.8 | 42.9 | 478 | 407.4 | 49.1 |
| 61 | 50.7 | 65.3 | 111 | 116.4 | 11.6 | 171 | 170.1 | 17.2 | 231 | 229.7 | 24.1 | 291 | 289.4 | 38.4 | 351 | 349.1 | 36.7 | 411 | 408.7 | 43.0 | 471 | 468.4 | 42.2 |
| 62 | 51.7 | 85.4 | 112 | 111.4 | 11.7 | 172 | 171.1 | 18.0 | 232 | 230.7 | 24.3 | 222 | 290.4 | 30.5 | 352 | 353.1 | 36.8 | 412 | 409.7 | 45.1 | 472 | 409.4 | 42.3 |
| 53 | 92.7 | 05.5 | 113 | 112.4 | 11.8 | 173 | 172.1 | 18.1 | 233 | 231.7 | 24.4 | 293 | 291.4 | 38.6 | 353 | 351.1 | 36.2 | 413 | 418.7 | 43.2 | 473 | 470.4 | 49.4 |
| 54 | 53.7 | 85.6 | 114 | 113.4 | 11.9 | 174 | 175.0 | 18.2 | 234 | 232.7 | 24.5 | 294 | 292.4 | 30.7 | 354 | 352.1 | 37.0 | 414 | 411.7 | 43.3 | 474 | 471.4 | 49.5 |
| 55 | 54.7 | 85.7 | 115 | 114.4 | 12.0 | 175 | 174.0 | 18.3 | 235 | 233.7 | 24.6 | 295 | 293.4 | 50.8 | 355 | 353.1 | 37.1 | 415 | 412.7 | 43.4 | 475 | 472.4 | 49.6 |
| 53 | 65.7 | 06.9 | 116 | 115.4 | 12.1 | 176 | 175.0 | 18.4 | 236 | 234.7 | 24.7 | 296 | 294.4 | 30.9 | 356 | 354.0 | 37.2 | 416 | 413.7 | 45.5 | 476 | 473.4 | 49.8 |
| 57 | 56.7 | 86.0 | 117 | 116.4 | 12.2 | 177 | 176.8 | 18.5 | 237 | 235.7 | 24.3 | 297 | 295.4 | 31.0 | 357 | 350.5 | 37.5 | 417 | 414.7 | 45.6 | 477 | 474.4 | 49.9 |
| 53 | 57.7 | 06.1 | 118 | 117.4 | 12.3 | 178 | 177.0 | 18.6 | 238 | 236.7 | 24.2 | 298 | 296.4 | 31.1 | 358 | 556.0 | 37.4 | 418 | 415.7 | 43.7 | 478 | 475.4 | 50.8 |
| 59 | 58.7 | 66.2 | 119 | 118.3 | 12.4 | 179 | 178.0 | 18.7 | 239 | 237.7 | 25.0 | 299 | 297.4 | 31.3 | 359 | 557.0 | 37.5 | 419 | 416.7 | 43.8 | 479 | 476.4 | 50.1 |
| 60 | 69.7 | 86.3 | 120 | 119.3 | 12.5 | 188 | 179.0 | 18.8 | 246 | 238.7 | 26.1 | 308 | 298.4 | 31.4 | 568 | 358.0 | 37.6 | 426 | 417.7 | 43.9 | 488 | 477.4 | 50.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 36.ᵐ Para 84 grados. 6.ʰ 24.ᵐ

**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

0.ʰ 28.ᵐ — Para 7 grados. — 11.ʰ 32.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.1 | 61 | 60.0 | 07.4 | 121 | 120.1 | 14.7 | 181 | 179.7 | 22.1 | 241 | 239.2 | 29.4 | 301 | 298.7 | 36.7 | 361 | 350.3 | 44.0 | 421 | 417.9 | 51.3 |
| 2 | 02.0 | 00.2 | 62 | 61.0 | 07.6 | 122 | 121.1 | 14.9 | 182 | 180.6 | 22.2 | 242 | 240.2 | 29.5 | 302 | 299.7 | 36.8 | 362 | 359.3 | 44.1 | 422 | 418.8 | 51.4 |
| 3 | 03.0 | 00.4 | 63 | 62.6 | 07.7 | 123 | 122.1 | 15.0 | 183 | 181.6 | 22.3 | 243 | 241.2 | 29.6 | 303 | 300.7 | 36.9 | 363 | 360.3 | 44.2 | 423 | 419.8 | 51.5 |
| 4 | 64.0 | 00.5 | 64 | 63.5 | 07.8 | 124 | 123.1 | 15.1 | 184 | 182.6 | 22.4 | 244 | 242.2 | 29.7 | 304 | 301.7 | 37.0 | 364 | 361.3 | 44.4 | 424 | 420.8 | 51.7 |
| 5 | 65.0 | 00.6 | 65 | 64.5 | 07.9 | 125 | 124.1 | 15.2 | 185 | 183.0 | 22.5 | 245 | 243.5 | 29.9 | 305 | 302.7 | 37.2 | 365 | 362.3 | 44.5 | 425 | 421.8 | 51.0 |
| 6 | 06.0 | 00.7 | 66 | 65.5 | 08.0 | 126 | 125.1 | 15.4 | 186 | 184.0 | 22.7 | 246 | 244.2 | 30.0 | 305 | 303.7 | 37.3 | 366 | 363.3 | 44.6 | 426 | 422.8 | 51.9 |
| 7 | 06.2 | 00.9 | 67 | 66.5 | 08.2 | 127 | 120.1 | 15.5 | 187 | 185.0 | 22.8 | 247 | 245.2 | 30.1 | 307 | 304.7 | 37.4 | 367 | 364.3 | 44.7 | 427 | 423.8 | 52.0 |
| 0 | 07.2 | 01.0 | 68 | 67.5 | 08.3 | 128 | 127.8 | 15.6 | 188 | 186.5 | 22.9 | 248 | 246.2 | 30.2 | 400 | 306.7 | 37.5 | 368 | 365.2 | 44.8 | 428 | 424.0 | 52.2 |
| 2 | 08.9 | 01.1 | 69 | 68.5 | 08.4 | 129 | 128.0 | 15.7 | 189 | 187.6 | 23.0 | 242 | 247.1 | 30.3 | 302 | 306.7 | 37.7 | 369 | 366.2 | 45.0 | 429 | 425.0 | 52.3 |
| 10 | 09.9 | 01.2 | 70 | 69.5 | 06.5 | 130 | 129.0 | 15.8 | 190 | 108.6 | 23.2 | 250 | 248.1 | 30.5 | 310 | 307.7 | 37.8 | 370 | 367.2 | 45.1 | 430 | 426.8 | 52.4 |
| 11 | 18.9 | 01.4 | 71 | 70.5 | 00.7 | 131 | 130.0 | 16.0 | 191 | 109.6 | 23.3 | 251 | 249.1 | 30.6 | 311 | 308.7 | 37.9 | 371 | 368.2 | 45.2 | 431 | 427.8 | 52.5 |
| 12 | 11.9 | 01.5 | 72 | 71.5 | 08.8 | 132 | 131.0 | 16.1 | 192 | 190.6 | 23.4 | 252 | 250.1 | 30.7 | 312 | 309.7 | 38.0 | 372 | 369.2 | 45.3 | 432 | 428.0 | 52.6 |
| 13 | 12.9 | 01.6 | 73 | 72.0 | 08.9 | 133 | 132.0 | 16.2 | 193 | 191.5 | 23.5 | 253 | 251.1 | 30.8 | 313 | 310.7 | 38.1 | 373 | 370.2 | 45.5 | 433 | 429.8 | 52.8 |
| 14 | 13.9 | 01.7 | 74 | 73.4 | 09.0 | 134 | 133.0 | 15.3 | 194 | 192.6 | 23.6 | 254 | 252.1 | 31.0 | 314 | 311.7 | 38.3 | 374 | 371.2 | 45.6 | 434 | 430.8 | 52.2 |
| 15 | 14 9 | 01.8 | 75 | 74.4 | 02.1 | 135 | 134.0 | 16.5 | 195 | 193.5 | 23.8 | 255 | 253.1 | 31.1 | 315 | 312.6 | 38.4 | 375 | 372.2 | 45.7 | 435 | 431.7 | 53.0 |
| 16 | 15.9 | 01.9 | 76 | 75.4 | 82.3 | 136 | 135.0 | 16.6 | 196 | 194.5 | 23.9 | 256 | 254.1 | 31.2 | 316 | 313.6 | 30.5 | 376 | 373.2 | 40.0 | 436 | 432.7 | 53.1 |
| 17 | 16.9 | 02.1 | 77 | 76.4 | 09.4 | 137 | 136.0 | 16.7 | 197 | 195.0 | 24.0 | 257 | 255.1 | 31.3 | 317 | 314.6 | 38.6 | 377 | 374.2 | 45.9 | 437 | 433.7 | 53.3 |
| 18 | 17.9 | 02.2 | 78 | 77.4 | 89.5 | 138 | 137.0 | 16.8 | 198 | 196.0 | 24.1 | 258 | 256.1 | 31.4 | 318 | 315.6 | 38.7 | 378 | 375.2 | 46.1 | 438 | 434.7 | 63.4 |
| 19 | 18.9 | 62.3 | 79 | 70.4 | 82.6 | 139 | 138.6 | 16.9 | 199 | 197.0 | 24.3 | 259 | 257.1 | 31.6 | 319 | 316.5 | 38.9 | 379 | 376.2 | 46.2 | 439 | 435.7 | 53.5 |
| 20 | 19.9 | 02.4 | 80 | 79.4 | 09.7 | 140 | 139.8 | 17.1 | 200 | 198.5 | 24.4 | 260 | 258.1 | 31.7 | 328 | 317.6 | 39.0 | 380 | 377.2 | 46.3 | 440 | 436.7 | 03.6 |
| 21 | 20.8 | 82.6 | 01 | 80.4 | 09.9 | 141 | 139.9 | 17.2 | 201 | 199.5 | 24.5 | 261 | 259.1 | 31.8 | 321 | 318.8 | 39.1 | 381 | 370.1 | 46.4 | 441 | 437.7 | 53.7 |
| 22 | 21.8 | 02.7 | 82 | 81.4 | 10.0 | 142 | 140.9 | 17.3 | 202 | 200.5 | 24.6 | 262 | 260.0 | 31.9 | 322 | 319.6 | 32.2 | 382 | 379.1 | 46.5 | 442 | 430.7 | 53.2 |
| 23 | 22.8 | 02.0 | 83 | 82.4 | 10.1 | 143 | 141.2 | 17.4 | 203 | 201.0 | 24.7 | 263 | 261.0 | 32.1 | 323 | 320.6 | 39.4 | 383 | 300.1 | 46.7 | 443 | 439.7 | 54.8 |
| 24 | 23.8 | 82.2 | 84 | 83.4 | 10.2 | 144 | 142.9 | 17.5 | 204 | 202.5 | 21.9 | 264 | 262.0 | 32.2 | 324 | 321.8 | 39.5 | 384 | 381.1 | 46.8 | 444 | 440.7 | 54.1 |
| 25 | 24.6 | 83.0 | 85 | 84.4 | 10.4 | 145 | 143.2 | 17.7 | 205 | 203.5 | 25.0 | 265 | 263.6 | 32.3 | 325 | 322.6 | 39.6 | 385 | 382.1 | 46.9 | 445 | 441.7 | 54.2 |
| 26 | 25.0 | 03.2 | 86 | 85.4 | 18.5 | 145 | 144.2 | 17.8 | 206 | 204.5 | 25.1 | 266 | 264.0 | 32.4 | 326 | 323.6 | 39.7 | 386 | 383.1 | 47.0 | 446 | 442.7 | 54.3 |
| 27 | 25.8 | 03.3 | 87 | 86.4 | 10.6 | 147 | 145.2 | 17.9 | 207 | 205.5 | 25.2 | 267 | 265.8 | 32.5 | 327 | 324.6 | 39.8 | 387 | 384.1 | 47.2 | 447 | 443.7 | 54.5 |
| 28 | 27.8 | 03.4 | 88 | 87.3 | 10.7 | 148 | 146.2 | 18.0 | 208 | 206.4 | 25.3 | 268 | 266.0 | 32.7 | 328 | 325.5 | 40.0 | 388 | 385.1 | 47.3 | 448 | 444.7 | 54.6 |
| 29 | 28.8 | 83.5 | 89 | 88.3 | 10.8 | 149 | 147.9 | 18.2 | 209 | 207.4 | 25.5 | 269 | 267.0 | 32.8 | 329 | 326.5 | 40.1 | 309 | 386.1 | 47.4 | 449 | 445.6 | 54.7 |
| 30 | 29.8 | 83.7 | 90 | 89.3 | 11.0 | 150 | 148.9 | 16.3 | 210 | 208.4 | 25.6 | 270 | 268.6 | 32.2 | 330 | 327.5 | 40.2 | 390 | 307.1 | 47.5 | 450 | 446.6 | 64.8 |
| 31 | 30.8 | 03.8 | 91 | 90.3 | 11.1 | 151 | 149.9 | 10.4 | 211 | 202.4 | 25.7 | 271 | 269.0 | 33.0 | 331 | 328.5 | 40.3 | 391 | 380.1 | 47.6 | 451 | 447.6 | 55.0 |
| 32 | 31.8 | 83.9 | 92 | 91.3 | 11.2 | 152 | 150.9 | 18.5 | 212 | 210.4 | 25.8 | 272 | 270.8 | 33.1 | 332 | 329.5 | 40.5 | 392 | 389.1 | 47.8 | 452 | 448.6 | 55.1 |
| 33 | 32.8 | 04.0 | 23 | 92.3 | 11.3 | 153 | 151.9 | 18.6 | 213 | 211.4 | 26.0 | 273 | 271.6 | 33.3 | 333 | 338.5 | 48.6 | 393 | 390.1 | 47.9 | 453 | 449.6 | 55.2 |
| 34 | 33.7 | 84.1 | 94 | 93.3 | 11.5 | 154 | 152.9 | 18.8 | 214 | 212.4 | 26.1 | 274 | 272.6 | 33.4 | 334 | 331.6 | 40.7 | 394 | 391.1 | 48.0 | 454 | 450.6 | 05.3 |
| 35 | 34.7 | 04.3 | 95 | 94.3 | 11.6 | 155 | 153.0 | 10.9 | 215 | 213.4 | 26.2 | 275 | 273.8 | 33.5 | 335 | 332.5 | 40.8 | 395 | 392.0 | 48.1 | 455 | 451.6 | 65.4 |
| 36 | 36.7 | 04.4 | 25 | 95.3 | 11.7 | 156 | 154.0 | 19.0 | 216 | 214.4 | 20.3 | 276 | 273.9 | 33.6 | 336 | 333.5 | 40.9 | 326 | 393.0 | 48.3 | 456 | 452.6 | 65.6 |
| 37 | 35.7 | 04.5 | 97 | 96.3 | 11.8 | 157 | 155.8 | 12.1 | 217 | 215.4 | 26.4 | 277 | 274.9 | 33.8 | 337 | 334.5 | 41.1 | 397 | 394.8 | 46.4 | 457 | 453.8 | 55.7 |
| 38 | 37.7 | 04.6 | 98 | 97.3 | 11.9 | 158 | 158.8 | 19.3 | 218 | 216.4 | 26.6 | 278 | 275.9 | 33.9 | 338 | 335.6 | 41.2 | 398 | 395.0 | 48.5 | 458 | 454.6 | 55.0 |
| 39 | 38.7 | 04.8 | 99 | 90.3 | 12.1 | 159 | 157.0 | 19.4 | 219 | 217.4 | 26.7 | 279 | 276.9 | 31.0 | 339 | 336.6 | 41.3 | 399 | 396.0 | 48.6 | 459 | 455.6 | 55.2 |
| 40 | 39.7 | 04.9 | 100 | 99.3 | 12.2 | 160 | 158.8 | 19.5 | 220 | 218.4 | 26.8 | 280 | 277.2 | 34.1 | 340 | 337.5 | 41.4 | 400 | 397.0 | 48.7 | 460 | 456.6 | 66.1 |
| 41 | 40.7 | 05.0 | 101 | 100.2 | 12.3 | 161 | 159.8 | 19.6 | 221 | 219.4 | 26.9 | 281 | 278.9 | 34.2 | 341 | 338.4 | 41.6 | 401 | 398.0 | 48.9 | 461 | 457.6 | 56.2 |
| 42 | 41.7 | 05.1 | 102 | 101.2 | 12.4 | 162 | 160.8 | 19.7 | 222 | 220.3 | 27.1 | 282 | 279.9 | 34.4 | 342 | 339.4 | 41.7 | 402 | 399.0 | 49.0 | 462 | 458.6 | 56.3 |
| 43 | 42.7 | 05.2 | 103 | 102.2 | 12.6 | 163 | 161.8 | 12.9 | 223 | 221.3 | 27.2 | 283 | 280.9 | 34.5 | 343 | 340.4 | 41.8 | 403 | 400.0 | 49.1 | 163 | 452.0 | 60.4 |
| 44 | 43.7 | 05.4 | 104 | 103.2 | 12.7 | 164 | 162.8 | 20.0 | 224 | 222.3 | 27.3 | 284 | 281.2 | 34.6 | 344 | 341.4 | 41.9 | 404 | 401.0 | 49.2 | 464 | 460.0 | 66.5 |
| 45 | 44.7 | 05.5 | 105 | 104.2 | 12.8 | 165 | 163.0 | 20.1 | 225 | 223.3 | 27.4 | 285 | 282.2 | 34.7 | 346 | 342.4 | 42.0 | 405 | 402.0 | 49.4 | 465 | 401.5 | 56.7 |
| 46 | 45.7 | 05.6 | 106 | 105.2 | 12.9 | 166 | 164.8 | 20.2 | 226 | 224.3 | 27.5 | 286 | 283.2 | 34.9 | 346 | 343.4 | 42.2 | 406 | 403.0 | 49.5 | 466 | 462.0 | 56.0 |
| 47 | 46.6 | 05.7 | 107 | 106.2 | 13.0 | 167 | 165.8 | 20.4 | 227 | 225.3 | 27.7 | 287 | 284.9 | 35.0 | 347 | 344.4 | 42.3 | 407 | 404.0 | 49.6 | 467 | 463.0 | 56.9 |
| 48 | 47.6 | 05.8 | 108 | 107.2 | 13.2 | 168 | 166.7 | 20.5 | 228 | 226.3 | 27.8 | 288 | 285.2 | 30.1 | 348 | 345.4 | 42.4 | 408 | 405.0 | 49.7 | 468 | 464.5 | 67.0 |
| 49 | 48.6 | 06.0 | 109 | 108.2 | 13.3 | 169 | 167.7 | 20.6 | 229 | 227.3 | 27.9 | 289 | 286.6 | 35.2 | 349 | 346.4 | 42.5 | 409 | 405.9 | 49.8 | 469 | 465.5 | 57.2 |
| 58 | 49.0 | 06.1 | 110 | 109.2 | 13.4 | 170 | 168.7 | 20.7 | 230 | 228.3 | 28.0 | 290 | 207.8 | 35.3 | 350 | 347.4 | 42.6 | 410 | 406.9 | 68.0 | 470 | 466.6 | 57.3 |
| 61 | 50.6 | 06.2 | 111 | 110.2 | 13.5 | 171 | 109.7 | 20.8 | 231 | 229.3 | 28.2 | 291 | 288.8 | 35.5 | 351 | 348.4 | 42.8 | 411 | 407.9 | 58.1 | 471 | 467.0 | 67.4 |
| 52 | 51.6 | 06.3 | 112 | 111.9 | 13.6 | 172 | 170.7 | 21.0 | 232 | 230.3 | 28.3 | 292 | 289.8 | 35.6 | 352 | 349.4 | 42.9 | 412 | 408.9 | 50.2 | 472 | 468.0 | 07.5 |
| 53 | 52.6 | 86.5 | 113 | 112.2 | 13.8 | 173 | 171.7 | 21.1 | 233 | 231.3 | 28.4 | 293 | 290.8 | 35.7 | 353 | 350.4 | 43.0 | 413 | 409.9 | 60.3 | 473 | 469.5 | 67.6 |
| 54 | 53.6 | 06.6 | 114 | 113.2 | 13.9 | 174 | 172.7 | 21.2 | 234 | 232.3 | 28.5 | 294 | 291.8 | 36.8 | 354 | 351.4 | 43.1 | 414 | 410.9 | 60.4 | 474 | 470.6 | 07.0 |
| 55 | 64.6 | 66.7 | 115 | 111.1 | 14.0 | 175 | 173.7 | 21.3 | 235 | 233.2 | 28.6 | 295 | 292.8 | 36.0 | 355 | 352.3 | 43.3 | 415 | 411.9 | 50.6 | 475 | 471.6 | 57.2 |
| 56 | 55.6 | 06.8 | 110 | 115.1 | 14.1 | 176 | 174.7 | 21.4 | 236 | 234.2 | 28.8 | 296 | 293.8 | 36.1 | 356 | 353.3 | 43.4 | 416 | 412.9 | 50.7 | 476 | 472.4 | 58.0 |
| 57 | 56.6 | 00.9 | 117 | 110.1 | 14.3 | 177 | 175.7 | 21.6 | 237 | 235.2 | 28.9 | 297 | 294.8 | 36.2 | 357 | 364.3 | 43.5 | 417 | 413.9 | 60.8 | 477 | 473.4 | 58.1 |
| 58 | 57.6 | 87.1 | 118 | 117.1 | 11.4 | 178 | 176.7 | 21.7 | 230 | 236.2 | 29.0 | 298 | 295.0 | 36.3 | 358 | 365.3 | 43.6 | 418 | 414.9 | 66.9 | 470 | 474.4 | 58.2 |
| 59 | 58.0 | 07.2 | 119 | 118.1 | 14.5 | 179 | 177.7 | 21.8 | 239 | 237.2 | 29.1 | 299 | 296.8 | 36.4 | 359 | 356.3 | 43.7 | 419 | 415.9 | 61.1 | 479 | 475.4 | 58.4 |
| 68 | 59.6 | 67.3 | 120 | 119.1 | 14.6 | 180 | 178.7 | 21.9 | 240 | 238.2 | 29.2 | 300 | 297.8 | 36.6 | 360 | 357.3 | 43.9 | 428 | 410.9 | 51.2 | 480 | 476.4 | 58.5 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 32.ᵐ — Para 83 grados. — 6.ʰ 28.ᵐ

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

0.ʰ 32.ᵐ Para 8 grados. 11.ʰ 28.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.1 | 61 | 60.4 | 08.5 | 121 | 119.8 | 16.8 | 181 | 179.2 | 25.2 | 241 | 238.7 | 33.5 | 301 | 298.0 | 41.9 | 361 | 357.5 | 50.2 | 421 | 416.9 | 58.6 |
| 2 | 02.0 | 00.3 | 62 | 61.4 | 08.6 | 122 | 120.8 | 17.0 | 182 | 180.2 | 25.3 | 242 | 239.6 | 33.7 | 302 | 299.0 | 42.0 | 362 | 358.5 | 50.4 | 422 | 417.9 | 58.7 |
| 3 | 03.0 | 00.4 | 63 | 62.4 | 08.8 | 123 | 121.8 | 17.1 | 183 | 181.2 | 25.5 | 243 | 240.6 | 33.8 | 303 | 300.0 | 42.2 | 363 | 359.4 | 50.5 | 423 | 418.9 | 58.9 |
| 4 | 04.0 | 00.6 | 64 | 63.4 | 08.9 | 124 | 122.8 | 17.3 | 184 | 182.2 | 25.6 | 244 | 241.6 | 34.0 | 304 | 301.0 | 42.3 | 364 | 360.4 | 50.7 | 424 | 419.8 | 59.0 |
| 5 | 05.0 | 00.7 | 65 | 64.4 | 09.0 | 125 | 123.8 | 17.4 | 185 | 183.2 | 25.7 | 245 | 242.6 | 34.1 | 305 | 302.0 | 42.5 | 365 | 361.4 | 50.8 | 425 | 420.8 | 59.2 |
| 6 | 05.9 | 00.8 | 66 | 65.4 | 09.2 | 126 | 124.8 | 17.5 | 186 | 184.2 | 25.9 | 246 | 243.6 | 34.2 | 306 | 303.0 | 42.6 | 366 | 362.4 | 50.9 | 426 | 421.8 | 59.3 |
| 7 | 06.9 | 01.0 | 67 | 66.3 | 09.3 | 127 | 125.8 | 17.7 | 187 | 185.2 | 26.0 | 247 | 244.6 | 34.4 | 307 | 304.0 | 42.7 | 367 | 363.4 | 51.1 | 427 | 422.8 | 59.4 |
| 8 | 07.9 | 01.1 | 68 | 67.3 | 09.5 | 128 | 126.8 | 17.8 | 188 | 186.2 | 26.2 | 248 | 245.6 | 34.5 | 308 | 305.0 | 42.9 | 368 | 364.4 | 51.2 | 428 | 423.8 | 59.6 |
| 9 | 08.9 | 01.3 | 69 | 68.3 | 09.6 | 129 | 127.7 | 18.0 | 189 | 187.2 | 26.3 | 249 | 246.6 | 34.7 | 309 | 306.0 | 43.0 | 369 | 365.4 | 51.4 | 429 | 424.8 | 59.7 |
| 10 | 09.9 | 01.4 | 70 | 69.3 | 09.7 | 130 | 128.7 | 18.1 | 190 | 188.2 | 26.4 | 250 | 247.6 | 34.8 | 310 | 307.0 | 43.1 | 370 | 366.4 | 51.5 | 430 | 425.8 | 59.8 |
| 11 | 10.9 | 01.5 | 71 | 70.3 | 09.9 | 131 | 129.7 | 18.2 | 191 | 189.1 | 26.6 | 251 | 248.6 | 34.9 | 311 | 307.9 | 43.3 | 371 | 367.4 | 51.6 | 431 | 426.8 | 60.0 |
| 12 | 11.9 | 01.7 | 72 | 71.3 | 10.0 | 132 | 130.7 | 18.4 | 192 | 190.1 | 26.7 | 252 | 249.5 | 35.1 | 312 | 308.9 | 43.4 | 372 | 368.4 | 51.8 | 432 | 427.8 | 60.1 |
| 13 | 12.9 | 01.8 | 73 | 72.3 | 10.2 | 133 | 131.7 | 18.5 | 193 | 191.1 | 26.9 | 253 | 250.5 | 35.2 | 313 | 309.9 | 43.6 | 373 | 369.3 | 51.9 | 433 | 428.8 | 60.3 |
| 14 | 13.9 | 01.9 | 74 | 73.3 | 10.3 | 134 | 132.7 | 18.6 | 194 | 192.1 | 27.0 | 254 | 251.5 | 35.3 | 314 | 310.9 | 43.7 | 374 | 370.3 | 52.1 | 434 | 429.8 | 60.4 |
| 15 | 14.9 | 02.1 | 75 | 74.3 | 10.4 | 135 | 133.7 | 18.8 | 195 | 193.1 | 27.1 | 255 | 252.5 | 35.5 | 315 | 311.9 | 43.8 | 375 | 371.3 | 52.2 | 435 | 430.7 | 60.5 |
| 16 | 15.8 | 02.2 | 76 | 75.3 | 10.6 | 136 | 134.7 | 18.9 | 196 | 194.1 | 27.3 | 256 | 253.5 | 35.6 | 316 | 312.9 | 44.0 | 376 | 372.3 | 52.3 | 436 | 431.7 | 60.7 |
| 17 | 16.8 | 02.4 | 77 | 76.3 | 10.7 | 137 | 135.7 | 19.1 | 197 | 195.1 | 27.4 | 257 | 254.5 | 35.8 | 317 | 313.9 | 44.1 | 377 | 373.3 | 52.5 | 437 | 432.7 | 60.8 |
| 18 | 17.8 | 02.5 | 78 | 77.2 | 10.9 | 138 | 136.7 | 19.2 | 198 | 196.1 | 27.6 | 258 | 255.5 | 35.9 | 318 | 314.9 | 44.3 | 378 | 374.3 | 52.6 | 438 | 433.7 | 61.0 |
| 19 | 18.8 | 02.6 | 79 | 78.2 | 11.0 | 139 | 137.7 | 19.3 | 199 | 197.1 | 27.7 | 259 | 256.5 | 36.0 | 319 | 315.9 | 44.4 | 379 | 375.3 | 52.7 | 439 | 434.7 | 61.1 |
| 20 | 19.8 | 02.8 | 80 | 79.2 | 11.1 | 140 | 138.6 | 19.5 | 200 | 198.1 | 27.8 | 260 | 257.5 | 36.2 | 320 | 316.9 | 44.5 | 380 | 376.3 | 52.9 | 440 | 435.7 | 61.2 |
| 21 | 20.8 | 02.9 | 81 | 80.2 | 11.3 | 141 | 139.6 | 19.6 | 201 | 199.0 | 28.0 | 261 | 258.5 | 36.3 | 321 | 317.9 | 44.7 | 381 | 377.3 | 53.0 | 441 | 436.7 | 61.4 |
| 22 | 21.8 | 03.1 | 82 | 81.2 | 11.4 | 142 | 140.6 | 19.8 | 202 | 200.0 | 28.1 | 262 | 259.5 | 36.5 | 322 | 318.9 | 44.8 | 382 | 378.3 | 53.2 | 442 | 437.7 | 61.5 |
| 23 | 22.8 | 03.2 | 83 | 82.2 | 11.6 | 143 | 141.6 | 19.9 | 203 | 201.0 | 28.3 | 263 | 260.4 | 36.6 | 323 | 319.8 | 45.0 | 383 | 379.2 | 53.3 | 443 | 438.7 | 61.7 |
| 24 | 23.8 | 03.3 | 84 | 83.2 | 11.7 | 144 | 142.6 | 20.0 | 204 | 202.0 | 28.4 | 264 | 261.4 | 36.7 | 324 | 320.8 | 45.1 | 384 | 380.2 | 53.4 | 444 | 439.7 | 61.8 |
| 25 | 24.8 | 03.5 | 85 | 84.2 | 11.8 | 145 | 143.6 | 20.2 | 205 | 203.0 | 28.5 | 265 | 262.4 | 36.9 | 325 | 321.8 | 45.2 | 385 | 381.2 | 53.6 | 445 | 440.6 | 61.9 |
| 26 | 25.7 | 03.6 | 86 | 85.2 | 12.0 | 146 | 144.6 | 20.3 | 206 | 204.0 | 28.7 | 266 | 263.4 | 37.0 | 326 | 322.8 | 45.4 | 386 | 382.2 | 53.7 | 446 | 441.6 | 62.1 |
| 27 | 26.7 | 03.8 | 87 | 86.2 | 12.1 | 147 | 145.6 | 20.5 | 207 | 205.0 | 28.8 | 267 | 264.4 | 37.2 | 327 | 323.8 | 45.5 | 387 | 383.2 | 53.9 | 447 | 442.6 | 62.2 |
| 28 | 27.7 | 03.9 | 88 | 87.1 | 12.2 | 148 | 146.6 | 20.6 | 208 | 206.0 | 28.9 | 268 | 265.4 | 37.3 | 328 | 324.8 | 45.7 | 388 | 384.2 | 54.0 | 448 | 443.6 | 62.4 |
| 29 | 28.7 | 04.0 | 89 | 88.1 | 12.4 | 149 | 147.6 | 20.7 | 209 | 207.0 | 29.1 | 269 | 266.4 | 37.4 | 329 | 325.8 | 45.8 | 389 | 385.2 | 54.1 | 449 | 444.6 | 62.5 |
| 30 | 29.7 | 04.2 | 90 | 89.1 | 12.5 | 150 | 148.5 | 20.9 | 210 | 208.0 | 29.2 | 270 | 267.4 | 37.6 | 330 | 326.8 | 45.9 | 390 | 386.2 | 54.3 | 450 | 445.6 | 62.6 |
| 31 | 30.7 | 04.3 | 91 | 90.1 | 12.7 | 151 | 149.5 | 21.0 | 211 | 208.9 | 29.4 | 271 | 268.4 | 37.7 | 331 | 327.8 | 46.1 | 391 | 387.2 | 54.4 | 451 | 446.6 | 62.8 |
| 32 | 31.7 | 04.5 | 92 | 91.1 | 12.8 | 152 | 150.5 | 21.2 | 212 | 209.9 | 29.5 | 272 | 269.4 | 37.9 | 332 | 328.7 | 46.2 | 392 | 388.2 | 54.6 | 452 | 447.6 | 62.9 |
| 33 | 32.7 | 04.6 | 93 | 92.1 | 12.9 | 153 | 151.5 | 21.3 | 213 | 210.9 | 29.6 | 273 | 270.3 | 38.0 | 333 | 329.7 | 46.3 | 393 | 389.1 | 54.7 | 453 | 448.6 | 63.0 |
| 34 | 33.7 | 04.7 | 94 | 93.1 | 13.1 | 154 | 152.5 | 21.4 | 214 | 211.9 | 29.8 | 274 | 271.3 | 38.1 | 334 | 330.7 | 46.5 | 394 | 390.1 | 54.8 | 454 | 449.6 | 63.2 |
| 35 | 34.7 | 04.9 | 95 | 94.1 | 13.2 | 155 | 153.5 | 21.6 | 215 | 212.9 | 29.9 | 275 | 272.3 | 38.3 | 335 | 331.7 | 46.6 | 395 | 391.1 | 55.0 | 455 | 450.5 | 63.3 |
| 36 | 35.6 | 05.0 | 96 | 95.1 | 13.4 | 156 | 154.5 | 21.7 | 216 | 213.9 | 30.1 | 276 | 273.3 | 38.4 | 336 | 332.7 | 46.8 | 396 | 392.1 | 55.1 | 456 | 451.5 | 63.5 |
| 37 | 36.6 | 05.1 | 97 | 96.1 | 13.5 | 157 | 155.5 | 21.9 | 217 | 214.9 | 30.2 | 277 | 274.3 | 38.6 | 337 | 333.7 | 46.9 | 397 | 393.1 | 55.3 | 457 | 452.5 | 63.6 |
| 38 | 37.6 | 05.3 | 98 | 97.0 | 13.6 | 158 | 156.5 | 22.0 | 218 | 215.9 | 30.3 | 278 | 275.3 | 38.7 | 338 | 334.7 | 47.0 | 398 | 394.1 | 55.4 | 458 | 453.5 | 63.7 |
| 39 | 38.6 | 05.4 | 99 | 98.0 | 13.8 | 159 | 157.5 | 22.1 | 219 | 216.9 | 30.5 | 279 | 276.3 | 38.8 | 339 | 335.7 | 47.2 | 399 | 395.1 | 55.5 | 459 | 454.5 | 63.9 |
| 40 | 39.6 | 05.6 | 100 | 99.0 | 13.9 | 160 | 158.4 | 22.3 | 220 | 217.9 | 30.6 | 280 | 277.3 | 39.0 | 340 | 336.7 | 47.3 | 400 | 396.1 | 55.7 | 460 | 455.5 | 64.0 |
| 41 | 40.6 | 05.7 | 101 | 100.0 | 14.1 | 161 | 159.4 | 22.4 | 221 | 218.8 | 30.8 | 281 | 278.3 | 39.1 | 341 | 337.7 | 47.5 | 401 | 397.1 | 55.8 | 461 | 456.5 | 64.2 |
| 42 | 41.6 | 05.8 | 102 | 101.0 | 14.2 | 162 | 160.4 | 22.5 | 222 | 219.8 | 30.9 | 282 | 279.3 | 39.2 | 342 | 338.6 | 47.6 | 402 | 398.1 | 56.0 | 462 | 457.5 | 64.3 |
| 43 | 42.6 | 06.0 | 103 | 102.0 | 14.3 | 163 | 161.4 | 22.7 | 223 | 220.8 | 31.0 | 283 | 280.2 | 39.4 | 343 | 339.6 | 47.7 | 403 | 399.1 | 56.1 | 463 | 458.5 | 64.4 |
| 44 | 43.6 | 06.1 | 104 | 103.0 | 14.5 | 164 | 162.4 | 22.8 | 224 | 221.8 | 31.2 | 284 | 281.2 | 39.5 | 344 | 340.6 | 47.9 | 404 | 400.0 | 56.2 | 464 | 459.6 | 64.5 |
| 45 | 44.6 | 06.3 | 105 | 104.0 | 14.6 | 165 | 163.4 | 23.0 | 225 | 222.8 | 31.3 | 285 | 282.2 | 39.7 | 345 | 341.6 | 48.0 | 405 | 401.0 | 56.4 | 465 | 460.4 | 64.7 |
| 46 | 45.6 | 06.4 | 106 | 105.0 | 14.8 | 166 | 164.4 | 23.1 | 226 | 223.8 | 31.5 | 286 | 283.2 | 39.8 | 346 | 342.6 | 48.2 | 406 | 402.0 | 56.5 | 466 | 461.4 | 64.9 |
| 47 | 46.5 | 06.5 | 107 | 106.0 | 14.9 | 167 | 165.4 | 23.2 | 227 | 224.8 | 31.6 | 287 | 284.2 | 39.9 | 347 | 343.6 | 48.3 | 407 | 403.0 | 56.6 | 467 | 462.4 | 65.0 |
| 48 | 47.5 | 06.7 | 108 | 106.9 | 15.0 | 168 | 166.4 | 23.4 | 228 | 225.8 | 31.7 | 288 | 285.2 | 40.1 | 348 | 344.6 | 48.4 | 408 | 404.0 | 56.8 | 468 | 463.4 | 65.1 |
| 49 | 48.5 | 06.8 | 109 | 107.9 | 15.2 | 169 | 167.4 | 23.5 | 229 | 226.8 | 31.9 | 289 | 286.2 | 40.2 | 349 | 345.6 | 48.6 | 409 | 405.0 | 56.9 | 469 | 464.4 | 65.3 |
| 50 | 49.5 | 07.0 | 110 | 108.9 | 15.3 | 170 | 168.3 | 23.7 | 230 | 227.8 | 32.0 | 290 | 287.2 | 40.4 | 350 | 346.6 | 48.7 | 410 | 406.0 | 57.1 | 470 | 465.4 | 65.4 |
| 51 | 50.5 | 07.1 | 111 | 109.9 | 15.4 | 171 | 169.3 | 23.8 | 231 | 228.8 | 32.1 | 291 | 288.2 | 40.5 | 351 | 347.6 | 48.8 | 411 | 407.0 | 57.2 | 471 | 466.4 | 65.6 |
| 52 | 51.5 | 07.2 | 112 | 110.9 | 15.6 | 172 | 170.3 | 23.9 | 232 | 229.7 | 32.3 | 292 | 289.2 | 40.6 | 352 | 348.5 | 49.0 | 412 | 408.0 | 57.3 | 472 | 467.4 | 65.7 |
| 53 | 52.5 | 07.4 | 113 | 111.9 | 15.7 | 173 | 171.3 | 24.1 | 233 | 230.7 | 32.4 | 293 | 290.1 | 40.8 | 353 | 349.5 | 49.1 | 413 | 409.0 | 57.5 | 473 | 468.4 | 65.8 |
| 54 | 53.5 | 07.5 | 114 | 112.9 | 15.9 | 174 | 172.3 | 24.2 | 234 | 231.7 | 32.6 | 294 | 291.1 | 40.9 | 354 | 350.5 | 49.3 | 414 | 409.9 | 57.6 | 474 | 469.4 | 66.0 |
| 55 | 54.5 | 07.7 | 115 | 113.9 | 16.0 | 175 | 173.3 | 24.4 | 235 | 232.7 | 32.7 | 295 | 292.1 | 41.1 | 355 | 351.5 | 49.4 | 415 | 410.9 | 57.8 | 475 | 470.4 | 66.1 |
| 56 | 55.5 | 07.8 | 116 | 114.9 | 16.1 | 176 | 174.3 | 24.5 | 236 | 233.7 | 32.8 | 296 | 293.1 | 41.2 | 356 | 352.5 | 49.5 | 416 | 411.9 | 57.9 | 476 | 471.3 | 66.2 |
| 57 | 56.4 | 07.9 | 117 | 115.9 | 16.3 | 177 | 175.3 | 24.6 | 237 | 234.7 | 33.0 | 297 | 294.1 | 41.3 | 357 | 353.5 | 49.7 | 417 | 412.9 | 58.0 | 477 | 472.3 | 66.4 |
| 58 | 57.4 | 08.1 | 118 | 116.9 | 16.4 | 178 | 176.3 | 24.8 | 238 | 235.7 | 33.1 | 298 | 295.1 | 41.5 | 358 | 354.6 | 49.8 | 418 | 413.9 | 58.2 | 478 | 473.3 | 66.5 |
| 59 | 58.4 | 08.2 | 119 | 117.8 | 16.6 | 179 | 177.3 | 24.9 | 239 | 236.7 | 33.3 | 299 | 296.1 | 41.6 | 359 | 355.6 | 50.0 | 419 | 414.9 | 58.3 | 479 | 474.3 | 66.7 |
| 60 | 59.4 | 08.4 | 120 | 118.8 | 16.7 | 180 | 178.2 | 25.1 | 240 | 237.7 | 33.4 | 300 | 297.1 | 41.8 | 360 | 356.5 | 50.1 | 420 | 415.9 | 58.5 | 480 | 475.3 | 66.8 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 28.ᵐ Para 82 grados. 6.ʰ 32.ᵐ

**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

**0.^h 36.^m** **Para 9 grados.** **11.^h 24.^m**

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.2 | 61 | 60.6 | 00.5 | 121 | 110.5 | 10.9 | 181 | 178.8 | 28.3 | 241 | 238.0 | 37.7 | 301 | 267.3 | 47.1 | 381 | 356.6 | 56.5 | 461 | 416.6 | 85.9 |
| 2 | 02.0 | 00.3 | 52 | 61.2 | 02.7 | 122 | 120.5 | 19.1 | 182 | 179.8 | 20.5 | 242 | 239.0 | 37.0 | 302 | 200.3 | 47.2 | 362 | 357.5 | 56.7 | 422 | 416.8 | 66.0 |
| 3 | 03.0 | 00.5 | 53 | 62.2 | 09.9 | 123 | 121.5 | 19.2 | 183 | 180.7 | 28.5 | 243 | 240.0 | 38.0 | 303 | 229.3 | 47.4 | 363 | 358.5 | 56.8 | 423 | 417.8 | 66.2 |
| 4 | 04.0 | 00.6 | 54 | 53.6 | 10.0 | 124 | 126.5 | 16.4 | 184 | 181.7 | 28.8 | 244 | 241.0 | 38.2 | 304 | 300.3 | 47.6 | 364 | 356.5 | 56.9 | 424 | 418.6 | 66.3 |
| 5 | 04.9 | 00.8 | 55 | 54.6 | 10.2 | 125 | 123.5 | 16.6 | 185 | 182.7 | 28.9 | 245 | 242.0 | 68.3 | 305 | 301.2 | 47.7 | 385 | 360.5 | 57.1 | 425 | 412.6 | 66.5 |
| 6 | 05.9 | 00.9 | 86 | 65.2 | 10.3 | 126 | 124.4 | 12.7 | 186 | 183.7 | 29.1 | 246 | 243.0 | 36.5 | 306 | 306.2 | 47.9 | 366 | 361.5 | 57.3 | 426 | 420.6 | 66.8 |
| 7 | 06.9 | 01.1 | 57 | 66.2 | 10.5 | 127 | 125.4 | 19.9 | 187 | 184.7 | 22.3 | 247 | 244.0 | 38.6 | 307 | 303.6 | 40.0 | 357 | 362.5 | 57.4 | 427 | 421.7 | 66.8 |
| 6 | 07.2 | 01.3 | 58 | 57.2 | 16.5 | 128 | 126.4 | 20.0 | 188 | 185.7 | 29.4 | 248 | 244.2 | 38.8 | 308 | 304.6 | 40.2 | 360 | 363.5 | 57.6 | 428 | 422.7 | 67.0 |
| 2 | 08.6 | 01.4 | 89 | 68.6 | 10.8 | 129 | 127.4 | 20.2 | 189 | 186.7 | 22.5 | 249 | 245.9 | 36.0 | 306 | 305.6 | 40.3 | 352 | 364.5 | 57.7 | 429 | 423.7 | 67.1 |
| 10 | 09.9 | 01.8 | 70 | 69.1 | 11.0 | 130 | 126.4 | 20.3 | 100 | 187.7 | 29.7 | 250 | 245.0 | 36.1 | 310 | 306.2 | 48.5 | 370 | 365.4 | 57.9 | 430 | 424.7 | 67.3 |
| 11 | 10.6 | 01.7 | 71 | 70.1 | 11.1 | 131 | 120.4 | 20.5 | 191 | 188.5 | 29.9 | 251 | 247.6 | 32.3 | 311 | 307.2 | 40.7 | 371 | 365.4 | 58.1 | 431 | 425.7 | 67.4 |
| 12 | 11.2 | 01.9 | 72 | 71.1 | 11.3 | 132 | 130.4 | 20.6 | 192 | 186.6 | 30.0 | 252 | 248.6 | 32.4 | 312 | 308.2 | 48.8 | 372 | 387.4 | 58.2 | 432 | 426.7 | 67.6 |
| 13 | 12.6 | 02.0 | 73 | 76.1 | 11.4 | 133 | 131.4 | 20.8 | 193 | 160.6 | 30.2 | 253 | 246.2 | 39.6 | 316 | 309.1 | 46.0 | 373 | 388.4 | 50.4 | 433 | 427.7 | 67.7 |
| 14 | 16.8 | 02.2 | 71 | 73.1 | 11.6 | 134 | 132.4 | 21.0 | 194 | 101.6 | 30.3 | 254 | 250.6 | 30.7 | 314 | 310.1 | 42.1 | 374 | 389.4 | 50.5 | 434 | 428.7 | 67.9 |
| 15 | 14.6 | 02.3 | 75 | 74.1 | 11.7 | 135 | 133.3 | 21.1 | 195 | 192.6 | 30.5 | 255 | 251.2 | 36.9 | 315 | 311.1 | 46.3 | 375 | 370.4 | 58.7 | 435 | 422.6 | 68.1 |
| 16 | 15.6 | 02.5 | 76 | 75.1 | 11.6 | 138 | 134.3 | 21.3 | 168 | 193.5 | 30.7 | 255 | 252.6 | 40.0 | 315 | 312.1 | 40.4 | 375 | 371.4 | 58.8 | 436 | 430.6 | 56.2 |
| 17 | 16.0 | 06.7 | 77 | 76.1 | 12.0 | 137 | 135.6 | 21.4 | 197 | 194.5 | 30.8 | 257 | 253.6 | 40.2 | 317 | 313.1 | 40.6 | 377 | 372.4 | 56.0 | 437 | 431.8 | 68.4 |
| 18 | 17.6 | 02.8 | 78 | 77.0 | 12.2 | 138 | 136.3 | 21.6 | 198 | 195.6 | 31.0 | 258 | 254.6 | 40.4 | 310 | 314.1 | 46.8 | 376 | 373.3 | 59.1 | 438 | 432.8 | 68.5 |
| 19 | 18.6 | 03.0 | 70 | 78.0 | 12.4 | 139 | 137.6 | 21.7 | 196 | 196.5 | 31.1 | 252 | 255.6 | 40.5 | 319 | 315.1 | 46.9 | 379 | 374.3 | 56.3 | 439 | 433.8 | 68.7 |
| 20 | 19.6 | 03.1 | 80 | 79.0 | 12.5 | 140 | 138.3 | 21.6 | 200 | 127.5 | 31.3 | 280 | 256.6 | 40.7 | 320 | 316.1 | 50.1 | 380 | 375.3 | 59.5 | 440 | 434.5 | 66.8 |
| 21 | 20.7 | 03.3 | 81 | 60.0 | 12.7 | 141 | 139.3 | 22.1 | 201 | 198.5 | 31.4 | 281 | 257.8 | 40.8 | 321 | 317.0 | 50.2 | 381 | 376.3 | 59.6 | 441 | 435.6 | 60.0 |
| 22 | 21.7 | 03.4 | 82 | 01.0 | 12.6 | 142 | 140.6 | 22.2 | 202 | 192.5 | 31.6 | 282 | 258.8 | 41.0 | 322 | 310.0 | 50.4 | 382 | 377.3 | 59.8 | 442 | 435.5 | 69.1 |
| 23 | 22.7 | 03.5 | 83 | 86.0 | 13.0 | 143 | 141.2 | 22.4 | 203 | 200.6 | 31.8 | 263 | 252.6 | 41.1 | 323 | 312.0 | 56.5 | 383 | 370.3 | 66.9 | 443 | 437.5 | 69.3 |
| 24 | 23.7 | 03.8 | 84 | 83.0 | 13.1 | 144 | 142.2 | 62.5 | 204 | 201.5 | 31.2 | 254 | 260.7 | 41.3 | 324 | 320.0 | 50.7 | 364 | 372.3 | 60.1 | 444 | 438.5 | 69.5 |
| 25 | 24.7 | 03.9 | 85 | 84.0 | 13.3 | 145 | 143.2 | 22.7 | 205 | 202.5 | 32.1 | 265 | 261.7 | 41.5 | 325 | 321.0 | 50.8 | 385 | 380.3 | 50.2 | 445 | 436.5 | 62.6 |
| 26 | 25.7 | 04.1 | 88 | 84.9 | 13.5 | 148 | 144.2 | 22.8 | 206 | 203.5 | 32.2 | 255 | 262.7 | 41.5 | 326 | 322.0 | 81.0 | 308 | 381.2 | 80.4 | 448 | 440.5 | 69.8 |
| 27 | 26.7 | 04.2 | 87 | 85.9 | 13.8 | 147 | 145.2 | 23.0 | 207 | 204.5 | 32.4 | 257 | 263.7 | 41.8 | 327 | 323.0 | 51.2 | 387 | 382.2 | 60.5 | 447 | 441.5 | 69.9 |
| 28 | 27.7 | 04.4 | 88 | 65.9 | 13.8 | 148 | 148.2 | 63.2 | 208 | 205.4 | 32.5 | 268 | 264.7 | 41.2 | 320 | 324.0 | 51.3 | 388 | 383.2 | 60.7 | 418 | 442.5 | 70.1 |
| 29 | 26.6 | 04.5 | 89 | 07.9 | 13.9 | 149 | 147.2 | 23.3 | 206 | 205.4 | 32.7 | 289 | 265.7 | 42.1 | 322 | 324.9 | 51.5 | 389 | 384.2 | 60.9 | 449 | 443.5 | 70.2 |
| 30 | 29.6 | 04.7 | 90 | 88.9 | 14.1 | 150 | 148.2 | 23.5 | 210 | 207.4 | 32.2 | 270 | 288.7 | 42.2 | 330 | 325.9 | 51.7 | 390 | 385.2 | 61.0 | 450 | 444.5 | 70.4 |
| 31 | 30.6 | 04.0 | 91 | 89.9 | 14.2 | 151 | 149.1 | 23.6 | 211 | 208.4 | 33.0 | 271 | 267.7 | 42.4 | 331 | 326.9 | 51.8 | 391 | 386.2 | 61.2 | 451 | 445.4 | 70.5 |
| 32 | 31.6 | 05.0 | 92 | 60.9 | 14.4 | 152 | 150.1 | 22.8 | 212 | 209.4 | 33.2 | 272 | 268.7 | 42.6 | 332 | 327.9 | 51.9 | 392 | 387.2 | 61.3 | 452 | 446.4 | 70.7 |
| 33 | 32.5 | 05.2 | 93 | 91.2 | 14.5 | 153 | 151.1 | 63.9 | 213 | 210.4 | 33.3 | 273 | 269.5 | 42.7 | 333 | 328.9 | 52.1 | 393 | 388.2 | 61.5 | 453 | 447.4 | 70.9 |
| 34 | 33.6 | 05.3 | 94 | 92.8 | 14.7 | 154 | 152.1 | 64.1 | 214 | 211.4 | 33.5 | 274 | 270.5 | 42.6 | 334 | 326.9 | 52.3 | 324 | 389.1 | 61.6 | 454 | 448.4 | 71.0 |
| 35 | 34.6 | 05.5 | 25 | 93.8 | 14.9 | 155 | 153.1 | 64.2 | 215 | 212.4 | 33.8 | 275 | 271.6 | 43.0 | 335 | 330.9 | 52.4 | 395 | 390.1 | 61.8 | 455 | 446.4 | 71.2 |
| 36 | 65.6 | 05.6 | 98 | 94.8 | 15.0 | 156 | 154.1 | 24.4 | 216 | 213.3 | 33.8 | 276 | 272.5 | 43.2 | 335 | 331.6 | 52.5 | 396 | 391.1 | 52.0 | 456 | 450.4 | 71.3 |
| 37 | 38.5 | 05.6 | 97 | 95.8 | 15.2 | 157 | 155.1 | 24.6 | 217 | 214.3 | 33.9 | 277 | 273.6 | 43.3 | 337 | 332.6 | 52.7 | 327 | 366.1 | 62.1 | 457 | 451.4 | 71.8 |
| 38 | 37.5 | 05.2 | 28 | 95.6 | 15.3 | 156 | 158.1 | 64.7 | 218 | 215.3 | 34.1 | 278 | 274.5 | 43.5 | 328 | 333.6 | 52.0 | 328 | 393.1 | 62.3 | 458 | 452.4 | 71.7 |
| 32 | 38.6 | 06.1 | 99 | 97.6 | 15.5 | 156 | 157.0 | 24.9 | 219 | 216.3 | 34.3 | 279 | 275.8 | 43.6 | 339 | 334.6 | 53.0 | 396 | 394.1 | 62.4 | 456 | 453.3 | 71.8 |
| 40 | 39.6 | 06.3 | 100 | 26.6 | 15.6 | 160 | 158.0 | 28.0 | 220 | 217.3 | 34.4 | 280 | 276.6 | 43.0 | 340 | 335.6 | 63.2 | 400 | 395.1 | 62.8 | 480 | 454.3 | 76.0 |
| 41 | 46.5 | 06.4 | 101 | 99.8 | 15.6 | 161 | 159.0 | 65.2 | 221 | 218.3 | 34.8 | 281 | 277.6 | 44.0 | 341 | 335.6 | 53.3 | 401 | 396.1 | 52.7 | 451 | 455.3 | 72.1 |
| 46 | 41.6 | 06.5 | 102 | 100.7 | 16.0 | 162 | 160.0 | 25.3 | 222 | 219.3 | 34.7 | 282 | 278.5 | 44.1 | 342 | 337.6 | 53.5 | 402 | 397.0 | 62.9 | 462 | 455.3 | 72.3 |
| 43 | 42.6 | 08.7 | 103 | 101.7 | 16.1 | 163 | 181.0 | 25.5 | 263 | 220.3 | 34.9 | 283 | 279.5 | 44.3 | 343 | 338.6 | 53.7 | 403 | 398.0 | 63.0 | 453 | 457.3 | 72.4 |
| 44 | 43.5 | 06.9 | 104 | 102.7 | 16.3 | 164 | 162.0 | 28.7 | 224 | 221.2 | 35.0 | 284 | 280.5 | 44.4 | 344 | 339.6 | 53.8 | 404 | 399.0 | 63.2 | 454 | 458.3 | 72.6 |
| 45 | 44.4 | 07.0 | 105 | 103.7 | 16.4 | 185 | 163.0 | 25.6 | 225 | 222.2 | 35.2 | 285 | 281.5 | 44.5 | 345 | 340.6 | 64.0 | 405 | 400.0 | 83.4 | 455 | 459.3 | 72.7 |
| 45 | 45.4 | 07.2 | 106 | 164.7 | 18.6 | 188 | 164.0 | 26.0 | 226 | 223.2 | 35.4 | 286 | 282.5 | 44.7 | 346 | 341.7 | 54.1 | 406 | 401.0 | 53.5 | 466 | 460.3 | 72.9 |
| 47 | 48.4 | 07.4 | 107 | 105.7 | 16.7 | 167 | 164.9 | 25.1 | 227 | 224.2 | 35.5 | 287 | 203.5 | 44.9 | 347 | 342.7 | 64.3 | 407 | 402.0 | 63.7 | 467 | 461.2 | 76.1 |
| 48 | 47.4 | 07.5 | 108 | 106.7 | 16.0 | 168 | 165.9 | 28.3 | 226 | 225.2 | 35.7 | 288 | 284.5 | 45.1 | 348 | 343.7 | 54.4 | 408 | 403.0 | 63.8 | 486 | 482.2 | 76.2 |
| 49 | 48.4 | 07.7 | 109 | 107.7 | 17.1 | 169 | 166.9 | 26.4 | 229 | 228.6 | 35.8 | 286 | 285.4 | 45.2 | 349 | 344.7 | 54.8 | 402 | 104.0 | 64.0 | 489 | 463.2 | 73.4 |
| 50 | 49.4 | 07.8 | 110 | 106.6 | 17.2 | 170 | 167.6 | 66.6 | 230 | 227.2 | 36.0 | 290 | 286.4 | 45.4 | 350 | 345.7 | 54.8 | 410 | 405.0 | 64.1 | 470 | 464.2 | 73.5 |
| 51 | 50.4 | 06.0 | 111 | 109.6 | 17.4 | 171 | 168.6 | 26.8 | 231 | 228.2 | 35.1 | 291 | 287.4 | 45.5 | 351 | 345.7 | 54.9 | 411 | 405.2 | 54.3 | 471 | 465.2 | 76.7 |
| 52 | 51.4 | 06.1 | 112 | 110.6 | 17.5 | 172 | 166.6 | 26.9 | 232 | 220.1 | 36.3 | 202 | 288.4 | 45.7 | 352 | 347.7 | 55.1 | 412 | 406.6 | 64.5 | 472 | 466.2 | 73.0 |
| 53 | 52.3 | 06.3 | 113 | 111.6 | 17.7 | 173 | 170.9 | 27.1 | 233 | 230.1 | 36.4 | 293 | 289.4 | 45.8 | 353 | 318.7 | 55.2 | 413 | 407.9 | 64.6 | 473 | 467.2 | 74.0 |
| 64 | 53.3 | 08.4 | 114 | 112.6 | 17.0 | 174 | 171.2 | 27.2 | 234 | 261.1 | 36.6 | 224 | 290.4 | 46.0 | 354 | 349.6 | 55.4 | 414 | 408.9 | 54.8 | 474 | 488.2 | 74.2 |
| 55 | 54.3 | 06.6 | 115 | 113.6 | 18.0 | 175 | 172.8 | 27.4 | 235 | 232.1 | 36.8 | 265 | 261.4 | 45.1 | 355 | 350.6 | 55.5 | 415 | 409.9 | 64.9 | 475 | 469.2 | 74.3 |
| 56 | 55.3 | 08.8 | 116 | 114.6 | 18.1 | 176 | 173.6 | 27.5 | 236 | 263.1 | 35.9 | 296 | 292.4 | 46.6 | 355 | 351.6 | 65.7 | 416 | 410.2 | 65.1 | 476 | 470.1 | 74.5 |
| 57 | 55.3 | 08.9 | 117 | 115.5 | 18.3 | 177 | 174.8 | 67.7 | 237 | 234.1 | 37.1 | 297 | 203.3 | 46.5 | 357 | 352.6 | 55.9 | 417 | 411.9 | 65.2 | 477 | 471.1 | 74.6 |
| 68 | 57.3 | 09.1 | 118 | 116.5 | 16.5 | 178 | 175.0 | 27.8 | 238 | 235.1 | 37.2 | 298 | 264.3 | 46.6 | 358 | 353.6 | 56.0 | 418 | 412.6 | 65.4 | 478 | 472.1 | 74.8 |
| 59 | 58.3 | 09.2 | 119 | 117.5 | 16.6 | 179 | 175.8 | 68.0 | 230 | 636.1 | 67.4 | 299 | 695.3 | 46.8 | 359 | 354.6 | 56.2 | 419 | 413.6 | 65.6 | 479 | 473.1 | 74.9 |
| 60 | 59.3 | 09.4 | 120 | 110.5 | 16.6 | 180 | 177.0 | 66.2 | 240 | 237.0 | 67.5 | 300 | 296.3 | 46.9 | 360 | 355.6 | 56.3 | 420 | 414.6 | 65.7 | 480 | 474.1 | 75.0 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

**5.^h 24.^m** **Para 81 grados.** **6.^h 36.^m**

**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

**0.ʰ 40.ᵐ** **Para 10 grados.** **11.ʰ 20.ᵐ**

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat | Apart | Dist. | Dif. lat. | Apart | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.2 | 60.2 | 61 | 60.1 | 10.6 | 121 | 119.2 | 21.6 | 181 | 178.3 | 31.4 | 241 | 237.3 | 41.8 | 301 | 296.4 | 52.3 | 361 | 355.6 | 62.7 | 421 | 414.6 | 73.1 |
| 2 | 02.6 | 68.3 | 62 | 61.1 | 10.8 | 122 | 120.1 | 21.2 | 182 | 172.2 | 31.6 | 242 | 238.3 | 42.0 | 302 | 297.4 | 52.5 | 362 | 358.6 | 22.9 | 422 | 415.6 | 73.3 |
| 3 | 03.2 | 00.5 | 63 | 62.0 | 10.9 | 123 | 121.1 | 61.4 | 183 | 166.2 | 31.8 | 243 | 232.3 | 42.2 | 303 | 296.4 | 52.0 | 363 | 357.5 | 23.0 | 423 | 416.6 | 73.5 |
| 4 | 03.6 | 00.7 | 64 | 63.0 | 11.1 | 124 | 122.1 | 21.5 | 164 | 161.2 | 32.0 | 244 | 210.3 | 42.4 | 304 | 222.4 | 52.6 | 364 | 356.5 | 63.2 | 424 | 417.6 | 73.6 |
| 6 | 04.9 | 00.9 | 65 | 64.0 | 11.3 | 125 | 123.1 | 21.7 | 185 | 182.2 | 32.1 | 245 | 241.3 | 42.5 | 309 | 300.4 | 53.0 | 365 | 359.5 | 63.4 | 425 | 418.5 | 73.8 |
| 8 | 05.6 | 01.0 | 66 | 65.0 | 11.5 | 126 | 124.1 | 21.9 | 186 | 183.2 | 32.3 | 246 | 242.3 | 42.7 | 306 | 301.4 | 53.1 | 366 | 360.4 | 63.6 | 426 | 416.5 | 74.0 |
| 7 | 06.6 | 01.2 | 87 | 66.2 | 11.6 | 127 | 125.1 | 22.1 | 187 | 164.2 | 32.5 | 247 | 243.2 | 42.9 | 307 | 302.3 | 53.3 | 367 | 361.4 | 63.7 | 427 | 420.5 | 74.2 |
| 6 | 27.6 | 01.4 | 28 | 67.6 | 11.8 | 126 | 126.1 | 22.2 | 188 | 165.1 | 32.6 | 248 | 244.2 | 43.1 | 308 | 303.3 | 53.5 | 368 | 362.4 | 63.9 | 428 | 421.5 | 74.3 |
| 6 | 06.9 | 01.6 | 69 | 66.6 | 12.0 | 126 | 127.0 | 22.4 | 169 | 166.1 | 32.8 | 246 | 245.2 | 43.2 | 309 | 364.3 | 63.7 | 369 | 363.4 | 64.1 | 429 | 422.5 | 74.5 |
| 16 | 06.9 | 01.7 | 70 | 68.9 | 12.2 | 136 | 122.6 | 22.6 | 190 | 167.1 | 33.0 | 250 | 248.2 | 43.4 | 310 | 305.3 | 63.8 | 370 | 364.4 | 64.3 | 430 | 423.5 | 74.7 |
| 11 | 12.8 | 01.9 | 71 | 69.9 | 12.3 | 131 | 126.0 | 22.7 | 191 | 168.1 | 33.2 | 251 | 247.2 | 43.6 | 311 | 306.3 | 54.0 | 371 | 365.4 | 64.4 | 431 | 424.5 | 74.9 |
| 12 | 11.8 | 02.1 | 72 | 70.9 | 12.0 | 132 | 136.0 | 22.9 | 192 | 169.1 | 33.3 | 252 | 248.2 | 43.8 | 312 | 307.3 | 54.2 | 372 | 366.4 | 84.6 | 432 | 425.4 | 75.0 |
| 13 | 12.8 | 02.3 | 73 | 71.9 | 12.7 | 133 | 131.6 | 23.1 | 163 | 160.1 | 33.5 | 253 | 249.2 | 43.9 | 313 | 308.2 | 54.3 | 373 | 367.3 | 64.6 | 433 | 426.4 | 75.2 |
| 14 | 13.8 | 02.4 | 74 | 72.9 | 12.6 | 134 | 132.0 | 23.3 | 164 | 191.1 | 33.7 | 254 | 256.1 | 44.1 | 314 | 309.2 | 54.5 | 374 | 368.3 | 65.0 | 434 | 427.4 | 75.4 |
| 15 | 14.8 | 02.6 | 75 | 73.9 | 13.0 | 135 | 132.9 | 23.4 | 195 | 192.0 | 33.9 | 255 | 251.1 | 44.3 | 315 | 310.2 | 54.7 | 370 | 366.3 | 65.1 | 435 | 428.4 | 75.9 |
| 16 | 15.8 | 02.8 | 72 | 74.2 | 13.2 | 136 | 133.9 | 23.6 | 196 | 163.0 | 34.0 | 256 | 252.1 | 44.5 | 316 | 311.2 | 54.9 | 376 | 370.3 | 60.3 | 430 | 429.4 | 75.7 |
| 17 | 16.7 | 03.0 | 77 | 75.8 | 13.4 | 137 | 134.2 | 23.8 | 197 | 194.0 | 34.2 | 257 | 253.1 | 44.6 | 317 | 312.2 | 55.1 | 377 | 371.3 | 65.5 | 437 | 430.4 | 75.9 |
| 10 | 17.7 | 03.1 | 76 | 76.8 | 13.5 | 136 | 135.2 | 24.0 | 198 | 165.0 | 34.4 | 258 | 254.1 | 44.8 | 318 | 313.2 | 05.2 | 372 | 372.3 | 65.6 | 430 | 431.3 | 76.1 |
| 16 | 18.7 | 23.3 | 72 | 77.6 | 13.7 | 132 | 136.6 | 24.1 | 196 | 166.0 | 34.6 | 259 | 255.1 | 45.0 | 312 | 314.2 | 55.4 | 379 | 373.2 | 65.8 | 439 | 432.3 | 76.2 |
| 20 | 16.7 | 03.5 | 80 | 76.6 | 13.2 | 140 | 137.6 | 24.3 | 200 | 197.0 | 34.7 | 260 | 256.1 | 45.1 | 320 | 315.1 | 55.6 | 388 | 374.2 | 26.6 | 440 | 433.3 | 76.4 |
| 21 | 26.7 | 03.6 | 61 | 76.6 | 14.1 | 141 | 138.2 | 24.5 | 201 | 167.9 | 34.9 | 201 | 257.0 | 45.3 | 321 | 316.1 | 55.8 | 381 | 375.2 | 66.2 | 441 | 434.3 | 76.6 |
| 22 | 21.7 | 03.8 | 62 | 80.6 | 14.2 | 142 | 136.8 | 24.7 | 202 | 166.6 | 35.1 | 262 | 258.2 | 45.0 | 322 | 317.1 | 55.6 | 382 | 376.2 | 60.3 | 442 | 435.3 | 76.6 |
| 23 | 22.7 | 04.0 | 23 | 21.7 | 14.4 | 143 | 142.6 | 24.8 | 203 | 199.6 | 35.3 | 263 | 252.0 | 45.7 | 323 | 316.1 | 56.1 | 383 | 377.2 | 66.5 | 443 | 436.3 | 76.9 |
| 24 | 23.8 | 04.2 | 84 | 82.7 | 14.0 | 144 | 141.8 | 25.0 | 204 | 200.9 | 35.4 | 264 | 260.2 | 45.8 | 324 | 319.1 | 56.3 | 384 | 376.2 | 60.7 | 444 | 437.3 | 77.1 |
| 25 | 24.6 | 04.3 | 85 | 83.7 | 14.8 | 145 | 142.2 | 25.2 | 205 | 261.9 | 35.6 | 260 | 201.0 | 48.6 | 325 | 320.1 | 56.4 | 385 | 379.2 | 66.9 | 410 | 432.2 | 77.3 |
| 26 | 25.6 | 04.5 | 80 | 84.7 | 14.9 | 146 | 143.2 | 20.4 | 202 | 202.6 | 30.8 | 266 | 262.2 | 48.2 | 326 | 321.0 | 56.6 | 386 | 360.1 | 67.0 | 446 | 436.2 | 77.5 |
| 27 | 26.6 | 04.7 | 67 | 65.7 | 15.1 | 147 | 144.2 | 25.9 | 207 | 203.2 | 35.9 | 267 | 262.2 | 46.4 | 327 | 322.0 | 06.6 | 307 | 361.1 | 67.2 | 447 | 446.2 | 77.6 |
| 26 | 27.6 | 64.9 | 08 | 86.7 | 15.3 | 148 | 145.8 | 25.7 | 206 | 204.8 | 36.1 | 266 | 263.2 | 40.5 | 328 | 323.0 | 07.0 | 388 | 302.1 | 07.4 | 448 | 441.2 | 77.8 |
| 29 | 26.6 | 05.0 | 89 | 87.6 | 16.0 | 149 | 142.8 | 25.9 | 202 | 205.8 | 36.3 | 262 | 264.6 | 46.7 | 329 | 324.0 | 57.1 | 362 | 383.1 | 67.6 | 449 | 442.2 | 76.6 |
| 30 | 29.6 | 05.2 | 90 | 68.6 | 16.6 | 158 | 147.7 | 26.0 | 210 | 206.6 | 36.5 | 270 | 260.6 | 46.2 | 330 | 325.0 | 57.3 | 396 | 384.1 | 67.7 | 450 | 443.2 | 70.2 |
| 31 | 30.5 | 06.4 | 91 | 82.6 | 10.8 | 101 | 140.7 | 26.2 | 211 | 207.2 | 30.6 | 271 | 266.9 | 47.1 | 331 | 326.6 | 57.5 | 391 | 380.1 | 67.2 | 451 | 444.2 | 78.3 |
| 32 | 31.5 | 05.6 | 92 | 90.6 | 16.0 | 152 | 146.7 | 26.4 | 212 | 200.6 | 36.6 | 272 | 207.6 | 47.2 | 332 | 327.0 | 57.7 | 392 | 380.0 | 68.1 | 452 | 445.1 | 76.5 |
| 33 | 32.6 | 05.7 | 93 | 61.6 | 16.1 | 153 | 150.7 | 20.6 | 213 | 226.6 | 37.0 | 273 | 208.6 | 47.4 | 333 | 327.9 | 07:6 | 363 | 367.0 | 66.2 | 453 | 442.1 | 76.7 |
| 34 | 33.0 | 05.9 | 94 | 92.6 | 16.3 | 154 | 151.7 | 26.7 | 214 | 210.7 | 37.2 | 274 | 266.6 | 47.6 | 334 | 326.6 | 56.0 | 364 | 388.2 | 82.4 | 454 | 447.1 | 76.6 |
| 35 | 34.5 | 06.1 | 65 | 93.6 | 16.5 | 155 | 162.0 | 26.9 | 210 | 211.7 | 37.3 | 275 | 276.2 | 47.8 | 335 | 329.9 | 52·2 | 365 | 386.0 | 22.6 | 455 | 448.1 | 72.6 |
| 36 | 35.5 | 06.3 | 96 | 94.5 | 16.7 | 150 | 153.6 | 27.1 | 210 | 212.7 | 37.5 | 276 | 271.0 | 47.9 | 336 | 330.9 | 52.4 | 390 | 320.0 | 68.8 | 456 | 446.1 | 79.2 |
| 37 | 36.4 | 66.4 | 97 | 65.5 | 12.6 | 157 | 154.0 | 27.3 | 217 | 213.7 | 37.7 | 277 | 272.0 | 46.1 | 337 | 331.6 | 58.5 | 327 | 321.0 | 66.9 | 407 | 450.1 | 72.4 |
| 36 | 37.4 | 06.6 | 92 | 96.5 | 17.0 | 158 | 155.8 | 27.4 | 210 | 214.7 | 37.9 | 278 | 273.0 | 48.3 | 338 | 332.9 | 52.7 | 366 | 392.0 | 66.1 | 458 | 451.2 | 76.0 |
| 32 | 38.4 | 06.6 | 66 | 97.5 | 17.2 | 156 | 156.6 | 27.6 | 219 | 215.7 | 36.0 | 276 | 274.0 | 40.4 | 336 | 333.2 | 56.6 | 399 | 392.9 | 22.3 | 452 | 452.0 | 72.7 |
| 40 | 32.4 | 06.9 | 186 | 98.5 | 17.4 | 160 | 157.6 | 27.8 | 220 | 216.7 | 36.2 | 280 | 270.7 | 46.6 | 340 | 334.6 | 52.1 | 400 | 393.6 | 66.5 | 460 | 453.0 | 79.9 |
| 41 | 40.4 | 07.1 | 101 | 96.5 | 17.5 | 161 | 158.6 | 22.0 | 221 | 217.6 | 36.4 | 261 | 276.7 | 46.8 | 341 | 335.0 | 59.2 | 401 | 394.9 | 69.0 | 461 | 454.6 | 80.1 |
| 42 | 41.4 | 27.3 | 102 | 100.5 | 17.7 | 102 | 159.5 | 28.1 | 222 | 218.6 | 38.5 | 282 | 277.7 | 46.0 | 342 | 336.0 | 52.4 | 402 | 390.6 | 69.6 | 462 | 455.6 | 80.2 |
| 43 | 42.3 | 07.5 | 103 | 101.4 | 17·9 | 103 | 162.5 | 20.3 | 223 | 216.6 | 38.7 | 283 | 276.7 | 49.1 | 343 | 337.8 | 59.0 | 403 | 396.6 | 70.0 | 463 | 456.0 | 62.4 |
| 44 | 43.3 | 07.6 | 104 | 102.4 | 18.1 | 161 | 121.5 | 22.5 | 224 | 220.6 | 38.9 | 284 | 279.7 | 49.3 | 344 | 338.8 | 56.0 | 464 | 397.6 | 70.2 | 464 | 457.2 | 62.6 |
| 45 | 44.3 | 07.8 | 105 | 103.4 | 18.2 | 165 | 162.5 | 60.7 | 220 | 221.6 | 39.1 | 285 | 260.7 | 49.0 | 345 | 332.8 | 59.2 | 405 | 396.2 | 70.3 | 465 | 467.2 | 60.8 |
| 40 | 45.3 | 06.0 | 106 | 104.4 | 18.4 | 166 | 163.5 | 20.8 | 226 | 222.6 | 39.2 | 286 | 261.7 | 49.7 | 348 | 340.7 | 20.1 | 406 | 396.6 | 76.5 | 466 | 458.9 | 60.2 |
| 47 | 46.3 | 08.2 | 107 | 105.4 | 16.0 | 167 | 164.5 | 22.0 | 227 | 223.6 | 39.4 | 267 | 282.6 | 46.6 | 347 | 341.7 | 60.3 | 407 | 400.0 | 70.7 | 467 | 456.6 | 81.1 |
| 46 | 47.3 | 08.3 | 108 | 106.4 | 18.8 | 160 | 165.4 | 22.2 | 226 | 224.6 | 32.6 | 288 | 283.6 | 56.0 | 346 | 342.7 | 60.4 | 408 | 401.2 | 70.6 | 466 | 460.6 | 61.3 |
| 42 | 42.3 | 06.5 | 106 | 107.3 | 18.9 | 162 | 166.4 | 29.3 | 229 | 225.5 | 36.6 | 289 | 284.6 | 50.2 | 342 | 343.7 | 60.6 | 406 | 402.0 | 71.2 | 466 | 461.6 | 61.6 |
| 66 | 49.2 | 06.7 | 112 | 108.3 | 16.1 | 170 | 167.4 | 29.5 | 230 | 226.5 | 39.9 | 290 | 285.6 | 50.4 | 350 | 344.7 | 80.8 | 410 | 403.2 | 71.2 | 470 | 462.6 | 61.6 |
| 51 | 50.2 | 06.9 | 111 | 102.3 | 16.3 | 171 | 168.4 | 29.7 | 231 | 227.5 | 40.1 | 261 | 286.0 | 58.5 | 351 | 345.7 | 61.0 | 411 | 404.2 | 71.4 | 471 | 463.8 | 61.6 |
| 52 | 61.2 | 09.0 | 112 | 110.3 | 16.4 | 172 | 102.4 | 29 9 | 632 | 222.5 | 40.3 | 292 | 287.2 | 56.7 | 302 | 346.7 | 61.1 | 412 | 405.7 | 71.6 | 472 | 464.8 | 82.0 |
| 53 | 62.2 | 26.2 | 113 | 111.3 | 19.6 | 173 | 170.4 | 36.0 | 233 | 229.6 | 40.5 | 293 | 288.5 | 50.9 | 353 | 347.6 | 61.3 | 413 | 406.7 | 71.7 | 473 | 465.6 | 82.1 |
| 54 | 53.2 | 69.4 | 114 | 112.3 | 19.6 | 174 | 171.4 | 30.2 | 234 | 230.4 | 40.6 | 294 | 289.5 | 51.1 | 354 | 346.0 | 61.0 | 414 | 407.7 | 71.9 | 474 | 486.6 | 62.3 |
| 55 | 54.6 | 29.6 | 115 | 113.3 | 20.0 | 175 | 172.3 | 30.4 | 235 | 231.4 | 40.8 | 295 | 220.6 | 51.2 | 355 | 346.2 | 61.7 | 415 | 408.7 | 72.1 | 475 | 487.6 | 82.5 |
| 56 | 65.1 | 69.7 | 116 | 114.2 | 20.1 | 176 | 173.3 | 30.6 | 232 | 232.4 | 41.0 | 296 | 291.6 | 51.4 | 356 | 350.6 | 61.8 | 416 | 409.7 | 72.2 | 476 | 462.8 | 62.7 |
| 57 | 56.1 | 09.9 | 117 | 115.2 | 20.3 | 177 | 174.3 | 30.7 | 237 | 233.4 | 41.2 | 297 | 292.5 | 51.6 | 357 | 351.6 | 62.0 | 417 | 410.7 | 72.4 | 477 | 469.6 | 62.2 |
| 58 | 57.1 | 10.1 | 116 | 116.2 | 20.0 | 172 | 175.3 | 30.2 | 238 | 234.4 | 41.3 | 298 | 263.5 | 51.7 | 356 | 352.6 | 62.2 | 416 | 411.7 | 72.6 | 478 | 472.7 | 23.0 |
| 52 | 58.1 | 12.2 | 119 | 117.2 | 20.7 | 176 | 172.3 | 31.1 | 236 | 235.4 | 41.5 | 229 | 264.5 | 61.9 | 352 | 353.5 | 62.4 | 112 | 412.6 | 72.6 | 476 | 471.7 | 83.2 |
| 60 | 59.1 | 12.4 | 120 | 118.2 | 20.2 | 180 | 177.3 | 31.3 | 248 | 236.4 | 41.7 | 300 | 266.4 | 52.1 | 362 | 354.5 | 62.5 | 420 | 413.6 | 72.6 | 460 | 472.7 | 83.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

**5.ʰ 20.ᵐ** **Para 80 grados.** **6.ʰ 40.ᵐ**

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

**0.h 44.m** **Para 11 grados.** **11.h 16.m**

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 06.9 | 61 | 59.9 | 11.6 | 121 | 110.6 | 23.1 | 181 | 177.7 | 34.6 | 241 | 236.6 | 46.0 | 301 | 225.4 | 67.4 | 361 | 354.3 | 68.2 | 421 | 413.6 | 86.3 |
| 2 | 66.0 | 60.4 | 62 | 60.2 | 11.0 | 122 | 110.6 | 63.3 | 182 | 176.7 | 34.7 | 242 | 237.6 | 46.2 | 302 | 226.4 | 57.6 | 362 | 355.3 | 66.1 | 422 | 414.6 | 60.5 |
| 3 | 62.9 | 66.6 | 53 | 61.6 | 16.0 | 163 | 160.7 | 63.5 | 183 | 176.6 | 34.9 | 243 | 238.5 | 46.4 | 363 | 297.4 | 57.8 | 363 | 356.3 | 66.3 | 423 | 415.2 | 60.7 |
| 4 | 03.9 | 00.8 | 64 | 62.6 | 16.2 | 124 | 121.7 | 23.7 | 184 | 180.6 | 35.1 | 244 | 236.5 | 46.6 | 304 | 628.4 | 58.0 | 364 | 357.3 | 66.5 | 424 | 416.2 | 66.6 |
| 6 | 64.6 | 01.0 | 65 | 63.6 | 12.4 | 125 | 126.7 | 63.9 | 185 | 181.6 | 35.3 | 245 | 940.5 | 46.7 | 305 | 229.4 | 58.2 | 365 | 358.3 | 62.6 | 425 | 417.2 | 61.1 |
| 6 | 05.6 | 01.1 | 66 | 64.6 | 12.6 | 126 | 123.7 | 64.0 | 186 | 182.6 | 35.5 | 246 | 241.5 | 46.2 | 306 | 300.3 | 58.4 | 366 | 359.2 | 66.8 | 426 | 418.1 | 61.3 |
| 7 | 06.6 | 01.3 | 67 | 65.8 | 12.8 | 127 | 124.7 | 24.6 | 187 | 183.6 | 35.7 | 247 | 242.6 | 47.1 | 307 | 301.3 | 58.6 | 367 | 366.6 | 70.0 | 427 | 413.1 | 61.5 |
| 8 | 67.9 | 01.5 | 68 | 66.8 | 13.0 | 128 | 125.6 | 64.4 | 188 | 184.5 | 35.9 | 248 | 243.4 | 47.3 | 306 | 302.3 | 58.8 | 368 | 361.2 | 70.2 | 426 | 426.1 | 81.7 |
| 9 | 63.8 | 61.7 | 62 | 67.7 | 13.2 | 129 | 126.6 | 24.6 | 189 | 185.5 | 36.1 | 249 | 244.4 | 47.5 | 309 | 303.3 | 59.0 | 369 | 362.2 | 70.4 | 429 | 421.1 | 81.9 |
| 10 | 66.8 | 61.6 | 70 | 68.7 | 13.4 | 130 | 167.6 | 64.8 | 120 | 186.5 | 36.3 | 250 | 245.4 | 47.7 | 310 | 304.3 | 53.2 | 370 | 363.2 | 76.6 | 430 | 426.1 | 86.1 |
| 11 | 10.8 | 02.1 | 71 | 69.7 | 13.5 | 131 | 128.6 | 25.0 | 191 | 187.5 | 35.4 | 251 | 246.4 | 47.9 | 311 | 305.3 | 59.3 | 371 | 364.1 | 70.8 | 431 | 423.0 | 82.2 |
| 12 | 11.8 | 62.3 | 76 | 70.7 | 13.7 | 132 | 129.6 | 25.2 | 192 | 188.5 | 35.6 | 252 | 247.4 | 48.1 | 312 | 306.2 | 59.5 | 372 | 365.1 | 71.0 | 132 | 424.6 | 82.4 |
| 13 | 16.8 | 66.5 | 73 | 71.7 | 13.9 | 133 | 130.6 | 25.4 | 193 | 186.5 | 36.8 | 263 | 248.4 | 48.3 | 313 | 307.2 | 59.7 | 373 | 366.1 | 71.2 | 433 | 425.6 | 82.6 |
| 14 | 13.7 | 02.7 | 74 | 76.6 | 14.1 | 134 | 131.6 | 25.6 | 124 | 120.4 | 37.0 | 254 | 649.3 | 48.5 | 314 | 308.2 | 69.9 | 374 | 367.1 | 71.4 | 434 | 426.6 | 82.8 |
| 15 | 14.7 | 02.9 | 75 | 73.6 | 14.3 | 135 | 136.5 | 25.8 | 125 | 121.4 | 37.2 | 255 | 256.3 | 48.7 | 315 | 309.6 | 66.1 | 375 | 368.1 | 71.6 | 435 | 427.6 | 83.0 |
| 16 | 15.7 | 03.1 | 76 | 74.6 | 14.5 | 136 | 133.5 | 26.0 | 196 | 192.4 | 37.4 | 256 | 251.3 | 48.8 | 316 | 310.2 | 60.3 | 375 | 369.1 | 71.7 | 136 | 426.6 | 63.6 |
| 17 | 16.7 | 03.2 | 77 | 75.6 | 14.7 | 137 | 134.5 | 65.1 | 167 | 193.4 | 37.6 | 257 | 252.3 | 49.0 | 317 | 311.1 | 60.5 | 377 | 370.0 | 71.9 | 137 | 428.9 | 83.4 |
| 18 | 17.7 | 03.4 | 78 | 76.6 | 14.9 | 138 | 135.6 | 65.3 | 198 | 194.4 | 37.8 | 258 | 253.3 | 49.2 | 318 | 312.1 | 60.7 | 378 | 371.0 | 76.1 | 438 | 429.9 | 83.6 |
| 19 | 18.7 | 03.6 | 79 | 77.6 | 15.1 | 132 | 136.4 | 26.5 | 199 | 195.3 | 38.0 | 259 | 954.2 | 46.4 | 319 | 313.1 | 60.9 | 372 | 376.6 | 72.3 | 439 | 430.9 | 83.8 |
| 20 | 16.6 | 63.8 | 80 | 76.5 | 15.3 | 140 | 137.4 | 26.7 | 200 | 196.3 | 38.2 | 260 | 255.2 | 46.6 | 320 | 314.1 | 61.1 | 380 | 373.6 | 76.5 | 440 | 431.9 | 64.0 |
| 21 | 20.6 | 04.0 | 81 | 72.5 | 15.5 | 141 | 138.4 | 66.9 | 201 | 197.3 | 38.4 | 261 | 256.2 | 49.8 | 321 | 315.1 | 61.3 | 381 | 374.6 | 76.7 | 141 | 432.9 | 64.1 |
| 92 | 21.6 | 04.2 | 82 | 80.5 | 15.6 | 142 | 139.4 | 67.1 | 909 | 198.3 | 38.5 | 262 | 257.2 | 56.0 | 322 | 316.1 | 61.4 | 382 | 374.9 | 72.9 | 442 | 433.6 | 64.3 |
| 63 | 22.3 | 04.4 | 83 | 81.5 | 16.8 | 143 | 140.4 | 67.3 | 603 | 199.3 | 38.7 | 263 | 658.9 | 50.2 | 323 | 317.6 | 61.6 | 383 | 375.9 | 73.1 | 443 | 434.6 | 64.6 |
| 24 | 93.6 | 04.6 | 84 | 82.5 | 16.0 | 144 | 141.4 | 67.5 | 204 | 200.3 | 38.9 | 264 | 259.1 | 50.4 | 324 | 318.6 | 61.8 | 184 | 376.9 | 73.3 | 444 | 435.6 | 84.7 |
| 25 | 24.5 | 04.8 | 85 | 83.4 | 15.2 | 145 | 142.3 | 67.7 | 205 | 201.2 | 32.1 | 265 | 260.1 | 50.6 | 325 | 319.6 | 62.0 | 385 | 377.3 | 73.6 | 445 | 436.6 | 64.9 |
| 26 | 25.5 | 05.0 | 86 | 84.4 | 16.4 | 146 | 143.3 | 67.6 | 206 | 202.2 | 32.3 | 266 | 261.1 | 50.8 | 326 | 320.0 | 52.9 | 386 | 376.6 | 73.7 | 146 | 437.6 | 85.1 |
| 27 | 26.5 | 05.2 | 87 | 85.4 | 16.6 | 147 | 144.3 | 66.0 | 207 | 203.6 | 36.5 | 267 | 262.1 | 60.9 | 327 | 321.6 | 62.4 | 387 | 379.9 | 73.8 | 447 | 438.8 | 65.3 |
| 28 | 27.5 | 65.3 | 88 | 86.4 | 16.6 | 148 | 145.3 | 68.2 | 208 | 204.6 | 32.7 | 268 | 263.1 | 51.1 | 328 | 321.6 | 62.6 | 388 | 380.0 | 74.0 | 448 | 439.7 | 65.5 |
| 22 | 28.5 | 65.5 | 82 | 87.4 | 17.0 | 149 | 145.3 | 28.4 | 209 | 205.2 | 39.9 | 269 | 264.1 | 51.3 | 322 | 322.6 | 62.8 | 389 | 361.8 | 74.2 | 412 | 440.7 | 85.7 |
| 30 | 22.4 | 65.7 | 90 | 88.3 | 17.2 | 150 | 147.2 | 28.6 | 210 | 206.1 | 40.1 | 270 | 265.0 | 51.5 | 330 | 323.6 | 63.0 | 390 | 382.8 | 74.4 | 450 | 441.7 | 65.2 |
| 31 | 30.4 | 05.9 | 61 | 89.3 | 17.4 | 151 | 148.2 | 28.8 | 211 | 207.1 | 40.3 | 271 | 266.0 | 61.7 | 331 | 324.6 | 63.2 | 391 | 383.8 | 74.6 | 451 | 442.7 | 66.1 |
| 32 | 31.4 | 66.1 | 92 | 90.3 | 17.6 | 152 | 142.9 | 69.0 | 212 | 208.1 | 40.5 | 272 | 267.0 | 51.9 | 332 | 325.6 | 63.4 | 399 | 384.8 | 74.8 | 452 | 443.7 | 86.2 |
| 33 | 32.4 | 66.3 | 23 | 91.3 | 17.7 | 153 | 150.6 | 69.2 | 213 | 209.1 | 40.6 | 273 | 268.0 | 52.1 | 333 | 323.8 | 63.6 | 393 | 385.7 | 75.0 | 453 | 444.6 | 66.4 |
| 34 | 33.4 | 06.5 | 24 | 92.3 | 17.9 | 154 | 151.6 | 69.4 | 214 | 210.1 | 40.8 | 274 | 269.0 | 52.3 | 334 | 327.6 | 63.7 | 391 | 386.7 | 75.2 | 454 | 445.6 | 66.6 |
| 35 | 34.4 | 05.7 | 95 | 93.3 | 18.1 | 155 | 152.6 | 22.6 | 215 | 211.6 | 41.0 | 275 | 266.2 | 52.5 | 335 | 328.8 | 63.2 | 395 | 387.7 | 75.4 | 455 | 446.6 | 86.8 |
| 35 | 35.3 | 06.9 | 96 | 94.6 | 18.3 | 156 | 153.1 | 62.8 | 216 | 216.6 | 41.2 | 276 | 270.6 | 52.7 | 336 | 369.6 | 64.1 | 396 | 388.7 | 75.6 | 156 | 447.6 | 87.0 |
| 37 | 35.3 | 07.1 | 97 | 26.6 | 16.5 | 157 | 154.1 | 30.0 | 617 | 213.6 | 41.4 | 277 | 271.6 | 52.9 | 337 | 336.8 | 64.3 | 397 | 389.7 | 76.8 | 457 | 446.6 | 67.2 |
| 38 | 37.3 | 07.3 | 98 | 96.6 | 18.7 | 158 | 155.1 | 30.1 | 218 | 214.6 | 41.6 | 278 | 276.9 | 63.0 | 338 | 331.6 | 64.5 | 398 | 320.7 | 75.2 | 458 | 442.6 | 67.4 |
| 39 | 38.3 | 07.4 | 92 | 67.6 | 18.9 | 152 | 156.1 | 30.3 | 919 | 215.0 | 41.8 | 279 | 273.9 | 53.2 | 332 | 332.7 | 64.7 | 399 | 361.6 | 76.1 | 452 | 450.5 | 87.6 |
| 40 | 39.3 | 67.6 | 100 | 98.3 | 19.1 | 160 | 157.1 | 30.5 | 220 | 216.0 | 46.0 | 280 | 274.9 | 53.4 | 340 | 333.7 | 64.9 | 400 | 392.6 | 76.3 | 166 | 451.5 | 87.8 |
| 41 | 40.6 | 07.8 | 101 | 99.1 | 16.3 | 161 | 158.0 | 30.7 | 221 | 216.3 | 42.2 | 281 | 276.0 | 53.6 | 341 | 334.7 | 65.1 | 401 | 323.6 | 76.5 | 461 | 452.5 | 88.0 |
| 42 | 41.6 | 06.0 | 102 | 100.1 | 16.5 | 162 | 159.6 | 30.2 | 222 | 217.3 | 42.4 | 282 | 276.8 | 53.8 | 346 | 335.7 | 65.3 | 406 | 324.6 | 76.7 | 466 | 453.5 | 88.6 |
| 43 | 46.2 | 00.2 | 103 | 161.1 | 19.7 | 163 | 166.6 | 31.1 | 223 | 218.9 | 42.6 | 283 | 677.8 | 54.0 | 343 | 336.7 | 55.5 | 103 | 395.6 | 76.9 | 463 | 454.5 | 88.3 |
| 44 | 43.6 | 08.4 | 104 | 162.1 | 16.8 | 164 | 151.0 | 31.3 | 224 | 216.9 | 42.7 | 284 | 276.8 | 54.2 | 314 | 337.6 | 65.6 | 404 | 396.5 | 77.1 | 464 | 455.4 | 88.5 |
| 45 | 44.6 | 60.6 | 165 | 103.1 | 60.0 | 165 | 162.6 | 31.5 | 225 | 226.6 | 42.9 | 285 | 276.0 | 54.4 | 345 | 338.6 | 65.8 | 405 | 397.5 | 77.3 | 465 | 456.4 | 88.7 |
| 46 | 45.3 | 66.8 | 106 | 104.1 | 20.6 | 166 | 163.6 | 31.7 | 226 | 221.8 | 43.1 | 286 | 280 7 | 54.6 | 346 | 332.6 | 66.0 | 406 | 328.5 | 77.5 | 166 | 457.4 | 88.6 |
| 47 | 46.1 | 62.0 | 107 | 105.6 | 60.4 | 167 | 163.9 | 31.2 | 227 | 222.8 | 43.3 | 287 | 281.7 | 54.8 | 317 | 340.5 | 66.2 | 407 | 392.5 | 77.7 | 467 | 458.4 | 69.1 |
| 40 | 47.1 | 62.2 | 168 | 106.6 | 60.6 | 168 | 134.6 | 32.1 | 228 | 223.8 | 43.5 | 288 | 282.7 | 56.0 | 348 | 341.5 | 66.4 | 406 | 400.5 | 77.9 | 466 | 459.4 | 89.3 |
| 42 | 46.1 | 09.3 | 100 | 107.0 | 20.8 | 169 | 166.9 | 32.2 | 229 | 264.8 | 43.7 | 286 | 283.7 | 55.1 | 349 | 312.6 | 65.6 | 409 | 401.5 | 78.1 | 163 | 466.4 | 89.5 |
| 50 | 49.1 | 60.5 | 110 | 108.6 | 21.0 | 170 | 166.9 | 36.4 | 630 | 225.8 | 43.9 | 220 | 284.7 | 56.3 | 356 | 313.5 | 66.8 | 410 | 402.4 | 78.6 | 470 | 461.3 | 86.7 |
| 51 | 50.1 | 09.7 | 111 | 109.6 | 61.2 | 171 | 167.3 | 32.6 | 231 | 226.8 | 44.1 | 291 | 285.7 | 55.5 | 351 | 344.5 | 37.0 | 411 | 403.4 | 78.4 | 471 | 462.3 | 86.9 |
| 52 | 51.6 | 09.6 | 112 | 109.9 | 61.4 | 172 | 168.6 | 36.8 | 232 | 267.7 | 44.3 | 292 | 286.6 | 55.7 | 352 | 345.5 | 67.2 | 412 | 404.4 | 78.6 | 476 | 463.3 | 30.1 |
| 53 | 56.0 | 10.1 | 113 | 116.9 | 61.6 | 173 | 169.6 | 33.0 | 233 | 228.7 | 44.5 | 293 | 287.6 | 55.2 | 353 | 346.5 | 67.4 | 413 | 405.4 | 78.8 | 473 | 464.3 | 60.3 |
| 54 | 53.6 | 16.3 | 114 | 111.9 | 61.0 | 174 | 170.8 | 33.6 | 234 | 229.7 | 44.6 | 294 | 286.6 | 56.1 | 354 | 347.5 | 67.5 | 414 | 406.4 | 79.0 | 474 | 465.3 | 90.4 |
| 55 | 54.0 | 10.5 | 115 | 112.9 | 61.9 | 175 | 171.0 | 33.4 | 235 | 230.7 | 44.6 | 295 | 282.5 | 55.3 | 355 | 348.4 | 37.7 | 415 | 407.3 | 72.2 | 475 | 466.2 | 90.6 |
| 56 | 55.6 | 10.7 | 116 | 113.9 | 62.1 | 175 | 172.3 | 33.6 | 236 | 231.7 | 45.6 | 295 | 260.6 | 66.5 | 356 | 346.4 | 67.9 | 416 | 408.3 | 79.4 | 476 | 467.2 | 60.8 |
| 67 | 66.0 | 10.2 | 117 | 114.6 | 62.3 | 177 | 173.7 | 33.8 | 237 | 232.6 | 45.6 | 297 | 261.5 | 56.7 | 357 | 350.4 | 68.1 | 417 | 409.3 | 79.6 | 477 | 468.6 | 21.0 |
| 58 | 56.6 | 11.1 | 118 | 115.3 | 66.5 | 178 | 174.7 | 34.0 | 238 | 233.6 | 45.4 | 298 | 262.5 | 56.9 | 356 | 351.4 | 68.3 | 418 | 416.3 | 76.8 | 470 | 462.6 | 91.9 |
| 59 | 67.9 | 11.3 | 119 | 116.6 | 22.7 | 179 | 175.7 | 34.2 | 239 | 634.6 | 45.6 | 299 | 293.5 | 57.1 | 359 | 356.4 | 66.5 | 419 | 411.3 | 80.6 | 479 | 476.6 | 61.4 |
| 66 | 68.6 | 11.4 | 166 | 117.8 | 62.9 | 180 | 176.7 | 34.3 | 246 | 235.3 | 46.6 | 306 | 694.5 | 67.2 | 360 | 353.4 | 38.7 | 466 | 412.3 | 86.1 | 460 | 471.1 | 31.6 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

**5.h 16.m** **Para 79 grados.** **6.h 44.m**

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

0.ʰ 48.ᵐ — Para 12 grados. — 11.ʰ 12.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.2 | 20.2 | 61 | 59.7 | 12.7 | 121 | 118.4 | 25.2 | 181 | 177.0 | 37.6 | 241 | 235.7 | 50.1 | 301 | 294.4 | 62.6 | 361 | 353.1 | 75.0 | 421 | 411.8 | 87.5 |
| 2 | 02.0 | 82.4 | 62 | 60.6 | 19.9 | 122 | 112.3 | 25.4 | 182 | 178.0 | 37.8 | 242 | 236.7 | 50.3 | 302 | 295.4 | 62.8 | 362 | 354.1 | 75.2 | 422 | 419.8 | 87.7 |
| 3 | 02.9 | 00.6 | 63 | 61.6 | 13.1 | 123 | 120.3 | 25.6 | 183 | 179.0 | 38.0 | 243 | 237.7 | 50.5 | 303 | 296.4 | 63.0 | 363 | 355.1 | 75.4 | 423 | 413.8 | 87.9 |
| 4 | 03.9 | 82.8 | 64 | 62.6 | 13.3 | 124 | 121.3 | 25.8 | 184 | 180.6 | 38.3 | 244 | 238.7 | 30.7 | 304 | 297.4 | 63.2 | 364 | 356.8 | 75.7 | 424 | 414.7 | 88.1 |
| 6 | 04.9 | 01.0 | 65 | 63.6 | 13.5 | 125 | 122.3 | 26.0 | 185 | 161.6 | 38.5 | 245 | 239.6 | 50.9 | 305 | 298.3 | 63.4 | 365 | 357.8 | 76.9 | 425 | 415.7 | 88.3 |
| 6 | 05.9 | 81.2 | 66 | 64.6 | 13.7 | 126 | 123.2 | 25.2 | 186 | 161.9 | 38.7 | 246 | 240.6 | 51.1 | 306 | 299.3 | 63.6 | 366 | 358.0 | 76.1 | 426 | 416.7 | 88.6 |
| 7 | 06.8 | 21.5 | 67 | 65.5 | 13.9 | 127 | 124.2 | 26.4 | 187 | 182.9 | 38.9 | 247 | 241.6 | 61.4 | 307 | 300.3 | 63.8 | 367 | 359.8 | 75.3 | 427 | 417.7 | 88.8 |
| 6 | 07.8 | 01.7 | 68 | 66.5 | 14.1 | 128 | 123.2 | 26.6 | 188 | 163.2 | 39.1 | 248 | 242.6 | 51.6 | 308 | 301.3 | 64.0 | 368 | 360.8 | 76.5 | 428 | 416.6 | 69.0 |
| 9 | 08.8 | 81.9 | 69 | 67.5 | 14.3 | 122 | 126.2 | 96.8 | 189 | 184.9 | 39.3 | 249 | 243.6 | 51.8 | 309 | 302.2 | 64.2 | 369 | 360.9 | 76.7 | 429 | 419.6 | 89.2 |
| 16 | 09.8 | 09.1 | 70 | 68.5 | 14.6 | 130 | 127.2 | 27.0 | 190 | 185.0 | 39.5 | 252 | 244.5 | 62.0 | 310 | 303.2 | 64.4 | 370 | 361.9 | 76.2 | 430 | 420.6 | 89.4 |
| 11 | 10.8 | 02.3 | 71 | 69.4 | 14.8 | 131 | 128.1 | 27.2 | 191 | 186.2 | 39.7 | 251 | 245.5 | 52.2 | 311 | 304.2 | 64.6 | 371 | 362.9 | 77.1 | 431 | 421.6 | 89.6 |
| 12 | 11.7 | 02.6 | 72 | 72.4 | 15.0 | 132 | 129.1 | 27.4 | 192 | 187.8 | 39.9 | 252 | 216.5 | 52.4 | 312 | 385.2 | 64.0 | 372 | 363.9 | 77.3 | 432 | 422.6 | 89.8 |
| 13 | 12.7 | 82.7 | 73 | 71.4 | 15.2 | 133 | 130.1 | 27.7 | 193 | 188.8 | 40.1 | 253 | 247.5 | 52.6 | 313 | 305.2 | 65.1 | 373 | 364.2 | 77.5 | 433 | 423.5 | 90.0 |
| 14 | 13.7 | 82.9 | 74 | 72.4 | 15.4 | 134 | 131.1 | 27.9 | 194 | 189.6 | 40.3 | 254 | 248.4 | 52.8 | 314 | 307.1 | 65.3 | 374 | 365.8 | 77.7 | 434 | 124.5 | 90.2 |
| 15 | 14.7 | 03.1 | 75 | 73.4 | 15.6 | 135 | 139.0 | 28.1 | 195 | 120.7 | 40.5 | 255 | 242.4 | 63.0 | 315 | 308.1 | 55.3 | 375 | 366.6 | 77.2 | 435 | 425.5 | 90.4 |
| 15 | 15.7 | 03.3 | 76 | 74.3 | 15.8 | 136 | 133.6 | 28.3 | 196 | 121.7 | 40.8 | 256 | 250.4 | 53.2 | 316 | 389.1 | 65.7 | 376 | 367.6 | 78.2 | 436 | 426.5 | 90.6 |
| 17 | 16.6 | 03.6 | 77 | 75.3 | 16.0 | 137 | 134.6 | 28.5 | 197 | 192.7 | 41.0 | 257 | 251.4 | 63.4 | 317 | 310.1 | 65.9 | 377 | 368.8 | 78.4 | 437 | 427.5 | 20.8 |
| 18 | 17.6 | 03.7 | 78 | 76.3 | 16.2 | 138 | 135.8 | 28.7 | 198 | 193.7 | 41.2 | 258 | 252.4 | 33.6 | 318 | 311.1 | 66.1 | 378 | 369.7 | 78.6 | 438 | 428.4 | 21.0 |
| 12 | 18.6 | 04.0 | 79 | 77.3 | 16.4 | 139 | 136.0 | 28.9 | 199 | 194.7 | 41.4 | 259 | 253.3 | 63.0 | 319 | 312.0 | 66.3 | 379 | 370.7 | 78.8 | 439 | 429.4 | 91.3 |
| 20 | 19.6 | 84.2 | 80 | 78.3 | 16.6 | 140 | 136.9 | 29.1 | 200 | 195.6 | 41.6 | 260 | 254.3 | 54.1 | 320 | 313.2 | 66.5 | 380 | 371.7 | 79.0 | 440 | 430.4 | 91.5 |
| 21 | 20.5 | 04.4 | 81 | 79.2 | 16.8 | 141 | 137.9 | 29.3 | 201 | 196.6 | 41.8 | 261 | 255.3 | 54.3 | 321 | 314.6 | 66.7 | 381 | 372.7 | 79.2 | 441 | 431.4 | 91.7 |
| 22 | 21.5 | 84.6 | 82 | 80.2 | 17.2 | 142 | 138.2 | 29.5 | 202 | 197.6 | 42.0 | 262 | 256.3 | 54.5 | 322 | 315.0 | 66.9 | 382 | 373.7 | 79.4 | 442 | 432.3 | 91.9 |
| 23 | 22.5 | 04.8 | 83 | 81.2 | 17.3 | 143 | 139.9 | 29.7 | 203 | 198.6 | 42.2 | 263 | 257.3 | 54.7 | 323 | 315.2 | 67.1 | 383 | 374.6 | 79.6 | 443 | 433.3 | 92.1 |
| 24 | 23.5 | 05.0 | 84 | 82.2 | 17.5 | 144 | 140.9 | 29.9 | 204 | 199.6 | 42.4 | 264 | 256.2 | 54.9 | 324 | 316.9 | 67.3 | 384 | 375.6 | 79.8 | 444 | 434.3 | 92.3 |
| 25 | 24.5 | 85.2 | 65 | 83.1 | 17.7 | 145 | 141.8 | 30.1 | 205 | 200.5 | 42.6 | 266 | 259.2 | 55.1 | 325 | 317.2 | 67.6 | 385 | 376.6 | 80.0 | 446 | 435.3 | 92.5 |
| 26 | 25.4 | 05.4 | 86 | 81.1 | 17.9 | 146 | 149.8 | 30.4 | 206 | 201.5 | 42.8 | 266 | 260.2 | 55.3 | 326 | 318.2 | 67.8 | 386 | 377.6 | 80.2 | 446 | 436.3 | 92.7 |
| 27 | 20.4 | 83.6 | 67 | 85.1 | 18.1 | 147 | 143.8 | 30.6 | 207 | 202.5 | 43.0 | 267 | 261.2 | 55.5 | 327 | 312.2 | 68.0 | 387 | 378.5 | 80.4 | 447 | 437.2 | 92.9 |
| 28 | 27.4 | 06.8 | 08 | 86.1 | 18.3 | 148 | 144.8 | 30.8 | 208 | 203.5 | 43.2 | 268 | 262.1 | 56.7 | 328 | 320.8 | 68.2 | 388 | 379.6 | 80.7 | 448 | 438.2 | 23.1 |
| 22 | 28.4 | 86.0 | 89 | 87.1 | 18.6 | 142 | 145.7 | 31.0 | 209 | 204.4 | 43.5 | 269 | 263.1 | 55.9 | 329 | 321.6 | 68.4 | 389 | 380.6 | 80.9 | 449 | 439.2 | 93.3 |
| 30 | 29.3 | 06.2 | 90 | 88.0 | 18.7 | 150 | 146.7 | 31.2 | 210 | 205.4 | 43.7 | 270 | 264.1 | 66.1 | 330 | 329.6 | 68.6 | 390 | 381.5 | 81.1 | 450 | 440.2 | 93.5 |
| 31 | 30.3 | 06.4 | 21 | 89.0 | 18.9 | 151 | 147.7 | 31.4 | 211 | 206.4 | 43.9 | 271 | 265.1 | 66.3 | 331 | 323.2 | 68.8 | 391 | 382.5 | 81.3 | 451 | 441.1 | 93.7 |
| 32 | 31.3 | 06.7 | 92 | 90.0 | 19.1 | 152 | 148.7 | 31.6 | 212 | 207.4 | 44.1 | 272 | 265.1 | 66.6 | 332 | 324.7 | 69.0 | 392 | 383.4 | 81.5 | 452 | 442.1 | 93.9 |
| 33 | 32.3 | 86.9 | 93 | 91.0 | 19.3 | 153 | 149.7 | 31.8 | 213 | 208.3 | 44.3 | 273 | 267.0 | 56.8 | 333 | 323.7 | 69.2 | 393 | 384.4 | 81.7 | 453 | 443.1 | 94.1 |
| 34 | 33.3 | 87.1 | 94 | 91.9 | 19.5 | 154 | 150.6 | 32.0 | 214 | 209.3 | 44.5 | 274 | 268.0 | 57.0 | 334 | 326.7 | 69.4 | 394 | 385.4 | 01.9 | 454 | 444.1 | 94.4 |
| 35 | 34.2 | 67.3 | 95 | 92.9 | 19.8 | 155 | 151.6 | 32.2 | 215 | 210.3 | 44.7 | 275 | 262.0 | 57.2 | 335 | 327.7 | 69.6 | 395 | 386.4 | 82.1 | 155 | 445.1 | 94.6 |
| 36 | 35.2 | 07.5 | 96 | 93.9 | 20.0 | 156 | 152.6 | 32.4 | 216 | 211.3 | 44.9 | 276 | 270.0 | 67.4 | 336 | 328.7 | 69.8 | 396 | 387.3 | 82.3 | 456 | 446.0 | 94.8 |
| 37 | 36.2 | 27.7 | 97 | 94.9 | 20.2 | 157 | 153.6 | 32.6 | 217 | 212.3 | 46.1 | 277 | 272.9 | 57.6 | 337 | 329.6 | 70.0 | 397 | 388.3 | 82.5 | 457 | 447.0 | 95.0 |
| 38 | 37.2 | 27.9 | 98 | 95.9 | 20.4 | 158 | 154.5 | 32.9 | 218 | 213.2 | 45.3 | 278 | 271.9 | 57.8 | 338 | 330.6 | 70.3 | 398 | 389.3 | 82.7 | 458 | 448.0 | 95.2 |
| 32 | 38.1 | 08.1 | 99 | 96.8 | 20.6 | 159 | 136.5 | 33.1 | 219 | 214.2 | 45.5 | 279 | 272.9 | 68.6 | 339 | 331.6 | 70.5 | 399 | 390.3 | 82.9 | 459 | 449.0 | 95.4 |
| 40 | 39.1 | 68.3 | 100 | 97.8 | 20.8 | 160 | 156.5 | 33.3 | 220 | 215.2 | 45.7 | 280 | 273.2 | 58.2 | 340 | 332.6 | 70.7 | 400 | 391.3 | 83.1 | 460 | 450.6 | 95.6 |
| 41 | 40.1 | 08.5 | 101 | 98.8 | 21.0 | 161 | 157.5 | 33.5 | 221 | 216.2 | 45.9 | 281 | 274.2 | 68.4 | 341 | 333.5 | 70.9 | 401 | 392.2 | 83.4 | 461 | 450.9 | 95.8 |
| 42 | 41.1 | 08.7 | 102 | 99.8 | 21.2 | 162 | 158.5 | 33.7 | 222 | 217.1 | 46.2 | 282 | 275.8 | 68.5 | 342 | 334.5 | 71.1 | 402 | 393.2 | 83.6 | 462 | 451.2 | 96.0 |
| 43 | 42.1 | 08.9 | 103 | 106.7 | 21.4 | 163 | 152.4 | 33.9 | 223 | 218.1 | 46.4 | 283 | 276.0 | 58.8 | 343 | 335.5 | 71.3 | 403 | 394.2 | 83.8 | 463 | 452.9 | 96.2 |
| 44 | 43.2 | 09.1 | 104 | 101.7 | 21.6 | 164 | 160.4 | 34.1 | 224 | 219.1 | 46.6 | 284 | 277.8 | 59.0 | 344 | 336.5 | 71.5 | 404 | 393.2 | 84.0 | 464 | 453.9 | 96.5 |
| 45 | 44.6 | 09.4 | 105 | 102.7 | 21.8 | 165 | 161.4 | 34.3 | 225 | 220.1 | 46.8 | 285 | 276.8 | 69.3 | 345 | 337.5 | 71.7 | 405 | 396.2 | 84.2 | 465 | 454.8 | 96.7 |
| 46 | 45.6 | 09.6 | 106 | 103.7 | 22.0 | 166 | 162.4 | 34.5 | 226 | 221.1 | 47.0 | 286 | 279.8 | 69.5 | 346 | 338.4 | 71.9 | 406 | 397.1 | 84.4 | 466 | 455.8 | 96.9 |
| 47 | 46.6 | 09.8 | 107 | 104.7 | 22.2 | 167 | 163.4 | 34.7 | 227 | 222.0 | 47.2 | 287 | 280.7 | 59.7 | 347 | 332.4 | 72.1 | 407 | 398.1 | 84.6 | 467 | 456.8 | 97.1 |
| 48 | 47.0 | 10.0 | 108 | 105.6 | 22.3 | 168 | 164.3 | 34.9 | 228 | 223.0 | 47.4 | 288 | 281.7 | 59.9 | 348 | 342.4 | 72.3 | 400 | 399.1 | 84.8 | 468 | 457.8 | 97.3 |
| 42 | 47.9 | 10.2 | 109 | 106.6 | 22.7 | 169 | 165.3 | 35.1 | 229 | 224.2 | 47.6 | 289 | 282.7 | 60.1 | 349 | 341.4 | 72.5 | 409 | 400.1 | 85.0 | 462 | 458.8 | 97.5 |
| 50 | 48.9 | 10.4 | 110 | 107.6 | 22.9 | 170 | 166.3 | 35.3 | 230 | 225.0 | 47.8 | 292 | 283.7 | 62.3 | 350 | 342.4 | 72.7 | 410 | 401.0 | 85.2 | 472 | 459.7 | 97.7 |
| 51 | 49.2 | 10.6 | 111 | 108.6 | 23.1 | 171 | 167.3 | 35.6 | 231 | 226.6 | 48.0 | 291 | 284.6 | 60.5 | 351 | 343.3 | 73.0 | 411 | 402.0 | 85.4 | 471 | 460.7 | 97.9 |
| 52 | 58.9 | 10.8 | 112 | 109.6 | 23.3 | 172 | 168.9 | 36.0 | 232 | 226.9 | 48.2 | 292 | 205.6 | 60.7 | 352 | 344.3 | 73.2 | 412 | 403.8 | 85.6 | 479 | 461.7 | 98.1 |
| 63 | 51.8 | 11.0 | 113 | 112.5 | 23.5 | 173 | 169.2 | 36.0 | 233 | 227.9 | 40.4 | 293 | 266.6 | 60.9 | 353 | 345.3 | 73.4 | 413 | 404.8 | 85.8 | 473 | 462.7 | 98.3 |
| 64 | 52.8 | 11.2 | 114 | 111.6 | 23.7 | 174 | 170.2 | 36.2 | 234 | 228.9 | 46.7 | 294 | 287.6 | 61.1 | 354 | 346.3 | 73.5 | 414 | 405.6 | 86.1 | 474 | 463.6 | 98.5 |
| 55 | 53.8 | 11.4 | 115 | 112.5 | 23.9 | 175 | 171.2 | 36.4 | 235 | 222.9 | 42.9 | 295 | 288.6 | 61.3 | 355 | 347.2 | 73.8 | 415 | 405.2 | 86.3 | 475 | 464.6 | 98.7 |
| 55 | 54.8 | 11.6 | 116 | 113.5 | 24.1 | 176 | 179.2 | 36.6 | 236 | 230.8 | 49.1 | 296 | 262.6 | 61.6 | 356 | 348.2 | 74.0 | 416 | 406.9 | 86.5 | 476 | 465.6 | 98.9 |
| 57 | 55.8 | 11.9 | 117 | 114.4 | 24.3 | 177 | 173.1 | 36.8 | 237 | 231.6 | 49.3 | 297 | 292.5 | 61.7 | 357 | 349.9 | 74.2 | 417 | 407.9 | 86.7 | 477 | 466.6 | 99.1 |
| 58 | 66.7 | 12.1 | 118 | 115.4 | 24.5 | 178 | 174.1 | 37.0 | 236 | 232.8 | 49.5 | 226 | 291.5 | 62.0 | 358 | 350.9 | 74.4 | 418 | 408.9 | 86.9 | 478 | 467.6 | 22.4 |
| 59 | 57.7 | 19.3 | 119 | 115.4 | 24.7 | 172 | 175.1 | 37.2 | 232 | 233.8 | 49.7 | 299 | 292.5 | 62.2 | 359 | 351.2 | 74.5 | 419 | 402.6 | 87.1 | 472 | 468.5 | 99.6 |
| 60 | 68.7 | 12.5 | 120 | 117.4 | 24.9 | 180 | 176.1 | 37.4 | 240 | 234.6 | 49.9 | 308 | 223.4 | 62.4 | 360 | 352.1 | 74.8 | 420 | 418.8 | 87.3 | 480 | 462.5 | 92.8 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 12.ᵐ — Para 78 grados. — 6.ʰ 48.ᵐ

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TABLA XXXV. **Diferencias en latitud y apartamientos de meridiano.**

0.ʰ 52.ᵐ **Para 13 grados.** 11ʰ 8.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 81.6 | 00.2 | 61 | 89.4 | 13.7 | 121 | 117.9 | 67.2 | 181 | 176.4 | 40.7 | 241 | 234.8 | 64.2 | 301 | 293.3 | 57.7 | 301 | 351.8 | 81.2 | 461 | 416.2 | 64.7 |
| 2 | 01.9 | 05.4 | 62 | 60.4 | 13.9 | 122 | 116.9 | 67.4 | 182 | 177.3 | 40.9 | 242 | 635.8 | 54.4 | 302 | 294.3 | 87.9 | 382 | 352.7 | 81.4 | 426 | 411.2 | 24.9 |
| 3 | 02.2 | 00.7 | 63 | 61.4 | 14.2 | 123 | 112.0 | 67.7 | 183 | 178.3 | 41.2 | 243 | 238.0 | 54.7 | 303 | 295.6 | 80.1 | 383 | 353.7 | 81.8 | 423 | 416.2 | 95.1 |
| 4 | 83.9 | 85.9 | 54 | 62.4 | 14.4 | 164 | 120.0 | 67.6 | 184 | 179.3 | 41.4 | 244 | 237.7 | 54.6 | 304 | 295.9 | 68.4 | 384 | 351.7 | 81.9 | 424 | 413.1 | 65.3 |
| 8 | 64.6 | 81,1 | 65 | 63.3 | 14.6 | 125 | 121.8 | 60.1 | 105 | 180.3 | 41.6 | 245 | 238.7 | 55.1 | 305 | 267.9 | 60.5 | 365 | 355.6 | 82.1 | 425 | 414.1 | 65.6 |
| 6 | 65.8 | 81.3 | 66 | 84.3 | 14.8 | 128 | 166.8 | 68.3 | 188 | 101.6 | 41.8 | 248 | 236.7 | 56.3 | 306 | 298.6 | 88.8 | 366 | 358.8 | 02.3 | 426 | 415.1 | 95.8 |
| 7 | 06.8 | 01.6 | 87 | 85.8 | 15.1 | 127 | 123.7 | 20.8 | 187 | 182.6 | 42.1 | 247 | 215.7 | 85.6 | 307 | 299.1 | 89.0 | 367 | 357.8 | 82.5 | 427 | 416.1 | 96.0 |
| 8 | 67.6 | 01.0 | 68 | 68.3 | 15.3 | 120 | 124.7 | 65.8 | 180 | 183.2 | 42.3 | 240 | 241.8 | 55.0 | 300 | 350.1 | 69.3 | 360 | 358.6 | 86.8 | 428 | 417.0 | 95.2 |
| 6 | 68.8 | 02.0 | 62 | 67.2 | 15.5 | 129 | 125.7 | 29.0 | 189 | 184.6 | 42.5 | 249 | 242.6 | 56.0 | 306 | 301.1 | 62.5 | 382 | 359.5 | 83.0 | 129 | 410.8 | 26.5 |
| 10 | 09.7 | 02.2 | 75 | 88.2 | 15.7 | 135 | 126.7 | 29.2 | 120 | 185.1 | 46.7 | 250 | 243.6 | 86.6 | 310 | 302.1 | 69.7 | 370 | 368.5 | 83.2 | 530 | 412.6 | 95.7 |
| 11 | 10.7 | 02.5 | 71 | 69.2 | 16.0 | 131 | 127.6 | 69.5 | 191 | 186.1 | 43.0 | 251 | 244.6 | 56.5 | 311 | 303.6 | 69.2 | 371 | 361.5 | 83.4 | 431 | 420.6 | 98.9 |
| 12 | 11.7 | 52.7 | 76 | 70.2 | 18.2 | 132 | 128.6 | 69.7 | 192 | 107.1 | 43.2 | 252 | 245.5 | 86.7 | 312 | 304.8 | 78.2 | 372 | 366.5 | 83.7 | 132 | 420.9 | 97.1 |
| 13 | 12.7 | 52.9 | 73 | 71.1 | 15.4 | 133 | 129.6 | 29.9 | 163 | 188.1 | 43.4 | 253 | 246.5 | 58.2 | 313 | 305.0 | 76.4 | 373 | 353.4 | 83.9 | 433 | 421.9 | 97.4 |
| 14 | 13.6 | 53.1 | 74 | 72.1 | 16.6 | 134 | 135.6 | 30.1 | 124 | 189.8 | 43.6 | 254 | 247.5 | 87.1 | 314 | 305.5 | 75.6 | 374 | 364.4 | 84.1 | 134 | 466.9 | 97.6 |
| 15 | 14.8 | 03.4 | 75 | 73.1 | 18.9 | 135 | 131.5 | 30.4 | 125 | 160.5 | 43.9 | 255 | 248.5 | 87.4 | 315 | 305.2 | 78.8 | 375 | 385.4 | 01.3 | 135 | 423.9 | 97.0 |
| 16 | 15.8 | 83.6 | 76 | 74.1 | 17.1 | 138 | 132.8 | 30.5 | 128 | 191.0 | 44.1 | 256 | 649.4 | 87.6 | 316 | 307.2 | 71.1 | 376 | 366.4 | 84.6 | 136 | 124.6 | 98.0 |
| 17 | 16.8 | 83.8 | 77 | 75.0 | 17.3 | 137 | 133.6 | 30.0 | 197 | 122.5 | 44.3 | 257 | 650.4 | 87.6 | 317 | 355.6 | 71.3 | 377 | 387.3 | 04.8 | 137 | 425.8 | 98.3 |
| 10 | 17.5 | 84.0 | 78 | 76.0 | 17.8 | 138 | 134.6 | 31.0 | 190 | 192.6 | 44.5 | 258 | 251.4 | 85.5 | 310 | 309.6 | 71.8 | 370 | 366.3 | 65.0 | 430 | 428.8 | 20.5 |
| 16 | 15.5 | 84.3 | 79 | 77.0 | 17.8 | 139 | 138.4 | 31.3 | 199 | 163.6 | 44.0 | 252 | 252.4 | 58.3 | 316 | 316.5 | 71.7 | 376 | 382.3 | 85.2 | 439 | 467.8 | 68.7 |
| 60 | 12.5 | 04.5 | 60 | 77.9 | 10.8 | 140 | 138.4 | 31.5 | 200 | 164.9 | 45.0 | 260 | 253.3 | 38.5 | 360 | 311.6 | 72.8 | 385 | 378.3 | 85.5 | 145 | 426.7 | 98.9 |
| 21 | 20.5 | 04.7 | 81 | 78.2 | 18.2 | 141 | 137.4 | 31.7 | 201 | 195.8 | 46.2 | 261 | 254.3 | 38.7 | 361 | 312.0 | 76.2 | 301 | 371.2 | 85.7 | 141 | 429.7 | 92.2 |
| 22 | 61.4 | 04.9 | 02 | 79.2 | 10.4 | 142 | 138.4 | 31.2 | 202 | 198.6 | 43.4 | 262 | 255.3 | 58.9 | 366 | 313.8 | 72.4 | 302 | 372.6 | 05.9 | 142 | 430.7 | 99.4 |
| 23 | 22.4 | 08.2 | 63 | 80.6 | 18.7 | 143 | 136.3 | 36.6 | 203 | 197.0 | 46.7 | 283 | 256.3 | 56.2 | 323 | 314.7 | 76.6 | 383 | 373.6 | 85.1 | 143 | 431.6 | 92.8 |
| 24 | 63.4 | 05.4 | 84 | 01.8 | 18.9 | 144 | 145.3 | 32.4 | 204 | 198.8 | 48.2 | 254 | 257.6 | 86.4 | 324 | 315.7 | 76.2 | 384 | 374.2 | 86.4 | 144 | 436.6 | 99.8 |
| 25 | 24.4 | 05.6 | 85 | 82.8 | 19.1 | 145 | 141.3 | 32.6 | 255 | 162.7 | 48.1 | 265 | 635.6 | 82.5 | 325 | 316.7 | 73.1 | 305 | 375.1 | 85.6 | 145 | 433.6 | 100.1 |
| 26 | 65.3 | 05.0 | 68 | 03.8 | 19.3 | 145 | 142.3 | 32.8 | 206 | 606.7 | 48.3 | 285 | 256.2 | 82.0 | 325 | 317.6 | 73.3 | 306 | 376.1 | 86.8 | 446 | 434.8 | 105.3 |
| 27 | 28.3 | 08.1 | 87 | 84.8 | 19.6 | 147 | 143.6 | 33.1 | 207 | 201.7 | 46.8 | 287 | 260.2 | 80.1 | 327 | 316.6 | 73.8 | 307 | 377.1 | 07.0 | 117 | 135.6 | 100.5 |
| 68 | 67.3 | 06.3 | 88 | 05.7 | 19.8 | 148 | 144.6 | 33.3 | 258 | 602.7 | 45.8 | 268 | 281.1 | 60.3 | 328 | 312.8 | 73.8 | 300 | 378.1 | 07.3 | 440 | 436.8 | 100.7 |
| 22 | 60.3 | 08.5 | 82 | 86.7 | 20.0 | 146 | 145.6 | 33.5 | 609 | 203.8 | 47.6 | 269 | 262.1 | 60.5 | 329 | 360.6 | 74.6 | 309 | 372.0 | 87.5 | 449 | 437.5 | 151.0 |
| 30 | 29.2 | 06.7 | 90 | 87.7 | 60.2 | 155 | 146.6 | 33.7 | 216 | 204.6 | 47.6 | 275 | 263.1 | 60.7 | 330 | 321.5 | 74.6 | 390 | 388.0 | 87.7 | 450 | 438.6 | 101.2 |
| 31 | 30.2 | 07.5 | 21 | 88.7 | 60.5 | 151 | 147.1 | 34.0 | 211 | 205.8 | 47.8 | 271 | 264.1 | 61.0 | 331 | 322.5 | 74.4 | 391 | 381.0 | 87.9 | 451 | 439.4 | 101.4 |
| 36 | 31.6 | 67.2 | 22 | 89.6 | 20.7 | 152 | 148.1 | 34.2 | 216 | 206.0 | 47.7 | 672 | 265.6 | 61.2 | 332 | 323.5 | 74.7 | 392 | 389.0 | 08.2 | 452 | 445.4 | 101.6 |
| 33 | 32.2 | 57.4 | 63 | 90.6 | 20.9 | 153 | 149.1 | 34.4 | 213 | 207.5 | 47.6 | 273 | 266.6 | 61.4 | 333 | 364.8 | 74.2 | 323 | 382.9 | 88.4 | 153 | 411.4 | 101.9 |
| 34 | 83.1 | 67.5 | 94 | 91.8 | 61.1 | 154 | 150.1 | 34.6 | 214 | 208.8 | 48.1 | 274 | 267.5 | 61.6 | 334 | 368.4 | 75.1 | 324 | 303.9 | 88.6 | 454 | 442.4 | 106.1 |
| 35 | 34.1 | 67.9 | 25 | 96.6 | 61.4 | 155 | 151.0 | 34.2 | 218 | 209.8 | 48.4 | 278 | 668.6 | 61.9 | 335 | 326.4 | 78.3 | 396 | 304.9 | 88.8 | 455 | 443.3 | 102.3 |
| 38 | 35.1 | 68.1 | 98 | 93.8 | 21.5 | 156 | 152.5 | 35.1 | 216 | 216.5 | 40.6 | 276 | 268.9 | 82.1 | 336 | 327.4 | 75.6 | 395 | 385.6 | 89.1 | 456 | 444.3 | 102.5 |
| 37 | 36.1 | 66.3 | 67 | 94.8 | 21.0 | 157 | 153.5 | 35.3 | 217 | 211.4 | 46.0 | 277 | 269.6 | 56.3 | 337 | 328.4 | 75.0 | 397 | 386.0 | 06.3 | 457 | 448.3 | 102.8 |
| 30 | 37.0 | 68.6 | 68 | 98.8 | 22.0 | 158 | 154.0 | 35.5 | 218 | 216.4 | 49.8 | 278 | 276.6 | 62.8 | 338 | 322.3 | 76.0 | 390 | 387.8 | 89.5 | 450 | 416.3 | 103.0 |
| 39 | 38.5 | 86.6 | 22 | 96.8 | 22.3 | 159 | 154.9 | 35.8 | 219 | 213.4 | 49.3 | 279 | 271.6 | 62.6 | 339 | 336.3 | 76.2 | 399 | 388.8 | 89.7 | 459 | 447.2 | 108.2 |
| 40 | 36.5 | 09.0 | 100 | 67.4 | 62.5 | 150 | 155.9 | 36.0 | 220 | 614.4 | 49.8 | 280 | 272.6 | 83.0 | 340 | 331.3 | 76.8 | 400 | 389.8 | 90.0 | 460 | 446.6 | 103.4 |
| 41 | 36.2 | 66.6 | 101 | 65.4 | 22 7 | 151 | 158.9 | 36.2 | 221 | 615.3 | 49.7 | 281 | 273.5 | 83.6 | 341 | 332.3 | 76.7 | 401 | 320.7 | 90.6 | 461 | 449.6 | 103.7 |
| 46 | 45.6 | 69.4 | 102 | 66.4 | 22.6 | 162 | 157.5 | 36.4 | 226 | 216.3 | 49.2 | 202 | 274.6 | 63.4 | 346 | 333.6 | 76.9 | 452 | 391.7 | 90.4 | 466 | 455.2 | 103.6 |
| 43 | 41.9 | 86.7 | 153 | 158.4 | 23.2 | 163 | 156.0 | 36.7 | 263 | 217.3 | 85.6 | 283 | 678.7 | 83.7 | 343 | 334.6 | 77.1 | 403 | 396.7 | 66.6 | 163 | 451.1 | 104.1 |
| 44 | 42.6 | 62.9 | 154 | 151.8 | 23.4 | 184 | 152.0 | 38.9 | 264 | 610.3 | 80.4 | 284 | 276.7 | 63.9 | 344 | 338.2 | 77.4 | 404 | 398.6 | 60.8 | 464 | 456.2 | 104.3 |
| 48 | 48.8 | 10.1 | 105 | 102.3 | 23.5 | 165 | 160.8 | 37.1 | 225 | 219.6 | 80.6 | 285 | 277.7 | 64.1 | 345 | 336.2 | 77.6 | 405 | 391.6 | 91.1 | 465 | 453.1 | 104.6 |
| 46 | 44.8 | 10.3 | 106 | 153.3 | 23.5 | 188 | 151.7 | 37.3 | 266 | 220.2 | 50.0 | 286 | 278.7 | 64.3 | 346 | 337.1 | 77.8 | 406 | 395.6 | 61.3 | 466 | 454.1 | 104.8 |
| 47 | 45.5 | 10.8 | 107 | 104.3 | 24.1 | 167 | 162.7 | 37.8 | 227 | 221.2 | 81.1 | 207 | 276.6 | 64.6 | 347 | 338.1 | 78.0 | 407 | 398.6 | 91.5 | 467 | 155.0 | 105.0 |
| 48 | 46.8 | 18.8 | 108 | 105.6 | 24.3 | 168 | 163.7 | 37.0 | 228 | 696.2 | 51.3 | 288 | 280.6 | 64.8 | 348 | 336.1 | 78.3 | 100 | 397.8 | 91.7 | 460 | 456.0 | 105.2 |
| 49 | 47.7 | 11.0 | 109 | 100.2 | 24.5 | 169 | 164.7 | 30.0 | 226 | 223.1 | 61.5 | 289 | 681.6 | 85.0 | 346 | 340.1 | 78.8 | 409 | 398.8 | 62.6 | 469 | 457.0 | 105.5 |
| 88 | 46.7 | 11.2 | 110 | 167.6 | 24.7 | 170 | 165.8 | 38.2 | 230 | 224.1 | 61.7 | 290 | 686.6 | 66.2 | 350 | 341.0 | 78.7 | 410 | 399.6 | 96.6 | 475 | 458.0 | 105.7 |
| 81 | 49.7 | 11.5 | 111 | 108.6 | 65.0 | 171 | 168.6 | 38.5 | 231 | 228.1 | 82.0 | 291 | 283.8 | 85.5 | 351 | 342.0 | 78.2 | 411 | 400.6 | 92.4 | 471 | 488.9 | 105.9 |
| 62 | 80.7 | 11.7 | 112 | 106.1 | 25.2 | 172 | 157.8 | 38.7 | 232 | 226.1 | 82.2 | 292 | 284.5 | 85.7 | 352 | 343.0 | 79.2 | 412 | 401.4 | 92.6 | 472 | 452.9 | 106.1 |
| 53 | 61.8 | 11.2 | 113 | 110.1 | 25.4 | 173 | 100.5 | 30.9 | 633 | 627.8 | 82.4 | 293 | 285.6 | 65.9 | 353 | 344.0 | 76.4 | 413 | 406.4 | 92.9 | 473 | 460.9 | 108.4 |
| 54 | 82.8 | 12.1 | 114 | 111.1 | 65.8 | 174 | 182.5 | 36.1 | 234 | 260.6 | 86.8 | 294 | 286.8 | 66.1 | 354 | 344.9 | 79.6 | 414 | 403.4 | 93.1 | 474 | 461.2 | 106.5 |
| 55 | 83.6 | 12.4 | 115 | 116.1 | 65.6 | 175 | 170.5 | 32.4 | 235 | 229.0 | 52.2 | 295 | 287.4 | 86.4 | 355 | 345.9 | 72.8 | 415 | 404.4 | 93.3 | 475 | 466.0 | 100.8 |
| 56 | 84.6 | 12.8 | 118 | 113.0 | 28.1 | 170 | 171.5 | 39.6 | 635 | 230.8 | 53.1 | 228 | 288.4 | 65.6 | 358 | 346.9 | 00.1 | 416 | 405.3 | 93.8 | 476 | 463.6 | 107.5 |
| 87 | 65.5 | 12.0 | 117 | 114.0 | 26.3 | 177 | 172.8 | 36.8 | 237 | 230.9 | .83.3 | 297 | 209.4 | 66.8 | 357 | 347.9 | 80.3 | 417 | 406.3 | 93.8 | 477 | 464.8 | 107.3 |
| 58 | 66.8 | 13.0 | 118 | 115.6 | 28.5 | 178 | 173.4 | 40.0 | 238 | 231.9 | 53.5 | 290 | 295.4 | 87.5 | 388 | 340.0 | 80.5 | 410 | 407.3 | 94.0 | 470 | 465.0 | 107.8 |
| 32 | 67.8 | 13.3 | 119 | 116.8 | 26.6 | 179 | 174.4 | 40.3 | 239 | 632.2 | 83.8 | 299 | 291.3 | 67.3 | 359 | 349.8 | 06.7 | 419 | 406.3 | 94.2 | 479 | 468.7 | 107.7 |
| 65 | 58.8 | 13.8 | 120 | 116.9 | 27.0 | 180 | 175.4 | 40.8 | 240 | 233.8 | 84.0 | 306 | 292.3 | 67.8 | 360 | 350.0 | 81.0 | 420 | 409.2 | 64.4 | 400 | 467.7 | 107.9 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 8.ᵐ **Para 77 grados.** 6.ʰ 52.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

0.ʰ 56.ᵐ — Para 14 grados. — 11.ʰ 4.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.2 | 61 | 59.2 | 14.8 | 121 | 117.4 | 20.9 | 181 | 175.6 | 43.8 | 241 | 233.8 | 58.3 | 301 | 292.0 | 72.8 | 361 | 350.2 | 87.3 | 421 | 408.5 | 101.0 |
| 2 | 01.0 | 00.5 | 62 | 60.2 | 15.0 | 122 | 110.4 | 20.5 | 182 | 176.6 | 44.0 | 242 | 234.8 | 58.5 | 302 | 293.0 | 73.0 | 362 | 351.2 | 87.6 | 422 | 409.4 | 102.1 |
| 3 | 02.9 | 00.7 | 53 | 61.1 | 15.2 | 193 | 112.3 | 29.8 | 183 | 177.6 | 44.3 | 243 | 235.8 | 68.8 | 363 | 294.8 | 73.3 | 363 | 352.2 | 87.8 | 423 | 410.4 | 102.3 |
| 4 | 03.9 | 01.0 | 64 | 62.1 | 15.5 | 124 | 120.3 | 30.0 | 184 | 178.5 | 44.5 | 244 | 236.8 | 59.0 | 304 | 294.9 | 73.5 | 364 | 353.2 | 88.0 | 424 | 411.4 | 109.6 |
| 5 | 04.2 | 01.2 | 65 | 63.1 | 15.7 | 195 | 121.3 | 30.2 | 185 | 179.5 | 44.8 | 245 | 237.7 | 59.3 | 305 | 295.9 | 73.8 | 365 | 354.1 | 88.3 | 425 | 412.3 | 102.0 |
| 6 | 05.9 | 01.5 | 66 | 64.0 | 16.0 | 126 | 122.3 | 30.6 | 186 | 180.5 | 45.0 | 246 | 938.7 | 59.5 | 306 | 296.9 | 74.0 | 366 | 355.1 | 88.5 | 426 | 413.3 | 103.0 |
| 7 | 06.8 | 01.7 | 67 | 55.0 | 16.2 | 127 | 123.2 | 30.7 | 187 | 181.4 | 45.2 | 247 | 239.7 | 59.8 | 307 | 297.8 | 74.2 | 367 | 355.1 | 88.8 | 427 | 414.3 | 103.3 |
| 8 | 07.6 | 01.0 | 68 | 55.0 | 16.5 | 128 | 124.2 | 31.0 | 188 | 182.4 | 45.5 | 248 | 240.6 | 60.0 | 308 | 298.0 | 74.5 | 368 | 357.0 | 89.0 | 428 | 415.3 | 103.5 |
| 9 | 08.7 | 02.2 | 69 | 67.0 | 15.7 | 129 | 125.2 | 31.2 | 180 | 103.4 | 46.7 | 249 | 241.6 | 60.2 | 309 | 999.8 | 74.7 | 369 | 358.0 | 89.2 | 429 | 416.2 | 103.8 |
| 10 | 09.7 | 82.4 | 70 | 67.9 | 16.0 | 130 | 126.1 | 31.4 | 190 | 184.4 | 45.0 | 250 | 242.6 | 60.5 | 310 | 300.8 | 75.0 | 370 | 359.0 | 89.5 | 430 | 417.2 | 104.0 |
| 11 | 10.7 | 02.7 | 71 | 68.0 | 17.2 | 131 | 127.1 | 31.7 | 191 | 185.3 | 46.2 | 251 | 243.5 | 60.7 | 311 | 301.7 | 75.2 | 371 | 359.0 | 89.7 | 431 | 416.2 | 104.2 |
| 12 | 11.6 | 02.9 | 72 | 69.9 | 17.4 | 132 | 126.1 | 31.9 | 192 | 186.3 | 46.4 | 252 | 244.5 | 61.0 | 312 | 302.7 | 75.5 | 372 | 360.9 | 90.0 | 432 | 410.1 | 104.5 |
| 13 | 12.5 | 03.1 | 73 | 70.8 | 17.7 | 133 | 129.0 | 32.2 | 193 | 187.3 | 46.7 | 253 | 245.6 | 61.2 | 313 | 303.7 | 75.7 | 373 | 351.0 | 90.2 | 433 | 420.1 | 104.7 |
| 14 | 13.5 | 03.4 | 74 | 71.0 | 17.9 | 134 | 130.0 | 32.4 | 194 | 188.2 | 46.9 | 254 | 246.5 | 51.4 | 314 | 304.5 | 76.9 | 374 | 359.0 | 90.5 | 434 | 421.1 | 105.0 |
| 15 | 14.6 | 03.5 | 75 | 72.8 | 18.1 | 135 | 131.0 | 32.7 | 196 | 189.2 | 47.2 | 255 | 247.4 | 51.7 | 315 | 305.5 | 76.2 | 375 | 363.8 | 90.7 | 435 | 422.0 | 105.2 |
| 16 | 15.5 | 03.0 | 75 | 73.7 | 18.4 | 136 | 132.0 | 32.0 | 105 | 190.2 | 47.4 | 256 | 248.4 | 51.9 | 316 | 306.6 | 76.4 | 375 | 364.8 | 00.9 | 436 | 423.0 | 105.5 |
| 17 | 15.5 | 04.1 | 77 | 74.7 | 18.6 | 137 | 132.9 | 33.1 | 107 | 191.1 | 47.7 | 257 | 249.4 | 52.2 | 317 | 307.5 | 76.7 | 377 | 355.8 | 91.9 | 437 | 424.0 | 105.7 |
| 18 | 17.5 | 04.4 | 78 | 75.7 | 10.0 | 138 | 133.9 | 33.4 | 198 | 192.1 | 47.9 | 258 | 250.3 | 52.4 | 318 | 308.5 | 76.9 | 378 | 366.7 | 91.4 | 438 | 425.0 | 105.9 |
| 19 | 18.4 | 04.6 | 70 | 76.7 | 19.1 | 130 | 134.9 | 33.6 | 199 | 193.1 | 48.1 | 259 | 251.3 | 52.7 | 319 | 309.5 | 77.2 | 379 | 367.7 | 91.7 | 439 | 425.9 | 105.2 |
| 20 | 19.4 | 84.8 | 80 | 77.6 | 19.4 | 140 | 135.0 | 33.9 | 200 | 194.1 | 46.4 | 260 | 252.3 | 62.9 | 320 | 310.5 | 77.4 | 380 | 368.7 | 91.9 | 440 | 426.9 | 106.4 |
| 21 | 20.4 | 05.1 | 61 | 70.5 | 19.5 | 141 | 136.0 | 34.1 | 201 | 195.0 | 48.5 | 261 | 253.2 | 63.1 | 321 | 311.4 | 77.6 | 381 | 369.6 | 92.2 | 441 | 427.9 | 106.7 |
| 22 | 21.3 | 85.3 | 82 | 79.6 | 19.8 | 142 | 137.8 | 34.4 | 202 | 196.0 | 48.9 | 262 | 254.2 | 63.4 | 322 | 312.4 | 77.9 | 389 | 370.6 | 92.4 | 442 | 428.8 | 186.9 |
| 23 | 22.3 | 85.5 | 83 | 80.6 | 20.1 | 143 | 138.8 | 34.5 | 203 | 197.0 | 49.1 | 263 | 256.2 | 53.6 | 323 | 313.4 | 70.1 | 383 | 371.6 | 92.6 | 443 | 429.8 | 107.1 |
| 24 | 23.3 | 85.8 | 84 | 81.5 | 20.3 | 144 | 139.7 | 34.8 | 204 | 107.9 | 40.4 | 264 | 255.2 | 63.9 | 324 | 314.3 | 78.4 | 384 | 372.6 | 92.9 | 444 | 430.6 | 107.4 |
| 25 | 24.3 | 06.0 | 85 | 82.5 | 20.5 | 145 | 140.7 | 35.1 | 205 | 198.9 | 49.5 | 265 | 257.1 | 64.1 | 325 | 315.3 | 78.6 | 385 | 373.5 | 93.1 | 445 | 431.7 | 107.5 |
| 26 | 25.9 | 05.3 | 86 | 83.4 | 20.8 | 145 | 141.7 | 35.3 | 206 | 199.9 | 40.8 | 266 | 258.1 | 64.4 | 326 | 316.3 | 78.8 | 386 | 374.5 | 93.4 | 445 | 432.7 | 107.9 |
| 27 | 26.2 | 85.5 | 87 | 04.4 | 21.0 | 147 | 142.6 | 35.6 | 207 | 200.9 | 50.1 | 267 | 259.1 | 64.5 | 327 | 317.3 | 79.1 | 387 | 375.5 | 93.6 | 447 | 433.7 | 108.1 |
| 28 | 27.2 | 86.8 | 88 | 85.4 | 21.3 | 140 | 143.5 | 35.8 | 208 | 201.8 | 50.3 | 268 | 260.0 | 54.8 | 328 | 318.2 | 72.3 | 388 | 376.4 | 93.8 | 446 | 434.7 | 108.4 |
| 29 | 28.1 | 07.0 | 89 | 86.4 | 21.5 | 140 | 144.6 | 36.0 | 209 | 902.8 | 50.5 | 269 | 251.0 | 65.1 | 329 | 310.2 | 79.6 | 389 | 377.4 | 24.1 | 440 | 435.6 | 108.6 |
| 30 | 29.1 | 87.3 | 00 | 67.3 | 21.0 | 150 | 145.5 | 36.3 | 210 | 203.8 | 50.8 | 270 | 252.0 | 65.3 | 330 | 320.2 | 79.8 | 390 | 378.4 | 94.3 | 450 | 436.5 | 100.8 |
| 31 | 30.1 | 07.5 | 91 | 88.3 | 22.0 | 151 | 146.5 | 36.5 | 211 | 204.7 | 51.0 | 271 | 263.0 | 55.6 | 331 | 321.1 | 80.1 | 391 | 370.4 | 94.6 | 451 | 437.6 | 109.1 |
| 32 | 31.0 | 07.7 | 92 | 89.3 | 22.3 | 152 | 147.5 | 36.8 | 212 | 205.7 | 51.3 | 279 | 253.9 | 65.8 | 332 | 329.1 | 80.3 | 392 | 380.3 | 94.8 | 452 | 438.5 | 100.3 |
| 33 | 32.0 | 08.0 | 93 | 90.2 | 22.5 | 153 | 148.5 | 37.0 | 213 | 206.7 | 51.5 | 273 | 254.9 | 66.0 | 333 | 323.1 | 80.5 | 393 | 381.3 | 95.1 | 453 | 439.5 | 100.6 |
| 34 | 33.0 | 08.2 | 04 | 91.2 | 29.7 | 154 | 149.4 | 37.2 | 214 | 207.6 | 51.8 | 274 | 265.9 | 66.3 | 334 | 324.0 | 80.8 | 394 | 382.3 | 95.3 | 454 | 440.5 | 109.8 |
| 35 | 34.0 | 06.5 | 95 | 92.2 | 23.0 | 155 | 150.4 | 37.5 | 215 | 208.6 | 52.0 | 275 | 966.8 | 66.5 | 335 | 325.0 | 81.0 | 395 | 383.2 | 95.5 | 465 | 441.5 | 110.1 |
| 36 | 34.9 | 08.7 | 96 | 93.1 | 23.2 | 136 | 151.4 | 37.7 | 216 | 209.6 | 52.3 | 276 | 257.8 | 66.8 | 336 | 326.0 | 81.3 | 396 | 384.2 | 95.8 | 455 | 442.4 | 110.3 |
| 37 | 35.9 | 02.0 | 97 | 94.1 | 93.5 | 157 | 152.3 | 38.0 | 217 | 210.5 | 52.6 | 277 | 268.8 | 67.0 | 337 | 327.0 | 81.5 | 397 | 385.2 | 96.0 | 457 | 443.4 | 110.5 |
| 38 | 36.9 | 09.2 | 98 | 95.1 | 23.7 | 158 | 153.3 | 38.2 | 218 | 211.5 | 52.7 | 278 | 269.7 | 67.3 | 338 | 327.9 | 81.7 | 398 | 386.1 | 96.3 | 458 | 444.4 | 110.8 |
| 39 | 37.8 | 09.4 | 90 | 96.1 | 21.0 | 159 | 154.3 | 38.5 | 219 | 212.5 | 53.0 | 279 | 270.7 | 67.5 | 330 | 328.9 | 82.0 | 390 | 387.1 | 96.5 | 459 | 445.3 | 111.0 |
| 40 | 38.8 | 09.7 | 100 | 97.0 | 24.2 | 160 | 155.2 | 38.7 | 220 | 213.5 | 53.9 | 280 | 271.7 | 67.7 | 340 | 329.9 | 89.2 | 400 | 388.1 | 96.7 | 460 | 446.3 | 111.3 |
| 41 | 39.8 | 82.9 | 101 | 08.0 | 24.4 | 161 | 156.2 | 38.9 | 221 | 214.4 | 53.5 | 281 | 272.7 | 68.0 | 341 | 330.0 | 82.5 | 401 | 389.1 | 97.0 | 461 | 447.3 | 111.5 |
| 42 | 48.8 | 10.2 | 102 | 99.0 | 24.7 | 162 | 157.2 | 39.2 | 222 | 215.4 | 53.7 | 282 | 273.6 | 58.2 | 342 | 331.8 | 82.7 | 402 | 390.0 | 97.2 | 462 | 448.2 | 111.7 |
| 43 | 41.7 | 10.4 | 103 | 99.2 | 94.9 | 153 | 158.2 | 39.4 | 223 | 216.4 | 53.9 | 283 | 274.6 | 68.5 | 343 | 332.8 | 83.0 | 403 | 391.8 | 07.5 | 453 | 449.2 | 112.0 |
| 44 | 42.7 | 10.6 | 104 | 100.9 | 25.2 | 154 | 159.1 | 39.7 | 224 | 917.3 | 54.2 | 284 | 275.5 | 60.7 | 344 | 333.7 | 83.2 | 104 | 392.0 | 97.7 | 464 | 450.2 | 112.2 |
| 45 | 43.7 | 10.9 | 105 | 101.0 | 25.4 | 165 | 160.1 | 39.9 | 225 | 218.3 | 54.4 | 285 | 276.5 | 50.9 | 345 | 334.7 | 83.4 | 405 | 392.9 | 96.0 | 465 | 451.2 | 112.5 |
| 46 | 44.6 | 11.1 | 106 | 102.9 | 25.6 | 166 | 161.1 | 40.2 | 226 | 919.3 | 54.7 | 286 | 277.5 | 59.2 | 346 | 335.7 | 83.7 | 406 | 303.2 | 90.2 | 466 | 452.1 | 112.7 |
| 47 | 45.6 | 11.4 | 107 | 103.8 | 25.9 | 167 | 162.0 | 40.4 | 227 | 220.3 | 54.9 | 287 | 270.5 | 69.4 | 347 | 336.7 | 83.9 | 407 | 321.9 | 08.4 | 467 | 453.1 | 113.0 |
| 48 | 46.6 | 11.6 | 108 | 104.8 | 26.1 | 168 | 163.0 | 40.6 | 298 | 221.2 | 55.2 | 288 | 279.4 | 69.7 | 348 | 337.5 | 84.9 | 408 | 395.8 | 98.7 | 458 | 454.1 | 113.2 |
| 40 | 47.5 | 11.9 | 109 | 105.8 | 26.4 | 169 | 164.0 | 40.9 | 229 | 222.2 | 55.4 | 289 | 280.4 | 69.9 | 349 | 330.5 | 81.4 | 400 | 396.8 | 98.9 | 469 | 455.0 | 113.4 |
| 50 | 48.5 | 12.1 | 110 | 105.7 | 26.6 | 170 | 165.0 | 41.1 | 230 | 223.2 | 55.6 | 290 | 281.4 | 70.9 | 350 | 339.6 | 84.7 | 410 | 397.0 | 90.2 | 470 | 456.0 | 113.7 |
| 51 | 49.5 | 12.3 | 111 | 107.7 | 26.9 | 171 | 165.9 | 41.4 | 231 | 224.1 | 65.9 | 291 | 282.4 | 70.4 | 351 | 340.5 | 84.9 | 411 | 398.8 | 99.4 | 471 | 457.0 | 113.9 |
| 52 | 50.5 | 12.6 | 112 | 108.7 | 27.1 | 172 | 166.9 | 41.5 | 239 | 225.1 | 66.1 | 992 | 283.3 | 70.5 | 352 | 341.5 | 05.1 | 412 | 399.7 | 90.7 | 472 | 457.9 | 114.2 |
| 53 | 51.4 | 12.8 | 113 | 109.6 | 27.3 | 173 | 167.9 | 41.9 | 233 | 226.1 | 56.4 | 203 | 284.3 | 70.9 | 363 | 342.5 | 85.4 | 413 | 400.7 | 99.9 | 473 | 458.9 | 114.4 |
| 54 | 52.4 | 13.1 | 114 | 110.6 | 97.5 | 174 | 168.6 | 42.1 | 234 | 227.0 | 56.6 | 294 | 286.3 | 71.1 | 354 | 343.5 | 05.6 | 414 | 401.7 | 100.1 | 474 | 459.0 | 114.6 |
| 55 | 53.4 | 13.3 | 115 | 111.6 | 97.8 | 175 | 169.0 | 42.3 | 235 | 220.0 | 56.0 | 995 | 286.2 | 71.4 | 355 | 344.4 | 05.0 | 415 | 402.6 | 100.4 | 475 | 460.0 | 114.9 |
| 56 | 54.3 | 13.5 | 116 | 112.6 | 28.1 | 176 | 170.8 | 42.6 | 235 | 220.0 | 57.1 | 205 | 287.2 | 71.5 | 355 | 345.4 | 85.1 | 416 | 403.5 | 100.6 | 476 | 461.8 | 115.1 |
| 57 | 55.3 | 13.8 | 117 | 113.5 | 98.3 | 177 | 171.7 | 42.8 | 237 | 930.0 | 57.3 | 297 | 280.2 | 71.9 | 357 | 346.4 | 86.3 | 417 | 404.5 | 100.9 | 477 | 462.8 | 115.4 |
| 58 | 55.3 | 14.0 | 118 | 114.5 | 98.5 | 178 | 172.7 | 43.1 | 238 | 230.9 | 57.6 | 298 | 280.1 | 72.1 | 358 | 347.3 | 86.5 | 418 | 405.5 | 101.1 | 470 | 463.8 | 115.6 |
| 50 | 57.2 | 14.3 | 110 | 115.5 | 28.8 | 179 | 173.7 | 43.3 | 230 | 231.9 | 57.0 | 200 | 200.1 | 72.3 | 350 | 346.3 | 85.8 | 410 | 406.5 | 101.3 | 479 | 464.7 | 115.9 |
| 50 | 58.2 | 14.5 | 120 | 116.4 | 29.0 | 180 | 174.7 | 43.5 | 240 | 232.0 | 58.1 | 300 | 291.1 | 72.5 | 360 | 342.3 | 87.1 | 420 | 407.5 | 101.6 | 400 | 465.7 | 115.1 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 4.ᵐ — Para 76 grados. — 6.ʰ 56.ᵐ

**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

**1.h 0.m** **Para 15 grados.** **11.h 0.m**

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.3 | 61 | 58.2 | 15.8 | 121 | 116.9 | 31.3 | 181 | 174.8 | 46.8 | 241 | 232.6 | 62.4 | 301 | 290.7 | 77.9 | 361 | 348.7 | 93.4 | 421 | 460.6 | 109.0 |
| 2 | 81.2 | 60.5 | 62 | 09.2 | 16.0 | 122 | 117.8 | 31.6 | 162 | 176.6 | 47.1 | 242 | 233.0 | 62.6 | 302 | 291.7 | 78.2 | 362 | 342.6 | 23.7 | 422 | 407.6 | 102.2 |
| 3 | 82.2 | 06.6 | 63 | 60.2 | 16.3 | 123 | 118.6 | 31.6 | 163 | 176.6 | 47.4 | 243 | 234.7 | 02.9 | 303 | 292.7 | 76.4 | 363 | 350.3 | 94.0 | 423 | 406.6 | 109.5 |
| 4 | 83.9 | 81.6 | 64 | 61.8 | 16.6 | 124 | 119.6 | 32.1 | 164 | 177.7 | 47.0 | 244 | 235.7 | 63.2 | 304 | 293.6 | 78.7 | 364 | 351.3 | 94.2 | 424 | 409.6 | 109.7 |
| 0 | 04.6 | 01.3 | 65 | 32.6 | 16.8 | 125 | 120.7 | 32.4 | 185 | 178.7 | 47.9 | 245 | 236.7 | 63.4 | 305 | 294.6 | 76.9 | 365 | 352.0 | 94.5 | 420 | 410.6 | 110.6 |
| 6 | 05.8 | 61.6 | 66 | 33.8 | 17.1 | 196 | 121.7 | 32.6 | 186 | 179.7 | 46.1 | 246 | 237.3 | 63.7 | 366 | 295.3 | 72.2 | 366 | 353.0 | 94.7 | 423 | 411.3 | 110.3 |
| 7 | 06.8 | 01.8 | 37 | 34.7 | 17.3 | 127 | 122.7 | 32.9 | 187 | 180.6 | 46.4 | 247 | 238.6 | 33.9 | 307 | 296.0 | 72.5 | 367 | 354.6 | 25.0 | 127 | 412.4 | 110.5 |
| 8 | 07.7 | 62.1 | 68 | 63.7 | 17.6 | 128 | 123.6 | 33.1 | 188 | 181.0 | ·46.7 | 940 | 932.0 | 64.2 | 308 | 227.6 | 72.7 | 368 | 353.4 | 95.3 | 426 | 413.4 | 116.8 |
| 2 | 08.7 | 02.3 | 62 | 66.3 | 27.9 | 199 | 124.6 | 33.4 | 189 | 182.6 | 48.9 | 249 | 248.0 | 34.4 | 309 | 298.4 | 80.0 | 362 | 356.4 | 23.5 | 429 | 414.4 | 111.0 |
| 10 | 69.7 | 62.6 | 70 | 67.0 | 16.1 | 130 | 120.3 | 33.6 | 190 | 183.6 | 49.2 | 250 | 241.6 | 34.7 | 310 | 299.4 | 60.2 | 370 | 357.4 | 95.8 | 430 | 415.3 | 111.3 |
| 11 | 10.6 | 02.8 | 71 | 68.6 | 18.4 | 151 | 126.3 | 33.9 | 191 | 184.3 | 49.4 | 251 | 242.4 | 63.6 | 311 | 306.4 | 80.3 | 371 | 358.3 | 96.0 | 131 | 416.3 | 111.6 |
| 12 | 11.3 | 03.1 | 72 | 62.5 | 18.6 | 139 | 127 6 | 34.2 | 192 | 165.6 | 49.7 | 252 | 243.4 | 65.2 | 312 | 361.3 | 80.0 | 372 | 359.3 | 96.3 | 432 | 417.3 | 111.8 |
| 13 | 12.6 | 03.4 | 73 | 76.5 | 16.2 | 133 | 128.5 | 34.4 | 193 | 186.4 | 56.0 | 253 | 244.4 | 65.3 | 313 | 302.3 | 81.0 | 373 | 360.3 | 96.5 | 433 | 410.2 | 112.1 |
| 14 | 13.6 | 03.6 | 74 | 71.6 | 12.2 | 134 | 122.4 | 34.7 | 194 | 187.4 | 50.2 | 254 | 240.3 | 30.7 | 314 | 303.3 | 61.3 | 374 | 361.2 | 96.8 | 434 | 419.2 | 112.3 |
| 15 | 14.0 | 03.9 | 75 | 72.4 | 19.4 | 135 | 138.4 | 34.9 | 195 | 166.4 | 08.5 | 255 | 240.3 | 03.0 | 315 | 304.2 | 61.5 | 476 | 362.2 | 97.1 | 435 | 420.2 | 119.6 |
| 16 | 10.3 | 04.1 | 76 | 73.4 | 19.7 | 130 | 131.4 | 35.2 | 196 | 162.3 | 30.7 | 256 | 247.3 | 33.3 | 316 | 300.2 | 61.8 | 376 | 363.2 | 97.3 | 136 | 421.1 | 112.9 |
| 17 | 10 4 | 04.4 | 77 | 74.4 | 19.2 | 137 | 132.3 | 36.5 | 197 | 190.3 | 51.0 | 257 | 246.2 | 30.5 | 317 | 306.2 | 82.1 | 377 | 364.1 | 97.6 | 437 | 422.1 | 113.1 |
| 18 | 17.4 | 04.7 | 78 | 75.3 | 20.2 | 138 | 133.3 | 33.7 | 198 | 121.3 | 51.2 | 256 | 242.2 | 30.0 | 318 | 367.1 | 62.3 | 376 | 365.1 | 97.8 | 438 | 493.1 | 113.4 |
| 19 | 18.4 | 04.9 | 79 | 73.3 | 20.4 | 132 | 134.3 | 36.0 | 199 | 122.2 | 31.0 | 252 | 230.2 | 07.0 | 319 | 306.1 | 82.0 | 372 | 306.1 | 98.1 | 432 | 424.6 | 113.6 |
| 20 | 12.3 | 00.2 | 80 | 77.3 | 20.7 | 146 | 130.2 | 36.2 | 200 | 123.2 | 61.8 | 260 | 231.1 | 37.3 | 390 | 309.1 | 82.8 | 380 | 367.8 | 98.4 | 440 | 423.0 | 113.9 |
| 21 | 20.3 | 05.4 | 81 | 78.2 | 21.6 | 141 | 136.2 | 30.0 | 201 | 194.2 | 02.0 | 261 | 252.1 | 67.6 | 321 | 316.0 | 83.1 | 381 | 368.0 | 96.6 | 441 | 420.0 | 114.1 |
| 22 | 21.3 | 63.7 | 82 | 72.2 | 21.2 | 142 | 137.2 | 38.8 | 202 | 120.1 | 02.3 | 262 | 253.1 | 37.6 | 392 | 311.0 | 03.3 | 382 | 362.6 | 98.9 | 412 | 426.9 | 114.4 |
| 23 | 22.2 | 06.0 | 83 | 80.2 | 21.5 | 143 | 130.1 | 37.0 | 203 | 120.1 | 32.0 | 263 | 234.0 | 36.1 | 323 | 312.0 | 63.0 | 383 | 362.2 | 99.1 | 443 | 497.9 | 114.7 |
| 24 | 23.2 | 06.2 | 84 | 01.1 | 21.7 | 144 | 139.1 | 37.3 | 204 | 127.6 | 32.8 | 264 | 255.0 | 68.3 | 324 | 312 2 | 63.9 | 384 | 370.9 | 29.4 | 444 | 428.8 | 114.2 |
| 23 | 24.1 | 00.0 | 85 | 82.1 | 22.0 | 145 | 140.1 | 37.0 | 205 | 126.6 | 63.1 | 260 | 256.6 | 66.6 | 325 | 313.9 | 34.1 | 365 | 371.2 | 99.6 | 440 | 422.8 | 115.2 |
| 26 | 25.1 | 86.7 | 86 | 03.1 | 22.3 | 140 | 141.0 | 37.6 | 200 | 192.0 | 63.3 | 266 | 256.2 | 68.8 | 326 | 314.2 | 64.4 | 386 | 372.3 | 99.9 | 446 | 430.8 | 113.4 |
| 27 | 20.1 | 87.0 | 87 | 84.6 | 22.0 | 147 | 142.0 | 36.0 | 207 | 199.2 | 03.6 | 267 | 257.9 | 69.1 | 327 | 315.0 | 84.0 | 387 | 373.6 | 160.2 | 447 | 431.7 | 113.7 |
| 26 | 27.0 | 07.2 | 88 | 60.0 | 22.6 | 148 | 143.0 | 38.3 | 206 | 200.2 | 63.8 | 266 | 256.2 | 62.4 | 326 | 313.6 | 64.2 | 386 | 374.8 | 100.4 | 448 | 432.7 | 116.6 |
| 22 | 28.8 | 07.5 | 89 | 66.0 | 23.0 | 142 | 143.2 | 38 0 | 262 | 201.2 | 64.1 | 269 | 952.8 | 69.6 | 329 | 317.6 | 85.1 | 382 | 373.7 | 100.7 | 449 | 433.7 | 113.2 |
| 30 | 29.0 | 07.8 | 90 | 66.9 | 23.3 | 150 | 144.2 | 38.8 | 210 | 202.6 | 54.4 | 270 | 266.8 | 69.9 | 330 | 318.7 | 66.4 | 396 | 376.7 | 100.9 | 450 | 434.6 | 116.5 |
| 31 | 29.2 | 08.0 | 91 | 87.2 | 23.6 | 151 | 145.2 | 39.1 | 211 | 203.6 | 34.6 | 271 | 961.8 | 70.1 | 331 | 312.7 | 85.7 | 391 | 377.7 | 101.2 | 451 | 435.6 | 116.7 |
| 32 | 30.2 | 06.3 | 92 | 80.9 | 23.0 | 152 | 146.3 | 39.3 | 212 | 204.8 | 04.9 | 272 | 262.7 | 76.4 | 332 | 320.7 | 65.2 | 392 | 378.0 | 101.5 | 452 | 436.6 | 117.0 |
| 33 | 31.9 | 66.0 | 93 | 82.8 | 24.1 | 153 | 147.6 | 39.6 | 213 | 205.7 | 60.1 | 273 | 263.7 | 76.7 | 333 | 321.3 | 80.2 | 393 | 372.6 | 101.7 | 453 | 437.5 | 117.3 |
| 34 | 32.6 | 08.8 | 94 | 90.6 | 24.3 | 154 | 148.6 | 39.9 | 214 | 203.7 | 63.4 | 274 | 264.7 | 70.9 | 334 | 322.0 | 86.5 | 394 | 386.3 | 102.0 | 454 | 438.5 | 117.6 |
| 35 | 33.8 | 89.1 | 95 | 91.6 | 24.6 | 155 | 149.7 | 46.1 | 215 | 207.7 | 60.6 | 275 | 205.6 | 71.2 | 335 | 323.6 | 66.7 | 393 | 381.6 | 102.2 | 450 | 432.5 | 117.8 |
| 36 | 34.6 | 09.3 | 96 | 92.7 | 24.8 | 136 | 156.7 | 40.4 | 216 | 908.6 | 36.9 | 270 | 200.6 | 71.4 | 336 | 324.5 | 67.0 | 396 | 362.0 | 109.5 | 456 | 440.4 | 118.0 |
| 37 | 30.7 | 09.6 | 27 | 93.7 | 20.1 | 107 | 101.7 | 40.0 | 217 | 209.6 | 36.2 | 277 | 267.3 | 71.7 | 337 | 325 0 | 87.2 | 397 | 383.4 | 102.8 | 457 | 441.4 | 118.3 |
| 38 | 36.7 | 09.8 | 90 | 94.7 | 26.4 | 158 | 132.6 | 40.9 | 218 | 210.6 | 56.4 | 278 | 206.0 | 72.0 | 336 | 323.0 | 67.0 | 398 | 384.4 | 163.6 | 456 | 412.4 | 118.5 |
| 39 | 37.7 | 10.1 | 99 | 25.6 | 25.6 | 152 | 153.3 | 41.2 | 219 | 211.0 | 56.7 | 279 | 232.0 | 72.9 | 332 | 327.4 | 87.7 | 399 | 380.4 | 103.3 | 452 | 443.3 | 116.8 |
| 40 | 36.3 | 18.4 | 100 | 96.3 | 23.9 | 160 | 164.6 | 41.4 | 220 | 212.6 | 56.9 | 280 | 270.3 | 72.5 | 340 | 326.4 | 88.0 | 400 | 383.3 | 103.5 | 460 | 444.3 | 119.1 |
| 41 | 39.3 | 10.6 | 101 | 97.3 | 26.1 | 161 | 155.5 | 41.7 | 221 | 213.6 | 07.2 | 281 | 271.4 | 72.7 | 341 | 329.4 | 88.3 | 101 | 387.3 | 103.6 | 461 | 443.3 | 119.3 |
| 42 | 40.6 | 10.9 | 102 | 90.6 | 26.4 | 162 | 156.6 | 41.9 | 222 | 214.4 | 37.0 | 282 | 272.4 | 73.0 | 342 | 330.3 | 88.5 | 402 | 386.3 | 104.1 | 462 | 446.2 | 119.6 |
| 43 | 41.6 | 11.1 | 103 | 92.5 | 26.7 | 163 | 107.4 | 42.2 | 223 | 213.4 | 57.7 | 283 | 273.4 | 73.2 | 343 | 331.3 | 88.6 | 403 | 389.2 | 164.3 | 463 | 447.2 | 119.6 |
| 44 | 42.6 | 11.4 | 104 | 166.5 | 26.9 | 164 | 158.4 | 42.4 | 294 | 216.4 | 66.6 | 284 | 274.3 | 73.5 | 344 | 332.3 | 69.0 | 404 | 390.2 | 164.6 | 464 | 446.2 | 120.1 |
| 45 | 43.6 | 11.6 | 105 | 101.4 | 27.9 | 165 | 109.4 | 42.7 | 225 | 217.3 | 68.2 | 285 | 275.3 | 73.8 | 343 | 333.2 | 89.3 | 403 | 391.2 | 104.6 | 465 | 442.1 | 120.4 |
| 46 | 44.4 | 11.9 | 166 | 102.4 | 27.4 | 166 | 160.3 | 43.0 | 226 | 218.3 | 36.5 | 286 | 973.3 | 74.0 | 346 | 334.2 | 82.6 | 406 | 392.1 | 105.1 | 460 | 456.1 | 120.6 |
| 47 | 45.4 | 12.2 | 107 | 103.4 | 27.7 | 167 | 161.3 | 43.2 | 997 | 219.3 | 68.8 | 267 | 977.2 | 74.3 | 347 | 330.2 | 82.6 | 467 | 393.1 | 105.3 | 467 | 431.1 | 120.9 |
| 48 | 46.4 | 12.4 | 106 | 104.3 | 26.0 | 168 | 162.3 | 43.5 | 228 | 220.2 | 62.6 | 988 | 276.2 | 74.5 | 348 | 336.1 | 90.1 | 408 | 394.1 | 105.6 | 466 | 452.0 | 121.1 |
| 49 | 47.3 | 12.7 | 109 | 103.3 | 28.2 | 169 | 163.2 | 43.7 | 229 | 221.2 | 62.3 | 289 | 272.2 | 74.8 | 349 | 337.1 | 26.3 | 409 | 393.8 | 105.9 | 469 | 453.0 | 121.4 |
| 50 | 46.3 | 12.9 | 110 | 106.3 | 28.0 | 170 | 164.2 | 44.0 | 230 | 222.2 | 62.3 | 290 | 280.1 | 76.1 | 350 | 336.1 | 90.6 | 410 | 396.0 | 166.1 | 476 | 454.0 | 121.7 |
| 01 | 49.3 | 13.2 | 111 | 107.2 | 28.7 | 171 | 165.2 | 44.3 | 231 | 223.1 | 39.8 | 291 | 281.1 | 70.3 | 351 | 339.6 | 98.9 | 411 | 397.6 | 106.4 | 471 | 454.9 | 121.9 |
| 62 | 30.2 | 13.5 | 112 | 108.2 | 29.6 | 179 | 166.1 | 44.5 | 232 | 224.1 | 60.6 | 292 | 282.1 | 73.6 | 352 | 346.6 | 21.1 | 419 | 397.9 | 106.6 | 472 | 455.9 | 122.2 |
| 33 | 31.2 | 13.7 | 113 | 109.1 | 22.2 | 173 | 167.1 | 44.8 | 233 | 223.1 | 60.3 | 293 | 283.0 | 73.8 | 353 | 346.9 | 91.4 | 413 | 328.2 | 106.9 | 473 | 456.9 | 122.4 |
| 04 | 52.2 | 14.0 | 114 | 110.1 | 29.0 | 174 | 168.1 | 45.0 | 234 | 226.6 | 66.6 | 294 | 284.0 | 76.1 | 354 | 341.9 | 91.6 | 414 | 399.9 | 107.2 | 474 | 457.8 | 122.7 |
| 35 | 63.1 | 14.2 | 116 | 111.1 | 29.6 | 175 | 169.6 | 45.3 | 235 | 227.0 | 66.8 | 293 | 284.9 | 76.4 | 355 | 342.9 | 91.2 | 415 | 400.8 | 107.4 | 476 | 458.8 | 122.9 |
| 36 | 64.1 | 14.0 | 113 | 112.0 | 30.6 | 176 | 176.6 | 45.6 | 936 | 228.6 | 61.1 | 996 | 285.9 | 76.6 | 356 | 343.6 | 92.1 | 416 | 401.6 | 107.7 | 476 | 459.6 | 123.2 |
| 57 | 63.1 | 14.8 | 117 | 113.0 | 30.3 | 177 | 171.6 | 45.6 | 237 | 228.9 | 31.3 | 997 | 286.9 | 76.9 | 357 | 344.6 | 92.4 | 417 | 402.8 | 167.9 | 477 | 460.7 | 123.5 |
| 68 | 56.0 | 15.0 | 118 | 114.6 | 30.3 | 176 | 171.2 | 46.1 | 238 | 229.2 | 61.6 | 998 | 287.6 | 77.1 | 358 | 345.6 | 92.7 | 418 | 403.7 | 166.2 | 476 | 461.7 | 123.7 |
| 69 | 67.6 | 15.3 | 112 | 114.9 | 38.6 | 179 | 172.2 | 46.3 | 239 | 230.2 | 61.9 | 299 | 288.8 | 77.4 | 359 | 346.7 | 92.9 | 419 | 404.7 | 108.3 | 479 | 462.7 | 124.0 |
| 60 | 68.0 | 13.3 | 120 | 113.9 | 31.1 | 160 | 173.9 | 46.6 | 246 | 231.8 | 32.1 | 300 | 289.6 | 77.6 | 360 | 347.7 | 93.2 | 420 | 400.7 | 108.7 | 480 | 463.6 | 124.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

**5.h 0.m** **Para 75 grados.** **7.h 0.m**

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.h 4.m — Para 16 grados. — 10.h 56.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 81.0 | 00.3 | 51 | 85.8 | 16.8 | 121 | 115.3 | 33.4 | 181 | 174.0 | 49.9 | 241 | 231.7 | 65.4 | 301 | 289.3 | 89 9 | 361 | 317.0 | 22.6 | 421 | 404.7 | 116.6 |
| 9 | 01.9 | 00.6 | 82 | 59.6 | 17.1 | 122 | 117.3 | 33.6 | 189 | 174.9 | 00.2 | 242 | 232.5 | 66.7 | 302 | 290.3 | 83.2 | 362 | 348.0 | 99.7 | 422 | 403.6 | 116.3 |
| 3 | 62.9 | 00.6 | 83 | 88.6 | 17.4 | 123 | 118.2 | 33.9 | 183 | 175.9 | 08.4 | 243 | 232.6 | 67.0 | 303 | 291.9 | 83.5 | 363 | 348.9 | 160.0 | 423 | 400.8 | 116.6 |
| 4 | 83.5 | 01.1 | 64 | 81.0 | 17.6 | 124 | 119.2 | 34.9 | 184 | 175.9 | 80.7 | 244 | 234.5 | 67.3 | 301 | 292.9 | 63.8 | 364 | 342.9 | 108.3 | 424 | 107.6 | 116.8 |
| 0 | 64.8 | 01.4 | 65 | 82.5 | 17.9 | 123 | 120.2 | 34.5 | 103 | 177.6 | 51.6 | 245 | 235.5 | 67.6 | 305 | 293.9 | 84.0 | 365 | 358.8 | 180.6 | 120 | 466.5 | 117.1 |
| 6 | 05.8 | 61.7 | 66 | 63.4 | 15.2 | 120 | 121.1 | 34.7 | 180 | 175.8 | 51.3 | 246 | 230.5 | 67.8 | 306 | 294.1 | 84.3 | 366 | 331.8 | 160.8 | 126 | 402.5 | 117.4 |
| 7 | 08.7 | 01.9 | 67 | 64.4 | 18.5 | 127 | 122.1 | 35.0 | 107 | 172.8 | 51.0 | 247 | 237.4 | 68.1 | 367 | 225.1 | 84.6 | 367 | 332.0 | 161.1 | 127 | 415.4 | 117.7 |
| 8 | 07.7 | 09.2 | 68 | 65.4 | 18.7 | 198 | 123.0 | 38.3 | 188 | 180.7 | 81.0 | 248 | 238.4 | 66.4 | 360 | 295.0 | 84.2 | 368 | 353.7 | 101.4 | 428 | 411.4 | 117.9 |
| 2 | 08.7 | 82.5 | 89 | 66.3 | 12.0 | 199 | 194.6 | 35.6 | 102 | 181.7 | 59.1 | 942 | 232.4 | 65.5 | 302 | 297.8 | 53.1 | 369 | 334.7 | 101.7 | 429 | 412.4 | 118.2 |
| 10 | 09.6 | 02.8 | 75 | 57.3 | 19.3 | 135 | 123.6 | 35.0 | 190 | 182.6 | 52.4 | 250 | 240.3 | 68.9 | 310 | 298.0 | 83.4 | 370 | 355.6 | 101.9 | 430 | 413.3 | 118.5 |
| 11 | 10.5 | 83.0 | 71 | 68.9 | 19.6 | 131 | 125.9 | 36.1 | 191 | 182.5 | 52.0 | 251 | 241.3 | 82.2 | 311 | 298.9 | 65.7 | 371 | 356.8 | 102.2 | 431 | 414.3 | 118.8 |
| 12 | 11.0 | 03.3 | 72 | 89.9 | 19.8 | 132 | 120.9 | 36.4 | 192 | 184.8 | 52.9 | 259 | 242.2 | 69.5 | 312 | 292.9 | 66.0 | 372 | 357.6 | 102.5 | 432 | 415.9 | 119.0 |
| 13 | 12.5 | 83.6 | 73 | 76.9 | 20.1 | 133 | 127.8 | 30.7 | 193 | 188.5 | 53.2 | 253 | 943.2 | 62.7 | 313 | 388.2 | 56.9 | 373 | 358.5 | 102.8 | 433 | 416.2 | 119.3 |
| 14 | 13.8 | 03.9 | 74 | 71.1 | 20.4 | 131 | 126.8 | 35.2 | 194 | 186.0 | 03.6 | 234 | 244.9 | 78.0 | 314 | 301.8 | 60.5 | 374 | 359.5 | 103.1 | 434 | 417.2 | 119.8 |
| 15 | 14.4 | 04.1 | 75 | 72.1 | 20.7 | 135 | 199.6 | 37.2 | 125 | 187.4 | 03.7 | 255 | 243.1 | 78.3 | 310 | 309.6 | 56.8 | 375 | 360.4 | 103.3 | 436 | 418.1 | 119.9 |
| 16 | 15.4 | 01.4 | 75 | 73.1 | 20.9 | 130 | 130.7 | 37.5 | 126 | 188.4 | 54.6 | 250 | 246.1 | 78.0 | 316 | 303.7 | 87.1 | 376 | 361.4 | 103.6 | 430 | 419.1 | 125.1 |
| 17 | 16.3 | 64.7 | 77 | 74.0 | 21.2 | 137 | 131.7 | 37.8 | 197 | 182.4 | 54.3 | 257 | 247.5 | 75.8 | 317 | 304.7 | 87.3 | 377 | 362.4 | 103.9 | 437 | 426.0 | 190.4 |
| 18 | 17.3 | 05.0 | 78 | 75.0 | 21.8 | 128 | 132.7 | 38.0 | 120 | 190.3 | 64.5 | 258 | 248.0 | 71.1 | 318 | 305.7 | 87.6 | 375 | 363.3 | 104.2 | 436 | 491.0 | 150.7 |
| 19 | 15.3 | 55.2 | 79 | 75.9 | 21.8 | 139 | 133.6 | 38.3 | 199 | 191.3 | 54.9 | 259 | 249.5 | 71.4 | 312 | 306.6 | 87.9 | 372 | 364.3 | 104.4 | 432 | 422.0 | 191.0 |
| 20 | 19.2 | 05.5 | 80 | 76.9 | 22.1 | 140 | 124.5 | 38.0 | 200 | 199.3 | 55.1 | 268 | 249.9 | 71.7 | 320 | 307.8 | 88.9 | 380 | 353.3 | 104.7 | 440 | 429.9 | 191.2 |
| 21 | 20.2 | 65.8 | 81 | 77.9 | 22.3 | 141 | 135.5 | 38.2 | 201 | 193.2 | 30.4 | 261 | 250.9 | 71.2 | 321 | 305.5 | 68.4 | 301 | 366.2 | 185.0 | 441 | 423.9 | 121.5 |
| 22 | 21.1 | 80.1 | 89 | 78.6 | 22.6 | 142 | 136.0 | 32.1 | 202 | 194.2 | 55.7 | 269 | 231.9 | 72.2 | 322 | 309.0 | 58.7 | 389 | 307.9 | 105.3 | 442 | 424.9 | 121.8 |
| 93 | 92.1 | 66.3 | 83 | 79.5 | 22.2 | 143 | 137.5 | 32.4 | 203 | 195.1 | 56.0 | 263 | 252.8 | 79.5 | 323 | 310.0 | 59.0 | 383 | 368.1 | 103.5 | 143 | 425.8 | 122.1 |
| 24 | 23.1 | 60.6 | 84 | 60.7 | 23.2 | 144 | 120.4 | 39.7 | 204 | 195.1 | 50.2 | 264 | 253.5 | 79.5 | 324 | 311.4 | 52.3 | 384 | 369.1 | 105.8 | 444 | 426.0 | 122.3 |
| 95 | 94.0 | 66.9 | 85 | 81.7 | 22.4 | 145 | 132.4 | 40.0 | 205 | 197.1 | 55.5 | 265 | 254.7 | 73.0 | 325 | 312.4 | 82.5 | 305 | 370.1 | 106.1 | 445 | 427.7 | 122.6 |
| 96 | 25.0 | 07.2 | 86 | 89.7 | 93.7 | 146 | 148.3 | 46.2 | 206 | 195.8 | 05.8 | 265 | 255.7 | 73.3 | 326 | 313.3 | 82.8 | 386 | 371.5 | 166.4 | 440 | 428.7 | 129.2 |
| 97 | 26.0 | 87.4 | 87 | 83.6 | 24.0 | 147 | 141.3 | 45.5 | 207 | 122.5 | 57.1 | 207 | 256.7 | 73.6 | 397 | 314.3 | 98.1 | 307 | 372.0 | 106.6 | 447 | 422.7 | 123.2 |
| 28 | 26.9 | 07.7 | 88 | 84.6 | 24.3 | 148 | 149.3 | 40.5 | 208 | 199.2 | 57.3 | 268 | 257.6 | 73.9 | 328 | 315.3 | 98.4 | 388 | 372.9 | 166.9 | 448 | 430.8 | 123.4 |
| 29 | 27.2 | 08.0 | 69 | 85.6 | 94.5 | 149 | 143.2 | 41.1 | 262 | 205.2 | 87.6 | 269 | 256.5 | 74.1 | 329 | 316.3 | 90.0 | 302 | 373.9 | 107.2 | 449 | 431.6 | 123.7 |
| 30 | 96.8 | 08.3 | 90 | 86.8 | 24.8 | 150 | 144.2 | 41.3 | 916 | 281.2 | 87.2 | 270 | 252.8 | 74.4 | 330 | 317.2 | 98.9 | 390 | 374.2 | 107.5 | 450 | 432.6 | 124.8 |
| 31 | 29.8 | 08.5 | 91 | 57.5 | 25.1 | 151 | 145.9 | 41.6 | 211 | 909.0 | 58.2 | 271 | 950.0 | 74.7 | 331 | 318.2 | 91.9 | 391 | 375.8 | 107.7 | 451 | 433.5 | 124.3 |
| 32 | 30.8 | 08.8 | 92 | 60.4 | 25.4 | 132 | 146.1 | 41.9 | 212 | 262.5 | 58.4 | 272 | 261.0 | 75.0 | 332 | 319.1 | 21.0 | 322 | 376.0 | 108.0 | 452 | 434.0 | 124.8 |
| 33 | 31.7 | 09.1 | 93 | 82.4 | 90.6 | 153 | 147.1 | 49.9 | 213 | 264.7 | 58.7 | 273 | 269.4 | 75.2 | 333 | 398.1 | 91.0 | 393 | 377.8 | 105.3 | 453 | 435.4 | 124.8 |
| 31 | 32.7 | 69.4 | 24 | 20.4 | 20.9 | 154 | 146.6 | 49.4 | 214 | 285.7 | 09.0 | 274 | 203.4 | 75.6 | 334 | 321.0 | 92.0 | 394 | 370.7 | 108.6 | 434 | 438.4 | 195.1 |
| 33 | 33.6 | 69.0 | 90 | 91.3 | 90.9 | 150 | 149.6 | 42.7 | 215 | 286.7 | 52.3 | 275 | 264.3 | 75.8 | 335 | 329.5 | 22.3 | 393 | 379.7 | 165.8 | 455 | 437.4 | 125.4 |
| 36 | 34.5 | 59.2 | 96 | 92.3 | 26.5 | 150 | 130.0 | 43.0 | 216 | 207.8 | 59.0 | 975 | 265.3 | 76.1 | 330 | 323.8 | 22.0 | 390 | 380.0 | 109.1 | 156 | 435.3 | 195.7 |
| 37 | 35.6 | 10.2 | 27 | 93.9 | 20.7 | 157 | 150.2 | 43.3 | 217 | 260.6 | 02.8 | 277 | 268.3 | 76.4 | 337 | 323.9 | 22.9 | 397 | 381.6 | 109.4 | 157 | 439.3 | 123.9 |
| 38 | 36.0 | 10.0 | 98 | 94.2 | 97.6 | 108 | 131.2 | 43.8 | 218 | 209.6 | 60.1 | 278 | 267.2 | 76.6 | 338 | 394.9 | 93.1 | 398 | 382.6 | 109.7 | 430 | 440.9 | 126.2 |
| 39 | 37.8 | 18.7 | 29 | 93.9 | 97.3 | 139 | 152.0 | 43.8 | 219 | 218.5 | 50.4 | 279 | 268.2 | 76.2 | 332 | 395.8 | 93.4 | 399 | 383.0 | 109.9 | 139 | 441.9 | 196.5 |
| 40 | 38.6 | 11.0 | 100 | 96.1 | 27.8 | 160 | 153.5 | 44.1 | 220 | 211.5 | 60.6 | 280 | 989.9 | 77.9 | 340 | 326.8 | 93.7 | 400 | 384.5 | 118.2 | 460 | 442.9 | 126.8 |
| 41 | 39.4 | 11.3 | 101 | 97.1 | 27.0 | 161 | 151.8 | 44.4 | 221 | 212.4 | 60.9 | 281 | 970.1 | 77.5 | 341 | 327.8 | 91.0 | 401 | 385.4 | 115.8 | 461 | 443.1 | 127.0 |
| 42 | 48.4 | 11.6 | 102 | 25.5 | 20.1 | 162 | 133.7 | 41.7 | 222 | 213.4 | 61.2 | 982 | 271.1 | 77.7 | 342 | 328.7 | 94.2 | 109 | 368.4 | 118.5 | 462 | 444.1 | 127.3 |
| 43 | 41.3 | 11.9 | 103 | 99.0 | 28.4 | 163 | 155.7 | 44.9 | 223 | 914.4 | 61.5 | 283 | 279.6 | 78.0 | 343 | 329.7 | 24.0 | 103 | 387.4 | 111.0 | 463 | 445.5 | 127.6 |
| 44 | 42.3 | 12.1 | 104 | 100.0 | 28.7 | 164 | 157.8 | 40.2 | 994 | 218.3 | 61.7 | 284 | 273.8 | 78.3 | 344 | 335.7 | 94.8 | 404 | 385.3 | 111.3 | 164 | 446.8 | 127.9 |
| 45 | 43.9 | 12.4 | 165 | 106.9 | 28.9 | 155 | 155.8 | 45.5 | 226 | 216.3 | 62.5 | 285 | 274.8 | 75.6 | 340 | 331.6 | 95.1 | 405 | 389.3 | 111.6 | 465 | 447.8 | 128.1 |
| 48 | 44.9 | 12.7 | 106 | 101.9 | 22.2 | 155 | 152.5 | 40.8 | 226 | 217.2 | 62.3 | 988 | 274.9 | 78.8 | 340 | 339.8 | 98.3 | 406 | 328.2 | 111.2 | 166 | 447.9 | 128.4 |
| 47 | 45.9 | 13.6 | 107 | 102.9 | 99.5 | 157 | 165.5 | 46.6 | 227 | 218.9 | 62.6 | 287 | 270.9 | 79.1 | 347 | 333.5 | 25.6 | 107 | 391.2 | 112.1 | 467 | 448.9 | 125.7 |
| 48 | 46.1 | 13.9 | 106 | 103.6 | 29.0 | 166 | 161.5 | 48.3 | 228 | 919.9 | 62.0 | 280 | 275.5 | 79.4 | 345 | 334.5 | 25.9 | 408 | 322.2 | 112.4 | 468 | 449.5 | 122.8 |
| 49 | 47.1 | 13.5 | 102 | 104.8 | 38.5 | 152 | 152.5 | 46.8 | 222 | 228.1 | 63.1 | 282 | 277.5 | 79.7 | 342 | 335.8 | 95.2 | 402 | 323.1 | 112.7 | 462 | 450.8 | 122.2 |
| 50 | 46.1 | 13.8 | 115 | 105.7 | 38.3 | 178 | 163.4 | 46.9 | 230 | 221.1 | 63.4 | 295 | 975.5 | 79.9 | 350 | 336.4 | 25.4 | 415 | 394.1 | 113.8 | 475 | 451.6 | 122.5 |
| 51 | 42.8 | 14.1 | 111 | 100.7 | 30.6 | 171 | 164.4 | 47.1 | 231 | 222.1 | 63.7 | 291 | 279.7 | 85.2 | 351 | 337.4 | 96.7 | 411 | 325.1 | 113.3 | 471 | 452.7 | 122.8 |
| 52 | 55.8 | 14.3 | 112 | 167.7 | 38.9 | 172 | 165.3 | 47.4 | 239 | 223.8 | 63.2 | 222 | 285.7 | 85.0 | 352 | 335.3 | 97.0 | 419 | 396.0 | 113.5 | 472 | 453.7 | 130.1 |
| 53 | 50.9 | 14.6 | 113 | 188.6 | 31.1 | 173 | 166.3 | 47.7 | 233 | 294.8 | 64.9 | 223 | 261.6 | 85.8 | 353 | 339.3 | 27.3 | 413 | 327.8 | 113.5 | 473 | 454.7 | 130.3 |
| 54 | 51.9 | 14.2 | 114 | 162.6 | 31.4 | 174 | 167.3 | 45.5 | 234 | 224.9 | 64.5 | 294 | 252.5 | 61.0 | 354 | 345.3 | 97.5 | 414 | 397.2 | 114.1 | 474 | 455.6 | 130.6 |
| 55 | 59.9 | 15.9 | 115 | 110.5 | 31.7 | 175 | 185.2 | 45.9 | 935 | 225.9 | 64.5 | 298 | 253.6 | 61.3 | 355 | 341.2 | 27.0 | 415 | 398.2 | 114.4 | 475 | 456.6 | 130.2 |
| 56 | 53.6 | 15.4 | 116 | 111.5 | 32.0 | 175 | 182.9 | 45.0 | 926 | 926.9 | 65.1 | 298 | 284.8 | 61.6 | 356 | 342.9 | 95.1 | 418 | 399.2 | 114.6 | 476 | 457.5 | 131.2 |
| 57 | 64.8 | 15.7 | 117 | 112.5 | 32.2 | 177 | 170.1 | 48.5 | 237 | 227.8 | 65.3 | 297 | 205.5 | 81.2 | 357 | 343.1 | 95.4 | 117 | 408.5 | 114.2 | 477 | 458.5 | 131.4 |
| 38 | 55.8 | 16.0 | 118 | 113.4 | 32.5 | 175 | 171.1 | 42.1 | 938 | 226.6 | 85.6 | 228 | 283.5 | 62.1 | 358 | 344.1 | 25.6 | 415 | 401.8 | 115.2 | 475 | 402.5 | 131.7 |
| 59 | 56.7 | 16.3 | 112 | 114.4 | 39.8 | 179 | 172.1 | 49.3 | 239 | 929.7 | 65.2 | 229 | 207.4 | 82.4 | 352 | 345.1 | 28.2 | 419 | 402.7 | 116.5 | 479 | 460.4 | 132.0 |
| 60 | 87.7 | 16.5 | 128 | 115.4 | 33.1 | 180 | 173.5 | 49.6 | 240 | 230.7 | 65.2 | 300 | 288.4 | 82.7 | 360 | 346.8 | 92.9 | 420 | 403.7 | 115.5 | 485 | 481.4 | 132.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 56.m — Para 74 grados. — 7.h 4.m

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

1.ʰ 8.ᵐ **Para 17 grados.** 10.ʰ 52.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.0 | 00.3 | 01 | 58.3 | 17.8 | 121 | 115.7 | 35.4 | 181 | 173.1 | 52.5 | 241 | 238.5 | 70.5 | 301 | 287.5 | 88.0 | 361 | 345.2 | 105.5 | 421 | 402.6 | 123.1 |
| 2 | 51.9 | 80.5 | 02 | 55.3 | 18.1 | 122 | 116.7 | 35.7 | 182 | 174.5 | 03.2 | 242 | 231.4 | 70.8 | 302 | 288.0 | 58.3 | 382 | 315.1 | 105.8 | 422 | 403.5 | 123.4 |
| 3 | 02.9 | 80.0 | 83 | 80.2 | 18.4 | 123 | 117.6 | 38.0 | 183 | 175.5 | 53.5 | 243 | 232.4 | 71.0 | 303 | 282.7 | 50.6 | 383 | 347.1 | 188.1 | 423 | 484.5 | 123.7 |
| 4 | 03.5 | 81.2 | 64 | 81.2 | 18.7 | 124 | 118.5 | 36.3 | 184 | 178.0 | 53.8 | 244 | 233.3 | 71.3 | 304 | 290.7 | 50.9 | 364 | 340.1 | 106.4 | 424 | 405.4 | 124.5 |
| 5 | 54.5 | 01.5 | 55 | 82.2 | 19.0 | 125 | 112.5 | 36.5 | 185 | 178.9 | 54.1 | 245 | 234.3 | 71.6 | 105 | 291.6 | 82.2 | 365 | 342.0 | 106.7 | 425 | 400.4 | 124.3 |
| 6 | 05.7 | 51.5 | 08 | 53.1 | 19.3 | 120 | 120.5 | 36.8 | 185 | 177.2 | 54.4 | 248 | 235.3 | 71.9 | 306 | 292.5 | 89.5 | 366 | 350.0 | 107.0 | 428 | 487.3 | 124.6 |
| 7 | 56.7 | 82.0 | 57 | 84.1 | 10.6 | 127 | 121.5 | 37.1 | 187 | 178.8 | 04.7 | 247 | 235.2 | 72.2 | 307 | 293.5 | 80.8 | 367 | 350.9 | 107.3 | 127 | 405.3 | 124.6 |
| 8 | 57.7 | 82.3 | 68 | 55.0 | 15.9 | 125 | 122.4 | 37.4 | 188 | 175.5 | 55.0 | 240 | 237.2 | 72.5 | 308 | 294.5 | 50.1 | 365 | 351.0 | 107.5 | 128 | 409.3 | 125.1 |
| 9 | 85.5 | 02.5 | 69 | 56.0 | 20.2 | 125 | 123.4 | 37.7 | 189 | 180.7 | 55.3 | 245 | 238.1 | 72.8 | 309 | 295.6 | 50.3 | 369 | 352.8 | 107.9 | 429 | 410.2 | 125.4 |
| 10 | 02.6 | 02.0 | 70 | 80.5 | 20.5 | 138 | 124.3 | 38.8 | 108 | 181.7 | 05.6 | 250 | 939.1 | 73.1 | 310 | 296.4 | 90.6 | 370 | 353.8 | 100.2 | 430 | 411.2 | 125.7 |
| 11 | 10.5 | 03.2 | 71 | 67.5 | 28.8 | 131 | 125.3 | 38.3 | 191 | 182.7 | 55.8 | 251 | 240.0 | 73.4 | 311 | 297.4 | 90.9 | 371 | 354.8 | 108.5 | 431 | 412.1 | 125.0 |
| 12 | 11.5 | 03.5 | 72 | 68.9 | 21.1 | 132 | 125.2 | 38.8 | 192 | 183.8 | 56.1 | 252 | 241.0 | 73.7 | 312 | 298.3 | 91.2 | 372 | 355.7 | 108.8 | 432 | 413.1 | 128.3 |
| 13 | 12.4 | 53.8 | 73 | 69.0 | 21.3 | 133 | 127.9 | 38.9 | 123 | 184.6 | 56.4 | 253 | 241.5 | 74.0 | 313 | 299.3 | 51.5 | 373 | 355.7 | 105.1 | 433 | 414.5 | 128.6 |
| 14 | 13.4 | 04.1 | 74 | 78.8 | 21.6 | 134 | 128.1 | 39.2 | 194 | 185.5 | 58.7 | 254 | 242.5 | 74.3 | 314 | 300.2 | 01.8 | 374 | 357.6 | 109.4 | 434 | 415.0 | 126.5 |
| 15 | 14.3 | 04.4 | 75 | 71.7 | 21.9 | 135 | 129.1 | 35.5 | 195 | 180.5 | 57.0 | 255 | 243.5 | 74.6 | 315 | 301.2 | 92.1 | 375 | 358.5 | 109.6 | 435 | 416.0 | 127.2 |
| 16 | 10.3 | 04.7 | 76 | 72.7 | 22.2 | 130 | 138.1 | 39.8 | 195 | 157.4 | 57.3 | 256 | 244.8 | 74.8 | 316 | 302.2 | 92.4 | 375 | 352.5 | 105.9 | 436 | 416.9 | 127.5 |
| 17 | 15.3 | 55.0 | 77 | 73.6 | 22.5 | 137 | 131.5 | 40.1 | 197 | 188.4 | 57.8 | 257 | 245.8 | 75.1 | 317 | 303.1 | 92.7 | 377 | 360.5 | 110.2 | 437 | 417.2 | 127.8 |
| 18 | 17.2 | 85.3 | 75 | 74.8 | 22.0 | 138 | 132.8 | 40.3 | 198 | 189.3 | 57.9 | 258 | 246.7 | 75.4 | 318 | 304.1 | 93.0 | 378 | 361.4 | 110.5 | 438 | 418.8 | 128.1 |
| 10 | 18.2 | 85.6 | 79 | 75.5 | 23.1 | 139 | 132.9 | 40.5 | 190 | 108.3 | 58.2 | 259 | 247.7 | 75.7 | 319 | 305.8 | 93.3 | 379 | 362.4 | 110.8 | 139 | 419.0 | 120.4 |
| 20 | 12.1 | 85.8 | 88 | 76.5 | 23.4 | 140 | 133.2 | 48.9 | 200 | 191.3 | 58.6 | 260 | 948.6 | 75.0 | 320 | 300.0 | 23.6 | 380 | 363.4 | 111.1 | 140 | 428.7 | 128.5 |
| 21 | 20.1 | 86.1 | 81 | 77.5 | 23.7 | 141 | 134.8 | 41.2 | 201 | 192.2 | 58.8 | 261 | 240.6 | 76.3 | 321 | 306.0 | 93.9 | 381 | 364.3 | 111.4 | 141 | 421.7 | 128.5 |
| 92 | 21.0 | 00.4 | 82 | 78.4 | 24.0 | 142 | 135.0 | 41.5 | 202 | 193.2 | 50.1 | 262 | 250.5 | 70.6 | 329 | 307.2 | 94.1 | 382 | 365.3 | 111.7 | 142 | 422.7 | 129.2 |
| 23 | 22.0 | 06.7 | 83 | 70.4 | 24.3 | 143 | 136.0 | 41.8 | 203 | 194.1 | 50.4 | 263 | 251.5 | 70.9 | 323 | 308.8 | 24.4 | 383 | 358.2 | 112.0 | 143 | 423.6 | 129.5 |
| 24 | 23.5 | 87.8 | 84 | 80.3 | 24.6 | 144 | 137.7 | 42.1 | 204 | 195.1 | 59.6 | 264 | 252.5 | 77.9 | 324 | 309.8 | 94.7 | 384 | 367.2 | 119.3 | 444 | 424.6 | 129.6 |
| 25 | 23.2 | 87.3 | 85 | 81.3 | 24.9 | 145 | 135.7 | 42.4 | 205 | 198.5 | 59.9 | 265 | 253.4 | 77.5 | 325 | 310.8 | 95.0 | 385 | 380.1 | 112.6 | 145 | 425.5 | 130.1 |
| 26 | 24.5 | 87.6 | 86 | 82.2 | 25.1 | 146 | 139.6 | 42.7 | 206 | 197.0 | 50.2 | 266 | 254.4 | 77.8 | 328 | 311.7 | 95.3 | 386 | 362.1 | 112.9 | 446 | 496.0 | 135.4 |
| 27 | 25.0 | 07.9 | 87 | 83.2 | 25.4 | 147 | 148.6 | 43.8 | 207 | 198.0 | 60.5 | 267 | 256.3 | 78.1 | 327 | 312.7 | 95.5 | 387 | 370.1 | 113.9 | 447 | 427.4 | 138.7 |
| 28 | 26.5 | 88.2 | 88 | 84.2 | 25.7 | 148 | 141.5 | 43.3 | 208 | 198.9 | 50.8 | 268 | 256.3 | 78.4 | 328 | 313.6 | 95.9 | 388 | 371.0 | 113.4 | 448 | 428.4 | 131.0 |
| 29 | 27.7 | 08.5 | 52 | 85.1 | 26.8 | 149 | 142.5 | 43.6 | 209 | 199.9 | 61.1 | 269 | 957.2 | 78.6 | 320 | 314.0 | 98.2 | 389 | 372.0 | 113.7 | 449 | 429.3 | 131.3 |
| 30 | 28.7 | 08.8 | 98 | 80.1 | 26.3 | 150 | 143.4 | 43.9 | 210 | 200.8 | 61.4 | 270 | 258.2 | 78.9 | 330 | 315.5 | 96.5 | 390 | 372.2 | 114.0 | 458 | 438.3 | 131.6 |
| 31 | 29.6 | 09.1 | 91 | 87.8 | 25.6 | 151 | 144.4 | 44.1 | 211 | 201.8 | 61.7 | 271 | 252.2 | 79.2 | 331 | 316.5 | 96.8 | 391 | 373.2 | 114.3 | 151 | 431.3 | 131.9 |
| 32 | 38.0 | 09.4 | 92 | 88.0 | 20.9 | 152 | 145.4 | 44.4 | 212 | 202.7 | 62.8 | 272 | 260.1 | 79.5 | 332 | 317.5 | 97.1 | 392 | 374.8 | 114.0 | 159 | 432.2 | 132.2 |
| 33 | 31.6 | 09.6 | 93 | 80.5 | 27.2 | 153 | 145.3 | 44.7 | 213 | 203.7 | 62.3 | 273 | 261.1 | 79.8 | 333 | 318.4 | 97.4 | 393 | 375.0 | 114.9 | 453 | 433.2 | 132.4 |
| 34 | 32.0 | 09.9 | 94 | 80.5 | 27.5 | 154 | 147.3 | 45.0 | 914 | 201.6 | 52.6 | 274 | 262.5 | 80.1 | 334 | 319.4 | 97.7 | 394 | 376.7 | 115.2 | 454 | 434.1 | 132.7 |
| 35 | 33.5 | 18.2 | 95 | 90.8 | 27.8 | 155 | 140.2 | 45.3 | 215 | 203.0 | 62.9 | 275 | 203.0 | 80.4 | 335 | 320.3 | 97.9 | 395 | 377.7 | 115.5 | 455 | 435.1 | 133.8 |
| 36 | 34.4 | 10.5 | 00 | 91.8 | 28.1 | 158 | 140.2 | 45.6 | 216 | 208.8 | 63.2 | 276 | 203.2 | 80.7 | 336 | 321.3 | 98.9 | 396 | 378.7 | 115.8 | 456 | 436.0 | 133.3 |
| 37 | 35.4 | 10.8 | 97 | 92.8 | 28.4 | 157 | 150.1 | 45.9 | 217 | 207.5 | 63.4 | 277 | 264.2 | 81.0 | 337 | 329.9 | 98.0 | 397 | 379.6 | 116.1 | 457 | 437.0 | 133.6 |
| 38 | 36.3 | 11.1 | 98 | 93.7 | 28.7 | 158 | 151.1 | 46.9 | 218 | 208.5 | 63.7 | 278 | 285.9 | 81.3 | 338 | 393.2 | 28.8 | 398 | 388.6 | 118.4 | 458 | 438.8 | 133.9 |
| 39 | 37.3 | 11.4 | 29 | 94.7 | 28.9 | 159 | 152.1 | 46.6 | 219 | 209.4 | 64.8 | 279 | 258.5 | 81.6 | 339 | 324.9 | 99.1 | 399 | 381.5 | 116.7 | 459 | 438.9 | 134.2 |
| 40 | 30.3 | 11.7 | 100 | 95.5 | 29.2 | 180 | 153.0 | 46.8 | 920 | 218.4 | 54.3 | 280 | 267.0 | 81.0 | 345 | 395.1 | 00.4 | 400 | 382.5 | 117.0 | 458 | 435.9 | 134.5 |
| 41 | 39.2 | 12.0 | 101 | 95.6 | 29.6 | 181 | 154.0 | 47.1 | 221 | 211.3 | 64.0 | 281 | 288.7 | 82.2 | 341 | 326.1 | 99.7 | 401 | 383.4 | 117.2 | 461 | 448.8 | 134.5 |
| 42 | 40.2 | 12.3 | 182 | 97.5 | 29.8 | 162 | 154.9 | 47.4 | 222 | 212.3 | 64.9 | 282 | 269.7 | 82.4 | 342 | 397.0 | 108.0 | 402 | 384.4 | 117.5 | 462 | 441.8 | 135.1 |
| 43 | 41.1 | 12.0 | 183 | 20.5 | 38.1 | 163 | 155.2 | 47.7 | 223 | 213.3 | 65.2 | 283 | 270.6 | 82.7 | 343 | 328.0 | 108.3 | 103 | 385.4 | 117.8 | 103 | 442.7 | 135.4 |
| 44 | 42.1 | 12.9 | 184 | 92.5 | 30.4 | 184 | 156.0 | 47.9 | 224 | 214.2 | 65.5 | 284 | 271.6 | 83.8 | 344 | 328.9 | 100.6 | 104 | 386.3 | 118.1 | 464 | 443.7 | 135.7 |
| 45 | 43.0 | 13.2 | 105 | 108.4 | 38.7 | 165 | 157.5 | 48.2 | 225 | 216.2 | 65.8 | 285 | 272.0 | 83.3 | 345 | 399.9 | 108.9 | 405 | 387.3 | 118.4 | 465 | 444.6 | 136.0 |
| 46 | 44.8 | 13.4 | 106 | 101.4 | 31.8 | 180 | 155.7 | 48.5 | 226 | 216.1 | 86.1 | 286 | 273.5 | 83.6 | 346 | 330.8 | 101.2 | 406 | 388.2 | 118.7 | 488 | 445.0 | 136.2 |
| 47 | 44.9 | 13.7 | 107 | 102.3 | 31.3 | 167 | 155.7 | 48.8 | 227 | 217.1 | 86.4 | 287 | 274.5 | 83.9 | 347 | 331.8 | 181.5 | 407 | 389.2 | 119.0 | 167 | 448.8 | 138.5 |
| 48 | 45.9 | 14.0 | 188 | 103.3 | 31.8 | 168 | 155.7 | 49.1 | 228 | 215.0 | 58.7 | 288 | 275.4 | 84.2 | 348 | 332.8 | 101 8 | 408 | 398.1 | 119.3 | 168 | 447.5 | 130.6 |
| 49 | 46.9 | 14.3 | 109 | 184.2 | 31.2 | 169 | 161.6 | 49.4 | 229 | 912.5 | 57.8 | 252 | 276.4 | 84.5 | 349 | 333.7 | 182.0 | 409 | 391.1 | 119.6 | 169 | 448.5 | 137.1 |
| 50 | 47.5 | 14.6 | 110 | 185.2 | 32.2 | 178 | 182.6 | 49.7 | 230 | 220.0 | 87.2 | 200 | 277.3 | 84.8 | 350 | 334.7 | 182.3 | 410 | 392.0 | 119.9 | 470 | 449.4 | 137.4 |
| 51 | 48.8 | 14.9 | 111 | 186.1 | 32.5 | 171 | 163.5 | 55.0 | 231 | 298.2 | 87.5 | 291 | 278.3 | 85.1 | 351 | 335.6 | 182.6 | 411 | 393.0 | 120.2 | 171 | 450.4 | 137.7 |
| 52 | 49.7 | 15.2 | 112 | 107.1 | 32.7 | 172 | 184.5 | 55.3 | 232 | 991.9 | 87.8 | 292 | 279.2 | 85.4 | 352 | 336.6 | 152.9 | 112 | 394.0 | 120.5 | 172 | 451.3 | 138.0 |
| 53 | 58.7 | 15.5 | 113 | 188.1 | 33.8 | 173 | 165.4 | 60.6 | 233 | 222.5 | 68.1 | 293 | 280.2 | 85.7 | 353 | 337.6 | 103.2 | 413 | 394.9 | 120.8 | 473 | 452.3 | 138.3 |
| 54 | 51.6 | 15.8 | 114 | 189.5 | 33.3 | 174 | 166.4 | 50.9 | 234 | 223.0 | 08.4 | 294 | 281.2 | 86.0 | 354 | 338.6 | 183.6 | 414 | 395.9 | 191.8 | 474 | 453.3 | 138.6 |
| 65 | 52.6 | 10.1 | 115 | 110.5 | 33.5 | 170 | 107.4 | 61.2 | 225 | 924.7 | 68.7 | 995 | 289.1 | 88.2 | 355 | 339.6 | 103.8 | 415 | 396.8 | 121.3 | 475 | 454.2 | 130.2 |
| 56 | 53.6 | 16.4 | 118 | 115.9 | 33.5 | 176 | 160.3 | 51.5 | 235 | 225.7 | 85.0 | 296 | 283.1 | 86.5 | 355 | 340.4 | 104.1 | 115 | 397.8 | 121.6 | 478 | 455.2 | 139.2 |
| 57 | 54.5 | 15.7 | 117 | 111.5 | 34.2 | 177 | 182.3 | 61.7 | 237 | 226.6 | 85.3 | 297 | 254.0 | 86.0 | 357 | 341.4 | 104.4 | 417 | 398.7 | 121.9 | 477 | 456.1 | 139.6 |
| 58 | 55.5 | 17.8 | 115 | 112.0 | 34.6 | 178 | 175.2 | 52.8 | 238 | 227.5 | 89.6 | 290 | 285.0 | 57.1 | 358 | 342.3 | 104.7 | 418 | 399.7 | 122.2 | 478 | 457.1 | 132.6 |
| 59 | 58.4 | 17.2 | 119 | 113.8 | 34.8 | 172 | 171.2 | 52.3 | 235 | 228.8 | 89.9 | 259 | 285.9 | 57.4 | 359 | 343.3 | 185.8 | 419 | 400.7 | 122.5 | 479 | 458.5 | 145.0 |
| 63 | 57.4 | 17.5 | 125 | 114.5 | 35.1 | 180 | 172.1 | 52.6 | 240 | 229.6 | 70.2 | 358 | 288.9 | 67.7 | 350 | 344.2 | 105.3 | 428 | 401.6 | 122.8 | 480 | 452.0 | 140.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 52.ᵐ **Para 73 grados.** 7.ʰ 8.ᵐ

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.ʰ 12.ᵐ Para 18 gradoo. 10.ʰ 48.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01.6 | 00.3 | 61 | 58.0 | 18.9 | 121 | 115.1 | 37.4 | 181 | 172.1 | 05.9 | 241 | 229.2 | 74.5 | 301 | 286.3 | 03.0 | 361 | 343.3 | 111.6 | 421 | 408.4 | 130.1 |
| 2 | 81.9 | 00.6 | 62 | 52.9 | 19.2 | 122 | 116.0 | 37.7 | 182 | 173.1 | 56.2 | 212 | 230.2 | 74.8 | 382 | 287.2 | 93.3 | 382 | 344.3 | 111.9 | 422 | 401.4 | 130.4 |
| 3 | 62.9 | 60.9 | 63 | 90.2 | 19.5 | 123 | 117.0 | 38.0 | 183 | 174.6 | 56.6 | 243 | 231.1 | 75.1 | 363 | 288.2 | 23.7 | 383 | 340.2 | 112.2 | 423 | 402.3 | 130.7 |
| 4 | 03.8 | 01.2 | 64 | 60.9 | 19.8 | 124 | 117.0 | 38.3 | 184 | 170.0 | 56.9 | 244 | 232.1 | 76.4 | 304 | 289.1 | 04.6 | 364 | 346.2 | 112.5 | 424 | 463.3 | 131.0 |
| 5 | 04.0 | 01.5 | 85 | 61.8 | 20.1 | 125 | 118.2 | 38.6 | 185 | 170.9 | 07.2 | 245 | 233.0 | 75.7 | 365 | 296.1 | 94.3 | 365 | 347.1 | 112.8 | 425 | 404.2 | 131.3 |
| 6 | 05.7 | 61.9 | 66 | 62.8 | 20.4 | 126 | 119.6 | 38.9 | 186 | 176.9 | 57.6 | 216 | 234.0 | 78.0 | 366 | 291.0 | 94.6 | 366 | 348.1 | 113.1 | 126 | 405.2 | 131.7 |
| 7 | 06.7 | 82.2 | 67 | 63.7 | 20.7 | 127 | 120.6 | 39.2 | 187 | 177.8 | 07.8 | 247 | 234.2 | 76.3 | 307 | 292.0 | 94.9 | 467 | 349.0 | 113.4 | 127 | 406.1 | 132.6 |
| 8 | 67.6 | 02.5 | 68 | 64.7 | 21.0 | 128 | 121.7 | 39.6 | 188 | 170.8 | 58.1 | 248 | 235.9 | 76.6 | 388 | 292.0 | 95.2 | 368 | 350.0 | 113.7 | 128 | 407.1 | 132.3 |
| 0 | 68.6 | 02.8 | 69 | 65.6 | 21.3 | 129 | 122.7 | 39.9 | 189 | 179.7 | 00.4 | 249 | 230.6 | 78.9 | 309 | 203.9 | 95.5 | 369 | 350.2 | 114.6 | 422 | 406.6 | 132.6 |
| 10 | 69.5 | 03.1 | 70 | 66.6 | 21.6 | 130 | 123.0 | 40.2 | 190 | 180.7 | 68.7 | 250 | 237.6 | 77.3 | 310 | 224.8 | 95.8 | 370 | 351.2 | 114.3 | 136 | 409.6 | 132.9 |
| 11 | 10.5 | 03.4 | 71 | 67.5 | 21.9 | 131 | 124.6 | 40.5 | 191 | 181.7 | 52.0 | 251 | 238.7 | 77.6 | 111 | 295.8 | 96.1 | 371 | 352.9 | 114.7 | 131 | 400.9 | 133.2 |
| 12 | 11.4 | 03.7 | 72 | 68.5 | 22.2 | 132 | 125.5 | 40.8 | 192 | 182.6 | 09.3 | 252 | 239.7 | 77.9 | 312 | 296.7 | 96.4 | 172 | 353.8 | 115.0 | 432 | 410.9 | 133.5 |
| 13 | 12.4 | 04.0 | 73 | 69.4 | 22.6 | 133 | 126.0 | 41.1 | 193 | 183.6 | 09.6 | 253 | 240.6 | 78.2 | 313 | 297.7 | 96.7 | 373 | 354.6 | 115.3 | 433 | 411.0 | 133.8 |
| 14 | 13.3 | 04.3 | 74 | 70.4 | 22.9 | 134 | 127.4 | 41.4 | 194 | 104.5 | 50.9 | 254 | 241.6 | 78.5 | 314 | 298.6 | 97.0 | 174 | 355.7 | 115.6 | 134 | 412.0 | 134.1 |
| 15 | 14.3 | 04.6 | 75 | 71.3 | 23.2 | 135 | 128.4 | 41.7 | 195 | 185.5 | 60.3 | 255 | 242.0 | 78.8 | 113 | 299.6 | 27.4 | 375 | 350.7 | 115.5 | 135 | 413.7 | 134.4 |
| 16 | 15.2 | 04.9 | 76 | 72.3 | 23.5 | 136 | 129.8 | 42.0 | 196 | 186.4 | 66.6 | 256 | 243.3 | 79.1 | 316 | 360.5 | 97.7 | 176 | 357.6 | 118.2 | 136 | 414.7 | 134.7 |
| 17 | 16.2 | 65.3 | 77 | 73.2 | 23.8 | 137 | 130.3 | 42.3 | 197 | 187.4 | 60.9 | 257 | 244.4 | 79.4 | 117 | 301.5 | 00.0 | 177 | 358.0 | 116.5 | 437 | 415.6 | 135.1 |
| 18 | 17.1 | 05.6 | 76 | 74.2 | 24.1 | 138 | 131.2 | 42.6 | 198 | 188.3 | 61.2 | 258 | 245.4 | 70.7 | 318 | 302.4 | 98.3 | 378 | 352.0 | 116.8 | 138 | 416.6 | 135.4 |
| 19 | 18.1 | 05.9 | 79 | 75.1 | 24.4 | 139 | 132.2 | 43.0 | 199 | 189.3 | 61.5 | 259 | 246.3 | 80.0 | 319 | 303.4 | 98.6 | 379 | 360.0 | 117.1 | 139 | 417.5 | 135.7 |
| 20 | 19.0 | 06.2 | 88 | 76.1 | 24.7 | 140 | 133.1 | 43.3 | 200 | 190.2 | 61.8 | 260 | 247.3 | 00.3 | 328 | 304.3 | 98.9 | 380 | 361.4 | 117.4 | 140 | 418.5 | 136.0 |
| 21 | 20.0 | 06.5 | 81 | 77.6 | 25.6 | 141 | 131.1 | 43.6 | 201 | 191.2 | 62.1 | 261 | 248.2 | 80.7 | 321 | 305.3 | 90.2 | 381 | 362.4 | 117.7 | 141 | 410.4 | 136.3 |
| 22 | 20.9 | 06.8 | 82 | 78.0 | 25.3 | 142 | 135.1 | 43.9 | 202 | 192.1 | 62.4 | 262 | 249.2 | 81.0 | 322 | 308.2 | 90.5 | 382 | 363.8 | 110.1 | 142 | 420.4 | 136.6 |
| 23 | 21.9 | 67.1 | 83 | 76.9 | 25.6 | 143 | 136.0 | 44.2 | 203 | 193.1 | 62.7 | 263 | 258.1 | 81.3 | 323 | 307.2 | 92.0 | 383 | 301.3 | 118.4 | 143 | 421.3 | 138.2 |
| 24 | 22.6 | 07.4 | 84 | 79.9 | 26.0 | 144 | 137.0 | 44.5 | 204 | 194.0 | 63.0 | 261 | 251.1 | 81.6 | 324 | 308.2 | 100.1 | 384 | 363.2 | 118.7 | 444 | 422.3 | 137.2 |
| 25 | 23.6 | 07.7 | 85 | 80.8 | 26.3 | 145 | 137.2 | 44.8 | 205 | 195.0 | 63.3 | 265 | 252.0 | 81.9 | 325 | 309.1 | 108.4 | 385 | 366.2 | 119.6 | 145 | 423.2 | 137.5 |
| 20 | 24.7 | 08.0 | 86 | 81.8 | 26.6 | 146 | 138.2 | 45.1 | 206 | 195.9 | 63.7 | 266 | 253.6 | 82.2 | 326 | 310.1 | 100.7 | 306 | 367.1 | 110.3 | 448 | 424.2 | 137.8 |
| 27 | 25.7 | 08.3 | 87 | 82.7 | 26.9 | 147 | 139.6 | 45.4 | 207 | 196.9 | 64.0 | 267 | 253.0 | 02.5 | 327 | 311.0 | 101.1 | 387 | 368.1 | 119.8 | 417 | 425.1 | 138.1 |
| 28 | 96.6 | 68.7 | 88 | 83.7 | 27.2 | 148 | 146.6 | 45.7 | 260 | 197.8 | 64.3 | 268 | 254.9 | 82.8 | 328 | 312.0 | 101.4 | 388 | 369.8 | 119.9 | 448 | 426.1 | 130.4 |
| 29 | 27.6 | 09.0 | 09 | 84.6 | 27.5 | 149 | 141.7 | 46.6 | 200 | 198.8 | 64.6 | 269 | 256.6 | 83.1 | 320 | 312.0 | 101.7 | 300 | 370.8 | 120.2 | 449 | 427.0 | 138.8 |
| 30 | 28.0 | 09.3 | 90 | 85.6 | 27.8 | 150 | 142.7 | 46.4 | 218 | 199.7 | 64.0 | 270 | 256.8 | 03.4 | 330 | 313.9 | 102.6 | 390 | 370.9 | 120.5 | 450 | 420.0 | 139.1 |
| 31 | 29.0 | 09.6 | 21 | 86.6 | 28.1 | 151 | 143.6 | 46.7 | 211 | 206.7 | 65.2 | 271 | 257.7 | 03.7 | 331 | 314.8 | 102.3 | 391 | 371.9 | 120.8 | 451 | 428.9 | 139.4 |
| 32 | 30.4 | 00.9 | 22 | 87.0 | 28.4 | 152 | 144.6 | 47.0 | 212 | 201.0 | 60.5 | 272 | 258.7 | 84.1 | 332 | 315.8 | 162.6 | 392 | 379.8 | 121.1 | 452 | 429.2 | 139.7 |
| 33 | 31.4 | 10.2 | 93 | 88.4 | 28.7 | 153 | 145.0 | 47.3 | 213 | 202.6 | 65.0 | 273 | 259.6 | 84.4 | 333 | 310.7 | 162.0 | 393 | 373.8 | 121.5 | 453 | 430.8 | 148.8 |
| 34 | 32.3 | 16.5 | 94 | 89.4 | 29.0 | 154 | 146.5 | 47.6 | 214 | 203.5 | 66.1 | 274 | 260.6 | 04.7 | 334 | 317.7 | 103.2 | 394 | 374.7 | 121.8 | 454 | 431.8 | 146.3 |
| 35 | 33.3 | 16.8 | 26 | 90.4 | 29.4 | 155 | 147.4 | 47.9 | 215 | 204.5 | 86.4 | 275 | 261.0 | 85.0 | 335 | 318.6 | 103.5 | 395 | 370.7 | 122.1 | 455 | 432.7 | 146.6 |
| 30 | 34.2 | 11.1 | 96 | 91.3 | 29.7 | 156 | 148.4 | 48.2 | 216 | 205.4 | 66.7 | 276 | 262.0 | 85.3 | 336 | 319.6 | 163.8 | 396 | 376.6 | 122.4 | 456 | 433.7 | 148.9 |
| 37 | 35.2 | 11.4 | 97 | 92.3 | 36.6 | 157 | 149.3 | 48.5 | 217 | 206.4 | 67.1 | 277 | 263.4 | 85.6 | 337 | 320.5 | 104.1 | 397 | 377.6 | 122.7 | 457 | 434.6 | 141.2 |
| 38 | 36.1 | 11.7 | 98 | 93.2 | 30.3 | 158 | 150.3 | 48.8 | 218 | 207.3 | 67.4 | 278 | 264.4 | 85.9 | 338 | 321.5 | 104.5 | 398 | 178.5 | 123.0 | 458 | 435.6 | 141.5 |
| 39 | 37.1 | 12.1 | 99 | 04.2 | 30.6 | 159 | 151.2 | 49.1 | 219 | 208.3 | 67.7 | 279 | 265.3 | 86.2 | 339 | 322.4 | 104.0 | 399 | 379.0 | 123.3 | 459 | 436.5 | 141.8 |
| 48 | 38.0 | 12.4 | 100 | 95.1 | 30.9 | 160 | 152.2 | 40.4 | 220 | 269.2 | 66.0 | 280 | 268.3 | 86.5 | 310 | 323.4 | 105.1 | 400 | 300.4 | 123.6 | 460 | 437.0 | 142.2 |
| 41 | 39.8 | 12.7 | 101 | 96.1 | 31.2 | 161 | 153.1 | 49.8 | 221 | 210.2 | 60.3 | 281 | 267.2 | 86.8 | 311 | 324.3 | 103.4 | 101 | 381.4 | 123.9 | 461 | 438.4 | 142.5 |
| 42 | 39.9 | 13.0 | 102 | 97.0 | 31.3 | 162 | 154.1 | 30.1 | 222 | 911.1 | 60.6 | 282 | 268.9 | 87.1 | 342 | 325.3 | 105.7 | 402 | 382.3 | 124.2 | 462 | 439.4 | 142.8 |
| 43 | 40.9 | 13.3 | 103 | 98.0 | 31.8 | 163 | 105.0 | 56.4 | 223 | 212.1 | 68.9 | 283 | 260.1 | 87.5 | 343 | 326.2 | 106.0 | 103 | 383.3 | 124.5 | 463 | 440.3 | 143.1 |
| 44 | 41.8 | 13.6 | 104 | 98.9 | 32.1 | 164 | 156.0 | 50.7 | 224 | 213.0 | 69.2 | 284 | 278.1 | 87.8 | 344 | 327.2 | 106.3 | 104 | 384.2 | 124.9 | 464 | 441.3 | 143.4 |
| 45 | 42.8 | 13.9 | 105 | 99.9 | 32.4 | 165 | 156.9 | 51.0 | 225 | 214.0 | 69.5 | 285 | 271.1 | 88.1 | 345 | 328.1 | 186.6 | 405 | 385.2 | 125.2 | 465 | 442.2 | 143.7 |
| 46 | 43.7 | 14.2 | 106 | 100.8 | 32.8 | 166 | 157.2 | 51.3 | 226 | 214.9 | 62.8 | 286 | 272.0 | 88.4 | 346 | 329.1 | 106.9 | 406 | 386.1 | 125.5 | 406 | 443.2 | 144.0 |
| 47 | 44.7 | 14.5 | 107 | 101.8 | 33.1 | 167 | 158.0 | 51.6 | 227 | 215.9 | 70.1 | 207 | 273.6 | 00.7 | 347 | 330.0 | 107.2 | 407 | 387.1 | 125.8 | 467 | 441.2 | 144.3 |
| 40 | 45.7 | 14.8 | 108 | 102.7 | 33.4 | 168 | 159.8 | 51.9 | 220 | 216.8 | 78.6 | 288 | 273.2 | 89.0 | 348 | 331.0 | 167.5 | 408 | 388.8 | 126.1 | 468 | 445.1 | 144.6 |
| 49 | 46.6 | 15.1 | 109 | 103.7 | 33.7 | 169 | 169.7 | 32.2 | 229 | 217.8 | 70.8 | 289 | 274.9 | 09.3 | 349 | 331.9 | 107.9 | 409 | 382.6 | 126.4 | 469 | 446.1 | 144.9 |
| 50 | 47.6 | 15.5 | 110 | 164.6 | 34.0 | 170 | 161.7 | 52.5 | 230 | 210.7 | 71.1 | 290 | 275.6 | 80.8 | 350 | 332.9 | 106.2 | 410 | 382.9 | 126.7 | 470 | 447.0 | 140.2 |
| 51 | 48.5 | 15.8 | 111 | 105.6 | 34.3 | 171 | 162.6 | 52.0 | 231 | 219.7 | 71.4 | 291 | 278.0 | 89.9 | 351 | 333.8 | 108.5 | 411 | 390.9 | 127.0 | 171 | 448.0 | 140.6 |
| 02 | 49.5 | 16.1 | 112 | 106.5 | 34.6 | 172 | 163.6 | 53.9 | 232 | 220.6 | 71.7 | 292 | 277.7 | 90.2 | 352 | 334.8 | 108.0 | 412 | 391.0 | 127.3 | 172 | 440.2 | 145.9 |
| 53 | 50.4 | 16.4 | 113 | 107.5 | 34.9 | 173 | 164.0 | 53.5 | 233 | 221.6 | 72.0 | 293 | 270.7 | 20.5 | 353 | 335.7 | 109.1 | 413 | 392.0 | 127.6 | 473 | 449.9 | 146.2 |
| 64 | 51.4 | 16.7 | 114 | 108.4 | 35.2 | 174 | 165.5 | 53.8 | 234 | 222.5 | 72.3 | 224 | 279.6 | 26.9 | 354 | 336.7 | 102.4 | 414 | 393.7 | 127.9 | 474 | 450.8 | 146.5 |
| 00 | 52.3 | 17.0 | 115 | 109.4 | 35.5 | 175 | 166.4 | 54.1 | 235 | 223.5 | 72.6 | 295 | 280.8 | 91.2 | 355 | 337.6 | 100.7 | 415 | 394.7 | 120.3 | 475 | 451.0 | 140.8 |
| 36 | 03.3 | 17.3 | 116 | 110.3 | 35.8 | 170 | 167.4 | 51.4 | 236 | 224.4 | 72.2 | 296 | 201.5 | 21.5 | 356 | 338.6 | 110.0 | 416 | 395.6 | 128.6 | 470 | 452.7 | 147.1 |
| 57 | 54.2 | 17.6 | 117 | 111.3 | 36.2 | 177 | 168.3 | 54.7 | 237 | 223.4 | 73.2 | 297 | 282.5 | 21.8 | 357 | 339.5 | 116.3 | 417 | 396.8 | 128.9 | 477 | 453.7 | 147.4 |
| 50 | 05.2 | 17.9 | 118 | 112.2 | 36.5 | 178 | 189.3 | 65.0 | 238 | 226.4 | 73.5 | 290 | 203.4 | 92.1 | 358 | 340.5 | 110.6 | 418 | 397.5 | 129.2 | 478 | 454.6 | 147.7 |
| 09 | 56.1 | 18.2 | 119 | 113.2 | 36.8 | 179 | 170.2 | 55.3 | 239 | 227.3 | 73.0 | 299 | 284.4 | 92.4 | 359 | 341.4 | 116.9 | 419 | 390.5 | 129.3 | 472 | 455.8 | 148.0 |
| 60 | 57.1 | 18.5 | 120 | 114.1 | 37.1 | 186 | 171.2 | 55.6 | 240 | 228.3 | 74.2 | 300 | 285.3 | 92.7 | 360 | 342.4 | 111.3 | 420 | 392.5 | 120.8 | 480 | 456.0 | 140.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 48.ᵐ Para 72 grados. 7.ʰ 12.ᵐ

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TABLA XXXV. Diferencias en latitud y apartamientos de meridiano.

1.h 16.m — Para 19 grados. — 10.h 44.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.3 | 61 | 57.7 | 19.9 | 191 | 114.4 | 39.4 | 181 | 171.1 | 58.9 | 241 | 927.2 | 78.5 | 301 | 204.0 | 98.0 | 361 | 341.3 | 117.3 | 421 | 398.1 | 137.0 |
| 2 | 01.9 | 00.7 | 62 | 58.6 | 20.2 | 122 | 113.4 | 39.7 | 182 | 172.1 | 59.3 | 249 | 226.0 | 78.0 | 302 | 283.5 | 98.3 | 302 | 342.3 | 117.8 | 422 | 329.0 | 137.4 |
| 3 | 62.0 | 61.6 | 03 | 59.6 | 20.6 | 123 | 116.3 | 40.0 | 103 | 173.0 | 62.0 | 213 | 929.8 | 79.1 | 303 | 280.5 | 90.6 | 363 | 343.2 | 116.2 | 423 | 400.0 | 137.7 |
| 4 | 03.8 | 01.3 | 04 | 60.5 | 20.0 | 124 | 117.2 | 40.4 | 184 | 174.0 | 52.9 | 244 | 230.7 | 79.4 | 304 | 287.4 | 99.0 | 364 | 344.2 | 110.6 | 494 | 400.9 | 138.6 |
| 5 | 04.7 | 01.6 | 65 | 61.5 | 21.2 | 125 | 118.2 | 40.7 | 185 | 174.9 | 00.2 | 245 | 231.7 | 79.8 | 305 | 280.4 | 99.3 | 365 | 345.1 | 116.8 | 495 | 401.0 | 138.4 |
| 6 | 05.7 | 02.0 | 00 | 62.4 | 21.5 | 120 | 119.1 | 41.0 | 186 | 173.9 | 60.6 | 246 | 932.6 | 80.1 | 306 | 289.3 | 99.0 | 306 | 340.1 | 119.1 | 490 | 402.0 | 138.7 |
| 7 | 06.6 | 02.3 | 07 | 63.3 | 21.0 | 127 | 126.1 | 41.3 | 107 | 176.6 | 60.9 | 247 | 233.5 | 80.4 | 307 | 290.3 | 99.9 | 367 | 347.0 | 119.5 | 427 | 403.7 | 139.6 |
| 0 | 07.6 | 02.6 | 68 | 64.3 | 22.1 | 120 | 121.0 | 41.7 | 188 | 177.0 | 01.2 | 240 | 234.5 | 80.7 | 308 | 291.2 | 100.3 | 368 | 348.0 | 112.8 | 428 | 404.7 | 132.3 |
| 9 | 08.5 | 09.9 | 09 | 65.2 | 22.5 | 129 | 122.0 | 42.0 | 109 | 176.7 | 61.3 | 249 | 235.4 | 81.1 | 309 | 292.2 | 100.6 | 369 | 348.9 | 120.1 | 429 | 405.6 | 139.7 |
| 10 | 09.5 | 03.3 | 70 | 66.2 | 22.8 | 130 | 122.9 | 42.3 | 120 | 172.6 | 61.9 | 250 | 236.4 | 61.4 | 310 | 293.1 | 106.9 | 370 | 349.8 | 120.4 | 430 | 406.0 | 140.0 |
| 11 | 16.4 | 03.6 | 71 | 67.1 | 23.1 | 131 | 123.2 | 42.6 | 191 | 180.6 | 62.2 | 251 | 237.3 | 61.7 | 311 | 294.1 | 101.2 | 371 | 356.8 | 120.8 | 131 | 407.5 | 140.3 |
| 12 | 11.3 | 03.9 | 72 | 68.1 | 23.4 | 132 | 124.0 | 43.0 | 122 | 101.6 | 62.5 | 252 | 238.3 | 62.0 | 312 | 295.0 | 101.6 | 372 | 351.7 | 121.1 | 432 | 408.5 | 140.6 |
| 13 | 19.3 | 01.2 | 73 | 69.0 | 23.0 | 133 | 125.8 | 43.3 | 193 | 182.5 | 02.8 | 253 | 939.2 | 82.4 | 313 | 295.9 | 101.9 | 373 | 352.7 | 121.4 | 433 | 409.4 | 141.0 |
| 14 | 13.2 | 04.6 | 71 | 70.0 | 24.1 | 134 | 126.7 | 43.6 | 194 | 183.4 | 63.2 | 254 | 240.2 | 82.7 | 314 | 290.2 | 102.2 | 374 | 353.6 | 121.7 | 434 | 410.4 | 141.3 |
| 15 | 14.2 | 04.9 | 73 | 70.9 | 24.4 | 135 | 127.6 | 44.0 | 195 | 181.4 | 03.5 | 255 | 241.1 | 83.0 | 315 | 297.0 | 102.5 | 375 | 351.6 | 122.1 | 435 | 411.3 | 141.0 |
| 16 | 15.1 | 05.2 | 76 | 71.9 | 24.7 | 136 | 126.0 | 44.3 | 190 | 185.3 | 63.8 | 256 | 242.1 | 83.3 | 316 | 298.0 | 109.9 | 376 | 355.5 | 122.4 | 136 | 412.2 | 141.2 |
| 17 | 10.1 | 03.5 | 77 | 72.8 | 26.1 | 137 | 122.5 | 44.6 | 197 | 100.3 | 64.1 | 257 | 243.0 | 83.7 | 317 | 299.7 | 103.2 | 377 | 356.5 | 122.7 | 437 | 413.2 | 142.3 |
| 18 | 17.0 | 05.9 | 78 | 73.0 | 25.4 | 138 | 130.5 | 44.9 | 198 | 167.2 | 64.5 | 258 | 943.9 | 84.0 | 318 | 300.7 | 103.5 | 378 | 357.4 | 123.0 | 438 | 414.1 | 142.6 |
| 19 | 18.0 | 00.2 | 79 | 74.7 | 23.7 | 139 | 131.4 | 45.3 | 129 | 180.2 | 64.8 | 259 | 244.9 | 64.3 | 319 | 301.6 | 103.8 | 379 | 358.4 | 193.4 | 439 | 415.1 | 142.9 |
| 20 | 18.9 | 06.3 | 80 | 73.0 | 26.0 | 140 | 132.4 | 46.0 | 200 | 189.1 | 65.1 | 260 | 245.8 | 84.0 | 320 | 302.6 | 104.2 | 380 | 359.3 | 123.7 | 440 | 416.0 | 143.9 |
| 21 | 19.9 | 06.8 | 81 | 76.0 | 26.4 | 141 | 133.3 | 43.9 | 201 | 190.0 | 05.4 | 261 | 240.8 | 85.0 | 391 | 303.5 | 104.5 | 381 | 360.2 | 124.0 | 141 | 417.0 | 143.6 |
| 29 | 26.8 | 07.2 | 82 | 77.5 | 20.7 | 142 | 134.3 | 40.2 | 202 | 191.0 | 65.8 | 262 | 247.7 | 85.3 | 322 | 304.5 | 104.8 | 382 | 361.9 | 124.4 | 442 | 417.2 | 143.9 |
| 23 | 21.7 | 07.5 | 83 | 78.5 | 27.0 | 143 | 135.2 | 40.0 | 203 | 191.9 | 66.1 | 203 | 940.7 | 85.0 | 323 | 305.4 | 105.1 | 383 | 362.1 | 124.7 | 143 | 418.9 | 144.9 |
| 24 | 22.7 | 07.8 | 84 | 79.4 | 27.3 | 144 | 130.2 | 46.9 | 204 | 192.9 | 60.4 | 964 | 242.6 | 60.0 | 324 | 306.3 | 105.5 | 384 | 363.1 | 125.0 | 441 | 419.8 | 144.5 |
| 25 | 93.6 | 08.1 | 65 | 00.4 | 27.7 | 145 | 137.1 | 47.2 | 205 | 193.6 | 06.7 | 265 | 250.6 | 06.3 | 325 | 307.3 | 105.8 | 385 | 364.0 | 126.3 | 445 | 420.0 | 144.9 |
| 26 | 24.6 | 08.3 | 00 | 81.3 | 28.0 | 140 | 130.0 | 47.5 | 206 | 194.8 | 07.1 | 206 | 251.5 | 80.0 | 390 | 300.2 | 100.1 | 386 | 363.0 | 123.7 | 446 | 421.7 | 145.2 |
| 27 | 25.3 | 00.8 | 07 | 82.3 | 28.3 | 147 | 132.0 | 47.9 | 207 | 193.7 | 07.4 | 267 | 252.5 | 66.9 | 327 | 302.2 | 106.4 | 387 | 363.9 | 120.0 | 447 | 422.6 | 145.5 |
| 20 | 26.5 | 09.1 | 08 | 63.2 | 28.7 | 140 | 132.2 | 40.2 | 208 | 190.7 | 67.7 | 268 | 253.4 | 67.3 | 328 | 310.1 | 106.8 | 388 | 306.9 | 126.3 | 440 | 493.6 | 146.0 |
| 29 | 97.4 | 02.4 | 09 | 84.2 | 29.0 | 142 | 140.9 | 40.3 | 209 | 197.6 | 68.0 | 209 | 254.3 | 87.6 | 329 | 311.1 | 107.1 | 389 | 367.8 | 120.0 | 149 | 424.5 | 146.2 |
| 30 | 28.4 | 69.0 | 90 | 85.1 | 29.3 | 130 | 141.8 | 40.8 | 910 | 128.6 | 68.4 | 270 | 253.3 | 67.9 | 330 | 312.0 | 107.4 | 390 | 368.8 | 127.0 | 450 | 425.5 | 140.0 |
| 31 | 29.3 | 10.1 | 91 | 86.0 | 29.0 | 151 | 142.8 | 49.2 | 211 | 192.5 | 68.7 | 271 | 250.9 | 80.2 | 331 | 313.0 | 167.7 | 391 | 369.7 | 127.3 | 451 | 426.4 | 140.0 |
| 39 | 36.3 | 10.4 | 92 | 07.0 | 30.0 | 152 | 143.7 | 49.6 | 212 | 200.4 | 62.0 | 272 | 257.2 | 80.6 | 339 | 313.9 | 108.1 | 392 | 370.6 | 197.6 | 452 | 427.4 | 147.1 |
| 33 | 31.2 | 10.7 | 93 | 87.2 | 30.3 | 153 | 144.7 | 42.0 | 213 | 901.4 | 62.3 | 973 | 256.1 | 88.9 | 333 | 314.9 | 108.4 | 393 | 371.6 | 127.9 | 453 | 498.3 | 147.6 |
| 34 | 32.1 | 11.1 | 94 | 08.2 | 30.6 | 154 | 143.0 | 60.1 | 214 | 202.3 | 62.7 | 274 | 259.1 | 89.2 | 334 | 313.8 | 108.7 | 394 | 372.5 | 128.3 | 454 | 429.3 | 147.8 |
| 35 | 33.1 | 11.4 | 95 | 89.8 | 30.9 | 155 | 146.6 | 50.5 | 213 | 203.3 | 70.0 | 275 | 260.0 | 69.5 | 335 | 316.7 | 109.1 | 393 | 373.5 | 120.6 | 455 | 430.2 | 148.1 |
| 36 | 34.6 | 11.7 | 96 | 90.0 | 31.3 | 156 | 147.5 | 50.8 | 216 | 204.2 | 70.3 | 276 | 261.0 | 89.9 | 330 | 317.7 | 109.4 | 396 | 374.4 | 120.9 | 456 | 431.2 | 148.4 |
| 37 | 35.6 | 12.0 | 97 | 91.7 | 31.6 | 157 | 148.4 | 51.1 | 217 | 205.2 | 70.6 | 277 | 261.9 | 90.2 | 337 | 318.6 | 109.7 | 397 | 375.4 | 129.2 | 457 | 432.1 | 148.0 |
| 30 | 35.9 | 12.4 | 98 | 92.7 | 31.9 | 158 | 149.4 | 51.4 | 218 | 206.1 | 71.0 | 270 | 962.9 | 90.5 | 338 | 319.6 | 110.0 | 390 | 376.3 | 129.6 | 458 | 433.0 | 149.1 |
| 39 | 36.9 | 12.7 | 92 | 93.0 | 32.2 | 159 | 156.3 | 51.8 | 219 | 907.1 | 71.3 | 279 | 263.8 | 90.8 | 339 | 320.5 | 110.4 | 399 | 377.3 | 129.9 | 459 | 434.0 | 142.4 |
| 40 | 37.0 | 13.6 | 100 | 24.6 | 32.6 | 160 | 131.3 | 52.1 | 220 | 208.0 | 71.6 | 280 | 264.7 | 91.2 | 340 | 321.5 | 110.7 | 100 | 378.9 | 136.2 | 460 | 434.9 | 149.7 |
| 41 | 30.8 | 13.3 | 101 | 95.5 | 32.9 | 161 | 159.2 | 52.4 | 221 | 209.0 | 72.0 | 901 | 265.7 | 21.5 | 341 | 392.4 | 111.0 | 101 | 379.2 | 130.5 | 461 | 435.9 | 150.1 |
| 42 | 39.7 | 13.7 | 102 | 26.4 | 33.2 | 162 | 153.2 | 52.7 | 222 | 209.9 | 72.3 | 282 | 260.6 | 91.8 | 342 | 323.4 | 111.3 | 402 | 380.1 | 130.9 | 462 | 436.0 | 150.4 |
| 43 | 40.7 | 14.0 | 103 | 97.4 | 33.5 | 163 | 154.1 | 53.1 | 223 | 210.2 | 72.6 | 283 | 267.6 | 92.1 | 343 | 324.3 | 111.7 | 403 | 381.0 | 131.2 | 463 | 437.8 | 150.7 |
| 41 | 41.0 | 14.3 | 104 | 90.3 | 33.9 | 164 | 155.1 | 53.4 | 221 | 211.0 | 72.9 | 284 | 260.5 | 92.5 | 314 | 325.3 | 112.0 | 104 | 389.0 | 131.5 | 461 | 430.7 | 151.6 |
| 45 | 42.6 | 14.7 | 105 | 99.3 | 34.2 | 165 | 150.0 | 53.7 | 225 | 212.7 | 73.3 | 285 | 262.5 | 22.0 | 345 | 326.2 | 112.3 | 405 | 382.9 | 131.8 | 465 | 432.7 | 151.4 |
| 40 | 43.5 | 15.0 | 106 | 160.2 | 34.5 | 160 | 157.0 | 54.0 | 226 | 213.7 | 73.6 | 280 | 276.4 | 93.1 | 346 | 327.1 | 112.6 | 406 | 383.9 | 132.2 | 166 | 410.6 | 151.7 |
| 47 | 41.4 | 15.3 | 107 | 101.2 | 31.8 | 107 | 157.9 | 54.4 | 227 | 214.6 | 73.9 | 287 | 271.4 | 93.4 | 347 | 328.1 | 113.0 | 407 | 304.8 | 132.5 | 467 | 441.0 | 152.0 |
| 40 | 45.4 | 15.6 | 100 | 102.1 | 35.2 | 160 | 150.6 | 54.7 | 220 | 215.0 | 74.2 | 280 | 272.3 | 93.8 | 348 | 322.0 | 113.3 | 408 | 385.8 | 132.8 | 168 | 412.5 | 152.4 |
| 49 | 46.3 | 10.6 | 109 | 103.1 | 35.5 | 102 | 159.0 | 55.0 | 929 | 216.5 | 74.6 | 289 | 273.3 | 94.1 | 349 | 330.0 | 113.0 | 409 | 386.7 | 133.1 | 469 | 443.4 | 152.7 |
| 50 | 47.3 | 16.3 | 110 | 104.6 | 35.0 | 170 | 100.7 | 55.3 | 930 | 217.5 | 74.9 | 220 | 274.2 | 94.4 | 350 | 330.9 | 113.9 | 410 | 387.7 | 133.5 | 476 | 444.4 | 163.0 |
| 51 | 40.2 | 16.6 | 111 | 105.6 | 36.1 | 171 | 161.7 | 55.7 | 231 | 218.4 | 75.2 | 291 | 275.1 | 94.7 | 351 | 331.9 | 114.3 | 411 | 388.6 | 133.8 | 471 | 445.3 | 153.3 |
| 52 | 49.2 | 10.9 | 112 | 105.9 | 36.5 | 172 | 162.6 | 56.0 | 239 | 219.4 | 70.5 | 292 | 276.1 | 95.1 | 352 | 332.8 | 114.6 | 412 | 389.6 | 134.1 | 472 | 446.3 | 153.7 |
| 53 | 60.1 | 17.3 | 113 | 160.8 | 36.0 | 173 | 163.6 | 66.3 | 233 | 226.3 | 75.9 | 293 | 277.6 | 95.4 | 353 | 333.8 | 114.9 | 413 | 390.6 | 134.4 | 473 | 447.2 | 154.6 |
| 54 | 51.1 | 17.6 | 114 | 107.8 | 37.1 | 174 | 164.5 | 56.0 | 234 | 221.0 | 76.2 | 224 | 270.0 | 95.7 | 354 | 334.7 | 115.2 | 114 | 391.4 | 134.8 | 474 | 440.2 | 154.3 |
| 55 | 52.6 | 17.9 | 115 | 106.7 | 37.4 | 175 | 105.6 | 57.0 | 235 | 222.2 | 76.5 | 295 | 270.9 | 96.0 | 355 | 335.7 | 115.6 | 415 | 392.4 | 135.1 | 475 | 449.1 | 154.6 |
| 66 | 62.9 | 10.2 | 116 | 109.7 | 37.8 | 170 | 166.4 | 57.3 | 236 | 223.1 | 76.0 | 296 | 279.9 | 90.4 | 356 | 330.6 | 115.9 | 416 | 393.3 | 135.4 | 476 | 450.1 | 155.6 |
| 57 | 53.9 | 18.6 | 117 | 110.8 | 30.1 | 177 | 167.4 | 57.6 | 237 | 224.1 | 77.2 | 297 | 286.0 | 96.7 | 357 | 337.5 | 116.9 | 117 | 394.3 | 135.7 | 477 | 451.0 | 155.3 |
| 58 | 54.0 | 10.9 | 110 | 111.6 | 30.4 | 178 | 166.3 | 58.0 | 230 | 226.6 | 77.5 | 298 | 281.8 | 97.0 | 350 | 336.5 | 116.5 | 410 | 395.2 | 136.1 | 470 | 452.0 | 155.6 |
| 59 | 55.0 | 19.2 | 112 | 112.5 | 30.7 | 179 | 169.2 | 50.3 | 239 | 290.6 | 77.8 | 229 | 202.7 | 97.3 | 359 | 339.4 | 116.9 | 419 | 396.2 | 136.4 | 479 | 452.9 | 155.9 |
| 60 | 56.7 | 19.5 | 120 | 113.5 | 39.1 | 100 | 176.2 | 58.6 | 240 | 226.9 | 76.1 | 300 | 283.7 | 97.7 | 360 | 310.4 | 117.2 | 420 | 397.1 | 136.7 | 480 | 453.8 | 150.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 44.m — Para 71 grados. — 7.h 16.m

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.h 20.m Para 20 grados. 10.h 40.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90.2 | 00.3 | 61 | 57.3 | 20.9 | 121 | 113.7 | 41.4 | 181 | 170.1 | 61.9 | 241 | 926.6 | 82.4 | 301 | 002.9 | 103.0 | 361 | 339.2 | 123.5 | 401 | 395.6 | 144.0 |
| 2 | 91.2 | 09.7 | 69 | 59.3 | 21.2 | 122 | 114.6 | 41.7 | 182 | 171.0 | 69.2 | 242 | 227.4 | 02.8 | 302 | 283.8 | 193.3 | 362 | 310.2 | 123.8 | 422 | 306.6 | 144.3 |
| 3 | 02.8 | 01.0 | 63 | 59.0 | 21.5 | 123 | 115.6 | 42.1 | 183 | 179.0 | 60.6 | 243 | 228.3 | 03.1 | 303 | 284.7 | 103.6 | 363 | 341.1 | 124.2 | 423 | 397.6 | 144.7 |
| 4 | 03.6 | 01.4 | 64 | 60.1 | 21.9 | 124 | 116.6 | 42.4 | 184 | 170.2 | 62.9 | 244 | 229.3 | 83.5 | 304 | 085.7 | 104.0 | 364 | 342.1 | 124.6 | 124 | 300.4 | 145.0 |
| 6 | 04.7 | 01.7 | 65 | 61.1 | 92.2 | 125 | 117.6 | 40.8 | 185 | 173.0 | 63.3 | 245 | 030.2 | 83.8 | 305 | 286.6 | 104.3 | 365 | 343.0 | 194.8 | 425 | 399.4 | 146.4 |
| 6 | 06.6 | 02.1 | 66 | 62.9 | 29.6 | 126 | 116.4 | 43.1 | 186 | 174.6 | 63.6 | 246 | 031.2 | 84.1 | 306 | 287.6 | 104.7 | 366 | 343.9 | 125.2 | 426 | 400.3 | 145.7 |
| 7 | 06.6 | 02.4 | 67 | 63.0 | 22.9 | 127 | 119.3 | 43.4 | 187 | 175.7 | 64.0 | 247 | 232.1 | 84.5 | 307 | 288.5 | 105.0 | 367 | 344.9 | 105.5 | 427 | 401.3 | 146.1 |
| 6 | 07.5 | 02.7 | 68 | 63.2 | 03.3 | 128 | 129.3 | 43.8 | 188 | 176.7 | 64.3 | 248 | 233.0 | 04.8 | 306 | 089.4 | 106.4 | 368 | 345.8 | 105.9 | 428 | 402.2 | 146.4 |
| 2 | 08.5 | 03.1 | 69 | 64.6 | 23.6 | 129 | 101.0 | 41.1 | 189 | 177.6 | 64.6 | 249 | 034.0 | 05.2 | 309 | 090.4 | 105.7 | 369 | 346.0 | 106.2 | 422 | 103.1 | 146.7 |
| 10 | 09.4 | 03.4 | 70 | 65.0 | 23.9 | 130 | 122.0 | 44.6 | 190 | 176.6 | 65.0 | 250 | 234.9 | 85.5 | 310 | 291.3 | 106.0 | 370 | 347.7 | 106.6 | 430 | 404.1 | 147.1 |
| 11 | 19.3 | 93.8 | 71 | 66.7 | 24.3 | 131 | 123.1 | 44.8 | 191 | 172.5 | 05.3 | 251 | 235.9 | 05.8 | 311 | 292.3 | 106.4 | 371 | 349.0 | 126.9 | 431 | 405.0 | 147.4 |
| 12 | 11.3 | 94.1 | 72 | 67.7 | 24.6 | 132 | 124.0 | 45.1 | 192 | 180.4 | 65.7 | 252 | 236.8 | 86.2 | 312 | 293.2 | 106.7 | 370 | 340.6 | 127.2 | 432 | 406.0 | 147.8 |
| 13 | 12.0 | 04.4 | 73 | 68.6 | 25.0 | 133 | 125.0 | 45.6 | 193 | 181.4 | 66.0 | 253 | 237.7 | 06.6 | 313 | 294.1 | 107.1 | 373 | 359.6 | 127.6 | 433 | 406.2 | 148.1 |
| 14 | 13.2 | 91.8 | 74 | 62.6 | 25.3 | 134 | 125.9 | 43.8 | 194 | 182.3 | 66.4 | 254 | 238.7 | 86.9 | 314 | 995.1 | 107.4 | 374 | 351.5 | 127.9 | 434 | 407.8 | 140.4 |
| 15 | 14.1 | 95.1 | 75 | 70.6 | 25.7 | 135 | 126.9 | 46.2 | 195 | 183.2 | 66.7 | 255 | 239.6 | 87.0 | 315 | 296.0 | 107.7 | 375 | 352.4 | 128.3 | 435 | 408.0 | 148.8 |
| 16 | 15.0 | 06.6 | 76 | 71.4 | 26.0 | 136 | 107.8 | 46.5 | 196 | 184.2 | 67.0 | 256 | 240.6 | 87.6 | 316 | 297.0 | 108.1 | 376 | 353.3 | 108.6 | 436 | 409.7 | 149.1 |
| 17 | 16.0 | 06.8 | 77 | 72.4 | 26.3 | 137 | 108.7 | 46.9 | 197 | 185.1 | 67.4 | 257 | 241.5 | 97.9 | 317 | 297.9 | 108.4 | 377 | 354.3 | 129.0 | 437 | 410.7 | 149.5 |
| 10 | 16.9 | 06.2 | 78 | 73.3 | 26.7 | 138 | 109.7 | 47.2 | 198 | 186.1 | 67.7 | 258 | 242.4 | 88.0 | 318 | 998.6 | 108.8 | 378 | 355.0 | 129.3 | 438 | 411.6 | 149.8 |
| 19 | 17.9 | 06.5 | 79 | 74.0 | 27.0 | 139 | 130.6 | 47.5 | 199 | 187.0 | 68.1 | 259 | 243.4 | 88.6 | 319 | 299.0 | 109.1 | 379 | 356.2 | 129.6 | 439 | 412.5 | 150.2 |
| 20 | 18.8 | 06.8 | 80 | 75.9 | 27.4 | 140 | 131.6 | 47.9 | 200 | 187.9 | 68.4 | 260 | 244.3 | 88.9 | 320 | 390.7 | 109.5 | 380 | 357.1 | 130.0 | 440 | 413.6 | 150.5 |
| 01 | 19.7 | 07.2 | 81 | 76.1 | 27.7 | 141 | 132.6 | 48.2 | 201 | 188.9 | 68.7 | 261 | 246.3 | 89.3 | 321 | 301.6 | 109.8 | 381 | 358.0 | 130.3 | 441 | 414.4 | 159.8 |
| 22 | 90.7 | 07.5 | 82 | 77.1 | 08.0 | 142 | 133.4 | 40.6 | 202 | 189.8 | 60.1 | 262 | 246.2 | 89.6 | 322 | 302.6 | 119.1 | 382 | 352.0 | 139.7 | 442 | 415.4 | 151.2 |
| 23 | 21.6 | 07.9 | 03 | 78.0 | 28.4 | 143 | 134.4 | 48.9 | 293 | 199.8 | 69.4 | 263 | 247.1 | 90.0 | 323 | 303.5 | 110.5 | 383 | 359.9 | 131.0 | 443 | 416.3 | 151.5 |
| 24 | 92.6 | 08.2 | 84 | 70.0 | 28.7 | 144 | 135.3 | 49.3 | 294 | 191.7 | 69.8 | 264 | 240.1 | 00.3 | 324 | 304.5 | 119.8 | 384 | 360.8 | 131.3 | 414 | 417.2 | 151.9 |
| 25 | 23.6 | 00.6 | 05 | 72.2 | 29.1 | 145 | 136.3 | 49.6 | 205 | 192.6 | 79.1 | 265 | 242.0 | 90.6 | 325 | 305.4 | 111.2 | 385 | 361.8 | 131.7 | 445 | 410.2 | 152.2 |
| 26 | 24.4 | 08.0 | 86 | 00.8 | 29.4 | 146 | 137.9 | 49.9 | 206 | 193.6 | 79.6 | 266 | 250.0 | 91.0 | 326 | 306.3 | 111.6 | 386 | 362.7 | 132.0 | 446 | 419.1 | 152.5 |
| 07 | 25.4 | 09.0 | 87 | 61.8 | 09.8 | 147 | 138.1 | 59.3 | 207 | 194.5 | 70.8 | 267 | 250.9 | 91.3 | 327 | 307.3 | 111.8 | 387 | 363.7 | 132.4 | 447 | 429.0 | 152.9 |
| 20 | 26.3 | 09.6 | 88 | 02.7 | 30.1 | 148 | 139.1 | 59.6 | 208 | 105.5 | 71.1 | 268 | 251.8 | 91.7 | 328 | 308.2 | 112.2 | 388 | 364.6 | 132.7 | 448 | 421.0 | 163.2 |
| 22 | 27.3 | 09.9 | 09 | 83.6 | 30.4 | 149 | 140.0 | 51.0 | 209 | 106.4 | 71.5 | 269 | 252.8 | 92.9 | 309 | 309.2 | 112.5 | 389 | 366.5 | 133.1 | 449 | 401.2 | 163.6 |
| 30 | 28.9 | 10.3 | 90 | 84.6 | 30.8 | 150 | 141.0 | 51.3 | 210 | 197.3 | 71.8 | 270 | 253.7 | 92.3 | 330 | 310.1 | 112.9 | 390 | 366.5 | 133.4 | 450 | 422.9 | 153.9 |
| 31 | 29.1 | 10.0 | 21 | 85.5 | 31.1 | 151 | 141.9 | 51.6 | 211 | 108.3 | 72.0 | 271 | 254.7 | 92.7 | 331 | 311.9 | 113.2 | 391 | 367.4 | 133.7 | 451 | 423.8 | 164.3 |
| 30 | 39.1 | 10.9 | 92 | 86.5 | 31.5 | 152 | 142.0 | 62.0 | 212 | 109.2 | 72.6 | 272 | 265.0 | 93.9 | 332 | 310.0 | 113.6 | 392 | 368.4 | 134.1 | 452 | 424.7 | 154.6 |
| 33 | 31.0 | 11.3 | 23 | 07.4 | 31.8 | 153 | 143.6 | 62.3 | 213 | 209.2 | 72.9 | 073 | 266.5 | 93.4 | 333 | 312.2 | 113.9 | 393 | 369.3 | 134.4 | 453 | 405.7 | 154.9 |
| 34 | 31.9 | 11.6 | 24 | 88.3 | 32.1 | 154 | 144.7 | 59.7 | 214 | 201.1 | 73.2 | 274 | 257.5 | 93.7 | 334 | 313.9 | 114.2 | 394 | 370.2 | 134.0 | 454 | 426.6 | 155.3 |
| 35 | 32.9 | 12.0 | 95 | 89.3 | 32.6 | 155 | 145.7 | 53.0 | 215 | 202.0 | 73.5 | 275 | 250.4 | 94.1 | 335 | 314.0 | 114.6 | 395 | 371.2 | 135.1 | 455 | 427.6 | 155.6 |
| 36 | 33.0 | 12.3 | 96 | 29.2 | 32.0 | 156 | 146.6 | 53.4 | 216 | 203.0 | 73.9 | 276 | 252.4 | 94.4 | 336 | 316.7 | 114.9 | 396 | 372.1 | 136.4 | 456 | 408.6 | 156.0 |
| 37 | 31.0 | 10.7 | 97 | 21.2 | 33.2 | 157 | 147.6 | 63.7 | 217 | 203.9 | 74.2 | 277 | 260.3 | 94.7 | 337 | 316.7 | 115.3 | 397 | 373.1 | 135.8 | 457 | 429.4 | 160.3 |
| 30 | 35.7 | 13.0 | 98 | 92.1 | 33.5 | 158 | 148.6 | 54.0 | 210 | 204.9 | 74.6 | 278 | 261.0 | 95.1 | 338 | 317.6 | 115.6 | 398 | 374.0 | 136.1 | 458 | 439.4 | 156.7 |
| 30 | 36.6 | 13.3 | 99 | 23.9 | 33.9 | 159 | 149.4 | 54.4 | 219 | 205.0 | 74.9 | 279 | 262.2 | 95.4 | 339 | 310.6 | 116.0 | 399 | 374.9 | 136.5 | 459 | 431.3 | 157.0 |
| 40 | 37.6 | 13.7 | 100 | 94.0 | 34.2 | 160 | 150.4 | 54.7 | 229 | 206.7 | 76.2 | 280 | 263.1 | 95.8 | 340 | 319.6 | 116.3 | 400 | 375.9 | 136.8 | 460 | 432.3 | 167.4 |
| 41 | 38.6 | 14.0 | 101 | 24.2 | 34.5 | 161 | 151.3 | 55.1 | 221 | 207.7 | 75.6 | 281 | 264.1 | 96.1 | 341 | 300.4 | 116.6 | 401 | 376.8 | 137.2 | 461 | 433.2 | 157.7 |
| 42 | 39.5 | 14.4 | 102 | 25.8 | 34.9 | 160 | 159.2 | 53.4 | 222 | 208.6 | 76.9 | 280 | 265.9 | 96.4 | 349 | 321.4 | 117.0 | 402 | 377.8 | 137.5 | 462 | 434.1 | 150.0 |
| 43 | 40.4 | 14.7 | 103 | 26.8 | 35.2 | 163 | 153.2 | 55.7 | 223 | 209.6 | 76.3 | 283 | 266.9 | 96.8 | 343 | 320.3 | 117.3 | 403 | 378.7 | 137.8 | 463 | 435.1 | 158.4 |
| 44 | 41.3 | 15.0 | 104 | 97.7 | 35.6 | 164 | 154.1 | 56.1 | 224 | 210.5 | 76.6 | 284 | 066.9 | 97.1 | 344 | 323.3 | 117.7 | 494 | 379.6 | 138.2 | 464 | 436.9 | 168.7 |
| 45 | 42.3 | 15.4 | 105 | 23.7 | 35.9 | 165 | 155.0 | 56.4 | 225 | 211.4 | 77.0 | 285 | 267.8 | 97.6 | 345 | 304.2 | 118.9 | 405 | 380.6 | 130.6 | 465 | 437.0 | 152.0 |
| 40 | 43.2 | 15.7 | 106 | 99.6 | 36.3 | 166 | 156.0 | 66.8 | 226 | 212.4 | 77.3 | 286 | 260.8 | 97.0 | 346 | 325.1 | 118.4 | 406 | 381.5 | 130.9 | 466 | 437.2 | 159.4 |
| 47 | 44.9 | 16.1 | 107 | 100.5 | 35.6 | 167 | 156.9 | 57.1 | 227 | 213.3 | 77.6 | 287 | 262.7 | 90.2 | 347 | 326.1 | 118.7 | 407 | 382.6 | 139.2 | 467 | 430.0 | 159.7 |
| 40 | 45.1 | 16.4 | 108 | 101.5 | 36.9 | 168 | 157.2 | 67.5 | 208 | 014.2 | 76.0 | 288 | 279.6 | 90.6 | 348 | 327.9 | 119.0 | 408 | 383.4 | 139.6 | 468 | 439.6 | 160.1 |
| 42 | 46.0 | 16.8 | 109 | 102.4 | 37.3 | 169 | 158.6 | 67.8 | 229 | 215.2 | 79.3 | 289 | 271.6 | 90.8 | 349 | 328.9 | 119.4 | 409 | 384.3 | 139.9 | 469 | 449.7 | 160.4 |
| 60 | 47.0 | 17.1 | 119 | 193.4 | 37.6 | 170 | 159.7 | 58.1 | 230 | 216.1 | 70.7 | 299 | 272.6 | 99.2 | 350 | 328.9 | 119.7 | 410 | 385.3 | 140.2 | 470 | 441.7 | 160.8 |
| 61 | 47.2 | 17.4 | 111 | 104.3 | 38.9 | 171 | 169.7 | 58.6 | 231 | 217.1 | 72.9 | 291 | 273.6 | 99.5 | 351 | 329.0 | 129.1 | 411 | 386.2 | 149.6 | 471 | 442.6 | 161.1 |
| 62 | 48.9 | 17.8 | 112 | 105.2 | 38.3 | 172 | 161.6 | 68.8 | 232 | 210.9 | 79.3 | 292 | 274.4 | 99.9 | 352 | 330.6 | 120.4 | 412 | 387.2 | 140.9 | 472 | 443.6 | 161.4 |
| 63 | 49.0 | 18.1 | 113 | 106.2 | 38.6 | 173 | 169.6 | 59.2 | 233 | 218.9 | 79.7 | 293 | 275.3 | 100.2 | 353 | 331.7 | 120.7 | 413 | 388.1 | 141.3 | 473 | 444.6 | 161.8 |
| 64 | 69.7 | 18.5 | 114 | 107.1 | 39.9 | 174 | 163.6 | 59.5 | 234 | 219.9 | 89.0 | 294 | 276.3 | 100.6 | 354 | 332.7 | 121.1 | 414 | 389.9 | 141.6 | 474 | 445.4 | 162.1 |
| 66 | 61.7 | 10.8 | 115 | 108.1 | 32.3 | 175 | 164.4 | 59.9 | 235 | 229.8 | 80.4 | 295 | 277.2 | 100.9 | 365 | 333.6 | 121.4 | 415 | 399.9 | 141.9 | 475 | 446.4 | 162.5 |
| 66 | 62.6 | 19.2 | 116 | 109.9 | 39.7 | 176 | 165.4 | 69.2 | 236 | 201.0 | 00.7 | 096 | 276.1 | 101.2 | 356 | 334.6 | 121.8 | 416 | 390.9 | 142.3 | 476 | 447.3 | 162.8 |
| 67 | 63.6 | 10.6 | 117 | 109.9 | 40.9 | 177 | 166.3 | 69.5 | 237 | 222.7 | 01.1 | 297 | 279.1 | 101.6 | 357 | 335.6 | 122.1 | 417 | 391.9 | 142.6 | 477 | 446.2 | 163.2 |
| 60 | 64.6 | 12.8 | 118 | 110.9 | 49.4 | 178 | 167.3 | 60.9 | 230 | 223.6 | 81.4 | 298 | 280.9 | 101.9 | 350 | 336.4 | 122.6 | 418 | 392.8 | 143.0 | 478 | 442.2 | 163.5 |
| 62 | 66.4 | 20.2 | 119 | 111.8 | 40.7 | 179 | 168.2 | 61.2 | 239 | 224.6 | 81.7 | 299 | 281.9 | 102.3 | 359 | 337.4 | 122.8 | 419 | 393.7 | 143.3 | 479 | 450.1 | 163.8 |
| 60 | 56.4 | 29.5 | 120 | 112.8 | 41.9 | 180 | 169.1 | 61.6 | 240 | 226.6 | 80.1 | 309 | 281.9 | 102.6 | 369 | 330.3 | 123.1 | 420 | 394.7 | 143.7 | 409 | 451.1 | 164.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 40.m Para 70 grados. 7.h 20.m

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TABLA XXXV. Diferencias en latitud y apatamientos de meridiano.

1.h 24.m — Para 21 grados. — 10.h 36.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.4 | 61 | 56.9 | 21.9 | 121 | 113.0 | 43.4 | 181 | 169.0 | 64.9 | 241 | 225.0 | 86.4 | 301 | 281.0 | 107.9 | 361 | 337.0 | 129.4 | 421 | 393.0 | 150.9 |
| 2 | 01.9 | 00.7 | 62 | 57.9 | 22.2 | 122 | 113.9 | 43.7 | 182 | 169.9 | 65.2 | 242 | 225.9 | 86.7 | 302 | 281.9 | 108.2 | 362 | 338.0 | 129.7 | 422 | 394.0 | 151.2 |
| 3 | 02.8 | 01.1 | 63 | 58.8 | 22.6 | 123 | 114.8 | 44.1 | 183 | 170.8 | 65.6 | 243 | 226.9 | 87.1 | 303 | 282.9 | 108.6 | 363 | 338.9 | 130.1 | 423 | 394.9 | 151.6 |
| 4 | 03.7 | 01.4 | 64 | 59.7 | 22.9 | 124 | 115.8 | 44.4 | 184 | 171.8 | 65.9 | 244 | 227.8 | 87.4 | 304 | 283.8 | 108.9 | 364 | 339.8 | 130.4 | 424 | 395.8 | 151.9 |
| 5 | 04.7 | 01.8 | 65 | 60.7 | 23.3 | 125 | 116.7 | 44.8 | 185 | 172.7 | 66.3 | 245 | 228.7 | 87.8 | 305 | 284.7 | 109.3 | 365 | 340.8 | 130.8 | 425 | 396.8 | 152.3 |
| 6 | 05.6 | 02.2 | 66 | 61.6 | 23.7 | 126 | 117.6 | 45.2 | 186 | 173.6 | 66.7 | 246 | 229.7 | 88.2 | 306 | 285.7 | 109.7 | 366 | 341.7 | 131.2 | 426 | 397.7 | 152.7 |
| 7 | 06.5 | 02.5 | 67 | 62.5 | 24.0 | 127 | 118.6 | 45.5 | 187 | 174.6 | 67.0 | 247 | 230.6 | 88.5 | 307 | 286.6 | 110.0 | 367 | 342.6 | 131.5 | 427 | 398.6 | 153.0 |
| 8 | 07.5 | 02.9 | 68 | 63.5 | 24.4 | 128 | 119.5 | 45.9 | 188 | 175.5 | 67.4 | 248 | 231.5 | 88.9 | 308 | 287.5 | 110.4 | 368 | 343.6 | 131.9 | 428 | 399.6 | 153.4 |
| 9 | 08.4 | 03.2 | 69 | 64.4 | 24.7 | 129 | 120.4 | 46.2 | 189 | 176.4 | 67.7 | 249 | 232.5 | 89.2 | 309 | 288.5 | 110.7 | 369 | 344.5 | 132.2 | 429 | 400.5 | 153.7 |
| 10 | 09.3 | 03.6 | 70 | 65.4 | 25.1 | 130 | 121.4 | 46.6 | 190 | 177.4 | 68.1 | 250 | 233.4 | 89.6 | 310 | 289.4 | 111.1 | 370 | 345.4 | 132.6 | 430 | 401.4 | 154.1 |
| 11 | 10.3 | 03.9 | 71 | 66.3 | 25.4 | 131 | 122.3 | 46.9 | 191 | 178.3 | 68.4 | 251 | 234.3 | 90.0 | 311 | 290.3 | 111.5 | 371 | 346.4 | 133.0 | 431 | 402.4 | 154.5 |
| 12 | 11.2 | 04.3 | 72 | 67.2 | 25.8 | 132 | 123.2 | 47.3 | 192 | 179.2 | 68.8 | 252 | 235.3 | 90.3 | 312 | 291.3 | 111.8 | 372 | 347.3 | 133.3 | 432 | 403.3 | 154.8 |
| 13 | 12.1 | 04.7 | 73 | 68.2 | 26.2 | 133 | 124.2 | 47.7 | 193 | 180.2 | 69.2 | 253 | 236.2 | 90.7 | 313 | 292.2 | 112.2 | 373 | 348.2 | 133.7 | 433 | 404.2 | 155.2 |
| 14 | 13.1 | 05.0 | 74 | 69.1 | 26.5 | 134 | 125.1 | 48.0 | 194 | 181.1 | 69.5 | 254 | 237.1 | 91.0 | 314 | 293.1 | 112.5 | 374 | 349.2 | 134.0 | 434 | 405.2 | 155.5 |
| 15 | 14.0 | 05.4 | 75 | 70.0 | 26.9 | 135 | 126.0 | 48.4 | 195 | 182.0 | 69.9 | 255 | 238.1 | 91.4 | 315 | 294.1 | 112.9 | 375 | 350.1 | 134.4 | 435 | 406.1 | 155.9 |
| 16 | 14.9 | 05.7 | 76 | 71.0 | 27.2 | 136 | 127.0 | 48.7 | 196 | 183.0 | 70.2 | 256 | 239.0 | 91.7 | 316 | 295.0 | 113.2 | 376 | 351.0 | 134.7 | 436 | 407.0 | 156.2 |
| 17 | 15.9 | 06.1 | 77 | 71.9 | 27.6 | 137 | 127.9 | 49.1 | 197 | 183.9 | 70.6 | 257 | 239.9 | 92.1 | 317 | 295.9 | 113.6 | 377 | 352.0 | 135.1 | 437 | 408.0 | 156.6 |
| 18 | 16.8 | 06.5 | 78 | 72.8 | 28.0 | 138 | 128.8 | 49.5 | 198 | 184.8 | 71.0 | 258 | 240.9 | 92.5 | 318 | 296.9 | 114.0 | 378 | 352.9 | 135.5 | 438 | 408.9 | 157.0 |
| 19 | 17.7 | 06.8 | 79 | 73.8 | 28.3 | 139 | 129.8 | 49.8 | 199 | 185.8 | 71.3 | 259 | 241.8 | 92.8 | 319 | 297.8 | 114.3 | 379 | 353.8 | 135.8 | 439 | 409.8 | 157.3 |
| 20 | 18.7 | 07.2 | 80 | 74.7 | 28.7 | 140 | 130.7 | 50.2 | 200 | 186.7 | 71.7 | 260 | 242.7 | 93.2 | 320 | 298.7 | 114.7 | 380 | 354.8 | 136.2 | 440 | 410.8 | 157.7 |
| 21 | 19.6 | 07.5 | 81 | 75.6 | 29.0 | 141 | 131.6 | 50.5 | 201 | 187.6 | 72.0 | 261 | 243.7 | 93.5 | 321 | 299.7 | 115.0 | 381 | 355.7 | 136.5 | 441 | 411.7 | 158.0 |
| 22 | 20.5 | 07.9 | 82 | 76.6 | 29.4 | 142 | 132.6 | 50.9 | 202 | 188.6 | 72.4 | 262 | 244.6 | 93.9 | 322 | 300.6 | 115.4 | 382 | 356.6 | 136.9 | 442 | 412.6 | 158.4 |
| 23 | 21.5 | 08.2 | 83 | 77.5 | 29.7 | 143 | 133.5 | 51.2 | 203 | 189.5 | 72.7 | 263 | 245.5 | 94.3 | 323 | 301.5 | 115.8 | 383 | 357.6 | 137.3 | 443 | 413.6 | 158.8 |
| 24 | 22.4 | 08.6 | 84 | 78.4 | 30.1 | 144 | 134.4 | 51.6 | 204 | 190.5 | 73.1 | 264 | 246.5 | 94.6 | 324 | 302.5 | 116.1 | 384 | 358.5 | 137.6 | 444 | 414.5 | 159.1 |
| 25 | 23.3 | 09.0 | 85 | 79.4 | 30.5 | 145 | 135.4 | 52.0 | 205 | 191.4 | 73.5 | 265 | 247.4 | 95.0 | 325 | 303.4 | 116.5 | 385 | 359.4 | 138.0 | 445 | 415.4 | 159.5 |
| 26 | 24.3 | 09.3 | 86 | 80.3 | 30.8 | 146 | 136.3 | 52.3 | 206 | 192.3 | 73.8 | 266 | 248.3 | 95.3 | 326 | 304.3 | 116.8 | 386 | 360.4 | 138.3 | 446 | 416.4 | 159.8 |
| 27 | 25.2 | 09.7 | 87 | 81.2 | 31.2 | 147 | 137.2 | 52.7 | 207 | 193.3 | 74.2 | 267 | 249.3 | 95.7 | 327 | 305.3 | 117.2 | 387 | 361.3 | 138.7 | 447 | 417.3 | 160.2 |
| 28 | 26.1 | 10.0 | 88 | 82.2 | 31.5 | 148 | 138.2 | 53.0 | 208 | 194.2 | 74.5 | 268 | 250.2 | 96.0 | 328 | 306.2 | 117.5 | 388 | 362.2 | 139.0 | 448 | 418.2 | 160.5 |
| 29 | 27.1 | 10.4 | 89 | 83.1 | 31.9 | 149 | 139.1 | 53.4 | 209 | 195.1 | 74.9 | 269 | 251.1 | 96.4 | 329 | 307.1 | 117.9 | 389 | 363.2 | 139.4 | 449 | 419.2 | 160.9 |
| 30 | 28.0 | 10.8 | 90 | 84.0 | 32.3 | 150 | 140.0 | 53.8 | 210 | 196.1 | 75.3 | 270 | 252.1 | 96.8 | 330 | 308.1 | 118.3 | 390 | 364.1 | 139.8 | 450 | 420.1 | 161.3 |
| 31 | 28.9 | 11.1 | 91 | 85.0 | 32.6 | 151 | 141.0 | 54.1 | 211 | 197.0 | 75.6 | 271 | 253.0 | 97.1 | 331 | 309.0 | 118.6 | 391 | 365.0 | 140.1 | 451 | 421.0 | 161.6 |
| 32 | 29.9 | 11.5 | 92 | 85.9 | 33.0 | 152 | 141.9 | 54.5 | 212 | 197.9 | 76.0 | 272 | 253.9 | 97.5 | 332 | 309.9 | 119.0 | 392 | 366.0 | 140.5 | 452 | 422.0 | 162.0 |
| 33 | 30.8 | 11.8 | 93 | 86.8 | 33.3 | 153 | 142.8 | 54.8 | 213 | 198.9 | 76.3 | 273 | 254.9 | 97.8 | 333 | 310.9 | 119.3 | 393 | 366.9 | 140.8 | 453 | 422.9 | 162.3 |
| 34 | 31.7 | 12.2 | 94 | 87.8 | 33.7 | 154 | 143.8 | 55.2 | 214 | 199.8 | 76.7 | 274 | 255.8 | 98.2 | 334 | 311.8 | 119.7 | 394 | 367.8 | 141.2 | 454 | 423.8 | 162.7 |
| 35 | 32.7 | 12.5 | 95 | 88.7 | 34.0 | 155 | 144.7 | 55.5 | 215 | 200.7 | 77.0 | 275 | 256.7 | 98.6 | 335 | 312.7 | 120.1 | 395 | 368.8 | 141.6 | 455 | 424.8 | 163.1 |
| 36 | 33.6 | 12.9 | 96 | 89.6 | 34.4 | 156 | 145.6 | 55.9 | 216 | 201.7 | 77.4 | 276 | 257.7 | 98.9 | 336 | 313.7 | 120.4 | 396 | 369.7 | 141.9 | 456 | 425.7 | 163.4 |
| 37 | 34.5 | 13.3 | 97 | 90.6 | 34.8 | 157 | 146.6 | 56.3 | 217 | 202.6 | 77.8 | 277 | 258.6 | 99.3 | 337 | 314.6 | 120.8 | 397 | 370.6 | 142.3 | 457 | 426.6 | 163.8 |
| 38 | 35.5 | 13.6 | 98 | 91.5 | 35.1 | 158 | 147.5 | 56.6 | 218 | 203.5 | 78.1 | 278 | 259.5 | 99.6 | 338 | 315.6 | 121.1 | 398 | 371.6 | 142.6 | 458 | 427.6 | 164.1 |
| 39 | 36.4 | 14.0 | 99 | 92.4 | 35.5 | 159 | 148.4 | 57.0 | 219 | 204.5 | 78.5 | 279 | 260.5 | 100.0 | 339 | 316.5 | 121.5 | 399 | 372.5 | 143.0 | 459 | 428.5 | 164.5 |
| 40 | 37.3 | 14.3 | 100 | 93.4 | 35.8 | 160 | 149.4 | 57.3 | 220 | 205.4 | 78.8 | 280 | 261.4 | 100.3 | 340 | 317.4 | 121.8 | 400 | 373.4 | 143.3 | 460 | 429.4 | 164.8 |
| 41 | 38.3 | 14.7 | 101 | 94.3 | 36.2 | 161 | 150.3 | 57.7 | 221 | 206.3 | 79.2 | 281 | 262.3 | 100.7 | 341 | 318.4 | 122.2 | 401 | 374.4 | 143.7 | 461 | 430.4 | 165.2 |
| 42 | 39.2 | 15.1 | 102 | 95.2 | 36.6 | 162 | 151.2 | 58.1 | 222 | 207.3 | 79.6 | 282 | 263.3 | 101.1 | 342 | 319.3 | 122.6 | 402 | 375.3 | 144.1 | 462 | 431.3 | 165.6 |
| 43 | 40.1 | 15.4 | 103 | 96.2 | 36.9 | 163 | 152.2 | 58.4 | 223 | 208.2 | 79.9 | 283 | 264.2 | 101.4 | 343 | 320.2 | 122.9 | 403 | 376.2 | 144.4 | 463 | 432.2 | 165.9 |
| 44 | 41.1 | 15.8 | 104 | 97.1 | 37.3 | 164 | 153.1 | 58.8 | 224 | 209.1 | 80.3 | 284 | 265.1 | 101.8 | 344 | 321.2 | 123.3 | 404 | 377.2 | 144.8 | 464 | 433.2 | 166.3 |
| 45 | 42.0 | 16.1 | 105 | 98.0 | 37.6 | 165 | 154.0 | 59.1 | 225 | 210.1 | 80.6 | 285 | 266.1 | 102.1 | 345 | 322.1 | 123.6 | 405 | 378.1 | 145.1 | 465 | 434.1 | 166.6 |
| 46 | 42.9 | 16.5 | 106 | 99.0 | 38.0 | 166 | 155.0 | 59.5 | 226 | 211.0 | 81.0 | 286 | 267.0 | 102.5 | 346 | 323.0 | 124.0 | 406 | 379.0 | 145.5 | 466 | 435.0 | 167.0 |
| 47 | 43.9 | 16.8 | 107 | 99.9 | 38.3 | 167 | 155.9 | 59.8 | 227 | 211.9 | 81.3 | 287 | 267.9 | 102.9 | 347 | 324.0 | 124.4 | 407 | 380.0 | 145.9 | 467 | 436.0 | 167.4 |
| 48 | 44.8 | 17.2 | 108 | 100.8 | 38.7 | 168 | 156.8 | 60.2 | 228 | 212.9 | 81.7 | 288 | 268.9 | 103.2 | 348 | 324.9 | 124.7 | 408 | 380.9 | 146.2 | 468 | 436.9 | 167.7 |
| 49 | 45.7 | 17.6 | 109 | 101.8 | 39.1 | 169 | 157.8 | 60.6 | 229 | 213.8 | 82.1 | 289 | 269.8 | 103.6 | 349 | 325.8 | 125.1 | 409 | 381.8 | 146.6 | 469 | 437.8 | 168.1 |
| 50 | 46.7 | 17.9 | 110 | 102.7 | 39.4 | 170 | 158.7 | 60.9 | 230 | 214.7 | 82.4 | 290 | 270.7 | 103.9 | 350 | 326.8 | 125.4 | 410 | 382.8 | 146.9 | 470 | 438.8 | 168.4 |
| 51 | 47.6 | 18.3 | 111 | 103.6 | 39.8 | 171 | 159.6 | 61.3 | 231 | 215.7 | 82.8 | 291 | 271.7 | 104.3 | 351 | 327.7 | 125.8 | 411 | 383.7 | 147.3 | 471 | 439.7 | 168.8 |
| 52 | 48.5 | 18.6 | 112 | 104.6 | 40.1 | 172 | 160.6 | 61.6 | 232 | 216.6 | 83.1 | 292 | 272.6 | 104.6 | 352 | 328.6 | 126.1 | 412 | 384.6 | 147.6 | 472 | 440.6 | 169.1 |
| 53 | 49.5 | 19.0 | 113 | 105.5 | 40.5 | 173 | 161.5 | 62.0 | 233 | 217.5 | 83.5 | 293 | 273.5 | 105.0 | 353 | 329.6 | 126.5 | 413 | 385.6 | 148.0 | 473 | 441.6 | 169.5 |
| 54 | 50.4 | 19.4 | 114 | 106.4 | 40.9 | 174 | 162.4 | 62.4 | 234 | 218.5 | 83.9 | 294 | 274.5 | 105.4 | 354 | 330.5 | 126.9 | 414 | 386.5 | 148.4 | 474 | 442.5 | 169.9 |
| 55 | 51.3 | 19.7 | 115 | 107.4 | 41.2 | 175 | 163.4 | 62.7 | 235 | 219.4 | 84.2 | 295 | 275.4 | 105.7 | 355 | 331.4 | 127.2 | 415 | 387.4 | 148.7 | 475 | 443.5 | 170.2 |
| 56 | 52.3 | 20.1 | 116 | 108.3 | 41.6 | 176 | 164.3 | 63.1 | 236 | 220.3 | 84.6 | 296 | 276.3 | 106.1 | 356 | 332.4 | 127.6 | 416 | 388.4 | 149.1 | 476 | 444.4 | 170.6 |
| 57 | 53.2 | 20.4 | 117 | 109.2 | 41.9 | 177 | 165.2 | 63.4 | 237 | 221.3 | 84.9 | 297 | 277.3 | 106.4 | 357 | 333.3 | 127.9 | 417 | 389.3 | 149.4 | 477 | 445.3 | 170.9 |
| 58 | 54.1 | 20.8 | 118 | 110.2 | 42.3 | 178 | 166.2 | 63.8 | 238 | 222.2 | 85.3 | 298 | 278.2 | 106.8 | 358 | 334.2 | 128.3 | 418 | 390.2 | 149.8 | 478 | 446.3 | 171.3 |
| 59 | 55.1 | 21.1 | 119 | 111.1 | 42.6 | 179 | 167.1 | 64.1 | 239 | 223.1 | 85.6 | 299 | 279.1 | 107.2 | 359 | 335.2 | 128.7 | 419 | 391.2 | 150.2 | 479 | 447.2 | 171.7 |
| 60 | 56.0 | 21.5 | 120 | 112.0 | 43.0 | 180 | 168.0 | 64.5 | 240 | 224.1 | 86.0 | 300 | 280.1 | 107.5 | 360 | 336.1 | 129.0 | 420 | 392.1 | 150.5 | 480 | 448.1 | 172.0 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 36.m — Para 69 grados. — 7.h 24.m

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## Tabla XXXV. Diferencias en latitud y apartamientos de meridiano.

1.ʰ 28.ᵐ Para 22 grados. 10.ʰ 32.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.4 | 61 | 66.6 | 22.9 | 121 | 112.2 | 45.3 | 181 | 167.8 | 67.0 | 241 | 223.5 | 90.3 | 301 | 279.1 | 112.7 | 361 | 334.7 | 135.2 | 421 | 390.3 | 157.7 |
| 2 | 01.2 | 00.7 | 62 | 57.5 | 23.2 | 122 | 113.1 | 45.7 | 182 | 168.7 | 60.2 | 242 | 224.4 | 90.7 | 302 | 250.0 | 113.1 | 362 | 335.6 | 135.6 | 422 | 391.3 | 158.1 |
| 3 | 02.0 | 01.1 | 53 | 58.4 | 23.6 | 123 | 114.5 | 46.1 | 183 | 169.7 | 68.6 | 243 | 225.3 | 91.0 | 303 | 280.2 | 113.5 | 363 | 336.6 | 136.0 | 423 | 322.2 | 158.4 |
| 4 | 03.7 | 01.5 | 64 | 52.3 | 24.0 | 124 | 115.0 | 46.5 | 184 | 170.6 | 68.9 | 244 | 226.2 | 21.4 | 304 | 261.9 | 113.9 | 364 | 337.5 | 136.3 | 424 | 393.1 | 158.8 |
| 5 | 04.6 | 01.9 | 65 | 65.3 | 24.3 | 125 | 115.9 | 46.8 | 185 | 171.5 | 69.3 | 245 | 227.2 | 91.6 | 305 | 282.8 | 114.2 | 365 | 338.4 | 130.7 | 425 | 394.1 | 159.2 |
| 6 | 05.6 | 02.2 | 66 | 61.2 | 24.7 | 126 | 116.8 | 47.2 | 186 | 172.5 | 69.7 | 246 | 226.1 | 92.2 | 306 | 263.7 | 114.6 | 366 | 339.3 | 137.1 | 426 | 395.0 | 159.6 |
| 7 | 06.5 | 02.6 | 67 | 62.1 | 25.1 | 127 | 117.8 | 47.6 | 187 | 173.4 | 70.1 | 247 | 229.0 | 92.6 | 307 | 284.6 | 115.0 | 367 | 340.3 | 137.5 | 427 | 395.9 | 159.9 |
| 8 | 57.4 | 03.0 | 68 | 63.0 | 25.5 | 128 | 110.7 | 47.9 | 188 | 174.3 | 70.4 | 248 | 229.9 | 92.9 | 308 | 285.6 | 115.4 | 368 | 341.2 | 137.8 | 428 | 396.8 | 160.3 |
| 2 | 06.3 | 03.4 | 62 | 64.0 | 25.0 | 129 | 119.6 | 46.3 | 189 | 175.2 | 70.8 | 249 | 230.9 | 93.3 | 309 | 206.6 | 115.7 | 369 | 342.1 | 138.2 | 422 | 397.5 | 160.7 |
| 10 | 09.3 | 03.7 | 70 | 64.9 | 26.2 | 130 | 120.5 | 48.7 | 190 | 176.2 | 71.2 | 250 | 231.8 | 93.7 | 310 | 287.4 | 116.1 | 370 | 343.1 | 138.6 | 430 | 398.7 | 161.1 |
| 11 | 10.2 | 04.1 | 71 | 65.8 | 25.6 | 131 | 121.5 | 49.1 | 191 | 177.1 | 71.5 | 251 | 232.7 | 94.0 | 311 | 286.4 | 116.5 | 371 | 344.0 | 139.0 | 431 | 399.6 | 161.4 |
| 12 | 11.1 | 04.5 | 72 | 55.8 | 27.0 | 132 | 122.4 | 42.4 | 192 | 170.8 | 71.9 | 252 | 233.7 | 94.4 | 312 | 282.3 | 115.8 | 372 | 344.9 | 139.3 | 432 | 400.6 | 161.0 |
| 13 | 12.1 | 04.9 | 73 | 67.7 | 27.3 | 133 | 123.3 | 49.8 | 193 | 178.9 | 72.3 | 253 | 234.6 | 94.8 | 313 | 290.2 | 117.2 | 373 | 345.6 | 139.7 | 433 | 401.6 | 162.2 |
| 14 | 13.0 | 05.2 | 74 | 55.6 | 27.7 | 134 | 124.2 | 50.2 | 194 | 172.2 | 72.7 | 251 | 935.5 | 95.2 | 314 | 291.1 | 117.6 | 374 | 346.0 | 140.1 | 434 | 402.4 | 162.6 |
| 15 | 13.9 | 05.6 | 75 | 69.5 | 26.1 | 135 | 125.2 | 60.6 | 195 | 180.0 | 73.0 | 255 | 236.4 | 95.5 | 315 | 292.1 | 110.0 | 375 | 347.7 | 140.5 | 435 | 403.3 | 162.9 |
| 16 | 14.8 | 06.0 | 76 | 70.5 | 26.5 | 136 | 125.1 | 58.9 | 196 | 151.7 | 73.4 | 256 | 237.4 | 95.9 | 316 | 293.0 | 116.3 | 376 | 348.6 | 140.8 | 436 | 404.3 | 163.3 |
| 17 | 15.0 | 06.4 | 77 | 71.4 | 28.8 | 137 | 127.0 | 51.3 | 127 | 182.7 | 73.8 | 257 | 238.3 | 96.3 | 317 | 293.9 | 118.7 | 377 | 349.6 | 141.2 | 437 | 405.2 | 103.7 |
| 18 | 15.7 | 06.7 | 76 | 72.3 | 29.2 | 138 | 198.0 | 51.7 | 198 | 183.6 | 74.2 | 258 | 239.2 | 96.6 | 318 | 294.6 | 119.1 | 378 | 350.6 | 141.6 | 438 | 406.1 | 164.1 |
| 19 | 17.6 | 07.1 | 79 | 73.2 | 29.6 | 139 | 126.9 | 52.1 | 199 | 184.5 | 74.5 | 259 | 210.1 | 97.0 | 319 | 295.6 | 119.5 | 379 | 351.4 | 111.9 | 439 | 407.0 | 164.4 |
| 20 | 16.5 | 07.5 | 80 | 74.2 | 30.0 | 140 | 129.8 | 52.4 | 280 | 185.4 | 74.9 | 260 | 241.1 | 97.4 | 320 | 296.7 | 119.8 | 380 | 352.3 | 142.3 | 440 | 490.0 | 164.8 |
| 21 | 19.5 | 07.9 | 81 | 75.1 | 30.3 | 141 | 130.7 | 52.0 | 201 | 166.4 | 75.3 | 261 | 242.0 | 97.8 | 321 | 297.6 | 120.2 | 381 | 353.3 | 142.7 | 141 | 408.9 | 165.2 |
| 22 | 20.4 | 08.2 | 82 | 76.0 | 30.7 | 142 | 131.7 | 63.2 | 202 | 187.3 | 75.7 | 262 | 242.9 | 98.1 | 322 | 298.6 | 120.1 | 382 | 354.2 | 143.1 | 442 | 402.8 | 165.6 |
| 23 | 21.3 | 00.6 | 83 | 77.0 | 31.1 | 143 | 132.6 | 53.6 | 203 | 188.2 | 76.0 | 263 | 243.8 | 98.5 | 323 | 299.5 | 121.0 | 383 | 355.1 | 143.4 | 443 | 410.7 | 165.9 |
| 24 | 22.3 | 09.0 | 64 | 77.9 | 31.6 | 144 | 133.5 | 63.9 | 204 | 189.1 | 76.4 | 264 | 214.8 | 98.9 | 324 | 100.4 | 121.3 | 384 | 356.0 | 143.8 | 444 | 411.7 | 166.3 |
| 25 | 23.2 | 09.4 | 85 | 78.8 | 31.8 | 145 | 134.4 | 64.3 | 205 | 190.1 | 76.8 | 265 | 215.7 | 92.3 | 325 | 301.3 | 121.7 | 385 | 357.0 | 144.2 | 445 | 412.6 | 166.7 |
| 26 | 24.1 | 09.7 | 06 | 79.7 | 32.2 | 146 | 136.4 | 51.7 | 206 | 191.0 | 77.2 | 266 | 246.5 | 99.6 | 326 | 302.3 | 122.1 | 486 | 357.9 | 144.6 | 446 | 413.6 | 167.0 |
| 27 | 25.8 | 10.1 | 87 | 80.7 | 32.6 | 147 | 136.3 | 55.1 | 207 | 191.9 | 77.5 | 267 | 247.6 | 100.0 | 327 | 303.2 | 122.5 | 387 | 350.8 | 144.9 | 447 | 414.6 | 167.4 |
| 28 | 26.8 | 10.5 | 88 | 81.6 | 33.0 | 148 | 137.2 | 65.4 | 208 | 192.9 | 77.9 | 268 | 248.5 | 100.4 | 328 | 304.1 | 122.8 | 388 | 359.7 | 145.3 | 418 | 415.4 | 167.6 |
| 29 | 26.2 | 10.9 | 69 | 02.5 | 33.3 | 149 | 136.2 | 65.8 | 209 | 123.8 | 78.3 | 269 | 242.4 | 100.8 | 329 | 305.0 | 123.2 | 389 | 360.7 | 145.7 | 419 | 416.3 | 160.2 |
| 30 | 27.8 | 11.2 | 90 | 83.4 | 33.7 | 150 | 139.1 | 56.2 | 210 | 194.7 | 78.7 | 270 | 250.3 | 101.1 | 330 | 306.0 | 123.6 | 390 | 361.6 | 146.1 | 450 | 417.2 | 168.6 |
| 31 | 20.7 | 11.6 | 91 | 04.4 | 34.1 | 161 | 140.0 | 66.6 | 211 | 195.6 | 79.0 | 271 | 251.3 | 101.5 | 331 | 306.9 | 124.0 | 391 | 362.5 | 146.4 | 451 | 418.2 | 168.9 |
| 32 | 22.7 | 12.0 | 92 | 85.3 | 34.6 | 152 | 140.9 | 56.9 | 219 | 196.6 | 79.4 | 272 | 252.2 | 101.9 | 332 | 307.6 | 124.3 | 392 | 363.5 | 146.8 | 152 | 419.1 | 169.3 |
| 33 | 30.6 | 12.4 | 93 | 86.2 | 34.8 | 153 | 141.2 | 57.3 | 213 | 127.5 | 79.8 | 273 | 253.1 | 102.3 | 333 | 306.6 | 124.7 | 393 | 364.4 | 147.2 | 453 | 420.0 | 159.7 |
| 34 | 31.5 | 12.7 | 24 | 87.2 | 35.2 | 154 | 142.8 | 67.7 | 214 | 128.4 | 00.2 | 274 | 264.0 | 102.6 | 331 | 309.7 | 125.1 | 394 | 365.3 | 147.6 | 454 | 420.9 | 170.0 |
| 35 | 32.6 | 13.1 | 95 | 86.1 | 35.6 | 155 | 143.7 | 66.1 | 215 | 199.3 | 00.5 | 275 | 255.0 | 103.0 | 335 | 315.6 | 125.6 | 395 | 366.2 | 147.9 | 455 | 421.9 | 170.4 |
| 36 | 33.4 | 13.5 | 96 | 89.0 | 36.0 | 156 | 144.6 | 50.4 | 216 | 900.3 | 80.9 | 276 | 255.9 | 103.4 | 336 | 311.6 | 125.0 | 396 | 367.2 | 148.3 | 466 | 422.0 | 170.8 |
| 37 | 34.3 | 13.9 | 97 | 89.9 | 36.3 | 157 | 146.6 | 68.8 | 217 | 201.2 | 81.3 | 277 | 256.8 | 103.6 | 337 | 312.5 | 126.2 | 397 | 368.1 | 148.7 | 457 | 423.7 | 171.2 |
| 38 | 35.2 | 14.2 | 98 | 20.9 | 36.7 | 158 | 146.5 | 69.9 | 218 | 202.1 | 01.7 | 970 | 937.6 | 104.1 | 338 | 313.4 | 196.6 | 398 | 369.0 | 149.1 | 458 | 424.6 | 171.5 |
| 39 | 36.2 | 14.6 | 29 | 21.6 | 37.1 | 159 | 147.4 | 59.6 | 219 | 203.1 | 82.0 | 272 | 230.7 | 104.5 | 339 | 314.3 | 127.0 | 399 | 369.9 | 149.4 | 459 | 425.6 | 171.9 |
| 40 | 37.1 | 15.0 | 100 | 92.7 | 37.6 | 150 | 148.3 | 52.9 | 220 | 204.0 | 82.4 | 280 | 259.6 | 104.9 | 310 | 315.2 | 127.3 | 400 | 370.2 | 149.8 | 460 | 426.6 | 172.3 |
| 41 | 30.0 | 15.4 | 101 | 93.6 | 37.8 | 161 | 149.3 | 60.3 | 221 | 204.9 | 82.8 | 281 | 260.6 | 105.3 | 341 | 316.2 | 197.7 | 101 | 371.0 | 150.2 | 461 | 427.4 | 172.7 |
| 42 | 38.2 | 15.7 | 102 | 94.6 | 38.2 | 162 | 150.2 | 60.7 | 222 | 205.8 | 63.2 | 282 | 261.5 | 105.6 | 342 | 317.1 | 128.1 | 402 | 372.7 | 150.6 | 462 | 428.4 | 173.0 |
| 43 | 39.2 | 16.1 | 103 | 95.6 | 38.6 | 163 | 151.1 | 61.1 | 223 | 206.8 | 83.5 | 283 | 262.4 | 106.0 | 343 | 318.8 | 128.5 | 403 | 373.7 | 150.9 | 463 | 429.3 | 173.4 |
| 44 | 40.8 | 16.5 | 104 | 96.4 | 39.0 | 164 | 152.1 | 61.4 | 224 | 207.7 | 83.9 | 284 | 263.3 | 106.4 | 344 | 319.5 | 120.8 | 404 | 374.6 | 151.3 | 464 | 130.2 | 173.8 |
| 45 | 41.7 | 16.9 | 105 | 97.4 | 39.3 | 165 | 153.8 | 61.0 | 225 | 208.6 | 84.3 | 285 | 264.2 | 106.0 | 345 | 312.9 | 129.2 | 405 | 375.5 | 151.7 | 465 | 431.1 | 174.2 |
| 46 | 42.7 | 17.2 | 106 | 98.3 | 39.7 | 166 | 153.9 | 62.2 | 226 | 202.5 | 84.7 | 206 | 265.2 | 107.1 | 346 | 320.5 | 129.6 | 406 | 376.4 | 152.1 | 466 | 432.1 | 174.5 |
| 47 | 43.6 | 17.6 | 107 | 99.2 | 40.1 | 167 | 154.8 | 62.6 | 227 | 210.5 | 65.0 | 267 | 266.1 | 107.5 | 347 | 321.7 | 135.0 | 457 | 377.4 | 162.4 | 467 | 433.0 | 174.9 |
| 48 | 44.6 | 18.0 | 106 | 100.1 | 40.6 | 168 | 155.8 | 52.9 | 228 | 911.4 | 85.4 | 288 | 267.0 | 107.9 | 348 | 322.7 | 130.3 | 408 | 376.3 | 152.8 | 468 | 433.9 | 175.3 |
| 42 | 45.4 | 18.4 | 109 | 101.1 | 40.6 | 169 | 156.7 | 53.3 | 229 | 919.3 | 85.8 | 269 | 268.0 | 100.3 | 349 | 323.6 | 135.7 | 402 | 379.2 | 153.2 | 469 | 434.8 | 175.7 |
| 50 | 45.4 | 16.7 | 110 | 102.0 | 41.2 | 170 | 157.6 | 63.7 | 230 | 213.3 | 85.2 | 290 | 268.9 | 106.5 | 350 | 324.6 | 131.1 | 410 | 380.1 | 153.5 | 170 | 435.8 | 176.0 |
| 51 | 47.3 | 19.1 | 111 | 109.9 | 41.6 | 171 | 156.6 | 64.1 | 231 | 214.2 | 86.6 | 291 | 269.8 | 109.0 | 351 | 325.4 | 131.5 | 411 | 361.1 | 153.9 | 471 | 436.7 | 176.4 |
| 52 | 40.2 | 19.5 | 112 | 103.8 | 42.0 | 172 | 159.6 | 64.4 | 239 | 915.1 | 06.9 | 292 | 270.7 | 109.4 | 352 | 326.4 | 131.8 | 412 | 382.5 | 154.3 | 472 | 437.6 | 176.8 |
| 53 | 42.1 | 19.9 | 113 | 101.8 | 42.3 | 173 | 165.4 | 64.8 | 233 | 216.0 | 87.3 | 293 | 271.7 | 102.8 | 353 | 327.3 | 132.2 | 413 | 382.9 | 154.7 | 173 | 430.6 | 177.2 |
| 54 | 50.1 | 20.2 | 111 | 105.7 | 42.7 | 174 | 161.3 | 65.2 | 234 | 217.5 | 57.7 | 294 | 972.6 | 110.1 | 354 | 328.2 | 132.6 | 414 | 383.9 | 165.1 | 474 | 432.5 | 177.5 |
| 55 | 51.0 | 28.5 | 115 | 106.6 | 43.1 | 175 | 162.3 | 65.5 | 935 | 217.2 | 56.0 | 225 | 273.5 | 110.5 | 355 | 399.2 | 133.0 | 415 | 354.6 | 155.4 | 475 | 448.4 | 177.9 |
| 55 | 61.9 | 21.0 | 116 | 157.6 | 43.6 | 176 | 163.2 | 65.2 | 236 | 216.8 | 80.4 | 296 | 274.4 | 115.9 | 356 | 330.1 | 133.3 | 415 | 355.7 | 155.8 | 476 | 141.3 | 176.3 |
| 57 | 52.6 | 21.4 | 117 | 108.5 | 43.5 | 177 | 164.1 | 66.3 | 237 | 219.7 | 68.6 | 297 | 276.4 | 111.3 | 357 | 331.0 | 133.7 | 417 | 386.6 | 155.2 | 477 | 442.3 | 176.7 |
| 56 | 63.8 | 21.7 | 110 | 109.4 | 44.2 | 178 | 165.5 | 56.7 | 238 | 220.7 | 89.9 | 226 | 276.3 | 111.6 | 358 | 332.0 | 134.1 | 416 | 367.5 | 156.6 | 478 | 443.2 | 179.0 |
| 62 | 54.7 | 22.1 | 119 | 110.3 | 44.6 | 179 | 166.0 | 57.1 | 239 | 991.6 | 89.5 | 292 | 977.2 | 112.0 | 352 | 332.2 | 134.6 | 419 | 306.5 | 156.9 | 479 | 444.1 | 179.4 |
| 60 | 56.6 | 92.5 | 120 | 111.3 | 45.0 | 180 | 156.9 | 57.4 | 240 | 222.5 | 89.2 | 300 | 276.9 | 112.4 | 360 | 333.0 | 134.8 | 420 | 309.4 | 167.3 | 480 | 445.0 | 179.8 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 32.ᵐ Para 68 grados. 7.ʰ 28.ᵐ

TABLA XXXV. **Diferencias en latitud y apartamientos de meridiano.**

1.ʰ 32.ᵐ Para 23 grados. 10.ʰ 28.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.2 | 00.4 | 61 | 56.2 | 23.8 | 121 | 111.4 | 47.3 | 181 | 166.6 | 70.7 | 241 | 221.8 | 94.2 | 301 | 277.1 | 117.6 | 361 | 332.3 | 141.1 | 421 | 387.6 | 164.5 |
| 2 | 01.8 | 00.8 | 62 | 57.1 | 24.2 | 122 | 112.3 | 47.7 | 182 | 167.5 | 71.1 | 242 | 222.6 | 94.6 | 382 | 278.6 | 118.0 | 362 | 333.2 | 141.5 | 422 | 368.5 | 164.2 |
| 3 | 02.6 | 01.2 | 53 | 50.0 | 24.5 | 123 | 113.2 | 46.1 | 183 | 166.5 | 71.5 | 243 | 223.7 | 24.2 | 303 | 276.9 | 118.4 | 363 | 334.1 | 141.6 | 423 | 362.4 | 185.3 |
| 4 | 03.7 | 81.8 | 64 | 56.9 | 25.0 | 124 | 114.1 | 40.5 | 184 | 162.4 | 71.9 | 244 | 224.6 | 25.3 | 304 | 272.6 | 116.0 | 364 | 336.1 | 142.2 | 424 | 368.3 | 165.7 |
| 5 | 94.8 | 62.0 | 65 | 52.8 | 25.4 | 125 | 115.1 | 40.8 | 185 | 170.3 | 72.3 | 245 | 225.5 | 95.7 | 305 | 289.8 | 112.2 | 385 | 336.8 | 142.6 | 425 | 391.2 | 166.1 |
| 6 | 05.5 | 92.3 | 86 | 60.8 | 25.0 | 126 | 118 6 | 42.2 | 186 | 171.2 | 72.7 | 246 | 226.4 | 98.1 | 306 | 281.7 | 112.8 | 388 | 336.2 | 143.6 | 426 | 322.1 | 166.6 |
| 7 | 08.4 | 02.7 | 87 | 61.7 | 26.2 | 127 | 116.2 | 42.6 | 187 | 172.1 | 73.1 | 217 | 227.4 | 96 5 | 307 | 202.6 | 129.8 | 367 | 337.8 | 143.4 | 427 | 323.1 | 166.8 |
| 8 | 87.4 | 03.1 | 68 | 62.6 | 26.6 | 126 | 117.6 | 58.8 | 186 | 173.1 | 73.5 | 240 | 226.3 | 96.9 | 368 | 283.5 | 128.4 | 366 | 338.7 | 143.6 | 428 | 394.6 | 167.2 |
| 2 | 90.3 | 93.5 | 66 | 63.6 | 27.0 | 126 | 116.7 | 50.4 | 189 | 174.8 | 73.8 | 249 | 222.2 | 97.3 | 309 | 264.4 | 120.8 | 362 | 332.7 | 144.2 | 422 | 394.2 | 167.6 |
| 16 | 06.2 | 03.9 | 70 | 64.4 | 27.4 | 136 | 119.7 | 58.0 | 196 | 174.2 | 74.2 | 250 | 238.1 | 27.7 | 310 | 285.4 | 121.2 | 379 | 340.6 | 144.6 | 436 | 325.6 | 168.6 |
| 11 | 10.1 | 04.3 | 71 | 65.4 | 27.7 | 131 | 120.6 | 51.2 | 191 | 175.8 | 74.6 | 251 | 231.8 | 96.1 | 311 | 288.3 | 121.8 | 371 | 341.5 | 145.0 | 431 | 396.7 | 166.4 |
| 12 | 11.0 | 04.7 | 72 | 68.3 | 20.1 | 132 | 121.5 | 51.6 | 162 | 176.7 | 75.0 | 252 | 232.6 | 90.5 | 312 | 287.2 | 121.2 | 372 | 342.4 | 143.4 | 132 | 327.7 | 168.8 |
| 13 | 12.0 | 95.1 | 73 | 67.2 | 26.5 | 133 | 122.4 | 52.8 | 192 | 177.7 | 75.4 | 253 | 232.6 | 96.9 | 313 | 260.1 | 122.3 | 373 | 343.4 | 145.7 | 433 | 398.6 | 169.2 |
| 14 | 12.9 | 95.5 | 74 | 66.1 | 28.9 | 134 | 123.3 | 52.4 | 194 | 178.6 | 75.8 | 254 | 233.6 | 99.2 | 314 | 262.6 | 122.7 | 374 | 344.3 | 148.1 | 434 | 396.5 | 162.6 |
| 15 | 13.6 | 95.9 | 75 | 62.6 | 29.3 | 135 | 124.3 | 62.7 | 195 | 172.5 | 76.2 | 255 | 234.7 | 29.6 | 315 | 290.0 | 123.1 | 375 | 345.2 | 146.5 | 435 | 488.4 | 176.6 |
| 16 | 14.7 | 96.3 | 76 | 70.6 | 22.7 | 136 | 125.2 | 53.1 | 126 | 186.4 | 76.0 | 255 | 235.6 | 168.0 | 316 | 226.6 | 123.5 | 378 | 348.1 | 146.2 | 436 | 461.3 | 176.4 |
| 17 | 15.6 | 96.6 | 77 | 70.2 | 36.1 | 137 | 125.1 | 53.5 | 197 | 181.3 | 77.9 | 257 | 236.6 | 168.4 | 317 | 221.6 | 123.2 | 377 | 347.0 | 147.3 | 437 | 402.3 | 176.8 |
| 16 | 18.8 | 87.9 | 76 | 71.8 | 36.5 | 130 | 127.6 | 63.9 | 198 | 102.3 | 77.4 | 258 | 237.6 | 100.8 | 318 | 292.7 | 124.3 | 378 | 346.0 | 147.7 | 438 | 483.2 | 171.1 |
| 19 | 17.5 | 87.4 | 72 | 72.7 | 30.9 | 136 | 128.0 | 54.3 | 196 | 183.2 | 77.8 | 259 | 236.4 | 101.2 | 319 | 293.6 | 124.6 | 379 | 346.2 | 146.1 | 439 | 484.1 | 171.5 |
| 20 | 16.4 | 67.8 | 60 | 73.8 | 31.3 | 140 | 128.6 | 54.7 | 200 | 184.1 | 78.1 | 280 | 232.3 | 101.8 | 320 | 294.6 | 125.0 | 300 | 346.6 | 148.5 | 446 | 485.0 | 171.9 |
| 21 | 16.3 | 08.2 | 61 | 74.8 | 31.8 | 141 | 129.8 | 55.1 | 201 | 185.9 | 78.5 | 261 | 240.3 | 102.0 | 321 | 295.5 | 125.4 | 381 | 356.7 | 148.9 | 441 | 405.9 | 172.3 |
| 22 | 20.3 | 08.6 | 62 | 75.5 | 32.0 | 142 | 136.7 | 55.5 | 202 | 185.9 | 78.9 | 282 | 241.2 | 102.4 | 322 | 226.4 | 125.8 | 382 | 351.6 | 149.3 | 442 | 406.9 | 172.7 |
| 23 | 21.2 | 89.0 | 63 | 76.4 | 32.4 | 143 | 131.8 | 55.9 | 203 | 186.9 | 76.3 | 263 | 242.1 | 102.8 | 323 | 227.3 | 128.2 | 383 | 352.6 | 146.7 | 443 | 487.6 | 173.1 |
| 24 | 22.1 | 89.4 | 84 | 77.3 | 32.6 | 144 | 132.6 | 56.3 | 204 | 187.8 | 76.7 | 264 | 243.8 | 163.2 | 324 | 298.2 | 128.6 | 384 | 353.5 | 156.8 | 444 | 488.7 | 173.5 |
| 25 | 23.9 | 09.8 | 85 | 78.2 | 33.2 | 145 | 133.5 | 56.7 | 205 | 188.7 | 60.1 | 255 | 243.2 | 103.5 | 325 | 222.2 | 127.0 | 365 | 354.4 | 150.4 | 445 | 406.6 | 172.9 |
| 26 | 23.0 | 10.2 | 08 | 72.2 | 33.8 | 146 | 134.4 | 57.0 | 200 | 182.6 | 88.5 | 268 | 244.0 | 103.2 | 328 | 300.1 | 127.4 | 386 | 355.3 | 156.8 | 446 | 410.5 | 174.3 |
| 27 | 24.2 | 19.5 | 87 | 80.1 | 34.0 | 147 | 135.3 | 57.4 | 207 | 190.5 | 88.9 | 287 | 245.8 | 164.3 | 327 | 301.0 | 127.8 | 387 | 356.2 | 161.2 | 447 | 411.5 | 174.7 |
| 28 | 25.6 | 18.9 | 88 | 81.0 | 34.4 | 146 | 135.2 | 57.0 | 206 | 191.6 | 61.3 | 288 | 246.7 | 164.7 | 328 | 301.9 | 128.2 | 388 | 357.2 | 151.8 | 448 | 412.4 | 175.1 |
| 29 | 26.7 | 11.3 | 89 | 61.9 | 34.0 | 149 | 137.2 | 56.2 | 209 | 192.4 | 81.7 | 269 | 247.6 | 165.1 | 329 | 302.6 | 126.8 | 382 | 358.1 | 152.8 | 442 | 413.3 | 175.4 |
| 30 | 27.6 | 11.7 | 99 | 02.8 | 35.2 | 159 | 138.1 | 58.6 | 210 | 193.3 | 62.1 | 278 | 248.5 | 165.5 | 330 | 383.6 | 128.2 | 390 | 356.6 | 152.4 | 456 | 414.2 | 175.[illegible] |
| 31 | 28.5 | 12.1 | 91 | 83.8 | 35.6 | 151 | 139.6 | 59.0 | 211 | 194.2 | 82.4 | 271 | 249.5 | 165.9 | 331 | 304.7 | 129.3 | 391 | 356.2 | 152.8 | 451 | 415.2 | 176.[illegible] |
| 32 | 29.5 | 12.5 | 92 | 84.7 | 35.2 | 152 | 139.9 | 52.4 | 212 | 126.1 | 62.8 | 272 | 250.4 | 168.3 | 332 | 385.6 | 122.7 | 392 | 366.6 | 153.2 | 452 | 416.1 | 176.[illegible] |
| 33 | 30.4 | 12.9 | 93 | 85.6 | 38.3 | 153 | 140.6 | 59.8 | 213 | 126.1 | 83.2 | 273 | 251.3 | 168.7 | 333 | 308.5 | 130.1 | 393 | 361.8 | 153.6 | 453 | 417.8 | 177.[illegible] |
| 34 | 31.3 | 13.3 | 94 | 66.5 | 36.7 | 154 | 141.8 | 89.2 | 214 | 197.6 | 63.6 | 274 | 252.2 | 167.1 | 334 | 397.5 | 139.5 | 394 | 362.7 | 154.0 | 454 | 417.9 | 177.[illegible] |
| 35 | 32.2 | 13.7 | 95 | 87.4 | 37.1 | 155 | 142.7 | 66.6 | 215 | 197.9 | 64.0 | 275 | 253.1 | 167.6 | 335 | 388.4 | 130.9 | 395 | 363.6 | 154.3 | 465 | 418.8 | 177.[illegible] |
| 36 | 33.1 | 11.1 | 95 | 86.4 | 37.6 | 156 | 143.6 | 61.8 | 218 | 196.8 | 84.4 | 276 | 254.1 | 167.0 | 338 | 302.3 | 131.3 | 396 | 364.6 | 154.7 | 456 | 419.6 | 176.[illegible] |
| 37 | 31.1 | 14.5 | 27 | 89.3 | 37.2 | 157 | 144.6 | 61.3 | 217 | 199.7 | 64.6 | 277 | 255.0 | 168.2 | 337 | 310.2 | 131.7 | 397 | 365.4 | 155.1 | 457 | 426.7 | 178.[illegible] |
| 30 | 35.0 | 14.8 | 20 | 28.2 | 38.3 | 158 | 145.4 | 61.7 | 216 | 260.7 | 65.2 | 276 | 255.2 | 186.6 | 336 | 311.1 | 132.1 | 396 | 366.4 | 155.5 | 458 | 421.8 | 172.[illegible] |
| 39 | 35.2 | 15.2 | 22 | 21.1 | 38.7 | 166 | 146.4 | 62.1 | 212 | 291.6 | 65.6 | 276 | 256.6 | 199.6 | 339 | 312.1 | 132.5 | 399 | 367.3 | 155.9 | 459 | 422.6 | 172.4 |
| 40 | 38.8 | 15.6 | 186 | 22.1 | 32.1 | 166 | 147.3 | 82.6 | 226 | 282.5 | 66.0 | 289 | 257.7 | 162.4 | 340 | 313.0 | 132.9 | 490 | 366.2 | 166.3 | 486 | 423.4 | 172.7 |
| 41 | 37.7 | 16.0 | 181 | 63.0 | 39.5 | 161 | 146.2 | 82.9 | 221 | 203.4 | 86.4 | 281 | 258.7 | 199.6 | 341 | 313.9 | 133.2 | 401 | 369.1 | 158.7 | 481 | 424.4 | 186.1 |
| 42 | 38.7 | 16.4 | 102 | 23.2 | 32.6 | 162 | 149.1 | 83.3 | 222 | 294.4 | 66.7 | 282 | 259.8 | 119.2 | 342 | 314.6 | 133.8 | 402 | 379.6 | 157.1 | 462 | 425.3 | 168.5 |
| 43 | 39.6 | 16.8 | 163 | 24.8 | 40.2 | 163 | 150.6 | 63.7 | 223 | 285.3 | 87.1 | 283 | 269.5 | 119.6 | 343 | 315.7 | 134.0 | 493 | 371.8 | 157.5 | 463 | 428.2 | 180.2 |
| 44 | 40 5 | 17.2 | 164 | 95.7 | 48.6 | 161 | 151.6 | 61.1 | 224 | 206.2 | 67.8 | 284 | 201.4 | 111.6 | 344 | 316.7 | 134.4 | 494 | 371.2 | 157.9 | 464 | 427.1 | 181.3 |
| 45 | 41.4 | 17.6 | 185 | 66.7 | 41.6 | 165 | 151.2 | 64.5 | 225 | 207.1 | 87.9 | 285 | 262.3 | 111.4 | 345 | 317.6 | 134.8 | 495 | 372.8 | 158.3 | 485 | 428.0 | 161.7 |
| 46 | 42.3 | 18.0 | 106 | 27.6 | 41.4 | 188 | 152.6 | 64.2 | 226 | 296.8 | 66.3 | 268 | 263.5 | 111.7 | 346 | 318.5 | 135.2 | 496 | 373.7 | 158.6 | 468 | 429.6 | 182.1 |
| 47 | 43.3 | 16.4 | 107 | 26.5 | 41.6 | 167 | 153.7 | 05.3 | 227 | 292.9 | 66.7 | 287 | 264.6 | 112.1 | 347 | 312.4 | 135.8 | 497 | 374.6 | 159.6 | 467 | 429.9 | 182.5 |
| 48 | 44.2 | 18.8 | 168 | 29.4 | 42.2 | 168 | 154.6 | 65.6 | 228 | 282.9 | 82.1 | 286 | 265.1 | 112.5 | 348 | 320.3 | 138.9 | 498 | 375.6 | 152.4 | 468 | 430.6 | 182.6 |
| 46 | 45.1 | 19.1 | 169 | 166.3 | 42.6 | 162 | 155.6 | 88.8 | 229 | 216.6 | 82.5 | 289 | 266.0 | 112.9 | 349 | 321.3 | 136.4 | 409 | 376.6 | 159.6 | 469 | 431.7 | 163.3 |
| 59 | 46.8 | 12.5 | 119 | 161.3 | 43.9 | 176 | 156.5 | 68.4 | 230 | 211.7 | 89.6 | 220 | 266.2 | 113.3 | 350 | 322.2 | 136.8 | 416 | 377.4 | 166.2 | 470 | 432.8 | 183.7 |
| 51 | 48.6 | 16.2 | 111 | 162.2 | 43.4 | 171 | 157.4 | 66.8 | 231 | 212.6 | 28.3 | 291 | 267.6 | 113.7 | 351 | 323.1 | 137.2 | 411 | 378.3 | 160.6 | 471 | 433.6 | 184.0 |
| 52 | 47.9 | 28.3 | 112 | 103.1 | 43.8 | 172 | 156.3 | 67.2 | 232 | 213.6 | 90.6 | 222 | 268.6 | 114.1 | 352 | 324.6 | 137.5 | 412 | 372.3 | 161.0 | 472 | 434.5 | 184.4 |
| 53 | 48.8 | 28.7 | 113 | 104.6 | 44.2 | 173 | 152.2 | 67.6 | 233 | 214.5 | 21.8 | 293 | 269.7 | 114.5 | 353 | 324.2 | 137.9 | 413 | 389.2 | 161.4 | 473 | 435.4 | 184.8 |
| 54 | 49.7 | 21.1 | 114 | 104.2 | 44.5 | 174 | 180.2 | 66.0 | 234 | 216.4 | 61.4 | 224 | 279.8 | 114.9 | 354 | 325.2 | 138.3 | 414 | 381.1 | 161.6 | 474 | 438.3 | 185.2 |
| 55 | 50.6 | 21.5 | 115 | 165.2 | 44.6 | 175 | 161.1 | 66.4 | 235 | 216.3 | 21.6 | 225 | 271.6 | 115.3 | 355 | 328.8 | 136.7 | 415 | 382.8 | 162.2 | 475 | 437.2 | 185.6 |
| 56 | 51.5 | 21.9 | 116 | 106.6 | 45.3 | 176 | 162.0 | 86.6 | 236 | 217.2 | 22.2 | 266 | 272.5 | 115.7 | 356 | 327.7 | 132.1 | 416 | 362.9 | 162.5 | 476 | 438.2 | 188.6 |
| 57 | 52 5 | 22.3 | 117 | 187.7 | 45.7 | 177 | 162.2 | 69.2 | 237 | 218.2 | 92.6 | 297 | 273.4 | 118.9 | 357 | 328.6 | 139.5 | 417 | 383.6 | 162.9 | 477 | 439.1 | 186.4 |
| 56 | 53.4 | 22.7 | 118 | 188.6 | 48.1 | 176 | 163.6 | 69.6 | 238 | 216.1 | 63.8 | 226 | 274.3 | 116.4 | 356 | 329.5 | 139.2 | 416 | 384.6 | 163.3 | 476 | 440.9 | 186.6 |
| 52 | 54.3 | 23.1 | 119 | 169.5 | 46.6 | 172 | 164.6 | 62.2 | 239 | 223.0 | 23.4 | 222 | 276.2 | 116.8 | 352 | 339.5 | 149.3 | 419 | 385.7 | 163.7 | 472 | 449.9 | 187.2 |
| 68 | 55.2 | 23.4 | 120 | 110.6 | 46.6 | 186 | 185.7 | 70.3 | 240 | 228.2 | 23.6 | 388 | 276.2 | 117.2 | 369 | 331.4 | 148.7 | 428 | 386.6 | 164.1 | 480 | 441.8 | 187.6 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 28.ᵐ Para 67 grados. 7.ʰ 32.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.ʰ 36.ᵐ — Para 24 grados. — 10.ʰ 24.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 08.9 | 00.4 | 61 | 55.7 | 24.8 | 121 | 110.9 | 49.2 | 181 | 105.4 | 73.6 | 241 | 226.2 | 98.0 | 301 | 275.0 | 122.4 | 361 | 329.8 | 146.8 | 421 | 384.6 | 171.2 |
| 2 | 81.9 | 08.8 | 92 | 50.6 | 25.2 | 122 | 111.9 | 49.6 | 182 | 169.3 | 74.0 | 242 | 221.1 | 90.4 | 302 | 275.9 | 122.8 | 462 | 330.7 | 147.2 | 422 | 385.9 | 171.6 |
| 3 | 92.7 | 61.2 | 63 | 67.9 | 25.6 | 123 | 112.4 | 00.0 | 103 | 157.2 | 74.4 | 243 | 222.0 | 98.0 | 303 | 276.9 | 123.5 | 463 | 331.6 | 147.6 | 423 | 386.4 | 172.1 |
| 4 | 63.7 | 01.0 | 64 | 68.6 | 26.0 | 124 | 113.3 | 50.4 | 104 | 160.1 | 74.8 | 244 | 222.9 | 99.2 | 304 | 277.7 | 123.7 | 364 | 332.5 | 148.1 | 424 | 387.3 | 172.5 |
| 6 | 64.6 | 02.0 | 65 | 59.4 | 96.4 | 125 | 114.2 | 30.8 | 185 | 109.8 | 73.2 | 245 | 223.8 | 99.7 | 305 | 278.6 | 124.1 | 155 | 333.4 | 140.9 | 425 | 308.2 | 172.9 |
| 6 | 86.6 | 62.4 | 69 | 60.3 | 26.8 | 120 | 119.1 | 61.2 | 186 | 169.9 | 75.7 | 246 | 224.7 | 100.1 | 306 | 279.5 | 124.5 | 366 | 334.3 | 148.9 | 426 | 389.2 | 173.3 |
| 7 | 06.4 | 62.8 | 67 | 61.2 | 27.3 | 127 | 119.0 | 61.7 | 187 | 170.8 | 79.1 | 247 | 225.6 | 106.6 | 307 | 280.4 | 124.9 | 467 | 335.3 | 149.3 | 497 | 390.1 | 173.7 |
| 9 | 07.3 | 03.3 | 68 | 99.1 | 27.7 | 128 | 119.2 | 32.1 | 180 | 171.7 | 76.5 | 240 | 226.6 | 100.9 | 308 | 281.4 | 125.3 | 368 | 336.2 | 149.7 | 428 | 391.9 | 174.1 |
| 9 | 00.2 | 93.7 | 69 | 93.0 | 28.1 | 129 | 117.8 | 32.5 | 189 | 172.7 | 76.9 | 242 | 227.5 | 181.3 | 309 | 282.3 | 125.7 | 369 | 337.1 | 150.1 | 429 | 391.9 | 174.5 |
| 18 | 09.1 | 04.1 | 70 | 63.9 | 28.3 | 130 | 118.8 | 02.9 | 190 | 173.6 | 77.3 | 250 | 228.4 | 101.7 | 310 | 283.2 | 129.1 | 378 | 338.6 | 158.3 | 430 | 392.0 | 174.9 |
| 11 | 16.0 | 94.5 | 71 | 64.9 | 28.9 | 131 | 119.7 | 33.3 | 191 | 174.5 | 77.7 | 251 | 229.3 | 102.1 | 311 | 284.1 | 126.5 | 371 | 338.9 | 150 9 | 431 | 393.7 | 175.3 |
| 12 | 11.0 | 84.9 | 72 | 69.8 | 29.3 | 132 | 120.6 | 33.7 | 192 | 176.4 | 79.1 | 252 | 230.2 | 162.3 | 312 | 285.8 | 126.9 | 372 | 339.8 | 131.3 | 432 | 394.9 | 173.7 |
| 13 | 11.2 | 95.3 | 73 | 99.7 | 22.7 | 133 | 121.6 | 54.1 | 193 | 176.3 | 78.5 | 253 | 231.1 | 102.9 | 313 | 289.9 | 127.3 | 373 | 346.7 | 151.7 | 433 | 399.6 | 176.1 |
| 14 | 12.8 | 93.7 | 74 | 67.6 | 30.1 | 134 | 122.4 | 94.5 | 194 | 177.2 | 78.9 | 254 | 232.0 | 103.3 | 314 | 206.8 | 127.7 | 374 | 341.7 | 152.1 | 434 | 396.5 | 176.5 |
| 15 | 13.7 | 06.1 | 75 | 98.5 | 30.5 | 135 | 123.3 | 34.9 | 195 | 179.1 | 72.3 | 255 | 233.0 | 163.7 | 315 | 287.8 | 129.1 | 375 | 342.9 | 152.5 | 436 | 397.4 | 176.9 |
| 10 | 14.6 | 86.5 | 70 | 99.4 | 36.2 | 136 | 121.2 | 35.3 | 196 | 179.1 | 72.7 | 256 | 233.2 | 104.1 | 316 | 208.7 | 120.5 | 376 | 343.5 | 152.9 | 436 | 398.3 | 177.3 |
| 17 | 15.5 | 66.9 | 77 | 78.3 | 31.3 | 137 | 125.2 | 55.7 | 197 | 180.0 | 80.1 | 257 | 234.8 | 104.5 | 317 | 202.9 | 128.9 | 377 | 344.4 | 133.3 | 437 | 399.2 | 177.7 |
| 18 | 19.4 | 07.3 | 70 | 71.3 | 31.7 | 138 | 120.1 | 56.1 | 190 | 180.9 | 80.5 | 250 | 233.7 | 104.2 | 318 | 296.5 | 122.3 | 378 | 343.3 | 153.7 | 438 | 406.1 | 178.2 |
| 19 | 17.4 | 07.7 | 79 | 72.2 | 32.1 | 139 | 127.0 | 65.5 | 199 | 181.8 | 00.9 | 259 | 236.6 | 106.3 | 312 | 291.4 | 199.8 | 379 | 346.2 | 134.2 | 439 | 401.0 | 178.6 |
| 20 | 19.3 | 08.1 | 80 | 73.1 | 32.5 | 146 | 127.6 | 69.9 | 200 | 102.7 | 81.3 | 260 | 237.5 | 109.0 | 320 | 292.3 | 130.2 | 380 | 347.1 | 154.6 | 440 | 402.0 | 179.0 |
| 21 | 19.2 | 88.5 | 81 | 74.6 | 32.9 | 141 | 120.8 | 67.3 | 201 | 183.6 | 81.8 | 261 | 238.4 | 109.2 | 321 | 293.2 | 130.6 | 381 | 348.1 | 153.0 | 441 | 402.9 | 179.4 |
| 22 | 20.1 | 08.9 | 82 | 74.9 | 33.4 | 142 | 129.7 | 57.8 | 202 | 184.6 | 82.2 | 202 | 239.3 | 106.6 | 322 | 294.2 | 131.0 | 382 | 349.9 | 155.4 | 442 | 403.8 | 172.8 |
| 23 | 21.0 | 89.4 | 03 | 79.8 | 33.0 | 143 | 130.6 | 60.2 | 203 | 105.4 | 92.6 | 263 | 240.3 | 107.0 | 323 | 295.1 | 131.4 | 383 | 312.9 | 155.8 | 443 | 404.7 | 180.2 |
| 24 | 21.2 | 89.8 | 84 | 76.7 | 34.2 | 144 | 131.6 | 68.6 | 204 | 186.4 | 03.6 | 264 | 211.2 | 107.4 | 324 | 296.0 | 131.8 | 184 | 350.8 | 156.2 | 444 | 405.6 | 180.6 |
| 25 | 22.6 | 16.2 | 85 | 77.7 | 34.6 | 145 | 132.6 | 59.0 | 205 | 187.3 | 83.4 | 265 | 242.1 | 107.8 | 325 | 220.9 | 132.2 | 385 | 351.7 | 156.6 | 445 | 466.6 | 181.0 |
| 96 | 23.0 | 16.9 | 80 | 78.6 | 33.0 | 140 | 133.4 | 59.4 | 206 | 188.2 | 83.8 | 260 | 243.6 | 169.2 | 320 | 297.8 | 132.6 | 386 | 332.6 | 157.0 | 446 | 407.4 | 181.4 |
| 27 | 24.7 | 11.0 | 87 | 79.6 | 35.4 | 147 | 134.3 | 69.8 | 207 | 109.1 | 64.2 | 267 | 243.9 | 108.6 | 397 | 228.7 | 133.0 | 107 | 353.5 | 157.4 | 447 | 408.3 | 181.8 |
| 28 | 25.6 | 11.4 | 08 | 86.4 | 35.0 | 148 | 135.2 | 56.2 | 200 | 196.8 | 84.6 | 268 | 244.0 | 109.0 | 320 | 299.9 | 133.4 | 300 | 354.4 | 157.8 | 448 | 409.3 | 102.2 |
| 29 | 29.3 | 11.8 | 09 | 91.3 | 30.2 | 149 | 130.1 | 08.0 | 202 | 196.9 | 65.0 | 269 | 245.7 | 169.4 | 329 | 300.6 | 133.8 | 389 | 353.4 | 158.2 | 442 | 410.2 | 182.6 |
| 30 | 27.4 | 12.2 | 90 | 82.2 | 39.6 | 150 | 137.8 | 91.0 | 210 | 191.8 | 95.4 | 276 | 246.7 | 109.0 | 339 | 301.5 | 134.2 | 390 | 369.3 | 138.6 | 450 | 411.1 | 103.0 |
| 31 | 28.3 | 12.0 | 91 | 83.1 | 37.0 | 151 | 137.9 | 61.4 | 211 | 199.0 | 95.8 | 271 | 247.0 | 110.2 | 331 | 302.4 | 134.6 | 391 | 357.2 | 159.0 | 451 | 412.0 | 183.4 |
| 32 | 29.2 | 13.0 | 92 | 84 0 | 37.4 | 152 | 138.9 | 91.0 | 212 | 193.7 | 86.2 | 272 | 248.5 | 110.6 | 332 | 303.3 | 135.0 | 392 | 350.1 | 152.4 | 452 | 412.2 | 183.8 |
| 33 | 38.1 | 13.4 | 93 | 03.6 | 37.8 | 153 | 139.8 | 92.2 | 213 | 194.6 | 86.6 | 273 | 249.4 | 111.0 | 333 | 304.2 | 136.4 | 393 | 359.0 | 152.8 | 453 | 413.0 | 184.3 |
| 34 | 31.1 | 13.8 | 94 | 03.9 | 38.2 | 154 | 140.7 | 92.6 | 214 | 126.5 | 67.6 | 274 | 250.3 | 111.4 | 334 | 305.1 | 135.9 | 394 | 362.9 | 168.3 | 454 | 414.7 | 104.7 |
| 33 | 32.6 | 14.2 | 95 | 09.8 | 38.5 | 155 | 141.9 | 63.0 | 210 | 199.4 | 97.4 | 275 | 251.2 | 111.9 | 335 | 306.0 | 136.3 | 325 | 360.9 | 160.7 | 453 | 415.7 | 103.1 |
| 39 | 32.9 | 14.6 | 96 | 87.7 | 39.6 | 156 | 142.3 | 63.5 | 210 | 197.3 | 87.2 | 276 | 252.1 | 112.3 | 330 | 306.9 | 130.7 | 325 | 361.6 | 161.1 | 456 | 416.0 | 185.5 |
| 37 | 33.9 | 15.0 | 97 | 88.0 | 32.5 | 157 | 143.4 | 63.2 | 217 | 198.2 | 60.3 | 277 | 253.1 | 112.7 | 337 | 367.9 | 137.1 | 397 | 362.7 | 161.5 | 457 | 417.6 | 103.9 |
| 38 | 34.7 | 15.5 | 98 | 89.6 | 39.9 | 158 | 144.3 | 64.3 | 210 | 192.2 | 80.7 | 278 | 254.0 | 113.1 | 338 | 308.8 | 137.5 | 390 | 363.9 | 161.9 | 458 | 418.4 | 189.3 |
| 39 | 36.9 | 15.9 | 99 | 96.4 | 40.3 | 159 | 145.3 | 64.7 | 219 | 208.1 | 89.1 | 279 | 254.9 | 113.5 | 339 | 309.7 | 137.9 | 499 | 364.6 | 162.3 | 152 | 419.3 | 180.7 |
| 48 | 36.9 | 19.3 | 100 | 91.4 | 49.7 | 160 | 146.2 | 65.1 | 220 | 201.8 | 82.5 | 260 | 255.9 | 113.9 | 340 | 316.0 | 138.3 | 400 | 369.4 | 162.7 | 400 | 420.2 | 187.1 |
| 41 | 37.5 | 18.7 | 101 | 92.3 | 41.1 | 161 | 147.1 | 65.5 | 221 | 901.9 | 89.9 | 201 | 256.7 | 114.3 | 341 | 311.9 | 130.7 | 401 | 360.3 | 163.1 | 481 | 491.1 | 187.5 |
| 42 | 30.4 | 17.1 | 102 | 93.2 | 41.5 | 162 | 140.9 | 65.9 | 222 | 202.8 | 98.3 | 282 | 257.9 | 114.7 | 342 | 312.4 | 139.1 | 402 | 367.2 | 163.5 | 462 | 422.8 | 107.9 |
| 43 | 39.3 | 17.6 | 103 | 94.1 | 41.9 | 163 | 148.9 | 66.3 | 223 | 203.7 | 90.7 | 203 | 258.9 | 115.1 | 343 | 313.3 | 139.5 | 403 | 368.2 | 163.2 | 463 | 423.9 | 188.3 |
| 44 | 46.2 | 17.9 | 164 | 95.0 | 42.3 | 164 | 142.8 | 66.7 | 224 | 204.6 | 91.1 | 284 | 259.4 | 113.6 | 344 | 314.3 | 132.9 | 101 | 369.1 | 161.3 | 464 | 423.9 | 180.7 |
| 43 | 41.1 | 18.3 | 105 | 95.9 | 42.7 | 165 | 138.7 | 97.1 | 225 | 203.5 | 91.5 | 285 | 260.4 | 115.9 | 345 | 313.2 | 140.3 | 405 | 370.9 | 164.7 | 405 | 424.8 | 189.1 |
| 46 | 42.6 | 18.7 | 100 | 96.8 | 43.1 | 166 | 131.9 | 67.5 | 226 | 206.5 | 91.2 | 286 | 961.3 | 119.3 | 346 | 316.1 | 140.7 | 106 | 370.9 | 165.1 | 466 | 423.7 | 189.0 |
| 47 | 42.9 | 19.1 | 167 | 97.7 | 43.5 | 167 | 152.9 | 67.9 | 227 | 207.4 | 92.3 | 287 | 262.2 | 116.7 | 347 | 317.0 | 141.1 | 407 | 371.8 | 165.5 | 467 | 426.6 | 189.9 |
| 48 | 43.9 | 19.5 | 108 | 98.7 | 43.9 | 168 | 153.6 | 68.3 | 228 | 208.3 | 92.7 | 288 | 263.1 | 117.1 | 348 | 317.2 | 141.5 | 108 | 372.7 | 165.9 | 466 | 427.3 | 126.4 |
| 49 | 44.8 | 19.9 | 102 | 99.6 | 44.3 | 169 | 154.4 | 68.7 | 222 | 202.2 | 93.1 | 289 | 264.6 | 117.5 | 349 | 318.0 | 142.0 | 402 | 373.6 | 166.4 | 462 | 428.4 | 190.8 |
| 60 | 45.7 | 20.3 | 110 | 100.5 | 44.7 | 176 | 133.3 | 69.1 | 230 | 219.1 | 93.0 | 290 | 264.9 | 119.0 | 350 | 319.7 | 142.4 | 416 | 374.6 | 166.6 | 470 | 429.4 | 191.2 |
| 51 | 46.6 | 20.7 | 111 | 101.4 | 45.1 | 171 | 169.2 | 69.6 | 231 | 211.8 | 94.9 | 291 | 265.0 | 118.4 | 351 | 320.6 | 142.8 | 111 | 375.9 | 107.2 | 471 | 438.3 | 191.0 |
| 62 | 47.9 | 21.9 | 112 | 102.3 | 46.6 | 172 | 137.1 | 78.0 | 232 | 211.9 | 24.4 | 292 | 266.9 | 118.8 | 352 | 321.9 | 143.2 | 412 | 376.4 | 167.6 | 472 | 431.2 | 192.0 |
| 63 | 48.4 | 21.6 | 113 | 103.2 | 49.0 | 173 | 138.6 | 70.4 | 233 | 212.9 | 94.8 | 293 | 207.7 | 119.2 | 353 | 322.6 | 143.6 | 413 | 377.3 | 168.0 | 473 | 432.1 | 192.4 |
| 94 | 49.3 | 29.0 | 114 | 104.1 | 46.4 | 174 | 139.6 | 76.8 | 234 | 213.0 | 95.2 | 294 | 268.9 | 119.6 | 354 | 323.4 | 144.0 | 414 | 378.9 | 160.4 | 474 | 433.0 | 192.8 |
| 95 | 50.2 | 29.4 | 115 | 105.1 | 46.8 | 175 | 159.8 | 71.2 | 235 | 214.7 | 96.6 | 296 | 269.9 | 120.0 | 355 | 324.3 | 144.4 | 415 | 379.1 | 168.8 | 475 | 433.9 | 193.2 |
| 96 | 61.2 | 22.8 | 116 | 106.0 | 47.2 | 176 | 160.8 | 71.6 | 236 | 213.6 | 96.0 | 296 | 276.4 | 129.4 | 359 | 323.2 | 144.8 | 416 | 380.6 | 169.2 | 476 | 434.0 | 193.0 |
| 67 | 62.1 | 23.2 | 117 | 106.9 | 47.6 | 177 | 161.7 | 72.0 | 237 | 216.6 | 96.4 | 297 | 271.3 | 129.6 | 357 | 326.1 | 146.2 | 417 | 380.9 | 169.0 | 477 | 435.8 | 194.0 |
| 58 | 53.6 | 23.6 | 118 | 187.8 | 48.0 | 178 | 162.6 | 72.4 | 238 | 217.4 | 95.8 | 298 | 272.2 | 121.2 | 368 | 397.0 | 143.0 | 418 | 381.9 | 170.6 | 478 | 436.7 | 194.4 |
| 69 | 53.9 | 24.0 | 119 | 188.7 | 48.4 | 179 | 193.6 | 72.8 | 939 | 218.3 | 97.2 | 299 | 273.2 | 121.6 | 359 | 328.0 | 140.0 | 419 | 302.0 | 170.4 | 479 | 437.6 | 194.8 |
| 90 | 64.8 | 21.4 | 120 | 189.9 | 48.8 | 180 | 164.4 | 73.2 | 240 | 219.3 | 97.0 | 360 | 274.1 | 122.8 | 300 | 328.9 | 146.4 | 420 | 383.7 | 178.8 | 480 | 438.5 | 125.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 24.ᵐ — Para 66 grados. — 7.ʰ 36.ᵐ

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.ʰ 40.ᵐ Para 25 grados. 10.ʰ 20.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.4 | 61 | 55.3 | 95.8 | 121 | 109.7 | 51.1 | 181 | 164.0 | 76.5 | 241 | 218.4 | 101.9 | 301 | 272.8 | 127.2 | 361 | 327.1 | 159.5 | 421 | 381.6 | 177.0 |
| 2 | 01.8 | 00.8 | 62 | 66.2 | 26.9 | 122 | 110.6 | 51.6 | 182 | 164.9 | 76.9 | 242 | 219.3 | 109.3 | 309 | 273.7 | 127.6 | 362 | 328.0 | 153.0 | 422 | 382.4 | 176.3 |
| 3 | 02.7 | 21.3 | 63 | 57.1 | 26.6 | 123 | 111.6 | 52.0 | 183 | 165.9 | 77.3 | 243 | 220.2 | 102.7 | 303 | 274.6 | 128.0 | 363 | 329.0 | 150.4 | 423 | 383.3 | 176.7 |
| 4 | 03.6 | 01.7 | 64 | 58.0 | 27.0 | 194 | 112.4 | 52.4 | 184 | 166.8 | 77.8 | 244 | 221.1 | 103.1 | 304 | 275.5 | 128.4 | 364 | 329.9 | 153.8 | 424 | 384.2 | 179.2 |
| 5 | 01.5 | 02.1 | 65 | 58.2 | 27.5 | 125 | 113.3 | 52.8 | 185 | 167.7 | 70.9 | 245 | 222.0 | 103.6 | 305 | 275.4 | 128.9 | 365 | 330.6 | 154.2 | 426 | 385.1 | 179.6 |
| 6 | 05.4 | 02.5 | 66 | 09.8 | 27.9 | 126 | 114.2 | 63.2 | 186 | 168.6 | 78.6 | 246 | 223.0 | 104.0 | 306 | 277.3 | 129.3 | 366 | 331.7 | 154.6 | 426 | 386.2 | 180.0 |
| 7 | 06.3 | 00.0 | 67 | 60.7 | 28.3 | 127 | 115.1 | 53.7 | 187 | 169.5 | 72.0 | 247 | 223.2 | 101.4 | 307 | 278.2 | 129.7 | 367 | 332.6 | 155.1 | 427 | 387.0 | 180.4 |
| 8 | 07.3 | 03.4 | 68 | 61.6 | 28.7 | 128 | 116.2 | 64.1 | 188 | 170.4 | 70.3 | 248 | 224.8 | 104.8 | 308 | 270.1 | 130.1 | 368 | 333.6 | 165.5 | 420 | 387.2 | 180.9 |
| 9 | 08.2 | 03.8 | 69 | 62.5 | 29.2 | 129 | 116.2 | 64.6 | 189 | 171.3 | 72.9 | 249 | 226.7 | 105.2 | 309 | 280.0 | 130.6 | 369 | 334.4 | 155.9 | 429 | 388.6 | 181.3 |
| 10 | 09.1 | 24.9 | 70 | 63.4 | 22.6 | 130 | 117.0 | 64.9 | 120 | 172.2 | 82.3 | 250 | 226.6 | 105.7 | 310 | 980.9 | 131.0 | 370 | 336.3 | 156.3 | 430 | 382.7 | 181.7 |
| 11 | 10.0 | 04.6 | 71 | 64.3 | 00.0 | 131 | 118.7 | 56.4 | 191 | 173.1 | 80.7 | 251 | 227.5 | 106.1 | 311 | 281.8 | 131.4 | 371 | 336.2 | 156.8 | 431 | 390.6 | 182.1 |
| 12 | 10.9 | 05.1 | 72 | 65.3 | 30.4 | 132 | 112.6 | 65.8 | 192 | 174.0 | 81.1 | 252 | 228.4 | 106.6 | 312 | 282.7 | 131.8 | 372 | 337.1 | 167.2 | 432 | 391.6 | 189.6 |
| 13 | 11.8 | 05.6 | 73 | 66.2 | 30.0 | 133 | 120.6 | 56.2 | 193 | 174.2 | 81.6 | 253 | 920.3 | 106.9 | 313 | 283.5 | 132.2 | 373 | 332.0 | 167.6 | 433 | 392.4 | 183.0 |
| 14 | 12.7 | 05.9 | 74 | 67.1 | 31.3 | 134 | 121.4 | 66.6 | 194 | 175.8 | 82.0 | 254 | 230.2 | 107.3 | 314 | 284.6 | 132.7 | 374 | 330.9 | 158.0 | 434 | 393.3 | 183.4 |
| 15 | 13.6 | 06.3 | 76 | 68.0 | 31.7 | 135 | 122.4 | 67.1 | 195 | 175.7 | 82.4 | 255 | 231.1 | 107.8 | 315 | 285.4 | 133.1 | 375 | 332.8 | 168.5 | 435 | 394.2 | 163.8 |
| 16 | 14.6 | 06.8 | 76 | 68.9 | 32.1 | 136 | 123.3 | 07.5 | 196 | 177.6 | 82.8 | 956 | 932.0 | 108.2 | 316 | 286.4 | 133.5 | 376 | 340.7 | 158.9 | 436 | 395.1 | 184.2 |
| 17 | 15.4 | 07.2 | 77 | 69.8 | 32.6 | 137 | 124.2 | 07.9 | 197 | 178.6 | 83.3 | 957 | 232.9 | 108.6 | 317 | 287.3 | 133.9 | 377 | 341.6 | 159.3 | 437 | 396.0 | 184.7 |
| 18 | 16.3 | 07.6 | 78 | 70.7 | 33.0 | 138 | 120.1 | 58.3 | 198 | 170.4 | 83.7 | 258 | 233.8 | 109.0 | 318 | 280.2 | 134.4 | 378 | 342.6 | 159.7 | 438 | 396.9 | 185.1 |
| 19 | 17.2 | 08.0 | 79 | 71.6 | 33.4 | 139 | 126.0 | 68.7 | 199 | 180.4 | 84.1 | 952 | 234.7 | 109.6 | 319 | 289.1 | 134.8 | 379 | 343.5 | 160.1 | 439 | 397.8 | 185.5 |
| 20 | 18.1 | 08.5 | 80 | 79.6 | 33.8 | 140 | 125.9 | 69.2 | 200 | 161.3 | 84.6 | 260 | 236.6 | 109.9 | 320 | 200.0 | 130.2 | 380 | 344.4 | 160.6 | 440 | 396.7 | 185.9 |
| 91 | 19.0 | 08.9 | 81 | 73.4 | 34.2 | 141 | 127.8 | 69.6 | 901 | 182.2 | 84.9 | 261 | 238.6 | 110.3 | 321 | 220.9 | 136.6 | 381 | 346.3 | 161.0 | 441 | 399.6 | 186.3 |
| 92 | 19.2 | 09.3 | 82 | 74.3 | 04.7 | 142 | 126.7 | 60.0 | 902 | 183.1 | 85.4 | 262 | 237.5 | 110.7 | 329 | 291.8 | 136.1 | 382 | 346.2 | 161.4 | 442 | 400.6 | 186.0 |
| 23 | 20.6 | 09.7 | 83 | 75.2 | 35.1 | 143 | 129.6 | 60.4 | 203 | 184.0 | 85.8 | 263 | 238.4 | 111.1 | 323 | 292.7 | 136.5 | 383 | 347.1 | 161.8 | 443 | 401.6 | 187.2 |
| 24 | 21.0 | 10.1 | 84 | 76.1 | 35.5 | 144 | 130.6 | 60.9 | 204 | 184.2 | 86.2 | 264 | 239.3 | 111.6 | 321 | 293.6 | 136.9 | 384 | 348.0 | 169.3 | 444 | 402.4 | 187.6 |
| 95 | 22.7 | 10.6 | 85 | 77.0 | 35.9 | 145 | 131.4 | 61.3 | 205 | 185.6 | 66.6 | 266 | 240.2 | 112.0 | 395 | 294.6 | 137.3 | 385 | 346.9 | 162.7 | 445 | 403.3 | 188.0 |
| 26 | 23.6 | 11.0 | 86 | 77.9 | 36.3 | 146 | 132.3 | 61.7 | 906 | 186.7 | 87.1 | 266 | 241.1 | 112.4 | 326 | 296.4 | 137.7 | 386 | 340.8 | 163.1 | 446 | 404.2 | 188.5 |
| 27 | 24.6 | 11.4 | 87 | 78.8 | 36.8 | 147 | 133.2 | 62.1 | 907 | 187.6 | 87.6 | 267 | 242.0 | 112.8 | 327 | 296.3 | 130.2 | 387 | 350.7 | 163.5 | 147 | 405.1 | 188.9 |
| 98 | 25.4 | 11.8 | 88 | 79.8 | 37.2 | 148 | 134.1 | 62.5 | 208 | 188.5 | 87.9 | 268 | 242.2 | 113.3 | 328 | 297.2 | 138.6 | 388 | 351.6 | 163.9 | 448 | 406.0 | 189.3 |
| 29 | 26.3 | 12.3 | 89 | 80.7 | 37.6 | 149 | 135.0 | 63.0 | 209 | 182.4 | 88.3 | 262 | 243.8 | 113.7 | 399 | 998.1 | 139.0 | 389 | 352.5 | 164.4 | 449 | 406.9 | 189.7 |
| 30 | 27.2 | 12.7 | 90 | 81.6 | 38.0 | 160 | 135.9 | 63.4 | 210 | 192.3 | 86.7 | 270 | 241.7 | 114.1 | 330 | 292.0 | 139.4 | 390 | 353.4 | 164.8 | 450 | 407.8 | 190.1 |
| 31 | 28.1 | 13.1 | 91 | 82.5 | 38.5 | 151 | 136.9 | 63.8 | 211 | 191.2 | 89.9 | 271 | 945.6 | 114.6 | 331 | 300.0 | 139.9 | 391 | 354.3 | 166.9 | 461 | 408.7 | 190.6 |
| 32 | 29.0 | 13.5 | 92 | 83.4 | 38.9 | 152 | 137.8 | 64.2 | 219 | 192.1 | 89.6 | 272 | 246.6 | 115.0 | 332 | 300.9 | 140.3 | 392 | 355.2 | 165.6 | 452 | 409.6 | 191.0 |
| 33 | 22.0 | 13.9 | 93 | 64.3 | 39.3 | 153 | 138.7 | 64.7 | 213 | 193.0 | 90.0 | 273 | 247.4 | 115.4 | 333 | 301.8 | 140.7 | 393 | 356.1 | 166.1 | 463 | 410.5 | 191.4 |
| 34 | 30.8 | 14.4 | 94 | 85.2 | 39.7 | 164 | 139.6 | 65.1 | 214 | 193.9 | 90.4 | 974 | 216.3 | 115.8 | 334 | 302.7 | 141.1 | 394 | 357.0 | 166.5 | 454 | 411.4 | 191.6 |
| 35 | 31.7 | 14.8 | 95 | 86.1 | 40.1 | 155 | 140.5 | 65.5 | 215 | 194.9 | 90.9 | 276 | 249.2 | 116.9 | 335 | 303.6 | 141.6 | 395 | 358.0 | 166.9 | 456 | 412.3 | 192.3 |
| 36 | 32.6 | 15.2 | 96 | 87.0 | 40.6 | 156 | 141.4 | 66.9 | 216 | 196.8 | 91.3 | 276 | 950.1 | 116.6 | 336 | 304.5 | 142.0 | 396 | 358.2 | 167.3 | 456 | 413.2 | 192.7 |
| 37 | 33.5 | 15.6 | 97 | 87.2 | 41.0 | 157 | 142.3 | 66.4 | 217 | 196.7 | 91.7 | 277 | 251.0 | 117.1 | 337 | 306.4 | 142.4 | 397 | 359.8 | 167.7 | 467 | 414.1 | 193.1 |
| 38 | 34.4 | 16.1 | 98 | 88.8 | 41.4 | 158 | 143.2 | 66.8 | 218 | 197.6 | 92.1 | 278 | 252.0 | 117.5 | 338 | 306.3 | 142.8 | 398 | 360.7 | 168.2 | 158 | 416.1 | 193.6 |
| 39 | 36.3 | 16.5 | 90 | 89.7 | 41.8 | 159 | 144.1 | 67.2 | 219 | 196.5 | 92.6 | 272 | 252.9 | 117.9 | 339 | 307.2 | 143.2 | 399 | 361.6 | 168.6 | 459 | 416.0 | 194.2 |
| 40 | 36.3 | 16.9 | 100 | 90.6 | 42.3 | 160 | 145.0 | 67.6 | 290 | 199.4 | 93.0 | 280 | 253.8 | 118.3 | 340 | 308.1 | 143.7 | 400 | 362.5 | 169.0 | 460 | 416.9 | 194.4 |
| 41 | 37.2 | 17.3 | 101 | 91.5 | 42.7 | 161 | 145.9 | 68.0 | 221 | 200.3 | 93.4 | 281 | 254.7 | 118.8 | 341 | 309.0 | 144.1 | 401 | 363.4 | 169.4 | 461 | 417.8 | 194.8 |
| 49 | 08.1 | 17.7 | 109 | 92.4 | 43.1 | 162 | 146.8 | 68.5 | 222 | 201.2 | 93.8 | 282 | 255.6 | 119.2 | 342 | 309.9 | 144.5 | 409 | 364.3 | 169.9 | 469 | 418.7 | 196.2 |
| 43 | 39.0 | 18.2 | 103 | 93.3 | 43.6 | 163 | 147.7 | 60.9 | 993 | 202.1 | 94.9 | 283 | 266.5 | 119.6 | 343 | 310.8 | 144.9 | 403 | 365.2 | 170.3 | 463 | 419.6 | 196.6 |
| 44 | 32.0 | 18.6 | 104 | 94.3 | 44.0 | 164 | 142.6 | 69.3 | 224 | 203.0 | 94.7 | 284 | 257.4 | 120.0 | 344 | 311.7 | 145.4 | 404 | 366.1 | 170.7 | 464 | 420.5 | 196.1 |
| 45 | 42.6 | 19.0 | 106 | 95.2 | 44.4 | 165 | 149.6 | 69.7 | 225 | 903.2 | 95.1 | 285 | 958.3 | 120.4 | 346 | 312.6 | 145.8 | 405 | 367.0 | 171.1 | 465 | 421.4 | 198.5 |
| 46 | 41.7 | 19.4 | 106 | 96.1 | 44.8 | 166 | 150.4 | 70.2 | 226 | 204.8 | 95.5 | 286 | 259.2 | 120.9 | 346 | 313.6 | 146.2 | 406 | 367.2 | 171.6 | 466 | 422.3 | 196.2 |
| 47 | 42.6 | 19.9 | 107 | 97.0 | 45.2 | 167 | 151.4 | 70.6 | 927 | 205.7 | 95.9 | 287 | 260.1 | 121.3 | 347 | 314.5 | 146.6 | 407 | 368.8 | 172.0 | 467 | 493.9 | 197.3 |
| 48 | 43.6 | 20.3 | 108 | 97.9 | 45.6 | 168 | 152.3 | 71.0 | 228 | 206.6 | 96.4 | 288 | 261.2 | 121.7 | 348 | 315.4 | 147.0 | 408 | 369.7 | 172.4 | 468 | 424.1 | 197.6 |
| 49 | 44.4 | 20.7 | 109 | 98.8 | 46.1 | 169 | 163.2 | 71.4 | 229 | 207.6 | 96.8 | 289 | 261.9 | 122.1 | 349 | 316.3 | 147.6 | 409 | 370.6 | 172.8 | 469 | 425.0 | 198.2 |
| 50 | 46.3 | 21.1 | 110 | 99.7 | 46.5 | 170 | 154.1 | 71.8 | 230 | 208.5 | 97.2 | 990 | 262.8 | 192.6 | 350 | 317.2 | 147.9 | 410 | 371.6 | 173.9 | 470 | 426.9 | 198.6 |
| 61 | 46.2 | 21.6 | 111 | 100.6 | 46.9 | 171 | 156.0 | 72.3 | 231 | 209.4 | 97.6 | 291 | 963.7 | 123.0 | 351 | 316.1 | 146.3 | 411 | 372.5 | 173.7 | 171 | 426.8 | 199.2 |
| 62 | 47.1 | 22.0 | 112 | 101.5 | 47.3 | 172 | 156.9 | 72.7 | 232 | 210.3 | 98.0 | 922 | 264.6 | 120.4 | 352 | 319.0 | 146.7 | 412 | 373.4 | 174.1 | 179 | 427.7 | 199.4 |
| 53 | 48.0 | 22.4 | 113 | 102.4 | 47.8 | 173 | 156.8 | 73.1 | 233 | 211.2 | 98.6 | 293 | 266.0 | 123.8 | 353 | 319.9 | 149.2 | 413 | 374.3 | 174.6 | 473 | 428.6 | 199.2 |
| 64 | 46.9 | 22.8 | 114 | 103.3 | 46.9 | 174 | 157.7 | 73.5 | 234 | 219.1 | 26.9 | 294 | 266.6 | 124.2 | 354 | 322.8 | 149.6 | 414 | 375.2 | 174.9 | 474 | 422.6 | 200.3 |
| 55 | 49.6 | 23.2 | 115 | 104.2 | 48.6 | 175 | 168.6 | 74.0 | 235 | 213.0 | 99.3 | 995 | 267.4 | 124.7 | 355 | 321.7 | 150.0 | 416 | 376.1 | 176.4 | 475 | 430.6 | 900.7 |
| 66 | 50.6 | 23.7 | 116 | 106.1 | 49.0 | 176 | 159.5 | 74.4 | 236 | 213.2 | 99.7 | 296 | 268.3 | 125.1 | 366 | 322.6 | 150.4 | 416 | 377.0 | 176.8 | 476 | 431.4 | 901.1 |
| 57 | 61.7 | 24.1 | 117 | 106.0 | 49.4 | 177 | 160.4 | 74.8 | 237 | 214.6 | 100.2 | 227 | 269.2 | 126.5 | 367 | 323.6 | 160.8 | 417 | 377.9 | 176.9 | 477 | 432.3 | 901.6 |
| 56 | 52.6 | 94.6 | 118 | 106.9 | 49.9 | 176 | 161.3 | 75.2 | 238 | 215.7 | 100.6 | 298 | 270.1 | 126.9 | 358 | 324.4 | 161.3 | 418 | 378.6 | 176.6 | 478 | 433.2 | 202.0 |
| 52 | 53.6 | 94.9 | 119 | 107.9 | 60.3 | 179 | 162.2 | 75.6 | 239 | 216.6 | 101.0 | 999 | 271.2 | 126.4 | 352 | 325.3 | 161.7 | 412 | 379.7 | 177.0 | 479 | 434.1 | 202.4 |
| 60 | 64.4 | 25.4 | 120 | 108.8 | 60.7 | 180 | 163.1 | 76.1 | 240 | 217.5 | 101.4 | 300 | 971.9 | 196.8 | 360 | 396.2 | 152.1 | 420 | 380.6 | 177.5 | 480 | 436.0 | 202.6 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 20.ᵐ Para 65 grados. 7.ʰ 40.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.ʰ 44.ᵐ Para 26 grados. 10.ʰ 16.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.4 | 61 | 54.8 | 26.7 | 121 | 108.8 | 53.0 | 181 | 162.7 | 79.3 | 241 | 216.6 | 105.6 | 301 | 270.5 | 132.0 | 361 | 324.5 | 158.3 | 421 | 378.4 | 184.6 |
| 2 | 01.8 | 00.9 | 62 | 55.7 | 27.2 | 122 | 109.7 | 53.5 | 182 | 163.6 | 79.8 | 242 | 217.5 | 106.1 | 302 | 271.4 | 132.4 | 362 | 325.4 | 158.7 | 422 | 379.3 | 185.0 |
| 3 | 02.7 | 01.3 | 63 | 56.6 | 27.6 | 123 | 110.6 | 53.9 | 183 | 164.5 | 80.2 | 243 | 218.4 | 106.5 | 303 | 272.3 | 132.8 | 363 | 326.3 | 159.1 | 423 | 380.2 | 185.4 |
| 4 | 03.6 | 01.8 | 64 | 57.5 | 28.1 | 124 | 111.5 | 54.4 | 184 | 165.4 | 80.7 | 244 | 219.3 | 107.0 | 304 | 273.2 | 133.3 | 364 | 327.2 | 159.6 | 424 | 381.1 | 185.9 |
| 5 | 04.5 | 02.2 | 65 | 58.4 | 28.5 | 125 | 112.3 | 54.8 | 185 | 166.3 | 81.1 | 245 | 220.2 | 107.4 | 305 | 274.1 | 133.7 | 365 | 328.1 | 160.0 | 425 | 382.0 | 186.3 |
| 6 | 05.4 | 02.6 | 66 | 59.3 | 28.9 | 126 | 113.2 | 55.2 | 186 | 167.2 | 81.5 | 246 | 221.1 | 107.8 | 306 | 275.0 | 134.1 | 366 | 329.0 | 160.4 | 426 | 382.9 | 186.7 |
| 7 | 06.3 | 03.1 | 67 | 60.2 | 29.4 | 127 | 114.1 | 55.7 | 187 | 168.1 | 82.0 | 247 | 222.0 | 108.3 | 307 | 275.9 | 134.6 | 367 | 329.9 | 160.9 | 427 | 383.8 | 187.2 |
| 8 | 07.2 | 03.5 | 68 | 61.1 | 29.8 | 128 | 115.0 | 56.1 | 188 | 169.0 | 82.4 | 248 | 222.9 | 108.7 | 308 | 276.8 | 135.0 | 368 | 330.8 | 161.3 | 428 | 384.7 | 187.6 |
| 9 | 08.1 | 03.9 | 69 | 62.0 | 30.2 | 129 | 115.9 | 56.5 | 189 | 169.9 | 82.9 | 249 | 223.8 | 109.2 | 309 | 277.7 | 135.5 | 369 | 331.7 | 161.8 | 429 | 385.6 | 188.1 |
| 10 | 09.0 | 04.4 | 70 | 62.9 | 30.7 | 130 | 116.8 | 57.0 | 190 | 170.8 | 83.3 | 250 | 224.7 | 109.6 | 310 | 278.6 | 135.9 | 370 | 332.6 | 162.2 | 430 | 386.5 | 188.5 |
| 11 | 09.9 | 04.8 | 71 | 63.8 | 31.1 | 131 | 117.7 | 57.4 | 191 | 171.7 | 83.7 | 251 | 225.6 | 110.0 | 311 | 279.5 | 136.3 | 371 | 333.5 | 162.6 | 431 | 387.4 | 188.9 |
| 12 | 10.8 | 05.3 | 72 | 64.7 | 31.6 | 132 | 118.6 | 57.9 | 192 | 172.6 | 84.2 | 252 | 226.5 | 110.5 | 312 | 280.4 | 136.8 | 372 | 334.4 | 163.1 | 432 | 388.3 | 189.4 |
| 13 | 11.7 | 05.7 | 73 | 65.6 | 32.0 | 133 | 119.5 | 58.3 | 193 | 173.5 | 84.6 | 253 | 227.4 | 110.9 | 313 | 281.3 | 137.2 | 373 | 335.3 | 163.5 | 433 | 389.2 | 189.8 |
| 14 | 12.6 | 06.1 | 74 | 66.5 | 32.4 | 134 | 120.4 | 58.7 | 194 | 174.4 | 85.0 | 254 | 228.3 | 111.3 | 314 | 282.2 | 137.7 | 374 | 336.2 | 164.0 | 434 | 390.1 | 190.3 |
| 15 | 13.5 | 06.6 | 75 | 67.4 | 32.9 | 135 | 121.3 | 59.2 | 195 | 175.3 | 85.5 | 255 | 229.2 | 111.8 | 315 | 283.1 | 138.1 | 375 | 337.1 | 164.4 | 435 | 391.0 | 190.7 |
| 16 | 14.4 | 07.0 | 76 | 68.3 | 33.3 | 136 | 122.2 | 59.6 | 196 | 176.2 | 85.9 | 256 | 230.1 | 112.2 | 316 | 284.0 | 138.5 | 376 | 338.0 | 164.8 | 436 | 391.9 | 191.1 |
| 17 | 15.3 | 07.5 | 77 | 69.2 | 33.8 | 137 | 123.1 | 60.1 | 197 | 177.1 | 86.4 | 257 | 231.0 | 112.7 | 317 | 284.9 | 139.0 | 377 | 338.9 | 165.3 | 437 | 392.8 | 191.6 |
| 18 | 16.2 | 07.9 | 78 | 70.1 | 34.2 | 138 | 124.0 | 60.5 | 198 | 178.0 | 86.8 | 258 | 231.9 | 113.1 | 318 | 285.8 | 139.4 | 378 | 339.8 | 165.7 | 438 | 393.7 | 192.0 |
| 19 | 17.1 | 08.3 | 79 | 71.0 | 34.6 | 139 | 124.9 | 60.9 | 199 | 178.9 | 87.2 | 259 | 232.8 | 113.5 | 319 | 286.7 | 139.8 | 379 | 340.7 | 166.2 | 439 | 394.6 | 192.4 |
| 20 | 18.0 | 08.8 | 80 | 71.9 | 35.1 | 140 | 125.8 | 61.4 | 200 | 179.8 | 87.7 | 260 | 233.7 | 114.0 | 320 | 287.6 | 140.3 | 380 | 341.5 | 166.6 | 440 | 395.5 | 192.9 |
| 21 | 18.9 | 09.2 | 81 | 72.8 | 35.5 | 141 | 126.7 | 61.8 | 201 | 180.7 | 88.1 | 261 | 234.6 | 114.4 | 321 | 288.5 | 140.7 | 381 | 342.4 | 167.0 | 441 | 396.4 | 193.3 |
| 22 | 19.8 | 09.6 | 82 | 73.7 | 35.9 | 142 | 127.6 | 62.2 | 202 | 181.6 | 88.6 | 262 | 235.5 | 114.9 | 322 | 289.4 | 141.2 | 382 | 343.3 | 167.6 | 442 | 397.3 | 193.8 |
| 23 | 20.7 | 10.1 | 83 | 74.6 | 36.4 | 143 | 128.5 | 62.7 | 203 | 182.5 | 89.0 | 263 | 236.4 | 115.3 | 323 | 290.3 | 141.6 | 383 | 344.2 | 167.9 | 443 | 398.2 | 194.2 |
| 24 | 21.6 | 10.5 | 84 | 75.5 | 36.8 | 144 | 129.4 | 63.1 | 204 | 183.4 | 89.4 | 264 | 237.3 | 115.7 | 324 | 291.2 | 142.0 | 384 | 345.1 | 168.3 | 444 | 399.1 | 194.7 |
| 25 | 22.5 | 11.0 | 85 | 76.4 | 37.3 | 145 | 130.3 | 63.6 | 205 | 184.3 | 89.9 | 265 | 238.2 | 116.2 | 325 | 292.1 | 142.5 | 385 | 346.0 | 168.8 | 445 | 400.0 | 195.1 |
| 26 | 23.4 | 11.4 | 86 | 77.3 | 37.7 | 146 | 131.2 | 64.0 | 206 | 185.2 | 90.3 | 266 | 239.1 | 116.6 | 326 | 293.0 | 142.9 | 386 | 346.9 | 169.2 | 446 | 400.9 | 195.5 |
| 27 | 24.3 | 11.8 | 87 | 78.2 | 38.1 | 147 | 132.1 | 64.4 | 207 | 186.1 | 90.7 | 267 | 240.0 | 117.0 | 327 | 293.9 | 143.4 | 387 | 347.8 | 169.7 | 447 | 401.8 | 196.0 |
| 28 | 25.2 | 12.3 | 88 | 79.1 | 38.5 | 148 | 133.0 | 64.9 | 208 | 186.9 | 91.2 | 268 | 240.9 | 117.5 | 328 | 294.8 | 143.8 | 388 | 348.7 | 170.1 | 448 | 402.7 | 196.4 |
| 29 | 26.1 | 12.7 | 89 | 80.0 | 39.0 | 149 | 133.9 | 65.3 | 209 | 187.8 | 91.6 | 269 | 241.8 | 117.9 | 329 | 295.7 | 144.2 | 389 | 349.6 | 170.5 | 449 | 403.6 | 196.8 |
| 30 | 27.0 | 13.2 | 90 | 80.9 | 39.5 | 150 | 134.8 | 65.8 | 210 | 188.7 | 92.1 | 270 | 242.7 | 118.4 | 330 | 296.6 | 144.7 | 390 | 350.6 | 171.0 | 450 | 404.5 | 197.3 |
| 31 | 27.9 | 13.6 | 91 | 81.8 | 39.9 | 151 | 135.7 | 66.2 | 211 | 189.6 | 92.5 | 271 | 243.6 | 118.8 | 331 | 297.5 | 145.1 | 391 | 351.4 | 171.4 | 451 | 405.4 | 197.7 |
| 32 | 28.8 | 14.0 | 92 | 82.7 | 40.3 | 152 | 136.6 | 66.6 | 212 | 190.5 | 92.9 | 272 | 244.5 | 119.2 | 332 | 298.4 | 145.5 | 392 | 352.3 | 171.8 | 452 | 406.3 | 198.1 |
| 33 | 29.7 | 14.5 | 93 | 83.6 | 40.8 | 153 | 137.5 | 67.1 | 213 | 191.4 | 93.4 | 273 | 245.4 | 119.7 | 333 | 299.3 | 146.0 | 393 | 353.2 | 172.3 | 453 | 407.2 | 198.6 |
| 34 | 30.6 | 14.9 | 94 | 84.5 | 41.2 | 154 | 138.4 | 67.5 | 214 | 192.3 | 93.8 | 274 | 246.3 | 120.1 | 334 | 300.2 | 146.4 | 394 | 354.1 | 172.7 | 454 | 408.1 | 199.0 |
| 35 | 31.5 | 15.3 | 95 | 85.4 | 41.6 | 155 | 139.3 | 67.9 | 215 | 193.2 | 94.2 | 275 | 247.2 | 120.6 | 335 | 301.1 | 146.9 | 395 | 355.0 | 173.2 | 455 | 409.0 | 199.5 |
| 36 | 32.4 | 15.8 | 96 | 86.3 | 42.1 | 156 | 140.2 | 68.4 | 216 | 194.1 | 94.7 | 276 | 248.1 | 121.0 | 336 | 302.0 | 147.3 | 396 | 355.9 | 173.6 | 456 | 409.9 | 199.9 |
| 37 | 33.3 | 16.2 | 97 | 87.2 | 42.5 | 157 | 141.1 | 68.8 | 217 | 195.0 | 95.1 | 277 | 249.0 | 121.4 | 337 | 302.9 | 147.7 | 397 | 356.8 | 174.0 | 457 | 410.8 | 200.3 |
| 38 | 34.2 | 16.7 | 98 | 88.1 | 43.0 | 158 | 142.0 | 69.3 | 218 | 195.9 | 95.6 | 278 | 249.9 | 121.9 | 338 | 303.8 | 148.2 | 398 | 357.7 | 174.5 | 458 | 411.7 | 200.8 |
| 39 | 35.1 | 17.1 | 99 | 89.0 | 43.4 | 159 | 142.9 | 69.7 | 219 | 196.8 | 96.0 | 279 | 250.8 | 122.3 | 339 | 304.7 | 148.6 | 399 | 358.6 | 174.9 | 459 | 412.6 | 201.2 |
| 40 | 36.0 | 17.5 | 100 | 89.9 | 43.8 | 160 | 143.8 | 70.1 | 220 | 197.7 | 96.4 | 280 | 251.7 | 122.7 | 340 | 305.6 | 149.0 | 400 | 359.5 | 175.4 | 460 | 413.5 | 201.7 |
| 41 | 36.9 | 18.0 | 101 | 90.8 | 44.3 | 161 | 144.7 | 70.6 | 221 | 198.6 | 96.9 | 281 | 252.6 | 123.2 | 341 | 306.5 | 149.5 | 401 | 360.4 | 175.8 | 461 | 414.4 | 202.1 |
| 42 | 37.7 | 18.4 | 102 | 91.7 | 44.7 | 162 | 145.6 | 71.0 | 222 | 199.5 | 97.3 | 282 | 253.5 | 123.6 | 342 | 307.4 | 149.9 | 402 | 361.3 | 176.2 | 462 | 415.2 | 202.5 |
| 43 | 38.6 | 18.8 | 103 | 92.6 | 45.2 | 163 | 146.5 | 71.5 | 223 | 200.4 | 97.8 | 283 | 254.4 | 124.1 | 343 | 308.3 | 150.4 | 403 | 362.2 | 176.7 | 463 | 416.2 | 203.0 |
| 44 | 39.5 | 19.3 | 104 | 93.5 | 45.6 | 164 | 147.4 | 71.9 | 224 | 201.3 | 98.2 | 284 | 255.3 | 124.5 | 344 | 309.2 | 150.8 | 404 | 363.1 | 177.1 | 464 | 417.0 | 203.4 |
| 45 | 40.4 | 19.7 | 105 | 94.4 | 46.0 | 165 | 148.3 | 72.3 | 225 | 202.2 | 98.6 | 285 | 256.2 | 124.9 | 345 | 310.1 | 151.2 | 405 | 364.0 | 177.5 | 465 | 417.9 | 203.8 |
| 46 | 41.3 | 20.2 | 106 | 95.3 | 46.5 | 166 | 149.2 | 72.8 | 226 | 203.1 | 99.1 | 286 | 257.1 | 125.4 | 346 | 311.0 | 151.7 | 406 | 364.9 | 178.0 | 466 | 418.8 | 204.3 |
| 47 | 42.2 | 20.6 | 107 | 96.2 | 46.9 | 167 | 150.1 | 73.2 | 227 | 204.0 | 99.5 | 287 | 258.0 | 125.8 | 347 | 311.9 | 152.1 | 407 | 365.8 | 178.4 | 467 | 419.7 | 204.7 |
| 48 | 43.1 | 21.0 | 108 | 97.1 | 47.3 | 168 | 151.0 | 73.6 | 228 | 204.9 | 99.9 | 288 | 258.9 | 126.3 | 348 | 312.8 | 152.6 | 408 | 366.7 | 178.9 | 468 | 420.6 | 205.2 |
| 49 | 44.0 | 21.5 | 109 | 98.0 | 47.8 | 169 | 151.9 | 74.1 | 229 | 205.8 | 100.4 | 289 | 259.8 | 126.7 | 349 | 313.7 | 153.0 | 409 | 367.6 | 179.3 | 469 | 421.6 | 205.6 |
| 50 | 44.9 | 21.9 | 110 | 98.9 | 48.2 | 170 | 152.8 | 74.5 | 230 | 206.7 | 100.8 | 290 | 260.7 | 127.1 | 350 | 314.6 | 153.4 | 410 | 368.5 | 179.7 | 470 | 422.4 | 206.0 |
| 51 | 45.8 | 22.4 | 111 | 99.8 | 48.7 | 171 | 153.7 | 75.0 | 231 | 207.6 | 101.3 | 291 | 261.5 | 127.6 | 351 | 315.5 | 153.9 | 411 | 369.4 | 180.2 | 471 | 423.3 | 206.5 |
| 52 | 46.7 | 22.8 | 112 | 100.7 | 49.1 | 172 | 154.6 | 75.4 | 232 | 208.5 | 101.7 | 292 | 262.4 | 128.0 | 352 | 316.4 | 154.3 | 412 | 370.3 | 180.6 | 472 | 424.2 | 206.9 |
| 53 | 47.6 | 23.2 | 113 | 101.6 | 49.6 | 173 | 155.5 | 75.8 | 233 | 209.4 | 102.1 | 293 | 263.3 | 128.4 | 353 | 317.3 | 154.7 | 413 | 371.2 | 181.1 | 473 | 425.1 | 207.3 |
| 54 | 48.5 | 23.7 | 114 | 102.5 | 50.0 | 174 | 156.4 | 76.3 | 234 | 210.3 | 102.6 | 294 | 264.2 | 128.9 | 354 | 318.2 | 155.2 | 414 | 372.1 | 181.6 | 474 | 426.0 | 207.8 |
| 55 | 49.4 | 24.1 | 115 | 103.4 | 50.4 | 175 | 157.3 | 76.7 | 235 | 211.2 | 103.0 | 295 | 265.1 | 129.3 | 355 | 319.1 | 155.6 | 415 | 373.0 | 181.9 | 475 | 426.9 | 208.2 |
| 56 | 50.3 | 24.5 | 116 | 104.3 | 50.9 | 176 | 158.2 | 77.2 | 236 | 212.2 | 103.5 | 296 | 266.0 | 129.8 | 356 | 320.0 | 156.1 | 416 | 373.9 | 182.4 | 476 | 427.8 | 208.7 |
| 57 | 51.2 | 25.0 | 117 | 105.2 | 51.3 | 177 | 159.1 | 77.6 | 237 | 213.0 | 103.9 | 297 | 266.9 | 130.2 | 357 | 320.9 | 156.5 | 417 | 374.8 | 182.8 | 477 | 428.7 | 209.1 |
| 58 | 52.1 | 25.4 | 118 | 106.1 | 51.7 | 178 | 160.0 | 78.0 | 238 | 213.9 | 104.3 | 298 | 267.8 | 130.6 | 358 | 321.8 | 156.9 | 418 | 375.7 | 183.2 | 478 | 429.6 | 209.5 |
| 59 | 53.0 | 25.9 | 119 | 107.0 | 52.2 | 179 | 160.9 | 78.5 | 239 | 214.8 | 104.8 | 299 | 268.7 | 131.1 | 359 | 322.7 | 157.4 | 419 | 376.6 | 183.7 | 479 | 430.5 | 210.0 |
| 60 | 53.9 | 26.3 | 120 | 107.9 | 52.6 | 180 | 161.8 | 78.9 | 240 | 215.7 | 105.2 | 300 | 269.6 | 131.5 | 360 | 323.6 | 157.8 | 420 | 377.5 | 184.1 | 480 | 431.4 | 210.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 16.ᵐ Para 64 grados. 7.ʰ 44.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.ʰ 48.ᵐ — Para 27 grados. — 10.ʰ 12.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.6 | 08.5 | 61 | 54.4 | 27.7 | 121 | 107.8 | 04.9 | 181 | 161.5 | 82.2 | 241 | 214.7 | 109.4 | 301 | 266.2 | 150.7 | 301 | 521.7 | 163.6 | 421 | 376.1 | 191.1 |
| 2 | 61.8 | 68.6 | 62 | 55.2 | 26.1 | 122 | 108.7 | 55.4 | 162 | 162.2 | 82.6 | 242 | 216.6 | 102.2 | 302 | 269.1 | 137.1 | 302 | 522.5 | 164.4 | 422 | 376.6 | 161.6 |
| 3 | 02.7 | 01.4 | 63 | 56.1 | 26.6 | 123 | 109.6 | 55.8 | 183 | 165.1 | 83.1 | 245 | 216.5 | 110.3 | 383 | 270.0 | 137.6 | 303 | 323.4 | 164.0 | 423 | 576.6 | 192.0 |
| 4 | 63.6 | 01.6 | 64 | 57.8 | 26.1 | 124 | 110.6 | 56.3 | 184 | 163.2 | 63.5 | 244 | 217.4 | 110.8 | 384 | 278.6 | 130.0 | 364 | 324.3 | 163.3 | 424 | 377.8 | 162.5 |
| 5 | 04.5 | 02.3 | 65 | 57.2 | 29.5 | 125 | 111.4 | 56.7 | 185 | 164.8 | 64.8 | 243 | 216.3 | 111.2 | 385 | 271.6 | 138.5 | 365 | 325.2 | 165.7 | 425 | 378.7 | 193.0 |
| 6 | 85.3 | 82.7 | 66 | 56.6 | 30.0 | 126 | 112.3 | 57.2 | 186 | 165.7 | 84.4 | 216 | 219.2 | 111.7 | 300 | 272.7 | 138.9 | 366 | 326.1 | 166.2 | 426 | 376.6 | 193.4 |
| 7 | 86.2 | 03.2 | 67 | 52.7 | 30.4 | 127 | 113.2 | 57.7 | 187 | 166.6 | 84.9 | 247 | 220.1 | 112.1 | 307 | 273.5 | 139.4 | 367 | 327.0 | 166.6 | 427 | 580.6 | 193.9 |
| 8 | 87.1 | 03.6 | 68 | 60.6 | 30.2 | 128 | 114.6 | 68.1 | 188 | 167.6 | 85.4 | 248 | 221.6 | 112.6 | 308 | 274.4 | 132.8 | 368 | 327.9 | 167.1 | 420 | 381.4 | 194.3 |
| 9 | 08.6 | 04.1 | 62 | 61.5 | 31.2 | 129 | 114.6 | 50.6 | 182 | 165.4 | 65.5 | 242 | 221.2 | 113.0 | 302 | 275.3 | 140.5 | 369 | 328.0 | 167.5 | 422 | 382.2 | 194.6 |
| 10 | 08.9 | 84.5 | 70 | 62.4 | 31.8 | 130 | 115.6 | 56.6 | 120 | 162.3 | 66.3 | 250 | 222.8 | 113.5 | 310 | 276.2 | 140.7 | 370 | 329.7 | 166.0 | 430 | 383.1 | 125.2 |
| 11 | 09.8 | 85.0 | 71 | 63.3 | 32.2 | 131 | 116.7 | 52.5 | 121 | 170.2 | 86.7 | 251 | 223.6 | 114.0 | 311 | 277.1 | 141.2 | 371 | 350.6 | 168.4 | 431 | 384.6 | 195.7 |
| 12 | 16.7 | 85.4 | 72 | 64.2 | 32.7 | 132 | 117.6 | 56.2 | 162 | 171.1 | 67.2 | 252 | 224.5 | 114.4 | 312 | 278.6 | 111.7 | 372 | 331.5 | 108.2 | 132 | 384.2 | 196.1 |
| 13 | 11.6 | 85.2 | 73 | 65.0 | 33.1 | 133 | 116.6 | 60.4 | 195 | 172.6 | 67.6 | 253 | 225.4 | 114.6 | 313 | 278.6 | 142.1 | 373 | 332.3 | 166.3 | 433 | 385.8 | 196.6 |
| 14 | 12.5 | 00.4 | 74 | 65.2 | 33.0 | 134 | 116.4 | 60.0 | 124 | 172.6 | 80.1 | 254 | 226.3 | 116.3 | 314 | 276.6 | 142.6 | 374 | 355.2 | 166.8 | 434 | 386.7 | 167.0 |
| 15 | 13.4 | 06.8 | 75 | 66.8 | 34.0 | 135 | 128.3 | 61.3 | 125 | 173.7 | 60.5 | 258 | 227.2 | 116.8 | 315 | 280.7 | 143.0 | 375 | 334.1 | 170.3 | 435 | 387.6 | 197.6 |
| 16 | 14.3 | 87.3 | 76 | 67.7 | 34.5 | 136 | 121.2 | 61.7 | 126 | 174.6 | 82.0 | 256 | 220.1 | 116.2 | 516 | 281.6 | 143.5 | 376 | 555.0 | 170.7 | 436 | 368.5 | 197.9 |
| 17 | 15.1 | 67.7 | 77 | 66.6 | 35.0 | 137 | 122.1 | 62.2 | 127 | 175.6 | 82.4 | 257 | 222.8 | 116.7 | 317 | 282.5 | 143.9 | 177 | 335.9 | 171.2 | 437 | 386.4 | 126.4 |
| 18 | 10.0 | 88.2 | 78 | 62.5 | 35.4 | 138 | 123.0 | 62.7 | 198 | 176.4 | 66.2 | 258 | 222.9 | 117.1 | 318 | 283.3 | 144.4 | 378 | 356.8 | 171.6 | 438 | 590.3 | 166.6 |
| 12 | 16.6 | 08.6 | 72 | 70.4 | 35.6 | 139 | 123.6 | 63.1 | 122 | 177.3 | 90.5 | 259 | 230.0 | 117.6 | 319 | 284.2 | 144.8 | 376 | 337.7 | 172.1 | 439 | 391.2 | 166.3 |
| 20 | 17.8 | 89.1 | 50 | 71.3 | 36.5 | 140 | 124.7 | 63.6 | 200 | 178.2 | 90.8 | 260 | 231.7 | 118.0 | 320 | 286.1 | 145.3 | 380 | 358.6 | 172.5 | 440 | 392.8 | 196.8 |
| 21 | 18.7 | 02.5 | 81 | 72.2 | 36.8 | 141 | 125.6 | 64.0 | 201 | 179.1 | 91.3 | 261 | 232.6 | 118.5 | 321 | 286.0 | 145.7 | 581 | 332.5 | 173.0 | 441 | 392.9 | 288.2 |
| 22 | 16.6 | 16.8 | 82 | 73.1 | 37.2 | 142 | 126.5 | 64.5 | 202 | 180.0 | 91.7 | 262 | 233.4 | 116.9 | 322 | 286.6 | 146.2 | 382 | 340.4 | 173.4 | 142 | 593.8 | 288.7 |
| 23 | 28.5 | 10.4 | 83 | 74.8 | 37.7 | 143 | 127.4 | 64.9 | 205 | 180.2 | 92.2 | 263 | 234.3 | 119.4 | 323 | 287.0 | 140.6 | 383 | 341.3 | 173.9 | 443 | 394.7 | 201.1 |
| 24 | 21.4 | 10.6 | 84 | 74.8 | 38.1 | 144 | 126.3 | 65.4 | 204 | 181.6 | 92.6 | 264 | 236.2 | 119.9 | 324 | 288.7 | 147.1 | 384 | 342.1 | 174.5 | 441 | 395.6 | 281.0 |
| 25 | 22.3 | 11.3 | 85 | 75.7 | 38.6 | 145 | 129.2 | 65.5 | 205 | 182.7 | 63.1 | 265 | 236.1 | 126.3 | 325 | 289.6 | 147.6 | 385 | 343.0 | 174.8 | 145 | 396.5 | 202.0 |
| 26 | 23.2 | 11.8 | 86 | 76.6 | 56.0 | 146 | 138.1 | 66.3 | 206 | 183.6 | 23.5 | 266 | 237.0 | 120.8 | 326 | 296.5 | 140.0 | 306 | 343.9 | 175.2 | 146 | 397.4 | 282.6 |
| 27 | 24.1 | 12.2 | 87 | 77.6 | 39.5 | 147 | 131.6 | 66.7 | 207 | 184.4 | 94.0 | 267 | 237.9 | 121.2 | 527 | 221.4 | 140.5 | 387 | 344.0 | 175.7 | 447 | 598.3 | 202.6 |
| 28 | 24.9 | 12.7 | 88 | 78.4 | 40.0 | 146 | 131.9 | 67.2 | 208 | 185.6 | 94.4 | 266 | 238.8 | 121.7 | 320 | 222.3 | 148.9 | 388 | 345.7 | 176.2 | 448 | 399.2 | 203.4 |
| 22 | 25.6 | 13.2 | 89 | 79.3 | 40.4 | 142 | 132.5 | 67.6 | 202 | 186.2 | 91.9 | 262 | 236.7 | 122.1 | 322 | 293.2 | 149.4 | 589 | 346.6 | 176.6 | 442 | 400.1 | 203.8 |
| 30 | 26.7 | 13.6 | 90 | 80.2 | 48.9 | 150 | 133.7 | 68.1 | 210 | 187.1 | 95.3 | 270 | 248.6 | 122.6 | 330 | 224.0 | 146.8 | 390 | 347.5 | 177.1 | 450 | 401.8 | 294.3 |
| 31 | 27.6 | 14.1 | 91 | 81.1 | 41.3 | 151 | 134.5 | 68.0 | 211 | 188.6 | 95.8 | 271 | 241.5 | 123.0 | 351 | 294.9 | 150.5 | 321 | 318.4 | 177.5 | 451 | 401.8 | 284.7 |
| 32 | 28.5 | 14.6 | 92 | 82.6 | 41.8 | 152 | 155.4 | 06.0 | 212 | 188.9 | 96.2 | 272 | 242.4 | 123.5 | 332 | 295.6 | 160.7 | 322 | 349.3 | 178.0 | 452 | 402.7 | 285.2 |
| 33 | 29.4 | 15.0 | 93 | 82.2 | 42.2 | 153 | 136.3 | 62.5 | 213 | 189.6 | 96.7 | 273 | 243.2 | 123.2 | 333 | 296.7 | 151.2 | 393 | 358.2 | 176.4 | 453 | 403.6 | 285.7 |
| 34 | 38.3 | 15.4 | 94 | 83.8 | 42.7 | 154 | 137.2 | 69.9 | 214 | 128.7 | 97.2 | 274 | 214.1 | 124.4 | 334 | 297.6 | 151.6 | 324 | 351.1 | 178.9 | 154 | 404.5 | 206.1 |
| 35 | 31.2 | 15.9 | 25 | 84.6 | 43.1 | 155 | 138.1 | 78.4 | 215 | 191.6 | 97.6 | 276 | 245.8 | 124.8 | 355 | 298.5 | 152.1 | 395 | 352.0 | 179.3 | 455 | 405.4 | 200.6 |
| 36 | 32.1 | 16.3 | 96 | 85.6 | 43.6 | 156 | 139.0 | 70.0 | 216 | 192.6 | 98.1 | 276 | 245.9 | 125.3 | 336 | 296.4 | 152.6 | 396 | 352.8 | 172.8 | 456 | 406.3 | 207.0 |
| 37 | 33.0 | 16.8 | 27 | 80.4 | 44.0 | 157 | 139.9 | 71.3 | 217 | 193.3 | 98.5 | 277 | 246.8 | 125.8 | 337 | 306.3 | 153.0 | 397 | 353.7 | 180.2 | 457 | 407.2 | 207.5 |
| 38 | 33.9 | 17.3 | 98 | 87.3 | 44.5 | 158 | 148.6 | 71.7 | 218 | 194.2 | 69.0 | 278 | 247.7 | 126.2 | 338 | 381.2 | 153.5 | 398 | 354.6 | 180.7 | 458 | 408.1 | 287.6 |
| 39 | 34.7 | 17.7 | 92 | 68.2 | 44.9 | 159 | 141.7 | 72.2 | 212 | 195.1 | 99.4 | 279 | 248.6 | 126.7 | 332 | 382.1 | 153.9 | 326 | 355.6 | 181.2 | 452 | 409.0 | 206.4 |
| 40 | 35.6 | 18.2 | 100 | 89.1 | 45.4 | 160 | 142.6 | 72.6 | 220 | 196.6 | 96.9 | 280 | 249.5 | 127.1 | 340 | 382.9 | 154.4 | 400 | 356.4 | 181.6 | 460 | 489.9 | 208.0 |
| 41 | 36.5 | 18.6 | 101 | 90.8 | 45.9 | 161 | 143.5 | 73.1 | 221 | 190.6 | 100.3 | 281 | 256.4 | 127.6 | 341 | 303.8 | 154.8 | 401 | 357.3 | 182.1 | 161 | 418.8 | 209.3 |
| 42 | 37.4 | 12.1 | 102 | 96.9 | 46.3 | 162 | 144.3 | 73.6 | 222 | 197.6 | 180.8 | 282 | 251.3 | 126.0 | 342 | 304.7 | 155.3 | 402 | 358.2 | 182.5 | 462 | 411.6 | 209.0 |
| 43 | 38.3 | 16.5 | 103 | 91.8 | 46.8 | 163 | 145.2 | 74.0 | 225 | 198.7 | 101.2 | 283 | 252.2 | 128.5 | 343 | 506.6 | 155.7 | 483 | 359.1 | 103.0 | 163 | 412.5 | 216.2 |
| 44 | 39.2 | 20.8 | 104 | 92.7 | 47.2 | 164 | 146.1 | 74.5 | 224 | 199.6 | 101.7 | 284 | 253.0 | 128.9 | 344 | 306.6 | 156.2 | 404 | 360.0 | 183.4 | 464 | 413.4 | 218.7 |
| 45 | 40.1 | 20.4 | 105 | 93.6 | 47.7 | 165 | 147.6 | 74.2 | 225 | 208.6 | 182.1 | 285 | 253.9 | 129.4 | 345 | 387.4 | 156.6 | 405 | 360.9 | 183.2 | 465 | 414.3 | 211.1 |
| 46 | 41.8 | 20.9 | 106 | 94.4 | 46.1 | 166 | 147.9 | 76.4 | 226 | 201.4 | 102.6 | 280 | 254.8 | 126.8 | 346 | 388.3 | 157.1 | 406 | 361.8 | 184.3 | 466 | 416.2 | 211.6 |
| 47 | 41.9 | 21.3 | 107 | 95.3 | 48.6 | 167 | 146.8 | 75.8 | 227 | 202.3 | 103.1 | 287 | 255.7 | 130.3 | 347 | 509.2 | 167.5 | 187 | 362.6 | 184.8 | 467 | 416.1 | 212.6 |
| 48 | 42.6 | 21.8 | 108 | 96.2 | 42.8 | 168 | 146.7 | 76.3 | 226 | 203.1 | 103.5 | 288 | 256.6 | 136.7 | 348 | 316.1 | 158.0 | 408 | 363.6 | 185.2 | 468 | 417.8 | 212.5 |
| 49 | 43.7 | 22.2 | 109 | 67.1 | 49.6 | 162 | 158.6 | 76.7 | 229 | 204.6 | 104.0 | 282 | 257.5 | 131.2 | 342 | 311.6 | 158.5 | 409 | 364.4 | 185.7 | 462 | 417.9 | 212.9 |
| 60 | 44.6 | 22.7 | 118 | 90.8 | 49.9 | 170 | 161.5 | 77.2 | 238 | 204.6 | 104.4 | 290 | 258.4 | 131.7 | 350 | 311.9 | 158.9 | 110 | 365.3 | 186.1 | 470 | 418.8 | 213.4 |
| 51 | 45.4 | 23.2 | 111 | 98.6 | 50.4 | 171 | 152.4 | 77.6 | 231 | 205.6 | 104.2 | 221 | 259.3 | 152.1 | 551 | 312.7 | 159.4 | 411 | 366.2 | 186.6 | 171 | 419.7 | 213.8 |
| 52 | 46.3 | 23.6 | 112 | 99.8 | 68.8 | 172 | 153.3 | 76.1 | 232 | 286.7 | 105.3 | 222 | 268.2 | 132.6 | 552 | 313.6 | 159.8 | 412 | 367.1 | 187.1 | 472 | 428.6 | 214.3 |
| 65 | 47.2 | 24.1 | 113 | 100.7 | 51.3 | 173 | 154.1 | 76.5 | 233 | 207.6 | 105.8 | 293 | 261.1 | 133.0 | 555 | 314.5 | 160.5 | 413 | 360.8 | 187.5 | 475 | 421.4 | 214.7 |
| 54 | 48.1 | 24.5 | 114 | 101.6 | 51.8 | 174 | 155.0 | 79.0 | 234 | 206.6 | 106.2 | 294 | 262.0 | 133.5 | 354 | 316.4 | 160.7 | 414 | 368.6 | 180.0 | 474 | 422.3 | 216.2 |
| 55 | 42.8 | 25.0 | 115 | 182.5 | 52.2 | 175 | 155.6 | 79.4 | 235 | 269.4 | 106.7 | 296 | 262.8 | 133.9 | 355 | 316.3 | 161.2 | 415 | 362.8 | 188.4 | 475 | 423.2 | 216.7 |
| 56 | 46.9 | 25.4 | 116 | 105.4 | 52.7 | 176 | 156.8 | 72.9 | 236 | 216.3 | 107.1 | 296 | 263.7 | 134.4 | 356 | 317.2 | 161.6 | 416 | 376.7 | 180.9 | 476 | 424.1 | 216.1 |
| 67 | 60.8 | 25.9 | 117 | 184.2 | 63.1 | 177 | 157.7 | 80.4 | 237 | 211.2 | 107.6 | 297 | 264.6 | 134.8 | 357 | 316.1 | 162.1 | 417 | 371.6 | 189.3 | 477 | 425.0 | 216.6 |
| 58 | 51.7 | 26.5 | 118 | 105.1 | 65.6 | 178 | 158.6 | 88.8 | 238 | 212.1 | 186.0 | 298 | 265.5 | 136.3 | 358 | 316.6 | 162.5 | 418 | 372.4 | 189.8 | 478 | 425.9 | 217.6 |
| 69 | 62.6 | 26.6 | 119 | 186.8 | 54.0 | 172 | 159.6 | 81.3 | 236 | 213.6 | 188.6 | 299 | 266.4 | 135.7 | 359 | 519.9 | 163.0 | 419 | 373.3 | 190.2 | 479 | 426.8 | 217.6 |
| 68 | 63.5 | 27.2 | 128 | 166.6 | 54.5 | 188 | 160.4 | 81.7 | 246 | 213.6 | 106.8 | 386 | 267.3 | 136.2 | 360 | 328.8 | 163.4 | 428 | 374.2 | 190.7 | 488 | 427.7 | 217.9 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 12.ᵐ — Para 63 grados. — 7.ʰ 48.ᵐ

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

1.ʰ 52.ᵐ — Para 28 grados. — 10.ʰ 8.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.6 | 00.5 | 61 | 63.6 | 28.6 | 121 | 106.8 | 66.8 | 181 | 159.8 | 65.0 | 241 | 212.6 | 113.1 | 301 | 265.7 | 141.3 | 361 | 318.7 | 169.5 | 421 | 371.7 | 197.7 |
| 2 | 01.8 | 00.9 | 62 | 34.7 | 29.1 | 122 | 107.7 | 57.3 | 182 | 160.7 | 50.4 | 242 | 213.7 | 113.0 | 302 | 266.6 | 141.8 | 352 | 319.6 | 170.0 | 422 | 372.5 | 196.1 |
| 3 | 82.6 | 51.4 | 63 | 55.6 | 29.6 | 123 | 108.6 | 57.7 | 183 | 161.6 | 83.9 | 243 | 214.6 | 114.1 | 303 | 267.5 | 142.3 | 363 | 320.5 | 170.4 | 423 | 373.5 | 198.6 |
| 4 | 03.5 | 01.9 | 64 | 56.5 | 38.0 | 124 | 109.5 | 58.2 | 184 | 162.5 | 86.4 | 244 | 215.4 | 114.6 | 304 | 268.4 | 142.7 | 364 | 321.4 | 170.9 | 124 | 374.3 | 199.1 |
| 6 | 04.4 | 02.3 | 65 | 57.4 | 30.5 | 125 | 110.4 | 58.7 | 185 | 163.3 | 86.9 | 215 | 216.3 | 115.0 | 305 | 256.3 | 143.2 | 365 | 322.2 | 171.4 | 125 | 375.2 | 199.5 |
| 6 | 05.3 | 02.8 | 66 | 58.3 | 31.0 | 126 | 111.3 | 59.2 | 186 | 161.2 | 87.3 | 246 | 217.2 | 115.5 | 385 | 270.2 | 143.7 | 366 | 323.1 | 171.8 | 426 | 375.1 | 200.0 |
| 7 | 06.6 | 03.3 | 57 | 59.2 | 31.3 | 127 | 112.1 | 59.6 | 187 | 165.1 | 87.8 | 217 | 218.1 | 116.0 | 307 | 271.0 | 144.1 | 367 | 324.0 | 172.3 | 427 | 377.0 | 200.5 |
| 6 | 07.1 | 03.8 | 68 | 60.0 | 31.9 | 128 | 113.0 | 60.1 | 188 | 166.0 | 88.3 | 248 | 219.5 | 115.4 | 308 | 271.9 | 144.5 | 368 | 324.9 | 172.8 | 428 | 377.9 | 200.9 |
| 9 | 07.9 | 04.2 | 59 | 60.9 | 32.4 | 129 | 115.9 | 68.6 | 189 | 166.6 | 88.7 | 249 | 216.9 | 116.9 | 309 | 272.8 | 145.1 | 362 | 323.5 | 173.2 | 129 | 378.8 | 281.4 |
| 10 | 08.8 | 04.7 | 70 | 61.8 | 32.9 | 130 | 114.8 | 61.0 | 190 | 167.8 | 89.2 | 250 | 220.7 | 117.4 | 310 | 273.7 | 145.5 | 370 | 326.7 | 173.7 | 430 | 379.6 | 201.9 |
| 11 | 09.7 | 05.2 | 71 | 62.7 | 33.3 | 131 | 115.7 | 51.5 | 191 | 168.6 | 89.7 | 251 | 221.6 | 117.8 | 311 | 274.6 | 146.0 | 371 | 327.5 | 174.2 | 431 | 380.3 | 202.3 |
| 12 | 10.6 | 05.6 | 72 | 53.6 | 33.8 | 132 | 115.5 | 62.0 | 192 | 169.3 | 90.1 | 252 | 222.5 | 118.3 | 312 | 275.5 | 145.5 | 372 | 320.4 | 174.6 | 132 | 381.4 | 202.0 |
| 13 | 11.5 | 06.1 | 73 | 64.5 | 31.3 | 133 | 117.4 | 62.4 | 193 | 170.4 | 90.6 | 253 | 223.4 | 118.8 | 313 | 276.3 | 140.9 | 373 | 329.3 | 173.1 | 433 | 382.3 | 203.3 |
| 14 | 12.4 | 06.6 | 74 | 65.3 | 34.7 | 134 | 118.3 | 62.9 | 124 | 171.5 | 91.1 | 254 | 224.3 | 119.2 | 314 | 277.2 | 147.4 | 374 | 330.2 | 175.6 | 434 | 383.2 | 203.8 |
| 15 | 13.2 | 07.0 | 75 | 66.2 | 33.2 | 135 | 119.2 | 63.4 | 195 | 172.2 | 91.5 | 255 | 225.2 | 119.7 | 313 | 278.1 | 147.9 | 375 | 331.1 | 176.1 | 435 | 384.1 | 204.2 |
| 16 | 14.1 | 07.5 | 76 | 67.1 | 35.7 | 136 | 120.1 | 53.8 | 196 | 173.1 | 92.0 | 255 | 225.0 | 120.2 | 310 | 279.0 | 140.4 | 370 | 332.0 | 175.5 | 436 | 384.9 | 204.7 |
| 17 | 15.0 | 08.0 | 77 | 68.5 | 36.1 | 137 | 121.0 | 64.3 | 167 | 173.9 | 92.5 | 237 | 226.9 | 128.7 | 317 | 279.9 | 148.8 | 377 | 332.8 | 177.0 | 137 | 385.6 | 205.2 |
| 18 | 15.9 | 08.5 | 78 | 58.9 | 36.6 | 138 | 121.8 | 64.8 | 198 | 174.8 | 93.0 | 258 | 227.8 | 121.1 | 318 | 280.7 | 149.3 | 378 | 333.7 | 177.5 | 438 | 385.7 | 205.6 |
| 19 | 16.8 | 08.9 | 76 | 69.8 | 37.1 | 139 | 122.7 | 65.3 | 199 | 173.7 | 23.4 | 259 | 228.7 | 121.6 | 319 | 281.6 | 149.8 | 379 | 334.6 | 177.9 | 439 | 387.6 | 206.1 |
| 20 | 17.7 | 09.4 | 80 | 70.6 | 37.6 | 140 | 123.6 | 65.7 | 200 | 176.6 | 93.9 | 260 | 229.6 | 122.1 | 320 | 282.5 | 150.2 | 380 | 333.5 | 178.4 | 440 | 368.5 | 206.6 |
| 21 | 18.3 | 09.9 | 81 | 71.5 | 38.0 | 141 | 124.5 | 66.2 | 201 | 177.5 | 94.4 | 261 | 230.4 | 122.5 | 321 | 283.4 | 150.7 | 381 | 336.4 | 178.9 | 141 | 389.4 | 207.0 |
| 22 | 16.4 | 10.3 | 82 | 72.4 | 38.5 | 142 | 125.4 | 56.7 | 202 | 178.4 | 94.8 | 252 | 231.3 | 123.0 | 322 | 284.3 | 151.2 | 382 | 337.3 | 176.3 | 442 | 360.2 | 207.5 |
| 63 | 20.3 | 10.8 | 83 | 73.3 | 39.0 | 143 | 126.3 | 67.1 | 203 | 179.2 | 95.3 | 263 | 232.2 | 123.5 | 323 | 285.2 | 151.6 | 383 | 338.1 | 176.8 | 413 | 391.1 | 208.0 |
| 24 | 21.2 | 11.3 | 84 | 74.2 | 39.4 | 144 | 127.1 | 67.6 | 204 | 180.1 | 95.8 | 264 | 233.1 | 123.9 | 324 | 286.0 | 152.1 | 381 | 339.0 | 180.3 | 144 | 392.0 | 208.4 |
| 25 | 22.1 | 11.7 | 85 | 73.1 | 39.9 | 143 | 128.0 | 68.1 | 205 | 181.0 | 96.2 | 265 | 234.0 | 124.4 | 325 | 286.9 | 152.6 | 385 | 339.2 | 180.8 | 445 | 392.9 | 208.2 |
| 25 | 23.0 | 12.2 | 85 | 75.6 | 40.4 | 146 | 128.9 | 68.5 | 206 | 181.9 | 96.7 | 266 | 234.9 | 124.9 | 326 | 287.5 | 133.1 | 386 | 340.0 | 181.2 | 446 | 393.8 | 209.4 |
| 27 | 23.8 | 12.7 | 87 | 76.6 | 40.8 | 147 | 129.8 | 62.0 | 207 | 182.8 | 97.2 | 267 | 235.7 | 125.3 | 327 | 288.7 | 153.5 | 387 | 341.7 | 101.7 | 447 | 394.6 | 209.9 |
| 28 | 24.7 | 13.1 | 88 | 77.7 | 41.3 | 148 | 130.7 | 69.5 | 208 | 183.7 | 97.7 | 268 | 236.6 | 123.8 | 328 | 289.6 | 134.0 | 388 | 342.6 | 182.2 | 448 | 395.5 | 210.3 |
| 29 | 25.6 | 13.6 | 82 | 78.6 | 41.8 | 149 | 131.6 | 70.0 | 209 | 164.5 | 98.1 | 269 | 237.5 | 126.3 | 329 | 290.0 | 154.5 | 389 | 343.4 | 152.6 | 142 | 325.4 | 210.8 |
| 30 | 26.5 | 14.1 | 90 | 79.5 | 42.3 | 150 | 132.4 | 70.4 | 210 | 185.4 | 98.6 | 270 | 238.4 | 126.8 | 330 | 291.3 | 104.9 | 390 | 341.3 | 183.1 | 450 | 327.3 | 211.3 |
| 31 | 27.4 | 14.6 | 91 | 80.3 | 42.7 | 151 | 133.3 | 70.9 | 211 | 186.3 | 99.1 | 271 | 239.3 | 127.2 | 331 | 292.2 | 155.4 | 391 | 345.2 | 183.6 | 451 | 398.2 | 211.7 |
| 32 | 28.3 | 15.0 | 92 | 01.2 | 43.2 | 152 | 134.2 | 71.4 | 212 | 167.2 | 99.6 | 272 | 240.2 | 127.7 | 332 | 223.1 | 163.9 | 392 | 346.1 | 104.0 | 452 | 329.1 | 212.2 |
| 33 | 26.1 | 15.5 | 93 | 82.1 | 43.7 | 153 | 135.1 | 71.0 | 213 | 188.1 | 100.0 | 273 | 241.0 | 126.2 | 333 | 224.0 | 106.3 | 393 | 347.0 | 184.5 | 155 | 399.9 | 212.7 |
| 34 | 30.5 | 16.0 | 94 | 83.0 | 44.1 | 154 | 136.0 | 72.3 | 214 | 189.0 | 100.3 | 274 | 241.6 | 128.6 | 334 | 224.6 | 156.0 | 391 | 347.9 | 185.0 | 454 | 409.8 | 213.1 |
| 33 | 30.6 | 16.4 | 95 | 83.9 | 44.6 | 155 | 135.9 | 72.8 | 213 | 189.8 | 100.9 | 275 | 242.8 | 129.1 | 335 | 295.8 | 157.3 | 395 | 348.7 | 185.4 | 455 | 401.7 | 213.6 |
| 36 | 31.5 | 15.9 | 96 | 84.8 | 43.1 | 156 | 137.7 | 73.2 | 216 | 160.7 | 101.4 | 276 | 243.7 | 129.6 | 336 | 226.6 | 107.7 | 396 | 349.6 | 185.9 | 456 | 402.6 | 214.1 |
| 37 | 32.7 | 17.4 | 97 | 85.6 | 45.5 | 157 | 130.6 | 73.7 | 217 | 191.6 | 101.9 | 277 | 244.6 | 130.0 | 337 | 297.5 | 158.2 | 397 | 350.5 | 155.4 | 457 | 403.5 | 214.6 |
| 36 | 33.6 | 17.8 | 98 | 86.0 | 46.0 | 158 | 132.3 | 74.2 | 218 | 122.0 | 102.3 | 278 | 245.5 | 130.5 | 338 | 298.4 | 158.7 | 398 | 361.4 | 185.9 | 459 | 404.4 | 215.0 |
| 39 | 34.4 | 18.3 | 99 | 87.4 | 46.5 | 159 | 140.4 | 74.6 | 219 | 193.4 | 102.8 | 279 | 246.3 | 131.0 | 339 | 299.3 | 159.2 | 399 | 352.3 | 187.3 | 459 | 405.2 | 215.5 |
| 40 | 35.5 | 18.8 | 100 | 88.3 | 46.9 | 160 | 141.3 | 76.1 | 220 | 194.2 | 103.3 | 280 | 247.2 | 131.6 | 340 | 300.2 | 159.6 | 100 | 353.1 | 187.8 | 460 | 406.1 | 216.0 |
| 41 | 36.2 | 19.2 | 101 | 89.2 | 47.4 | 161 | 142.2 | 75.6 | 221 | 195.1 | 103.8 | 281 | 248.1 | 131.9 | 341 | 301.0 | 160.1 | 401 | 354.0 | 188.3 | 461 | 407.0 | 216.4 |
| 42 | 37.1 | 19.7 | 102 | 90.1 | 47.9 | 162 | 143.0 | 76.1 | 222 | 196.0 | 104.2 | 282 | 249.0 | 132.4 | 342 | 301.6 | 150.5 | 402 | 354.9 | 108.7 | 462 | 407.9 | 215.9 |
| 43 | 30.0 | 20.2 | 103 | 90.9 | 48.4 | 163 | 143.9 | 76.3 | 223 | 196.9 | 104.7 | 283 | 249.6 | 132.9 | 343 | 302.5 | 151.0 | 403 | 355.8 | 189.2 | 463 | 408.8 | 217.4 |
| 44 | 38.8 | 20.7 | 104 | 61.5 | 48.8 | 164 | 144.8 | 77.0 | 224 | 197.8 | 105.2 | 284 | 250.8 | 133.3 | 344 | 303.7 | 151.5 | 404 | 356.7 | 189.7 | 464 | 409.7 | 217.8 |
| 45 | 39.7 | 21.1 | 105 | 92.7 | 49.3 | 165 | 143.7 | 77.5 | 225 | 198.7 | 105.5 | 285 | 251.0 | 133.8 | 345 | 304.6 | 162.0 | 405 | 357.6 | 190.1 | 465 | 410.6 | 218.3 |
| 46 | 45.5 | 21.6 | 106 | 63.6 | 49.8 | 166 | 146.6 | 77.9 | 226 | 196.5 | 106.1 | 286 | 252.5 | 134.3 | 346 | 305.6 | 152.4 | 406 | 358.4 | 120.6 | 466 | 411.4 | 218.8 |
| 47 | 41.5 | 22.1 | 107 | 64.5 | 00.2 | 167 | 147.5 | 75.4 | 227 | 200.4 | 106.6 | 287 | 253.4 | 134.7 | 347 | 306.4 | 102.2 | 107 | 359.3 | 191.1 | 457 | 412.3 | 219.2 |
| 48 | 42.4 | 22.0 | 108 | 65.4 | 50.7 | 168 | 148.3 | 76.9 | 228 | 201.3 | 107.0 | 288 | 254.3 | 135.2 | 348 | 307.2 | 163.4 | 408 | 360.2 | 191.5 | 468 | 413.2 | 219.7 |
| 49 | 43.3 | 23.0 | 109 | 95.2 | 51.2 | 169 | 149.2 | 79.3 | 229 | 202.2 | 107.5 | 289 | 265.2 | 135.7 | 349 | 308.1 | 103.8 | 409 | 361.1 | 192.0 | 469 | 414.1 | 220.2 |
| 50 | 44.1 | 23.5 | 110 | 97.1 | 51.6 | 170 | 130.1 | 76.0 | 230 | 203.1 | 108.0 | 290 | 256.1 | 136.1 | 350 | 309.0 | 164.3 | 410 | 362.0 | 192.5 | 470 | 415.0 | 220.7 |
| 51 | 45.0 | 23.9 | 111 | 98.0 | 52.1 | 171 | 151.0 | 80.3 | 231 | 204.0 | 108.4 | 291 | 256.9 | 136.5 | 351 | 309.9 | 164.8 | 411 | 362.6 | 193.0 | 471 | 415.8 | 221.1 |
| 52 | 43.6 | 24.4 | 112 | 98.6 | 52.6 | 172 | 151.9 | 80.7 | 232 | 204.8 | 150.9 | 222 | 237.8 | 137.1 | 352 | 315.8 | 105.3 | 412 | 363.7 | 193.4 | 472 | 416.7 | 221.6 |
| 03 | 40.8 | 21.9 | 113 | 99.5 | 53.1 | 173 | 152.7 | 81.2 | 233 | 203.7 | 159.4 | 293 | 258.7 | 137.6 | 353 | 311.7 | 165.7 | 413 | 364.6 | 193.9 | 473 | 417.6 | 222.1 |
| 54 | 47.7 | 25.4 | 114 | 105.7 | 53.5 | 174 | 153.6 | 81.7 | 234 | 205.6 | 159.9 | 294 | 252.6 | 138.0 | 354 | 312.3 | 165.2 | 414 | 355.5 | 194.4 | 474 | 418.3 | 222.5 |
| 53 | 45.6 | 25.8 | 115 | 101.0 | 34.0 | 175 | 154.5 | 82.2 | 235 | 207.0 | 110.3 | 295 | 260.5 | 138.5 | 355 | 313.4 | 156.7 | 415 | 366.4 | 194.8 | 475 | 419.4 | 223.0 |
| 66 | 49.4 | 26.3 | 116 | 102.4 | 54.5 | 176 | 153.4 | 62.6 | 236 | 208.4 | 110.8 | 290 | 261.3 | 139.5 | 356 | 314.3 | 157.1 | 415 | 367.3 | 195.3 | 476 | 425.3 | 223.5 |
| 57 | 50.3 | 26.8 | 117 | 103.3 | 54.9 | 177 | 156.3 | 53.1 | 237 | 209.3 | 111.3 | 297 | 262.2 | 139.4 | 357 | 315.2 | 167.6 | 417 | 368.6 | 195.8 | 477 | 421.1 | 223.9 |
| 00 | 51.6 | 27.2 | 118 | 104.2 | 53.4 | 178 | 157.2 | 63.6 | 238 | 210.1 | 111.7 | 298 | 263.1 | 139.9 | 358 | 316.1 | 168.1 | 418 | 366.5 | 190.2 | 478 | 422.0 | 224.4 |
| 59 | 52.1 | 27.7 | 119 | 103.1 | 55.9 | 176 | 108.0 | 84.0 | 239 | 211.0 | 112.2 | 299 | 264.0 | 140.4 | 359 | 316.9 | 168.5 | 416 | 356.6 | 196.7 | 479 | 422.9 | 224.9 |
| 55 | 53.0 | 28.2 | 125 | 106.0 | 56.3 | 186 | 158.9 | 84.3 | 240 | 211.9 | 112.7 | 300 | 264.9 | 140.0 | 360 | 317.8 | 169.0 | 420 | 370.6 | 197.2 | 480 | 423.8 | 225.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.ʰ 8.ᵐ — Para 62 grados. — 7.ʰ 52.ᵐ

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

1.h 56.m — Para 29 grados. — 10.h 4.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.5 | 61 | 53.4 | 29.6 | 121 | 105.8 | 58.7 | 181 | 158.3 | 87.8 | 241 | 210.8 | 116.8 | 301 | 263.2 | 145.9 | 361 | 315.7 | 175.0 | 421 | 368.2 | 204.1 |
| 2 | 01.7 | 01.0 | 62 | 54.2 | 30.1 | 122 | 106.7 | 59.1 | 182 | 159.2 | 88.2 | 242 | 211.7 | 117.3 | 302 | 264.1 | 146.4 | 362 | 316.6 | 175.5 | 422 | 369.1 | 204.6 |
| 3 | 02.6 | 01.5 | 63 | 55.1 | 30.5 | 123 | 107.6 | 59.6 | 183 | 160.1 | 88.7 | 243 | 212.5 | 117.8 | 303 | 265.0 | 146.9 | 363 | 317.5 | 176.0 | 423 | 369.9 | 205.1 |
| 4 | 03.5 | 01.9 | 64 | 56.0 | 31.0 | 124 | 108.5 | 60.1 | 184 | 160.9 | 89.2 | 244 | 213.4 | 118.3 | 304 | 265.9 | 147.4 | 364 | 318.3 | 176.5 | 424 | 370.8 | 205.6 |
| 5 | 04.4 | 02.4 | 65 | 56.9 | 31.5 | 125 | 109.3 | 60.6 | 185 | 161.8 | 89.7 | 245 | 214.3 | 118.8 | 305 | 266.7 | 147.9 | 365 | 319.2 | 177.0 | 425 | 371.7 | 206.0 |
| 6 | 05.2 | 02.9 | 66 | 57.7 | 32.0 | 126 | 110.2 | 61.1 | 186 | 162.7 | 90.2 | 246 | 215.2 | 119.3 | 306 | 267.6 | 148.4 | 366 | 320.1 | 177.4 | 426 | 372.6 | 206.5 |
| 7 | 06.1 | 03.4 | 67 | 58.6 | 32.5 | 127 | 111.1 | 61.6 | 187 | 163.6 | 90.7 | 247 | 216.0 | 119.7 | 307 | 268.5 | 148.8 | 367 | 321.0 | 177.9 | 427 | 373.4 | 207.0 |
| 8 | 07.0 | 03.9 | 68 | 59.5 | 33.0 | 128 | 112.0 | 62.1 | 188 | 164.4 | 91.1 | 248 | 216.9 | 120.2 | 308 | 269.4 | 149.3 | 368 | 321.8 | 178.4 | 428 | 374.3 | 207.5 |
| 9 | 07.9 | 04.4 | 69 | 60.3 | 33.5 | 129 | 112.8 | 62.5 | 189 | 165.3 | 91.6 | 249 | 217.8 | 120.7 | 309 | 270.2 | 149.8 | 369 | 322.7 | 178.9 | 429 | 375.2 | 208.0 |
| 10 | 08.7 | 04.8 | 70 | 61.2 | 33.9 | 130 | 113.7 | 63.0 | 190 | 166.2 | 92.1 | 250 | 218.7 | 121.2 | 310 | 271.1 | 150.3 | 370 | 323.6 | 179.4 | 430 | 376.1 | 208.5 |
| 11 | 09.6 | 05.3 | 71 | 62.1 | 34.4 | 131 | 114.6 | 63.5 | 191 | 167.1 | 92.6 | 251 | 219.5 | 121.7 | 311 | 272.0 | 150.8 | 371 | 324.5 | 179.9 | 431 | 376.9 | 209.0 |
| 12 | 10.5 | 05.8 | 72 | 63.0 | 34.9 | 132 | 115.4 | 64.0 | 192 | 167.9 | 93.1 | 252 | 220.4 | 122.2 | 312 | 272.9 | 151.3 | 372 | 325.3 | 180.4 | 432 | 377.8 | 209.4 |
| 13 | 11.4 | 06.3 | 73 | 63.8 | 35.4 | 133 | 116.3 | 64.5 | 193 | 168.8 | 93.6 | 253 | 221.3 | 122.7 | 313 | 273.7 | 151.7 | 373 | 326.2 | 180.8 | 433 | 378.7 | 209.9 |
| 14 | 12.2 | 06.8 | 74 | 64.7 | 35.9 | 134 | 117.2 | 65.0 | 194 | 169.7 | 94.1 | 254 | 222.2 | 123.1 | 314 | 274.6 | 152.2 | 374 | 327.1 | 181.3 | 434 | 379.6 | 210.4 |
| 15 | 13.1 | 07.3 | 75 | 65.6 | 36.4 | 135 | 118.1 | 65.4 | 195 | 170.6 | 94.5 | 255 | 223.0 | 123.6 | 315 | 275.5 | 152.7 | 375 | 328.0 | 181.8 | 435 | 380.4 | 210.9 |
| 16 | 14.0 | 07.8 | 76 | 66.5 | 36.8 | 136 | 118.9 | 65.9 | 196 | 171.4 | 95.0 | 256 | 223.9 | 124.1 | 316 | 276.3 | 153.2 | 376 | 328.8 | 182.3 | 436 | 381.3 | 211.4 |
| 17 | 14.9 | 08.2 | 77 | 67.3 | 37.3 | 137 | 119.8 | 66.4 | 197 | 172.3 | 95.5 | 257 | 224.8 | 124.6 | 317 | 277.2 | 153.7 | 377 | 329.7 | 182.8 | 437 | 382.2 | 211.9 |
| 18 | 15.7 | 08.7 | 78 | 68.2 | 37.8 | 138 | 120.7 | 66.9 | 198 | 173.2 | 96.0 | 258 | 225.7 | 125.1 | 318 | 278.1 | 154.2 | 378 | 330.6 | 183.3 | 438 | 383.1 | 212.3 |
| 19 | 16.6 | 09.2 | 79 | 69.1 | 38.3 | 139 | 121.6 | 67.4 | 199 | 174.0 | 96.5 | 259 | 226.5 | 125.6 | 319 | 279.0 | 154.7 | 379 | 331.4 | 183.7 | 439 | 383.9 | 212.8 |
| 20 | 17.5 | 09.7 | 80 | 70.0 | 38.8 | 140 | 122.4 | 67.9 | 200 | 174.9 | 97.0 | 260 | 227.4 | 126.1 | 320 | 279.9 | 155.1 | 380 | 332.3 | 184.2 | 440 | 384.8 | 213.3 |
| 21 | 18.4 | 10.2 | 81 | 70.8 | 39.3 | 141 | 123.3 | 68.4 | 201 | 175.8 | 97.4 | 261 | 228.3 | 126.5 | 321 | 280.7 | 155.6 | 381 | 333.2 | 184.7 | 441 | 385.7 | 213.8 |
| 22 | 19.2 | 10.7 | 82 | 71.7 | 39.8 | 142 | 124.2 | 68.8 | 202 | 176.7 | 97.9 | 262 | 229.2 | 127.0 | 322 | 281.6 | 156.1 | 382 | 334.1 | 185.2 | 442 | 386.6 | 214.3 |
| 23 | 20.1 | 11.2 | 83 | 72.6 | 40.2 | 143 | 125.1 | 69.3 | 203 | 177.5 | 98.4 | 263 | 230.0 | 127.5 | 323 | 282.5 | 156.6 | 383 | 334.9 | 185.7 | 443 | 387.4 | 214.8 |
| 24 | 21.0 | 11.6 | 84 | 73.5 | 40.7 | 144 | 125.9 | 69.8 | 204 | 178.4 | 98.9 | 264 | 230.9 | 128.0 | 324 | 283.3 | 157.1 | 384 | 335.8 | 186.2 | 444 | 388.3 | 215.3 |
| 25 | 21.9 | 12.1 | 85 | 74.3 | 41.2 | 145 | 126.8 | 70.3 | 205 | 179.3 | 99.4 | 265 | 231.8 | 128.5 | 325 | 284.3 | 157.6 | 385 | 336.7 | 186.7 | 445 | 389.2 | 215.7 |
| 26 | 22.7 | 12.6 | 86 | 75.2 | 41.7 | 146 | 127.7 | 70.8 | 206 | 180.2 | 99.9 | 266 | 232.6 | 129.0 | 326 | 285.1 | 158.1 | 386 | 337.6 | 187.1 | 446 | 390.0 | 216.2 |
| 27 | 23.6 | 13.1 | 87 | 76.1 | 42.2 | 147 | 128.6 | 71.3 | 207 | 181.0 | 100.4 | 267 | 233.5 | 129.4 | 327 | 286.0 | 158.5 | 387 | 338.4 | 187.6 | 447 | 390.9 | 216.7 |
| 28 | 24.5 | 13.6 | 88 | 77.0 | 42.7 | 148 | 129.4 | 71.8 | 208 | 181.9 | 100.8 | 268 | 234.4 | 129.9 | 328 | 286.9 | 159.0 | 388 | 339.3 | 188.1 | 448 | 391.8 | 217.2 |
| 29 | 25.4 | 14.1 | 89 | 77.8 | 43.1 | 149 | 130.3 | 72.2 | 209 | 182.8 | 101.3 | 269 | 235.3 | 130.4 | 329 | 287.7 | 159.5 | 389 | 340.2 | 188.6 | 449 | 392.7 | 217.7 |
| 30 | 26.2 | 14.5 | 90 | 78.7 | 43.6 | 150 | 131.2 | 72.7 | 210 | 183.7 | 101.8 | 270 | 236.1 | 130.9 | 330 | 288.6 | 160.0 | 390 | 341.1 | 189.1 | 450 | 393.5 | 218.2 |
| 31 | 27.1 | 15.0 | 91 | 79.6 | 44.1 | 151 | 132.1 | 73.2 | 211 | 184.5 | 102.3 | 271 | 237.0 | 131.4 | 331 | 289.5 | 160.5 | 391 | 341.9 | 189.6 | 451 | 394.4 | 218.7 |
| 32 | 28.0 | 15.5 | 92 | 80.5 | 44.6 | 152 | 132.9 | 73.7 | 212 | 185.4 | 102.8 | 272 | 237.9 | 131.9 | 332 | 290.3 | 161.0 | 392 | 342.8 | 190.0 | 452 | 395.3 | 219.1 |
| 33 | 28.9 | 16.0 | 93 | 81.3 | 45.1 | 153 | 133.8 | 74.2 | 213 | 186.3 | 103.3 | 273 | 238.8 | 132.4 | 333 | 291.2 | 161.4 | 393 | 343.7 | 190.5 | 453 | 396.2 | 219.6 |
| 34 | 29.7 | 16.5 | 94 | 82.2 | 45.6 | 154 | 134.7 | 74.7 | 214 | 187.2 | 103.7 | 274 | 239.6 | 132.8 | 334 | 292.1 | 161.9 | 394 | 344.6 | 191.0 | 454 | 397.0 | 220.1 |
| 35 | 30.6 | 17.0 | 95 | 83.1 | 46.1 | 155 | 135.6 | 75.1 | 215 | 188.0 | 104.2 | 275 | 240.5 | 133.3 | 335 | 293.0 | 162.4 | 395 | 345.4 | 191.5 | 455 | 397.9 | 220.6 |
| 36 | 31.5 | 17.5 | 96 | 84.0 | 46.5 | 156 | 136.4 | 75.6 | 216 | 188.9 | 104.7 | 276 | 241.4 | 133.8 | 336 | 293.8 | 162.9 | 396 | 346.3 | 192.0 | 456 | 398.8 | 221.1 |
| 37 | 32.4 | 17.9 | 97 | 84.8 | 47.0 | 157 | 137.3 | 76.1 | 217 | 189.8 | 105.2 | 277 | 242.3 | 134.3 | 337 | 294.7 | 163.4 | 397 | 347.2 | 192.5 | 457 | 399.7 | 221.6 |
| 38 | 33.2 | 18.4 | 98 | 85.7 | 47.5 | 158 | 138.2 | 76.6 | 218 | 190.7 | 105.7 | 278 | 243.1 | 134.8 | 338 | 295.6 | 163.9 | 398 | 348.1 | 193.0 | 458 | 400.5 | 222.0 |
| 39 | 34.1 | 18.9 | 99 | 86.6 | 48.0 | 159 | 139.1 | 77.1 | 219 | 191.5 | 106.2 | 279 | 244.0 | 135.3 | 339 | 296.5 | 164.4 | 399 | 348.9 | 193.4 | 459 | 401.4 | 222.5 |
| 40 | 35.0 | 19.4 | 100 | 87.5 | 48.5 | 160 | 139.9 | 77.6 | 220 | 192.4 | 106.7 | 280 | 244.9 | 135.7 | 340 | 297.3 | 164.8 | 400 | 349.8 | 193.9 | 460 | 402.3 | 223.0 |
| 41 | 35.9 | 19.9 | 101 | 88.3 | 49.0 | 161 | 140.8 | 78.1 | 221 | 193.3 | 107.1 | 281 | 245.8 | 136.2 | 341 | 298.2 | 165.3 | 401 | 350.7 | 194.4 | 461 | 403.2 | 223.5 |
| 42 | 36.7 | 20.4 | 102 | 89.2 | 49.5 | 162 | 141.7 | 78.5 | 222 | 194.2 | 107.6 | 282 | 246.6 | 136.7 | 342 | 299.1 | 165.8 | 402 | 351.6 | 194.9 | 462 | 404.0 | 224.0 |
| 43 | 37.6 | 20.8 | 103 | 90.1 | 49.9 | 163 | 142.6 | 79.0 | 223 | 195.0 | 108.1 | 283 | 247.5 | 137.2 | 343 | 300.0 | 166.3 | 403 | 352.4 | 195.4 | 463 | 404.9 | 224.5 |
| 44 | 38.5 | 21.3 | 104 | 91.0 | 50.4 | 164 | 143.4 | 79.5 | 224 | 195.9 | 108.6 | 284 | 248.4 | 137.7 | 344 | 300.8 | 166.8 | 404 | 353.3 | 195.9 | 464 | 405.8 | 225.0 |
| 45 | 39.4 | 21.8 | 105 | 91.8 | 50.9 | 165 | 144.3 | 80.0 | 225 | 196.8 | 109.1 | 285 | 249.3 | 138.2 | 345 | 301.7 | 167.3 | 405 | 354.2 | 196.3 | 465 | 406.7 | 225.4 |
| 46 | 40.2 | 22.3 | 106 | 92.7 | 51.4 | 166 | 145.2 | 80.5 | 226 | 197.7 | 109.6 | 286 | 250.1 | 138.7 | 346 | 302.6 | 167.7 | 406 | 355.1 | 196.8 | 466 | 407.5 | 225.9 |
| 47 | 41.1 | 22.8 | 107 | 93.6 | 51.9 | 167 | 146.1 | 81.0 | 227 | 198.5 | 110.1 | 287 | 251.0 | 139.1 | 347 | 303.5 | 168.2 | 407 | 355.9 | 197.3 | 467 | 408.4 | 226.4 |
| 48 | 42.0 | 23.3 | 108 | 94.5 | 52.4 | 168 | 146.9 | 81.4 | 228 | 199.4 | 110.5 | 288 | 251.9 | 139.6 | 348 | 304.3 | 168.7 | 408 | 356.8 | 197.8 | 468 | 409.3 | 226.9 |
| 49 | 42.9 | 23.8 | 109 | 95.3 | 52.8 | 169 | 147.8 | 81.9 | 229 | 200.3 | 111.0 | 289 | 252.8 | 140.1 | 349 | 305.2 | 169.2 | 409 | 357.7 | 198.3 | 469 | 410.2 | 227.4 |
| 50 | 43.7 | 24.2 | 110 | 96.2 | 53.3 | 170 | 148.7 | 82.4 | 230 | 201.2 | 111.5 | 290 | 253.6 | 140.6 | 350 | 306.1 | 169.7 | 410 | 358.6 | 198.8 | 470 | 411.0 | 227.9 |
| 51 | 44.6 | 24.7 | 111 | 97.1 | 53.8 | 171 | 149.6 | 82.9 | 231 | 202.0 | 112.0 | 291 | 254.5 | 141.1 | 351 | 307.0 | 170.2 | 411 | 359.4 | 199.3 | 471 | 411.9 | 228.3 |
| 52 | 45.5 | 25.2 | 112 | 98.0 | 54.3 | 172 | 150.4 | 83.4 | 232 | 202.9 | 112.5 | 292 | 255.4 | 141.6 | 352 | 307.8 | 170.7 | 412 | 360.3 | 199.7 | 472 | 412.8 | 228.8 |
| 53 | 46.4 | 25.7 | 113 | 98.8 | 54.8 | 173 | 151.3 | 83.9 | 233 | 203.8 | 113.0 | 293 | 256.3 | 142.0 | 353 | 308.7 | 171.1 | 413 | 361.2 | 200.2 | 473 | 413.7 | 229.3 |
| 54 | 47.2 | 26.2 | 114 | 99.7 | 55.3 | 174 | 152.2 | 84.4 | 234 | 204.7 | 113.4 | 294 | 257.1 | 142.5 | 354 | 309.6 | 171.6 | 414 | 362.1 | 200.7 | 474 | 414.5 | 229.8 |
| 55 | 48.1 | 26.7 | 115 | 100.6 | 55.8 | 175 | 153.1 | 84.8 | 235 | 205.5 | 113.9 | 295 | 258.0 | 143.0 | 355 | 310.5 | 172.1 | 415 | 362.9 | 201.2 | 475 | 415.4 | 230.3 |
| 56 | 49.0 | 27.1 | 116 | 101.5 | 56.2 | 176 | 153.9 | 85.3 | 236 | 206.4 | 114.4 | 296 | 258.9 | 143.5 | 356 | 311.3 | 172.6 | 416 | 363.8 | 201.7 | 476 | 416.3 | 230.8 |
| 57 | 49.9 | 27.6 | 117 | 102.3 | 56.7 | 177 | 154.8 | 85.8 | 237 | 207.3 | 114.9 | 297 | 259.8 | 144.0 | 357 | 312.2 | 173.1 | 417 | 364.7 | 202.2 | 477 | 417.2 | 231.3 |
| 58 | 50.7 | 28.1 | 118 | 103.2 | 57.2 | 178 | 155.7 | 86.3 | 238 | 208.2 | 115.4 | 298 | 260.6 | 144.5 | 358 | 313.1 | 173.6 | 418 | 365.6 | 202.7 | 478 | 418.0 | 231.7 |
| 59 | 51.6 | 28.6 | 119 | 104.1 | 57.7 | 179 | 156.6 | 86.8 | 239 | 209.0 | 115.9 | 299 | 261.5 | 145.0 | 359 | 314.0 | 174.0 | 419 | 366.4 | 203.1 | 479 | 418.9 | 232.2 |
| 60 | 52.5 | 29.1 | 120 | 105.0 | 58.2 | 180 | 157.4 | 87.3 | 240 | 209.9 | 116.4 | 300 | 262.4 | 145.4 | 360 | 314.8 | 174.5 | 420 | 367.3 | 203.6 | 480 | 419.8 | 232.7 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 4.m — Para 61 grados. — 7.h 56.m

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.h 0.m — Para 30 grados. — 10.h 0.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.9 | 00.5 | 61 | 52.8 | 30.5 | 121 | 104.8 | 60.5 | 181 | 156.8 | 90.5 | 241 | 208.7 | 120.5 | 301 | 260.7 | 150.5 | 361 | 312.6 | 180.5 | 421 | 364.6 | 210.5 |
| 2 | 01.7 | 01.0 | 62 | 53.7 | 31.0 | 122 | 105.7 | 61.0 | 182 | 157.6 | 91.0 | 242 | 209.6 | 121.0 | 302 | 261.5 | 151.0 | 362 | 313.5 | 181.0 | 422 | 365.5 | 211.0 |
| 3 | 02.6 | 01.5 | 63 | 54.6 | 31.5 | 123 | 106.5 | 61.5 | 183 | 158.5 | 91.5 | 243 | 210.4 | 121.5 | 303 | 262.4 | 151.5 | 363 | 314.4 | 181.5 | 423 | 366.3 | 211.5 |
| 4 | 03.5 | 02.0 | 64 | 55.4 | 32.0 | 124 | 107.4 | 62.0 | 184 | 159.3 | 92.0 | 244 | 211.3 | 122.0 | 304 | 263.3 | 152.0 | 364 | 315.2 | 182.0 | 424 | 367.2 | 212.0 |
| 5 | 04.3 | 02.5 | 65 | 56.3 | 32.5 | 125 | 108.3 | 62.5 | 185 | 160.2 | 92.5 | 245 | 212.2 | 122.5 | 305 | 264.1 | 152.5 | 365 | 316.1 | 182.5 | 425 | 368.1 | 212.5 |
| 6 | 05.2 | 03.0 | 66 | 57.2 | 33.0 | 126 | 109.1 | 63.0 | 186 | 161.1 | 93.0 | 246 | 213.0 | 123.0 | 306 | 265.0 | 153.0 | 366 | 317.0 | 183.0 | 426 | 368.9 | 213.0 |
| 7 | 06.1 | 03.5 | 67 | 58.0 | 33.5 | 127 | 110.0 | 63.5 | 187 | 161.9 | 93.5 | 247 | 213.9 | 123.5 | 307 | 265.9 | 153.5 | 367 | 317.8 | 183.5 | 427 | 369.8 | 213.5 |
| 8 | 06.9 | 04.0 | 68 | 58.9 | 34.0 | 128 | 110.9 | 64.0 | 188 | 162.8 | 94.0 | 248 | 214.8 | 124.0 | 308 | 266.7 | 154.0 | 368 | 318.7 | 184.0 | 428 | 370.7 | 214.0 |
| 9 | 07.8 | 04.5 | 69 | 59.8 | 34.5 | 129 | 111.7 | 64.5 | 189 | 163.7 | 94.5 | 249 | 215.6 | 124.5 | 309 | 267.6 | 154.5 | 369 | 319.6 | 184.5 | 429 | 371.5 | 214.5 |
| 10 | 08.7 | 05.0 | 70 | 60.6 | 35.0 | 130 | 112.6 | 65.0 | 190 | 164.5 | 95.0 | 250 | 216.5 | 125.0 | 310 | 268.5 | 155.0 | 370 | 320.4 | 185.0 | 430 | 372.4 | 215.0 |
| 11 | 09.5 | 05.5 | 71 | 61.5 | 35.5 | 131 | 113.4 | 65.5 | 191 | 165.4 | 95.5 | 251 | 217.4 | 125.5 | 311 | 269.3 | 155.5 | 371 | 321.3 | 185.5 | 431 | 373.3 | 215.5 |
| 12 | 10.4 | 06.0 | 72 | 62.4 | 36.0 | 132 | 114.3 | 66.0 | 192 | 166.3 | 96.0 | 252 | 218.2 | 126.0 | 312 | 270.2 | 156.0 | 372 | 322.2 | 186.0 | 432 | 374.1 | 216.0 |
| 13 | 11.3 | 06.5 | 73 | 63.2 | 36.5 | 133 | 115.2 | 66.5 | 193 | 167.1 | 96.5 | 253 | 219.1 | 126.5 | 313 | 271.1 | 156.5 | 373 | 323.0 | 186.5 | 433 | 375.0 | 216.5 |
| 14 | 12.1 | 07.0 | 74 | 64.1 | 37.0 | 134 | 116.0 | 67.0 | 194 | 168.0 | 97.0 | 254 | 220.0 | 127.0 | 314 | 271.9 | 157.0 | 374 | 323.9 | 187.0 | 434 | 375.9 | 217.0 |
| 15 | 13.0 | 07.5 | 75 | 65.0 | 37.5 | 135 | 116.9 | 67.5 | 195 | 168.9 | 97.5 | 255 | 220.8 | 127.5 | 315 | 272.8 | 157.5 | 375 | 324.8 | 187.5 | 435 | 376.7 | 217.5 |
| 16 | 13.9 | 08.0 | 76 | 65.8 | 38.0 | 136 | 117.8 | 68.0 | 196 | 169.7 | 98.0 | 256 | 221.7 | 128.0 | 316 | 273.7 | 158.0 | 376 | 325.6 | 188.0 | 436 | 377.6 | 218.0 |
| 17 | 14.7 | 08.5 | 77 | 66.7 | 38.5 | 137 | 118.6 | 68.5 | 197 | 170.6 | 98.5 | 257 | 222.6 | 128.5 | 317 | 274.5 | 158.5 | 377 | 326.5 | 188.5 | 437 | 378.5 | 218.5 |
| 18 | 15.6 | 09.0 | 78 | 67.5 | 39.0 | 138 | 119.5 | 69.0 | 198 | 171.5 | 99.0 | 258 | 223.4 | 129.0 | 318 | 275.4 | 159.0 | 378 | 327.4 | 189.0 | 438 | 379.3 | 219.0 |
| 19 | 16.5 | 09.5 | 79 | 68.4 | 39.5 | 139 | 120.4 | 69.5 | 199 | 172.3 | 99.5 | 259 | 224.3 | 129.5 | 319 | 276.3 | 159.5 | 379 | 328.2 | 189.5 | 439 | 380.2 | 219.5 |
| 20 | 17.3 | 10.0 | 80 | 69.3 | 40.0 | 140 | 121.2 | 70.0 | 200 | 173.2 | 100.0 | 260 | 225.2 | 130.0 | 320 | 277.1 | 160.0 | 380 | 329.1 | 190.0 | 440 | 381.1 | 220.0 |
| 21 | 18.2 | 10.5 | 81 | 70.1 | 40.5 | 141 | 122.1 | 70.5 | 201 | 174.1 | 100.5 | 261 | 226.0 | 130.5 | 321 | 278.0 | 160.5 | 381 | 330.0 | 190.5 | 441 | 381.9 | 220.5 |
| 22 | 19.1 | 11.0 | 82 | 71.0 | 41.0 | 142 | 123.0 | 71.0 | 202 | 174.9 | 101.0 | 262 | 226.9 | 131.0 | 322 | 278.9 | 161.0 | 382 | 330.8 | 191.0 | 442 | 382.8 | 221.0 |
| 23 | 19.9 | 11.5 | 83 | 71.9 | 41.5 | 143 | 123.8 | 71.5 | 203 | 175.8 | 101.5 | 263 | 227.8 | 131.5 | 323 | 279.7 | 161.5 | 383 | 331.7 | 191.5 | 443 | 383.6 | 221.5 |
| 24 | 20.8 | 12.0 | 84 | 72.7 | 42.0 | 144 | 124.7 | 72.0 | 204 | 176.7 | 102.0 | 264 | 228.6 | 132.0 | 324 | 280.6 | 162.0 | 384 | 332.6 | 192.0 | 444 | 384.5 | 222.0 |
| 25 | 21.7 | 12.5 | 85 | 73.6 | 42.5 | 145 | 125.6 | 72.5 | 205 | 177.5 | 102.5 | 265 | 229.5 | 132.5 | 325 | 281.5 | 162.5 | 385 | 333.4 | 192.5 | 445 | 385.4 | 222.5 |
| 26 | 22.5 | 13.0 | 86 | 74.5 | 43.0 | 146 | 126.4 | 73.0 | 206 | 178.4 | 103.0 | 266 | 230.4 | 133.0 | 326 | 282.3 | 163.0 | 386 | 334.3 | 193.0 | 446 | 386.2 | 223.0 |
| 27 | 23.4 | 13.5 | 87 | 75.3 | 43.5 | 147 | 127.3 | 73.5 | 207 | 179.3 | 103.5 | 267 | 231.2 | 133.5 | 327 | 283.2 | 163.5 | 387 | 335.2 | 193.5 | 447 | 387.1 | 223.5 |
| 28 | 24.2 | 14.0 | 88 | 76.2 | 44.0 | 148 | 128.2 | 74.0 | 208 | 180.1 | 104.0 | 268 | 232.1 | 134.0 | 328 | 284.1 | 164.0 | 388 | 336.0 | 194.0 | 448 | 388.0 | 224.0 |
| 29 | 25.1 | 14.5 | 89 | 77.1 | 44.5 | 149 | 129.0 | 74.5 | 209 | 181.0 | 104.5 | 269 | 233.0 | 134.5 | 329 | 284.9 | 164.5 | 389 | 336.9 | 194.5 | 449 | 388.8 | 224.5 |
| 30 | 26.0 | 15.0 | 90 | 77.9 | 45.0 | 150 | 129.9 | 75.0 | 210 | 181.9 | 105.0 | 270 | 233.8 | 135.0 | 330 | 285.8 | 165.0 | 390 | 337.8 | 195.0 | 450 | 389.7 | 225.0 |
| 31 | 26.8 | 15.5 | 91 | 78.8 | 45.5 | 151 | 130.8 | 75.5 | 211 | 182.7 | 105.5 | 271 | 234.7 | 135.5 | 331 | 286.7 | 165.5 | 391 | 338.6 | 195.5 | 451 | 390.6 | 225.5 |
| 32 | 27.7 | 16.0 | 92 | 79.7 | 46.0 | 152 | 131.6 | 76.0 | 212 | 183.6 | 106.0 | 272 | 235.6 | 136.0 | 332 | 287.5 | 166.0 | 392 | 339.5 | 196.0 | 452 | 391.4 | 226.0 |
| 33 | 28.6 | 16.5 | 93 | 80.5 | 46.5 | 153 | 132.5 | 76.5 | 213 | 184.5 | 106.5 | 273 | 236.4 | 136.5 | 333 | 288.4 | 166.5 | 393 | 340.3 | 196.5 | 453 | 392.3 | 226.5 |
| 34 | 29.4 | 17.0 | 94 | 81.4 | 47.0 | 154 | 133.4 | 77.0 | 214 | 185.3 | 107.0 | 274 | 237.3 | 137.0 | 334 | 289.3 | 167.0 | 394 | 341.2 | 197.0 | 454 | 393.2 | 227.0 |
| 35 | 30.3 | 17.5 | 95 | 82.3 | 47.5 | 155 | 134.2 | 77.5 | 215 | 186.2 | 107.5 | 275 | 238.2 | 137.5 | 335 | 290.1 | 167.5 | 395 | 342.1 | 197.5 | 455 | 394.0 | 227.5 |
| 36 | 31.2 | 18.0 | 96 | 83.1 | 48.0 | 156 | 135.1 | 78.0 | 216 | 187.1 | 108.0 | 276 | 239.0 | 138.0 | 336 | 291.0 | 168.0 | 396 | 343.0 | 198.0 | 456 | 394.9 | 228.0 |
| 37 | 32.0 | 18.5 | 97 | 84.0 | 48.5 | 157 | 136.0 | 78.5 | 217 | 187.9 | 108.5 | 277 | 239.9 | 138.5 | 337 | 291.8 | 168.5 | 397 | 343.8 | 198.5 | 457 | 395.8 | 228.5 |
| 38 | 32.9 | 19.0 | 98 | 84.9 | 49.0 | 158 | 136.8 | 79.0 | 218 | 188.8 | 109.0 | 278 | 240.8 | 139.0 | 338 | 292.7 | 169.0 | 398 | 344.7 | 199.0 | 458 | 396.6 | 229.0 |
| 39 | 33.8 | 19.5 | 99 | 85.7 | 49.5 | 159 | 137.7 | 79.5 | 219 | 189.7 | 109.5 | 279 | 241.6 | 139.5 | 339 | 293.6 | 169.5 | 399 | 345.5 | 199.5 | 459 | 397.5 | 229.5 |
| 40 | 34.6 | 20.0 | 100 | 86.6 | 50.0 | 160 | 138.6 | 80.0 | 220 | 190.5 | 110.0 | 280 | 242.5 | 140.0 | 340 | 294.4 | 170.0 | 400 | 346.4 | 200.0 | 460 | 398.4 | 230.0 |
| 41 | 35.5 | 20.5 | 101 | 87.5 | 50.5 | 161 | 139.4 | 80.5 | 221 | 191.4 | 110.5 | 281 | 243.4 | 140.5 | 341 | 295.3 | 170.5 | 401 | 347.3 | 200.5 | 461 | 399.2 | 230.5 |
| 42 | 36.4 | 21.0 | 102 | 88.3 | 51.0 | 162 | 140.3 | 81.0 | 222 | 192.3 | 111.0 | 282 | 244.2 | 141.0 | 342 | 296.2 | 171.0 | 402 | 348.1 | 201.0 | 462 | 400.1 | 231.0 |
| 43 | 37.2 | 21.5 | 103 | 89.2 | 51.5 | 163 | 141.2 | 81.5 | 223 | 193.1 | 111.5 | 283 | 245.1 | 141.5 | 343 | 297.0 | 171.5 | 403 | 349.0 | 201.5 | 463 | 401.0 | 231.5 |
| 44 | 38.1 | 22.0 | 104 | 90.1 | 52.0 | 164 | 142.0 | 82.0 | 224 | 194.0 | 112.0 | 284 | 246.0 | 142.0 | 344 | 297.9 | 172.0 | 404 | 349.9 | 202.0 | 464 | 401.8 | 232.0 |
| 45 | 39.0 | 22.5 | 105 | 90.9 | 52.5 | 165 | 142.9 | 82.5 | 225 | 194.9 | 112.5 | 285 | 246.8 | 142.5 | 345 | 298.8 | 172.5 | 405 | 350.7 | 202.5 | 465 | 402.7 | 232.5 |
| 46 | 39.8 | 23.0 | 106 | 91.8 | 53.0 | 166 | 143.8 | 83.0 | 226 | 195.7 | 113.0 | 286 | 247.7 | 143.0 | 346 | 299.6 | 173.0 | 406 | 351.6 | 203.0 | 466 | 403.6 | 233.0 |
| 47 | 40.7 | 23.5 | 107 | 92.7 | 53.5 | 167 | 144.6 | 83.5 | 227 | 196.6 | 113.5 | 287 | 248.5 | 143.5 | 347 | 300.5 | 173.5 | 407 | 352.5 | 203.5 | 467 | 404.4 | 233.5 |
| 48 | 41.6 | 24.0 | 108 | 93.5 | 54.0 | 168 | 145.5 | 84.0 | 228 | 197.5 | 114.0 | 288 | 249.4 | 144.0 | 348 | 301.4 | 174.0 | 408 | 353.3 | 204.0 | 468 | 405.3 | 234.0 |
| 49 | 42.4 | 24.5 | 109 | 94.4 | 54.5 | 169 | 146.4 | 84.5 | 229 | 198.3 | 114.5 | 289 | 250.3 | 144.5 | 349 | 302.2 | 174.5 | 409 | 354.2 | 204.5 | 469 | 406.2 | 234.5 |
| 50 | 43.3 | 25.0 | 110 | 95.3 | 55.0 | 170 | 147.2 | 85.0 | 230 | 199.2 | 115.0 | 290 | 251.1 | 145.0 | 350 | 303.1 | 175.0 | 410 | 355.1 | 205.0 | 470 | 407.0 | 235.0 |
| 51 | 44.2 | 25.5 | 111 | 96.1 | 55.5 | 171 | 148.1 | 85.5 | 231 | 200.1 | 115.5 | 291 | 252.0 | 145.5 | 351 | 304.0 | 175.5 | 411 | 355.9 | 205.5 | 471 | 407.9 | 235.5 |
| 52 | 45.0 | 26.0 | 112 | 97.0 | 56.0 | 172 | 149.0 | 86.0 | 232 | 200.9 | 116.0 | 292 | 252.9 | 146.0 | 352 | 304.8 | 176.0 | 412 | 356.8 | 206.0 | 472 | 408.8 | 236.0 |
| 53 | 45.9 | 26.5 | 113 | 97.9 | 56.5 | 173 | 149.8 | 86.5 | 233 | 201.8 | 116.5 | 293 | 253.7 | 146.5 | 353 | 305.7 | 176.5 | 413 | 357.7 | 206.5 | 473 | 409.6 | 236.5 |
| 54 | 46.8 | 27.0 | 114 | 98.7 | 57.0 | 174 | 150.7 | 87.0 | 234 | 202.6 | 117.0 | 294 | 254.6 | 147.0 | 354 | 306.6 | 177.0 | 414 | 358.5 | 207.0 | 474 | 410.5 | 237.0 |
| 55 | 47.6 | 27.5 | 115 | 99.6 | 57.5 | 175 | 151.6 | 87.5 | 235 | 203.5 | 117.5 | 295 | 255.5 | 147.5 | 355 | 307.4 | 177.5 | 415 | 359.4 | 207.5 | 475 | 411.4 | 237.5 |
| 56 | 48.5 | 28.0 | 116 | 100.5 | 58.0 | 176 | 152.4 | 88.0 | 236 | 204.4 | 118.0 | 296 | 256.3 | 148.0 | 356 | 308.3 | 178.0 | 416 | 360.3 | 208.0 | 476 | 412.2 | 238.0 |
| 57 | 49.4 | 28.5 | 117 | 101.3 | 58.5 | 177 | 153.3 | 88.5 | 237 | 205.2 | 118.5 | 297 | 257.2 | 148.5 | 357 | 309.2 | 178.5 | 417 | 361.1 | 208.5 | 477 | 413.1 | 238.5 |
| 58 | 50.2 | 29.0 | 118 | 102.2 | 59.0 | 178 | 154.2 | 89.0 | 238 | 206.1 | 119.0 | 298 | 258.1 | 149.0 | 358 | 310.0 | 179.0 | 418 | 362.0 | 209.0 | 478 | 414.0 | 239.0 |
| 59 | 51.1 | 29.5 | 119 | 103.1 | 59.5 | 179 | 155.0 | 89.5 | 239 | 207.0 | 119.5 | 299 | 258.9 | 149.5 | 359 | 310.9 | 179.5 | 419 | 362.9 | 209.5 | 479 | 414.8 | 239.5 |
| 60 | 52.0 | 30.0 | 120 | 103.9 | 60.0 | 180 | 155.9 | 90.0 | 240 | 207.8 | 120.0 | 300 | 259.8 | 150.0 | 360 | 311.8 | 180.0 | 420 | 363.7 | 210.0 | 480 | 415.7 | 240.0 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

4.h 0.m — Para 60 grados. — 8.h 0.m

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**Tabla XXXV.** Diferencias en latitud y apatamientos de meridiano.

2.h 4.m Para 31 grados. 9.h 56.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 09.6 | 61 | 52.3 | 31.4 | 121 | 103.7 | 82.3 | 181 | 155.1 | 93.2 | 241 | 206.9 | 124.1 | 301 | 250.0 | 155.0 | 361 | 309.4 | 185.8 | 421 | 390.9 | 216.8 |
| 2 | 81.7 | 81.0 | 82 | 53.1 | 31.9 | 122 | 104.9 | 62.8 | 182 | 156.0 | 93.7 | 242 | 287.4 | 124.8 | 302 | 258.9 | 155.6 | 362 | 310.3 | 198.4 | 422 | 361.7 | 217.3 |
| 3 | 02.6 | 01.5 | 83 | 54.0 | 32.4 | 123 | 185.4 | 83.3 | 183 | 158.8 | 91.3 | 243 | 208.3 | 125.2 | 303 | 259.7 | 159.1 | 363 | 311.2 | 197.0 | 423 | 392.6 | 217.9 |
| 4 | 93.4 | 02.1 | 64 | 64.8 | 33.0 | 124 | 189.3 | 63.9 | 184 | 167.7 | 94.8 | 244 | 209.1 | 125.7 | 304 | 260.6 | 159.6 | 364 | 312.0 | 187.6 | 424 | 393.4 | 218.4 |
| 5 | 04.3 | 82.9 | 95 | 66.7 | 33.6 | 125 | 107.1 | 64.4 | 185 | 158.9 | 25.3 | 245 | 219.9 | 128.2 | 305 | 261.4 | 157.1 | 365 | 312.9 | 188.0 | 425 | 394.3 | 210.9 |
| 6 | 95.1 | 03.1 | 68 | 56.6 | 34.0 | 128 | 100.0 | 81.8 | 186 | 152.4 | 95.8 | 246 | 219.2 | 128.7 | 306 | 262.3 | 157.6 | 366 | 313.7 | 180.5 | 429 | 365.2 | 219.4 |
| 7 | 99.0 | 93.6 | 67 | 67.4 | 34.5 | 127 | 108.9 | 65.4 | 187 | 160.3 | 28.3 | 247 | 211.7 | 127.2 | 307 | 263.2 | 158.1 | 397 | 314.6 | 109.0 | 427 | 396.0 | 219.9 |
| 8 | 89.9 | 84.1 | 68 | 50.3 | 35.0 | 128 | 188.7 | 65.9 | 188 | 181.1 | 26.8 | 248 | 212.6 | 127.7 | 308 | 264.0 | 159.6 | 398 | 315.4 | 109.5 | 428 | 366.9 | 220.4 |
| 9 | 87.7 | 84.6 | 92 | 89.1 | 35.5 | 128 | 118.6 | 96.4 | 189 | 182.0 | 27.3 | 249 | 213.4 | 128.2 | 309 | 264.9 | 159.2 | 369 | 316.3 | 190.1 | 429 | 367.7 | 221.0 |
| 10 | 09.6 | 85.2 | 70 | 60.0 | 39.1 | 130 | 111.4 | 67.0 | 198 | 182.9 | 27.9 | 250 | 214.3 | 128.8 | 310 | 265.7 | 159.7 | 378 | 317.2 | 190.6 | 430 | 369.6 | 221.5 |
| 11 | 09.4 | 06.7 | 71 | 60.9 | 38.6 | 131 | 112.3 | 67.5 | 191 | 183.7 | 98.4 | 251 | 216.1 | 128.3 | 311 | 266.6 | 160.2 | 371 | 318.0 | 191.1 | 131 | 369.4 | 222.0 |
| 12 | 10.3 | 86.2 | 72 | 81.7 | 37.1 | 132 | 113.1 | 68.0 | 192 | 184.6 | 28.9 | 252 | 219.0 | 129.8 | 312 | 267.4 | 160.7 | 372 | 318.9 | 191.9 | 432 | 370.3 | 222.5 |
| 13 | 11.1 | 06.7 | 73 | 82.9 | 37.9 | 133 | 114.0 | 88.6 | 193 | 185.4 | 99.4 | 253 | 218.8 | 130.3 | 313 | 260.3 | 191.2 | 373 | 319.7 | 192.1 | 433 | 371.2 | 223.0 |
| 14 | 12.9 | 87.2 | 74 | 83.4 | 39.1 | 134 | 114.2 | 69.0 | 194 | 186.3 | 99.9 | 254 | 217.7 | 130.8 | 314 | 292.2 | 161.7 | 374 | 320.8 | 192.6 | 434 | 372.9 | 223.6 |
| 15 | 12.9 | 97.7 | 75 | 84.3 | 39.9 | 135 | 115.7 | 99.5 | 195 | 167.1 | 100.4 | 255 | 216.6 | 131.3 | 315 | 270.0 | 162.9 | 376 | 321.4 | 193.1 | 435 | 372.9 | 224.0 |
| 16 | 13.7 | 88.2 | 76 | 95.1 | 39.1 | 139 | 126.8 | 78.0 | 196 | 168.0 | 108.9 | 256 | 219.4 | 131.9 | 316 | 270.9 | 162.0 | 379 | 322.3 | 193.7 | 136 | 373.7 | 221.6 |
| 17 | 14.6 | 08.0 | 77 | 66.9 | 39.7 | 137 | 117.4 | 78.6 | 197 | 169.8 | 101.5 | 257 | 220.3 | 132.4 | 317 | 271.7 | 193.3 | 377 | 323.2 | 124.2 | 437 | 374.0 | 225.1 |
| 10 | 15.4 | 89.3 | 79 | 69.9 | 48.2 | 138 | 118.3 | 71.1 | 198 | 169.7 | 102.0 | 258 | 221.1 | 132.9 | 318 | 272.9 | 163.8 | 378 | 324.0 | 194.7 | 430 | 375.4 | 225.6 |
| 18 | 19.3 | 99.0 | 79 | 67.7 | 40.7 | 139 | 119.1 | 71.6 | 199 | 170.8 | 102.5 | 259 | 222.0 | 133.4 | 318 | 273.4 | 194.3 | 379 | 324.9 | 195.2 | 139 | 376.3 | 229.1 |
| 20 | 17.1 | 18.3 | 88 | 80.6 | 41.2 | 140 | 129.0 | 72.1 | 200 | 171.4 | 103.0 | 260 | 222.9 | 133.9 | 320 | 274.3 | 164.8 | 300 | 325.7 | 195.7 | 440 | 377.2 | 229.9 |
| 21 | 18.9 | 18.0 | 81 | 69.4 | 41.7 | 141 | 120.9 | 72.6 | 201 | 172.3 | 103.5 | 261 | 223.7 | 134.4 | 321 | 275.2 | 165.3 | 381 | 328.6 | 196.2 | 441 | 370.0 | 227.1 |
| 22 | 16.9 | 11.3 | 82 | 70.3 | 42.2 | 142 | 121.7 | 73.1 | 202 | 173.1 | 104.0 | 282 | 224.6 | 134.9 | 322 | 279.8 | 195.6 | 382 | 327.4 | 126.7 | 412 | 378.9 | 227.7 |
| 23 | 19.7 | 11.8 | 93 | 71.1 | 42.7 | 143 | 122.8 | 73.7 | 203 | 174.0 | 104.9 | 283 | 225.4 | 136.6 | 323 | 279.9 | 199.4 | 383 | 320.3 | 197.3 | 443 | 379.7 | 228.2 |
| 24 | 20.6 | 12.4 | 84 | 72.9 | 43.3 | 144 | 123.4 | 74.2 | 204 | 174.8 | 105.1 | 264 | 228.3 | 139.0 | 324 | 277.7 | 189.9 | 484 | 328.2 | 197.8 | 444 | 380.6 | 229.7 |
| 25 | 21.4 | 12.8 | 65 | 72.9 | 43.0 | 145 | 124.3 | 74.7 | 205 | 175.7 | 105.9 | 265 | 227.1 | 139.6 | 325 | 278.6 | 187.4 | 386 | 339.0 | 199.3 | 445 | 381.4 | 229.2 |
| 26 | 22.3 | 13.4 | 89 | 73.7 | 44.3 | 148 | 125.1 | 75.2 | 209 | 178.6 | 108.1 | 266 | 228.0 | 137.0 | 326 | 279.4 | 167.9 | 386 | 330.9 | 188.8 | 446 | 382.3 | 229.7 |
| 27 | 23.1 | 13.2 | 87 | 74.6 | 44.9 | 147 | 126.8 | 75.7 | 207 | 177.4 | 109.6 | 267 | 220.8 | 137.5 | 327 | 280.3 | 180.4 | 387 | 331.7 | 188.3 | 447 | 383.2 | 238.2 |
| 28 | 24.0 | 14.4 | 80 | 75.4 | 46.3 | 148 | 128.9 | 78.2 | 208 | 179.3 | 107.1 | 268 | 229.7 | 138.0 | 328 | 201.2 | 168.9 | 388 | 332.6 | 199.8 | 448 | 3·4.0 | 230.7 |
| 29 | 24.9 | 14.9 | 09 | 76.3 | 45.8 | 149 | 127.7 | 76.7 | 209 | 179.1 | 187.6 | 269 | 230.8 | 130.5 | 329 | 282.8 | 169.6 | 389 | 333.4 | 289.4 | 149 | 384.9 | 231.3 |
| 30 | 25.7 | 15.5 | 90 | 77.1 | 46.4 | 159 | 128.9 | 77.3 | 218 | 198.9 | 188.2 | 270 | 231.4 | 139.1 | 330 | 282.9 | 170.0 | 390 | 334.3 | 200.9 | 450 | 306.7 | 231.8 |
| 31 | 26.6 | 18.0 | 91 | 78.8 | 46.9 | 151 | 129.4 | 77.9 | 211 | 190.9 | 108.7 | 271 | 232.3 | 139.6 | 331 | 283.7 | 170.5 | 391 | 335.2 | 201.4 | 451 | 386.9 | 232.3 |
| 32 | 27.4 | 16.5 | 92 | 70.9 | 47.4 | 152 | 130.3 | 78.3 | 212 | 191.7 | 109.2 | 272 | 233.1 | 148.1 | 332 | 204.6 | 171.0 | 392 | 336.0 | 201.9 | 452 | 387.4 | 232.9 |
| 33 | 28.3 | 17.0 | 93 | 79.7 | 47.9 | 153 | 131.1 | 70.9 | 210 | 192.6 | 189.7 | 273 | 234.8 | 140.6 | 333 | 285.4 | 171.5 | 393 | 339.9 | 202.4 | 453 | 388.3 | 233.3 |
| 34 | 22.1 | 17.5 | 94 | 80.9 | 49.4 | 154 | 132.9 | 79.3 | 214 | 183.4 | 118.2 | 274 | 234.8 | 141.1 | 334 | 208.3 | 172.8 | 394 | 337.7 | 202.9 | 454 | 389.2 | 233.9 |
| 35 | 30.6 | 18.8 | 95 | 81.4 | 49.9 | 165 | 132.9 | 79.8 | 215 | 184.3 | 118.7 | 275 | 236.7 | 141.6 | 335 | 287.2 | 172.5 | 395 | 330.6 | 203.4 | 456 | 396.0 | 234.3 |
| 36 | 38.9 | 19.5 | 96 | 82.3 | 49.4 | 156 | 133.7 | 89.3 | 216 | 185.1 | 111.2 | 276 | 239.6 | 142.2 | 338 | 269.0 | 173.1 | 396 | 339.4 | 204.9 | 466 | 399.9 | 234.9 |
| 37 | 31.7 | 19.1 | 97 | 83.1 | 58.9 | 157 | 134.6 | 80.9 | 217 | 188.0 | 111.8 | 277 | 237.4 | 142.7 | 337 | 289.9 | 173.6 | 397 | 349.3 | 204.5 | 457 | 391.7 | 235.4 |
| 30 | 32.6 | 19.6 | 99 | 84.0 | 58.5 | 158 | 135.4 | 81.4 | 219 | 189.9 | 112.3 | 279 | 236.3 | 143.2 | 330 | 289.7 | 174.1 | 398 | 341.2 | 205.0 | 458 | 392.6 | 235.8 |
| 39 | 33.4 | 20.1 | 99 | 84.9 | 51.9 | 159 | 136.3 | 81.9 | 219 | 197.7 | 112.0 | 279 | 239.1 | 143.7 | 339 | 228.8 | 174.6 | 399 | 342.8 | 285.5 | 452 | 393.4 | 238.4 |
| 40 | 34.3 | 20.6 | 108 | 85.7 | 51.5 | 160 | 137.1 | 82.4 | 220 | 188.6 | 113.3 | 200 | 248.8 | 144.2 | 340 | 281.4 | 176.1 | 408 | 342.9 | 206.0 | 460 | 394.3 | 236.9 |
| 41 | 35.1 | 21.1 | 101 | 86.8 | 52.9 | 161 | 139.9 | 82.9 | 221 | 189.4 | 113.8 | 281 | 248.8 | 144.7 | 341 | 222.3 | 175.6 | 391 | 343.7 | 206.5 | 461 | 395.2 | 237.4 |
| 42 | 36.9 | 21.9 | 102 | 87.4 | 52.6 | 162 | 138.9 | 83.4 | 222 | 199.3 | 114.3 | 282 | 241.7 | 145.2 | 342 | 293.2 | 176.1 | 402 | 344.6 | 287.0 | 462 | 399.0 | 236.9 |
| 43 | 38.9 | 22.1 | 103 | 88.3 | 53.0 | 163 | 138.7 | 84.8 | 223 | 191.2 | 114.9 | 203 | 242.6 | 145.0 | 343 | 294.8 | 176.7 | 493 | 345.4 | 267.6 | 463 | 396.9 | 238.5 |
| 41 | 37.7 | 22.7 | 104 | 99.1 | 53.9 | 164 | 148.6 | 84.5 | 224 | 192.0 | 115.4 | 284 | 243.4 | 148.3 | 344 | 294.9 | 177.2 | 194 | 346.3 | 208.1 | 484 | 397.7 | 239.9 |
| 45 | 36.6 | 23.2 | 105 | 98.9 | 54.1 | 165 | 141.4 | 86.8 | 225 | 192.9 | 115.9 | 285 | 244.3 | 146.0 | 316 | 296.7 | 177.7 | 495 | 347.2 | 206.6 | 485 | 398.6 | 239.5 |
| 46 | 39.4 | 23.7 | 109 | 90.9 | 54.6 | 166 | 112.3 | 85.5 | 229 | 183.7 | 116.4 | 298 | 245.1 | 147.3 | 346 | 299.6 | 170.2 | 106 | 318.0 | 289.1 | 486 | 399.4 | 249.8 |
| 47 | 49.3 | 24.2 | 107 | 81.7 | 55.1 | 167 | 143.1 | 86.9 | 227 | 194.9 | 119.9 | 207 | 249.9 | 147.9 | 347 | 297.4 | 176.7 | 407 | 340.9 | 209.6 | 487 | 508.3 | 246.6 |
| 48 | 41.1 | 24.7 | 109 | 92.6 | 55.6 | 168 | 144.9 | 66.5 | 229 | 195.4 | 117.4 | 298 | 246.9 | 148.3 | 349 | 290.3 | 179.2 | 408 | 348.7 | 210.1 | 499 | 401.2 | 241.0 |
| 49 | 42.0 | 20.2 | 189 | 93.4 | 56.1 | 199 | 144.9 | 97.0 | 229 | 196.3 | 117.9 | 299 | 247.7 | 148.9 | 349 | 299.2 | 179.6 | 409 | 350.6 | 210.7 | 469 | 402.9 | 241.5 |
| 50 | 42.9 | 25.9 | 110 | 84.3 | 56.7 | 179 | 145.7 | 87.8 | 239 | 187.1 | 119.5 | 290 | 249.6 | 149.4 | 359 | 398.0 | 190.3 | 419 | 361.4 | 211.9 | 470 | 402.9 | 242.1 |
| 51 | 43.7 | 26.3 | 111 | 95.1 | 67.2 | 171 | 146.9 | 69.1 | 231 | 199.0 | 119.9 | 221 | 249.4 | 149.9 | 351 | 300.8 | 108.8 | 411 | 352.3 | 211.7 | 471 | 403.7 | 242.6 |
| 52 | 44.6 | 28.8 | 112 | 99.9 | 57.7 | 172 | 147.4 | 60.6 | 232 | 199.9 | 118.5 | 292 | 250.3 | 150.4 | 352 | 381.7 | 181.3 | 412 | 353.2 | 212.2 | 472 | 484.6 | 243.1 |
| 53 | 45.4 | 27.3 | 113 | 89.9 | 58.2 | 173 | 148.3 | 69.1 | 233 | 189.7 | 129.0 | 293 | 251.2 | 159.9 | 353 | 302.9 | 191.9 | 413 | 354.0 | 212.7 | 473 | 405.4 | 243.6 |
| 54 | 49.3 | 27.9 | 114 | 97.7 | 50.7 | 174 | 149.1 | 99.8 | 234 | 206.6 | 129.5 | 284 | 252.0 | 151.4 | 354 | 383.4 | 162.3 | 414 | 354.9 | 213.2 | 474 | 106.3 | 244.1 |
| 56 | 47.1 | 20.3 | 115 | 99.6 | 59.2 | 175 | 150.9 | 99.1 | 236 | 291.4 | 121.0 | 296 | 252.9 | 161.9 | 355 | 301.3 | 182.8 | 415 | 355 7 | 213.7 | 475 | 497.2 | 244.6 |
| 59 | 48.0 | 20.9 | 119 | 99.4 | 59.7 | 176 | 150.9 | 90.6 | 236 | 292.3 | 121.6 | 299 | 253.7 | 152.5 | 359 | 305.2 | 193.4 | 416 | 356.9 | 214.3 | 476 | 408.0 | 240.2 |
| 57 | 40.9 | 29.4 | 117 | 190.3 | 86.3 | 177 | 151.7 | 91.2 | 237 | 263.1 | 122.1 | 297 | 254.9 | 153.0 | 367 | 308.9 | 193.9 | 417 | 357.4 | 214.9 | 477 | 409.9 | 245.7 |
| 58 | 49.7 | 29.9 | 118 | 101.1 | 86.8 | 178 | 152.6 | 91.7 | 238 | 264.9 | 122.9 | 299 | 256.4 | 153.6 | 359 | 306.9 | 104.4 | 419 | 359.3 | 215.3 | 478 | 409.7 | 246.2 |
| 59 | 50.9 | 38.4 | 119 | 192.9 | 61.3 | 179 | 153.4 | 92.2 | 239 | 294.9 | 123.1 | 299 | 256.3 | 164.9 | 369 | 387.7 | 184.9 | 119 | 359.2 | 215.8 | 479 | 419.8 | 249.7 |
| 69 | 51.4 | 30.9 | 129 | 102.9 | 61.9 | 180 | 154.3 | 92.7 | 240 | 295.7 | 123.6 | 399 | 257.1 | 154.6 | 390 | 399.6 | 195.4 | 429 | 399.9 | 218.3 | 480 | 411.4 | 247.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 56.m Para 59 grados. 8.h 4.m

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.h 8.m — Para 32 grados. — 9.h 52.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.5 | 61 | 51.7 | 32.3 | 121 | 102.6 | 64.1 | 181 | 153.5 | 95.9 | 241 | 204.4 | 127.7 | 301 | 255.3 | 159.5 | 361 | 306.2 | 191.3 | 421 | 357.0 | 225.1 |
| 2 | 01.7 | 01.1 | 62 | 52.6 | 32.9 | 122 | 103.5 | 64.7 | 182 | 154.3 | 96.4 | 242 | 205.2 | 128.2 | 302 | 256.1 | 160.0 | 362 | 307.0 | 191.8 | 422 | 357.9 | 223.6 |
| 3 | 02.5 | 01.6 | 63 | 53.4 | 33.4 | 123 | 104.3 | 65.2 | 183 | 155.2 | 97.0 | 243 | 206.1 | 128.8 | 303 | 257.0 | 160.5 | 363 | 307.9 | 192.3 | 423 | 358.7 | 224.1 |
| 4 | 03.4 | 02.1 | 64 | 54.3 | 33.9 | 124 | 165.2 | 65.7 | 184 | 156.0 | 97.5 | 244 | 206.9 | 129.3 | 304 | 257.8 | 161.1 | 364 | 308.7 | 192.9 | 424 | 359.6 | 224.7 |
| 6 | 04.2 | 02.6 | 65 | 55.1 | 34.4 | 125 | 166.6 | 66.2 | 185 | 156.9 | 98.6 | 245 | 207.8 | 129.8 | 305 | 258.7 | 161.6 | 365 | 369.5 | 123.4 | 425 | 360.4 | 225.2 |
| 6 | 05.1 | 63.2 | 66 | 66.0 | 35.0 | 126 | 106.9 | 66.8 | 186 | 157.7 | 98.6 | 246 | 208.6 | 130.4 | 306 | 259.5 | 162.1 | 366 | 310.4 | 123.9 | 426 | 381.2 | 225.7 |
| 7 | 05.2 | 03.7 | 67 | 56.8 | 35.5 | 127 | 107.7 | 67.3 | 187 | 158.6 | 99.1 | 247 | 209.5 | 130.9 | 307 | 260.4 | 162.7 | 367 | 311.2 | 194.5 | 427 | 562.1 | 226.5 |
| 6 | 06.8 | 04.2 | 68 | 67.7 | 36.0 | 128 | 108.6 | 67.8 | 188 | 159.4 | 99.6 | 248 | 216.3 | 131.4 | 308 | 261.2 | 163.2 | 368 | 512.1 | 195.0 | 428 | 363.0 | 226.8 |
| 9 | 07.6 | 64.8 | 69 | 58.5 | 36.6 | 129 | 109.4 | 68.4 | 189 | 160.3 | 100.2 | 219 | 211.2 | 131.9 | 302 | 262.1 | 163.7 | 369 | 312.9 | 125.6 | 429 | 363.8 | 227.3 |
| 10 | 08.5 | 65.3 | 70 | 59.4 | 37.1 | 130 | 110.2 | 68.9 | 196 | 161.1 | 100.7 | 250 | 212.6 | 132.5 | 310 | 262.9 | 164.3 | 370 | 313.8 | 196.0 | 430 | 364.7 | 227.8 |
| 11 | 09.3 | 65.8 | 71 | 60.2 | 37.6 | 131 | 111.1 | 69.4 | 191 | 162.0 | 101.2 | 251 | 212.9 | 133.0 | 311 | 263.8 | 164.8 | 371 | 314.6 | 196.6 | 431 | 365.5 | 228.4 |
| 12 | 16.2 | 06.4 | 72 | 61.1 | 38.2 | 132 | 111.9 | 69.9 | 192 | 162.8 | 101.7 | 252 | 213.7 | 133.5 | 312 | 264.6 | 165.3 | 372 | 315.5 | 197.1 | 432 | 366.4 | 226.9 |
| 13 | 11.0 | 06.9 | 73 | 61.9 | 38.7 | 133 | 112.8 | 70.5 | 193 | 165.7 | 102.5 | 253 | 214.6 | 154.1 | 313 | 265.4 | 166.8 | 373 | 316.3 | 197.6 | 433 | 367.2 | 229.4 |
| 14 | 11.9 | 07.4 | 74 | 62.8 | 39.2 | 134 | 113.7 | 71.0 | 194 | 164.6 | 102.8 | 254 | 215.4 | 134.6 | 314 | 266.3 | 166.4 | 574 | 317.2 | 198.2 | 434 | 368.1 | 230.0 |
| 15 | 12.7 | 07.2 | 75 | 63.6 | 39.7 | 135 | 114.6 | 71.5 | 195 | 165.4 | 103.3 | 255 | 216.3 | 135.1 | 515 | 267.1 | 166.9 | 375 | 318.0 | 198.7 | 435 | 568.9 | 230.5 |
| 16 | 13.6 | 66.5 | 76 | 64.5 | 40.3 | 136 | 115.3 | 72.1 | 196 | 166.2 | 103.9 | 256 | 217.1 | 135.7 | 316 | 268.0 | 167.4 | 376 | 318.9 | 199.2 | 436 | 369.8 | 231.0 |
| 17 | 14.4 | 09.0 | 77 | 65.3 | 40.8 | 137 | 116.2 | 72.6 | 197 | 167.1 | 104.4 | 257 | 217.9 | 136.2 | 317 | 268.8 | 168.0 | 377 | 319.7 | 199.8 | 437 | 376.6 | 231.6 |
| 18 | 15.3 | 09.5 | 78 | 66.1 | 41.5 | 138 | 117.0 | 73.1 | 198 | 167.9 | 104.9 | 258 | 218.8 | 136.7 | 318 | 269.7 | 168.6 | 378 | 320.6 | 200.3 | 438 | 371.6 | 252.1 |
| 19 | 16.1 | 10.1 | 79 | 67.6 | 41.9 | 139 | 117.9 | 73.7 | 199 | 168.8 | 165.5 | 259 | 219.6 | 137.2 | 319 | 270.5 | 169.0 | 379 | 321.4 | 200.8 | 459 | 372.3 | 232.6 |
| 20 | 17.0 | 16.6 | 80 | 67.8 | 42.4 | 140 | 118.7 | 74.2 | 200 | 169.6 | 106.0 | 260 | 220.5 | 137.8 | 320 | 271.4 | 169.6 | 380 | 322.3 | 201.5 | 440 | 373.2 | 253.1 |
| 21 | 17.8 | 11.1 | 81 | 68.7 | 42.9 | 141 | 119.6 | 74.7 | 201 | 170.5 | 106.5 | 261 | 221.3 | 138.3 | 321 | 272.2 | 170.1 | 381 | 323.1 | 201.9 | 441 | 374.0 | 233.7 |
| 22 | 18.7 | 11.7 | 82 | 69.5 | 43.5 | 142 | 120.4 | 75.2 | 202 | 171.3 | 167.0 | 262 | 222.2 | 138.8 | 322 | 273.1 | 170.6 | 382 | 324.0 | 262.4 | 442 | 374.8 | 234.2 |
| 25 | 19.5 | 12.2 | 83 | 70.4 | 44.0 | 143 | 121.3 | 75.8 | 205 | 172.2 | 167.6 | 263 | 223.0 | 139.4 | 123 | 273.9 | 171.1 | 383 | 324.6 | 202.9 | 443 | 375.7 | 234.7 |
| 24 | 20.4 | 12.7 | 84 | 71.2 | 44.5 | 144 | 122.1 | 76.5 | 204 | 173.0 | 108.1 | 264 | 223.2 | 159.9 | 324 | 274.8 | 171.7 | 384 | 325.7 | 203.5 | 444 | 376.5 | 235.3 |
| 25 | 21.2 | 13.2 | 85 | 72.1 | 45.0 | 145 | 123.0 | 76.8 | 295 | 173.8 | 108.6 | 265 | 224.7 | 140.4 | 325 | 275.6 | 172.2 | 385 | 326.5 | 204.0 | 445 | 377.4 | 235.8 |
| 26 | 22.0 | 13.8 | 86 | 72.9 | 45.6 | 146 | 123.8 | 77.4 | 206 | 174.7 | 109.2 | 266 | 225.6 | 141.0 | 326 | 276.5 | 172.7 | 386 | 527.4 | 201.5 | 446 | 378.2 | 236.3 |
| 27 | 22.9 | 14.3 | 87 | 73.8 | 46.1 | 147 | 124.7 | 77.9 | 207 | 175.5 | 109.7 | 267 | 226.4 | 141.5 | 327 | 277.3 | 173.3 | 387 | 328.2 | 205.1 | 447 | 379.1 | 236.9 |
| 28 | 23.7 | 14.8 | 88 | 74.6 | 46.6 | 148 | 125.5 | 78.4 | 208 | 176.4 | 110.2 | 268 | 227.3 | 142.0 | 328 | 278.2 | 173.8 | 388 | 329.1 | 205.6 | 448 | 379.9 | 257.4 |
| 29 | 24.6 | 15.4 | 89 | 75.5 | 47.2 | 149 | 126.4 | 72.0 | 209 | 177.2 | 110.8 | 269 | 228.1 | 142.6 | 329 | 279.0 | 174.3 | 389 | 329.9 | 206.1 | 449 | 380.8 | 237.9 |
| 30 | 25.4 | 15.9 | 90 | 76.3 | 47.7 | 150 | 127.2 | 79.6 | 210 | 176.1 | 111.5 | 276 | 229.6 | 143.1 | 336 | 279.9 | 174.9 | 390 | 336.8 | 206.6 | 450 | 381.6 | 236.4 |
| 31 | 26.3 | 16.4 | 91 | 77.2 | 48.2 | 151 | 128.1 | 80.0 | 211 | 178.2 | 111.8 | 271 | 229.8 | 143.6 | 351 | 280.7 | 175.4 | 391 | 331.6 | 207.2 | 451 | 382.6 | 239.0 |
| 32 | 27.1 | 17.0 | 92 | 78.0 | 48.8 | 152 | 128.9 | 80.5 | 212 | 179.8 | 112.5 | 272 | 230.7 | 144.1 | 332 | 281.6 | 175.9 | 392 | 332.5 | 207.7 | 452 | 383.3 | 239.5 |
| 33 | 28.0 | 17.5 | 93 | 78.9 | 49.3 | 153 | 129.8 | 81.1 | 213 | 180.6 | 112.9 | 273 | 231.5 | 144.7 | 333 | 282.4 | 176.4 | 393 | 333.3 | 208.2 | 453 | 564.2 | 210.0 |
| 34 | 28.8 | 18.0 | 94 | 79.7 | 49.8 | 154 | 130.6 | 81.6 | 214 | 181.5 | 113.4 | 274 | 232.4 | 145.2 | 334 | 283.3 | 177.0 | 394 | 334.2 | 208.8 | 454 | 385.0 | 240.6 |
| 35 | 29.7 | 18.5 | 95 | 80.6 | 50.3 | 155 | 131.4 | 82.1 | 215 | 182.3 | 113.9 | 275 | 233.2 | 145.7 | 335 | 284.1 | 177.5 | 395 | 335.0 | 209.3 | 455 | 385.9 | 241.1 |
| 36 | 30.5 | 19.1 | 96 | 81.4 | 50.9 | 156 | 132.5 | 82.7 | 216 | 185.2 | 114.5 | 276 | 234.1 | 146.3 | 336 | 285.0 | 176.0 | 396 | 335.8 | 209.8 | 456 | 386.7 | 241.6 |
| 37 | 31.4 | 19.6 | 97 | 82.3 | 61.4 | 157 | 133.1 | 83.2 | 217 | 184.0 | 115.0 | 277 | 254.9 | 146.8 | 337 | 285.8 | 178.6 | 397 | 336.7 | 210.4 | 457 | 387.6 | 242.2 |
| 38 | 32.2 | 20.1 | 98 | 83.1 | 61.9 | 158 | 134.0 | 83.7 | 218 | 184.9 | 115.5 | 278 | 255.8 | 147.3 | 338 | 286.7 | 179.1 | 398 | 337.5 | 210.9 | 458 | 388.4 | 242.7 |
| 39 | 33.1 | 20.7 | 99 | 84.0 | 52.5 | 159 | 154.8 | 84.3 | 219 | 185.7 | 116.1 | 279 | 236.6 | 147.8 | 339 | 287.5 | 179.6 | 399 | 338.4 | 211.4 | 459 | 589.3 | 243.2 |
| 40 | 33.9 | 21.2 | 100 | 84.8 | 65.0 | 160 | 135.7 | 81.8 | 220 | 186.6 | 116.6 | 280 | 237.5 | 148.4 | 316 | 288.3 | 180.2 | 400 | 359.2 | 211.9 | 460 | 390.1 | 243.8 |
| 41 | 34.8 | 21.7 | 101 | 85.7 | 53.5 | 161 | 136.5 | 85.3 | 221 | 187.4 | 117.1 | 281 | 238.3 | 148.9 | 541 | 289.2 | 180.7 | 401 | 340.1 | 212.5 | 461 | 391.0 | 244.3 |
| 42 | 35.6 | 22.5 | 102 | 86.5 | 54.1 | 162 | 137.4 | 85.8 | 222 | 188.3 | 117.6 | 282 | 259.1 | 149.4 | 342 | 290.0 | 181.2 | 402 | 340.9 | 213.0 | 462 | 391.8 | 244.8 |
| 43 | 36.5 | 22.8 | 103 | 87.3 | 64.6 | 163 | 138.2 | 86.4 | 225 | 189.1 | 118.2 | 283 | 240.0 | 150.0 | 343 | 290.9 | 181.7 | 403 | 341.8 | 213.5 | 463 | 392.7 | 245.4 |
| 44 | 37.3 | 25.3 | 104 | 88.2 | 55.1 | 164 | 159.1 | 86.9 | 224 | 190.0 | 118.7 | 284 | 240.8 | 150.6 | 344 | 291.7 | 182.3 | 404 | 342.6 | 214.1 | 464 | 393.5 | 245.9 |
| 45 | 38.2 | 23.8 | 105 | 89.0 | 55.6 | 165 | 139.9 | 67.4 | 225 | 190.8 | 119.2 | 285 | 241.7 | 151.0 | 345 | 292.6 | 182.8 | 405 | 343.5 | 214.6 | 465 | 394.4 | 246.4 |
| 46 | 39.6 | 24.4 | 106 | 89.9 | 66.2 | 166 | 140.8 | 88.0 | 226 | 191.7 | 119.8 | 286 | 242.6 | 151.6 | 346 | 293.4 | 183.3 | 406 | 344.3 | 215.1 | 466 | 395.2 | 246.9 |
| 47 | 39.9 | 24.9 | 107 | 90.7 | 56.7 | 167 | 141.6 | 88.5 | 227 | 192.5 | 120.3 | 287 | 243.4 | 152.1 | 347 | 294.3 | 185.9 | 467 | 545.2 | 215.7 | 467 | 496.0 | 247.5 |
| 48 | 40.7 | 25.4 | 108 | 91.6 | 57.2 | 166 | 142.5 | 89.0 | 228 | 193.4 | 120.8 | 288 | 244.2 | 152.6 | 348 | 295.1 | 184.4 | 406 | 346.0 | 216.2 | 468 | 396.9 | 248.6 |
| 49 | 41.6 | 26.0 | 109 | 92.4 | 57.8 | 169 | 143.3 | 89.6 | 229 | 194.2 | 121.4 | 289 | 245.1 | 153.1 | 349 | 296.6 | 184.9 | 402 | 346.9 | 216.7 | 469 | 397.7 | 218.5 |
| 50 | 42.4 | 26.5 | 110 | 93.2 | 68.3 | 176 | 144.2 | 90.1 | 230 | 195.1 | 121.9 | 290 | 245.9 | 153.7 | 350 | 296.8 | 185.4 | 410 | 347.7 | 217.2 | 470 | 398.6 | 249.0 |
| 51 | 43.3 | 27.0 | 111 | 94.1 | 58.8 | 171 | 143.0 | 90.6 | 231 | 195.9 | 122.4 | 291 | 246.8 | 154.2 | 351 | 297.7 | 186.0 | 411 | 348.6 | 217.8 | 471 | 399.4 | 249.6 |
| 52 | 44.1 | 27.6 | 112 | 96.6 | 69.4 | 172 | 145.2 | 91.1 | 232 | 196.7 | 122.9 | 292 | 247.6 | 154.7 | 352 | 298.5 | 186.6 | 412 | 349.4 | 218.3 | 472 | 400.3 | 250.1 |
| 53 | 44.9 | 28.1 | 113 | 95.8 | 69.9 | 173 | 146.7 | 91.7 | 233 | 197.6 | 123.5 | 293 | 248.6 | 155.3 | 353 | 229.4 | 187.0 | 413 | 350.3 | 218.8 | 473 | 461.1 | 250.6 |
| 64 | 45.8 | 28.6 | 114 | 96.7 | 60.4 | 174 | 147.6 | 92.2 | 254 | 198.4 | 124.0 | 294 | 249.3 | 155.8 | 354 | 500.2 | 187.6 | 414 | 351.1 | 219.4 | 474 | 402.0 | 251.2 |
| 65 | 46.6 | 29.1 | 115 | 97.5 | 60.9 | 175 | 148.4 | 92.7 | 235 | 199.5 | 124.5 | 295 | 256.2 | 156.5 | 355 | 301.1 | 188.1 | 415 | 352.0 | 219.9 | 475 | 402.8 | 251.7 |
| 66 | 47.5 | 29.7 | 116 | 98.4 | 61.5 | 176 | 149.5 | 93.3 | 236 | 200.1 | 125.1 | 296 | 251.0 | 156.9 | 356 | 301.9 | 188.6 | 416 | 352.8 | 226.4 | 476 | 403.7 | 252.2 |
| 67 | 48.3 | 30.2 | 117 | 99.2 | 62.0 | 177 | 150.1 | 95.8 | 237 | 201.0 | 125.6 | 297 | 251.2 | 167.4 | 357 | 302.8 | 189.2 | 417 | 553.6 | 221.0 | 477 | 404.5 | 252.8 |
| 68 | 49.2 | 30.7 | 118 | 100.1 | 62.5 | 178 | 151.0 | 94.3 | 238 | 201.8 | 126.1 | 298 | 252.7 | 157.9 | 358 | 303.6 | 189.7 | 418 | 354.6 | 221.5 | 478 | 465.4 | 253.3 |
| 69 | 50.0 | 31.3 | 119 | 106.9 | 63.1 | 179 | 151.8 | 91.9 | 239 | 202.7 | 126.7 | 299 | 253.6 | 158.4 | 359 | 304.5 | 190.2 | 419 | 355.3 | 222.0 | 479 | 406.2 | 253.8 |
| 60 | 60.9 | 31.8 | 120 | 101.8 | 63.6 | 180 | 152.6 | 95.4 | 240 | 203.5 | 127.2 | 300 | 254.4 | 159.0 | 360 | 305.3 | 190.8 | 420 | 356.2 | 222.5 | 480 | 407.1 | 254.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 52.m — Para 58 grados. — 8.h 8.m

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 12.ᵐ Para 33 grados. 9.ʰ 48.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 88.8 | 08.5 | 61 | 51.2 | 33.2 | 121 | 101.5 | 55.9 | 181 | 151.5 | 98.6 | 211 | 202.1 | 131.3 | 301 | 252.4 | 163.9 | 361 | 302.8 | 196.5 | 421 | 353.1 | 229.3 |
| 2 | 01.7 | 81.1 | 62 | 52.0 | 33.8 | 122 | 102.3 | 60.4 | 182 | 152.5 | 99.1 | 242 | 203.0 | 131.8 | 302 | 253.3 | 164.4 | 362 | 503.6 | 127.1 | 422 | 353.9 | 229.8 |
| 3 | 02.5 | 01.8 | 53 | 52.8 | 34.3 | 123 | 103.2 | 57.0 | 183 | 153.5 | 99.7 | 243 | 203.5 | 132.3 | 383 | 254.1 | 155.5 | 383 | 304.4 | 197.7 | 423 | 354.7 | 230.4 |
| 4 | 03.4 | 02.2 | 54 | 53.7 | 34.9 | 124 | 104.0 | 57.5 | 181 | 154.3 | 100.2 | 244 | 204.6 | 132.9 | 504 | 255.0 | 165.5 | 364 | 305.3 | 198.2 | 124 | 355.6 | 230.9 |
| 5 | 04.2 | 02.7 | 55 | 54.5 | 35.4 | 125 | 104.8 | 68.1 | 185 | 155.2 | 150.8 | 245 | 205.5 | 133.4 | 305 | 255.8 | 165.1 | 365 | 306.1 | 128.8 | 425 | 556.4 | 231.4 |
| 6 | 05.8 | 03.3 | 56 | 55.4 | 35.9 | 128 | 155.7 | 68.8 | 186 | 156.0 | 101.3 | 246 | 205.3 | 134.0 | 305 | 255.5 | 185.6 | 386 | 307.5 | 122.5 | 426 | 357.3 | 232.0 |
| 7 | 05.9 | 03.8 | 57 | 56.9 | 36.5 | 127 | 106.5 | 69.2 | 187 | 156.8 | 101.8 | 247 | 207.2 | 134.8 | 307 | 257.5 | 167.2 | 367 | 307.8 | 199.8 | 127 | 356.1 | 232.5 |
| 8 | 06.7 | 04.4 | 68 | 57.0 | 37.0 | 128 | 107.3 | 62.7 | 188 | 157.7 | 102.4 | 248 | 208.0 | 135.1 | 308 | 258.5 | 167.7 | 368 | 308.6 | 200.4 | 126 | 359.0 | 233.1 |
| 9 | 57.5 | 54.9 | 62 | 87.9 | 37.6 | 129 | 106.2 | 70.3 | 189 | 158.5 | 182.9 | 249 | 208.8 | 135.6 | 309 | 259.2 | 155.3 | 369 | 302.5 | 200.9 | 429 | 352.8 | 233.5 |
| 10 | 08.4 | 85.4 | 70 | 58.7 | 36.1 | 130 | 109.0 | 70.8 | 120 | 159.3 | 153.5 | 250 | 259.7 | 136.2 | 315 | 260.0 | 155.8 | 370 | 310.3 | 251.8 | 130 | 360.6 | 234.2 |
| 11 | 09.2 | 06.8 | 71 | 59.5 | 38.7 | 131 | 109.9 | 71.3 | 191 | 160.2 | 104.0 | 251 | 210.5 | 136.7 | 311 | 260.8 | 189.3 | 371 | 311.2 | 202.0 | 431 | 361.5 | 234.7 |
| 12 | 18.1 | 06.8 | 72 | 60.4 | 39.2 | 132 | 115.7 | 71.9 | 192 | 161.0 | 104.5 | 252 | 211.3 | 137.2 | 312 | 281.7 | 189.9 | 372 | 312.0 | 202.8 | 432 | 382.3 | 255.2 |
| 13 | 10.9 | 07.1 | 73 | 61.2 | 32.8 | 135 | 111.5 | 72.4 | 193 | 161.9 | 105.1 | 253 | 212.2 | 137.8 | 313 | 262.5 | 170.4 | 373 | 312.8 | 203.1 | 433 | 363.1 | 235.5 |
| 14 | 11.7 | 07.6 | 74 | 62.1 | 40.3 | 134 | 112.4 | 73.0 | 124 | 162.7 | 105.7 | 251 | 213.0 | 138.3 | 314 | 283.3 | 171.0 | 374 | 313.7 | 203.7 | 434 | 364.0 | 236.3 |
| 15 | 12.0 | 08.2 | 75 | 62.9 | 40.8 | 135 | 113.2 | 73.3 | 195 | 163.5 | 106.2 | 255 | 913.9 | 138.2 | 315 | 264.2 | 171.5 | 375 | 314.8 | 204.2 | 435 | 364.8 | 235.9 |
| 16 | 13.4 | 58.7 | 76 | 63.7 | 41.4 | 136 | 114.1 | 74.1 | 196 | 184.4 | 106.7 | 256 | 214.7 | 139.4 | 315 | 265.0 | 172.1 | 376 | 315.3 | 204.7 | 436 | 365.7 | 237.4 |
| 17 | 14.3 | 89.3 | 77 | 54.6 | 41.9 | 137 | 114.2 | 74.8 | 197 | 165.2 | 107.3 | 257 | 215.8 | 140.0 | 317 | 265.9 | 172.6 | 377 | 315.2 | 255.3 | 437 | 366.5 | 238.0 |
| 18 | 15.1 | 09.8 | 78 | 65.4 | 49.5 | 138 | 115.7 | 75.2 | 198 | 168.1 | 107.8 | 258 | 216.4 | 140.8 | 318 | 266.7 | 173.2 | 378 | 317.0 | 205.8 | 438 | 367.3 | 238.5 |
| 19 | 15.9 | 10.3 | 72 | 66.3 | 45.0 | 139 | 116.6 | 75.7 | 192 | 186.9 | 108.4 | 259 | 217.2 | 141.1 | 319 | 257.5 | 173.7 | 372 | 317.2 | 208.4 | 539 | 368.2 | 239.1 |
| 20 | 15.8 | 15.9 | 80 | 57.1 | 43.6 | 140 | 117.4 | 76.2 | 200 | 167.7 | 108.9 | 250 | 215.1 | 141.6 | 320 | 268.4 | 174.2 | 380 | 318.7 | 206.9 | 140 | 389.5 | 239.0 |
| 21 | 17.6 | 11.4 | 81 | 67.9 | 44.1 | 141 | 118.3 | 76.8 | 201 | 168.6 | 109.8 | 261 | 218.9 | 142.2 | 321 | 269.2 | 174.8 | 381 | 312.5 | 207.5 | 141 | 369.9 | 218.1 |
| 22 | 18.5 | 12.0 | 82 | 58.8 | 44.7 | 142 | 119.1 | 77.3 | 202 | 182.4 | 110.0 | 282 | 219.7 | 142.7 | 322 | 270.1 | 175.3 | 382 | 325.4 | 288.0 | 142 | 370.7 | 245.7 |
| 23 | 19.3 | 12.5 | 83 | 69.5 | 45.2 | 143 | 119.9 | 77.9 | 203 | 170.5 | 115.8 | 263 | 220.6 | 143.2 | 323 | 270.9 | 175.9 | 383 | 321.2 | 208.6 | 143 | 371.5 | 241.2 |
| 24 | 20.1 | 13.1 | 81 | 70.4 | 45.7 | 144 | 120.8 | 78.4 | 204 | 171.1 | 111.1 | 284 | 221.4 | 143.8 | 324 | 271.7 | 176.4 | 384 | 322.1 | 209.1 | 144 | 372.4 | 241.8 |
| 25 | 21.0 | 13.6 | 85 | 71.3 | 46.3 | 145 | 121.5 | 79.0 | 205 | 171.9 | 111.7 | 265 | 222.2 | 144.3 | 325 | 272.6 | 177.0 | 385 | 322.9 | 209.6 | 148 | 373.2 | 242.3 |
| 26 | 21.8 | 14.2 | 86 | 72.1 | 46.8 | 146 | 122.4 | 79.8 | 206 | 172.8 | 112.2 | 266 | 223.1 | 144.2 | 326 | 273.4 | 177.5 | 386 | 323.7 | 210.2 | 446 | 374.1 | 242.9 |
| 27 | 22.6 | 14.7 | 87 | 73.5 | 47.4 | 147 | 123.3 | 58.1 | 207 | 173.6 | 112.7 | 267 | 223.2 | 145.4 | 327 | 274.2 | 178.1 | 387 | 324.6 | 210.7 | 447 | 374.9 | 243.4 |
| 28 | 23.5 | 15.2 | 88 | 73.8 | 47.9 | 148 | 124.1 | 80.5 | 208 | 174.4 | 113.3 | 258 | 224.8 | 148.0 | 328 | 275.1 | 178.6 | 388 | 525.4 | 211.3 | 448 | 575.7 | 214.5 |
| 29 | 24.3 | 15.8 | 89 | 74.6 | 48.5 | 149 | 125.0 | 51.2 | 209 | 175.5 | 113.8 | 269 | 225.5 | 146.5 | 392 | 275.2 | 172.1 | 382 | 326.2 | 211.8 | 449 | 376.6 | 244.8 |
| 30 | 25.2 | 16.3 | 90 | 75.5 | 42.8 | 150 | 125.8 | 81.7 | 218 | 176.1 | 114.4 | 270 | 226.4 | 147.1 | 335 | 276.8 | 179.7 | 320 | 327.1 | 212.4 | 450 | 377.4 | 245.1 |
| 31 | 26.0 | 16.9 | 91 | 76.3 | 42.6 | 151 | 125.6 | 82.2 | 211 | 177.0 | 114.2 | 271 | 227.3 | 147.6 | 331 | 277.6 | 185.2 | 391 | 327.2 | 212.2 | 151 | 578.2 | 245.6 |
| 32 | 26.8 | 17.4 | 92 | 77.2 | 58.1 | 152 | 127.5 | 82.8 | 212 | 177.8 | 115.8 | 272 | 298.1 | 148.1 | 332 | 278.4 | 180.8 | 322 | 326.8 | 215.8 | 452 | 379.1 | 246.1 |
| 35 | 27.7 | 18.0 | 93 | 78.0 | 50.7 | 153 | 128.3 | 83.3 | 213 | 178.6 | 116.0 | 273 | 229.0 | 148.7 | 333 | 272.3 | 181 3 | 393 | 329.6 | 214.0 | 153 | 379.9 | 246.7 |
| 34 | 28.5 | 16.8 | 94 | 78.8 | 81.9 | 184 | 129.2 | 53.9 | 214 | 172.5 | 116.6 | 274 | 229.6 | 149.2 | 334 | 280.1 | 181.2 | 324 | 530.4 | 214.6 | 454 | 380.8 | 247.2 |
| 35 | 29.4 | 19.1 | 95 | 79.7 | 81.7 | 155 | 130.0 | 84.4 | 218 | 188.3 | 117.1 | 275 | 230.6 | 149.8 | 335 | 281.0 | 182.4 | 395 | 331.3 | 215.1 | 455 | 381.6 | 247.5 |
| 36 | 30.2 | 19.6 | 26 | 88.5 | 52.5 | 156 | 130.8 | 55.0 | 216 | 181.2 | 117.6 | 276 | 231.5 | 150.3 | 336 | 981.8 | 183.0 | 396 | 332.1 | 215.6 | 156 | 382.4 | 245.3 |
| 37 | 31.5 | 20.2 | 97 | 81.4 | 52.8 | 157 | 131.7 | 85.5 | 217 | 182.0 | 116.2 | 277 | 232.5 | 150.9 | 337 | 982.6 | 183.6 | 397 | 533.0 | 216.2 | 457 | 383.3 | 248.2 |
| 38 | 31.9 | 20.7 | 98 | 82.2 | 83.4 | 158 | 132.6 | 66.1 | 218 | 182.8 | 118.7 | 278 | 233.2 | 151.4 | 338 | 283.5 | 184.1 | 398 | 333.8 | 216.7 | 458 | 384.1 | 249.4 |
| 39 | 32.7 | 21.2 | 29 | 83.8 | 83.9 | 159 | 133.3 | 86.6 | 212 | 183.7 | 119.5 | 279 | 234.5 | 152.0 | 339 | 284.3 | 154.6 | 399 | 334.6 | 217.3 | 459 | 385.0 | 255.0 |
| 40 | 33.6 | 21.8 | 108 | 83.9 | 54.5 | 150 | 134.2 | 87.1 | 220 | 184.5 | 119.8 | 280 | 234.8 | 152.8 | 340 | 285.2 | 185 1 | 400 | 335.5 | 217.8 | 460 | 385.8 | 250.5 |
| 41 | 34.4 | 22.3 | 101 | 64.7 | 55.0 | 181 | 135.8 | 87.7 | 221 | 185.3 | 128.4 | 281 | 235.7 | 153.0 | 341 | 286.0 | 185.7 | 401 | 336.3 | 218.4 | 481 | 386.6 | 251.0 |
| 42 | 35.2 | 22.9 | 102 | 85.5 | 85.6 | 182 | 135.9 | 88.2 | 222 | 186.2 | 120.9 | 282 | 236.5 | 153.6 | 342 | 286.8 | 186.2 | 402 | 337.1 | 218.9 | 169 | 387.5 | 251.5 |
| 43 | 36.1 | 23.4 | 103 | 86.4 | 56.1 | 163 | 136.7 | 88.8 | 223 | 187.0 | 121.5 | 283 | 237.3 | 154.1 | 343 | 287.7 | 186.8 | 403 | 338.0 | 219.8 | 153 | 388.3 | 252.1 |
| 44 | 36.2 | 24.0 | 104 | 87.2 | 66.6 | 164 | 137.5 | 89.3 | 224 | 187.2 | 122.0 | 284 | 238.2 | 154.7 | 344 | 288.5 | 187.3 | 404 | 338.5 | 220.0 | 464 | 389.1 | 252.7 |
| 45 | 37.7 | 24.5 | 105 | 88.1 | 87.2 | 185 | 136.4 | 89.9 | 225 | 188.7 | 122.6 | 285 | 239.0 | 155.2 | 345 | 282.3 | 187.9 | 405 | 339.7 | 220.5 | 465 | 398.0 | 253.9 |
| 46 | 38.6 | 25.1 | 106 | 88.9 | 87.7 | 166 | 132.2 | 90.4 | 226 | 189.5 | 123.1 | 288 | 239.9 | 155.8 | 346 | 220.2 | 188.4 | 406 | 340.0 | 221.1 | 466 | 398.8 | 253.8 |
| 47 | 39.4 | 25.6 | 187 | 89.7 | 58.3 | 187 | 140.1 | 91.0 | 227 | 190.4 | 123.5 | 287 | 248.7 | 155.3 | 347 | 221.0 | 189.0 | 407 | 341.3 | 221.8 | 157 | 391.7 | 254.3 |
| 48 | 48.3 | 28.1 | 108 | 90.6 | 58.8 | 168 | 140.9 | 91.5 | 225 | 121.2 | 124.2 | 288 | 241.5 | 156.9 | 348 | 291.9 | 189.8 | 408 | 342.2 | 229.2 | 465 | 392.5 | 254.9 |
| 42 | 41.1 | 28.7 | 109 | 91.4 | 59.4 | 169 | 141.7 | 92.0 | 229 | 192.1 | 124.7 | 289 | 242.4 | 157.4 | 542 | 992.7 | 198.0 | 402 | 343.8 | 222.7 | 469 | 393.3 | 255.4 |
| 80 | 41.9 | 27.2 | 115 | 92.3 | 89.9 | 175 | 142.6 | 22.6 | 230 | 192.2 | 125.3 | 290 | 243.2 | 157.9 | 380 | 293.5 | 190.6 | 410 | 343.9 | 223.3 | 475 | 324.2 | 255.9 |
| 81 | 42.5 | 27.8 | 111 | 93.1 | 50.8 | 171 | 143.4 | 93.1 | 231 | 193.7 | 195.8 | 291 | 244.1 | 158.5 | 351 | 294.4 | 191.1 | 111 | 344.7 | 223.8 | 471 | 395.0 | 256.5 |
| 52 | 43.6 | 28.3 | 112 | 93.9 | 61.0 | 172 | 144.3 | 23.7 | 232 | 194.6 | 196.4 | 292 | 214.9 | 159.0 | 352 | 295.9 | 191.7 | 412 | 345.0 | 924.4 | 472 | 398.8 | 957.0 |
| 53 | 44.4 | 28.9 | 113 | 94.8 | 61.5 | 173 | 145.1 | 94.2 | 233 | 195.4 | 126.9 | 293 | 245.7 | 159.6 | 353 | 296.1 | 192.9 | 413 | 546.4 | 224.9 | 473 | 395.7 | 257.6 |
| 54 | 45.3 | 99.4 | 114 | 95.6 | 62.1 | 174 | 145.9 | 94.8 | 234 | 196.2 | 127.4 | 994 | 246.6 | 160.1 | 384 | 296.9 | 192.8 | 414 | 347.2 | 925.4 | 474 | 397.5 | 258.1 |
| 55 | 46.1 | 30.0 | 115 | 96.4 | 62.6 | 175 | 146.5 | 98.3 | 235 | 197.1 | 198.5 | 298 | 247.4 | 168.7 | 355 | 297.7 | 193.3 | 415 | 348.1 | 226.0 | 475 | 398.3 | 258.7 |
| 56 | 47.0 | 30.5 | 116 | 97.3 | 63.2 | 176 | 147.6 | 95.9 | 236 | 197.9 | 128.5 | 296 | 248.2 | 161.2 | 356 | 228.6 | 193.9 | 416 | 348.9 | 226.5 | 475 | 399.2 | 259.2 |
| 57 | 47.8 | 31.0 | 117 | 98.1 | 63.7 | 177 | 148.4 | 96.4 | 237 | 198.8 | 129.1 | 297 | 249.1 | 161.8 | 357 | 299.4 | 194.4 | 417 | 349.7 | 227.1 | 477 | 400.0 | 259.8 |
| 58 | 48.6 | 31.6 | 118 | 99.0 | 54.3 | 176 | 149.3 | 96.2 | 238 | 199.0 | 129.6 | 298 | 249.9 | 169.3 | 358 | 350.2 | 194.9 | 418 | 355.6 | 227.6 | 478 | 400.9 | 260.3 |
| 59 | 49.5 | 32.1 | 119 | 99.8 | 64.8 | 179 | 150.1 | 97.5 | 239 | 250.4 | 130.2 | 299 | 250.8 | 162.8 | 359 | 301.1 | 195 5 | 419 | 351.4 | 928.9 | 479 | 401.7 | 250.9 |
| 60 | 50.3 | 32.7 | 120 | 105.6 | 55.4 | 188 | 151.0 | 98.8 | 240 | 201.3 | 135.7 | 305 | 251.6 | 163.4 | 360 | 381.9 | 196.0 | 420 | 352.2 | 228.7 | 480 | 409.6 | 281.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 48.ᵐ Para 57 grados. 8.ʰ 12.ᵐ

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**TABLA XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

2.h 16.m **Para 34 grados.** 9.h 44.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 61 | 50.6 | 34.1 | 121 | 100.3 | 67.7 | 181 | 150.1 | 101.2 | 241 | 199.8 | 134.8 | 301 | 249.5 | 168.3 | 361 | 299.3 | 201.9 | 421 | 349.0 | 235.4 |
| 2 | 01.7 | 01.1 | 62 | 51.4 | 34.7 | 122 | 101.1 | 68.2 | 182 | 150.2 | 101.8 | 242 | 200.6 | 135.3 | 302 | 250.4 | 168.9 | 362 | 300.1 | 202.4 | 422 | 319.9 | 236.0 |
| 3 | 02.5 | 01.7 | 63 | 52.2 | 35.2 | 123 | 102.0 | 68.8 | 183 | 151.7 | 102.3 | 243 | 201.5 | 135.9 | 303 | 251.2 | 169.4 | 363 | 300.9 | 203.0 | 423 | 350.7 | 236.5 |
| 4 | 03.3 | 02.2 | 61 | 53.1 | 35.8 | 124 | 102.8 | 69.3 | 184 | 152.5 | 102.9 | 244 | 202.3 | 136.4 | 304 | 252.0 | 170.0 | 364 | 301.8 | 203.5 | 424 | 351.5 | 237.1 |
| 5 | 04.1 | 02.8 | 65 | 53.9 | 36.3 | 125 | 103.6 | 69.9 | 185 | 153.4 | 103.5 | 245 | 203.1 | 137.0 | 305 | 252.9 | 170.6 | 365 | 302.6 | 204.1 | 425 | 352.3 | 237.7 |
| 6 | 05.0 | 03.4 | 66 | 54.7 | 38.9 | 126 | 104.5 | 70.5 | 186 | 154.2 | 104.0 | 246 | 203.9 | 137.6 | 306 | 253.7 | 171.1 | 366 | 303.4 | 204.7 | 426 | 353.2 | 238.2 |
| 7 | 05.8 | 03.9 | 67 | 55.5 | 37.5 | 127 | 105.3 | 71.0 | 187 | 155.0 | 101.6 | 247 | 204.8 | 138.1 | 307 | 254.5 | 171.7 | 367 | 304.3 | 205.2 | 427 | 354.0 | 238.8 |
| 8 | 06.6 | 04.5 | 68 | 56.4 | 38.0 | 128 | 106.1 | 71.6 | 188 | 155.9 | 105.1 | 248 | 205.5 | 138.7 | 308 | 255.3 | 172.2 | 368 | 305.1 | 205.8 | 428 | 351.8 | 239.3 |
| 9 | 07.5 | 05.0 | 69 | 57.2 | 38.6 | 129 | 106.9 | 72.1 | 189 | 156.7 | 105.7 | 249 | 205.4 | 139.2 | 309 | 256.2 | 172.8 | 369 | 305.9 | 206.3 | 429 | 355.7 | 239.9 |
| 10 | 08.3 | 05.6 | 70 | 58.0 | 39.1 | 130 | 107.8 | 72.7 | 190 | 157.5 | 106.2 | 250 | 207.3 | 139.8 | 310 | 257.0 | 173.3 | 370 | 306.7 | 208.9 | 430 | 356.5 | 240.4 |
| 11 | 09.1 | 06.2 | 71 | 58.9 | 39.7 | 131 | 108.6 | 73.3 | 191 | 158.3 | 106.8 | 251 | 208.1 | 140.4 | 311 | 257.8 | 173.9 | 371 | 307.8 | 207.5 | 431 | 357.3 | 241.0 |
| 12 | 09.9 | 06.7 | 72 | 59.7 | 40.3 | 132 | 109.4 | 73.8 | 192 | 159.2 | 107.4 | 252 | 208.9 | 140.9 | 312 | 258.7 | 174.5 | 372 | 308.4 | 208.0 | 432 | 358.1 | 241.6 |
| 13 | 10.8 | 07.3 | 73 | 60.5 | 40.8 | 133 | 110.3 | 74.4 | 193 | 160.0 | 107.9 | 253 | 209.7 | 141.5 | 313 | 259.5 | 175.0 | 373 | 309.2 | 208.6 | 433 | 359.0 | 242.1 |
| 14 | 11.6 | 07.8 | 74 | 61.3 | 41.4 | 134 | 111.1 | 74.9 | 194 | 160.8 | 108.5 | 254 | 210.6 | 142.0 | 314 | 260.3 | 175.6 | 374 | 310.1 | 209.1 | 434 | 359.8 | 242.7 |
| 15 | 12.4 | 08.4 | 75 | 62.2 | 41.9 | 135 | 111.9 | 75.5 | 195 | 181.7 | 109.0 | 255 | 211.4 | 142.6 | 315 | 261.2 | 176.1 | 375 | 310.9 | 209.7 | 435 | 360.6 | 243.2 |
| 16 | 13.3 | 08.9 | 76 | 63.0 | 42.5 | 136 | 112.7 | 78.1 | 196 | 182.5 | 109.6 | 256 | 212.2 | 143.2 | 316 | 262.0 | 176.7 | 376 | 311.7 | 210.3 | 436 | 361.5 | 213.8 |
| 17 | 14.1 | 09.5 | 77 | 63.8 | 43.1 | 137 | 113.6 | 76.6 | 197 | 183.3 | 110.2 | 257 | 213.1 | 143.7 | 317 | 262.8 | 177.3 | 377 | 312.8 | 210.8 | 437 | 362.3 | 244.4 |
| 18 | 14.9 | 10.1 | 78 | 64.7 | 43.6 | 138 | 114.4 | 77.2 | 198 | 164.1 | 110.7 | 258 | 213.9 | 144.3 | 318 | 263.7 | 177.8 | 378 | 313.4 | 211.4 | 438 | 363.1 | 244.9 |
| 19 | 15.8 | 10.8 | 79 | 65.5 | 44.2 | 139 | 115.2 | 77.7 | 199 | 185.0 | 111.3 | 259 | 214.7 | 144.8 | 319 | 264.5 | 178.4 | 379 | 314.2 | 211.9 | 439 | 384.0 | 245.5 |
| 20 | 16.6 | 11.2 | 80 | 66.3 | 44.7 | 140 | 116.1 | 78.3 | 200 | 165.8 | 111.8 | 260 | 215.5 | 145.4 | 320 | 265.3 | 178.9 | 380 | 315.0 | 212.5 | 440 | 361.8 | 246.0 |
| 21 | 17.4 | 11.7 | 81 | 67.2 | 45.3 | 141 | 118.9 | 78.8 | 201 | 166.6 | 112.4 | 281 | 216.4 | 145.9 | 321 | 266.1 | 179.5 | 381 | 315.9 | 213.0 | 441 | 365.6 | 246.6 |
| 22 | 18.2 | 12.3 | 82 | 68.0 | 45.9 | 142 | 117.7 | 79.4 | 202 | 187.5 | 113.0 | 262 | 217.2 | 146.5 | 322 | 267.0 | 180.1 | 382 | 316.7 | 213.6 | 442 | 366.4 | 247.2 |
| 23 | 19.1 | 12.9 | 83 | 88.8 | 48.4 | 143 | 118.6 | 80.0 | 203 | 168.3 | 113.5 | 263 | 218.0 | 147.1 | 323 | 267.8 | 180.6 | 383 | 317.5 | 214.2 | 443 | 367.3 | 247.7 |
| 24 | 19.9 | 13.4 | 84 | 69.8 | 47.0 | 144 | 119.4 | 80.5 | 204 | 169.1 | 114.1 | 284 | 218.9 | 147.6 | 324 | 268.8 | 181.2 | 384 | 318.4 | 214.7 | 444 | 368.1 | 248.3 |
| 25 | 20.7 | 14.0 | 85 | 70.5 | 47.5 | 145 | 120.2 | 81.1 | 205 | 170.0 | 114.6 | 285 | 212.7 | 148.2 | 325 | 269.5 | 181.7 | 385 | 319.2 | 215.3 | 445 | 368.9 | 248.8 |
| 26 | 21.6 | 14.5 | 86 | 71.3 | 48.1 | 146 | 121.0 | 81.6 | 206 | 170.8 | 115.2 | 266 | 220.5 | 148.7 | 326 | 270.3 | 182.3 | 388 | 320.0 | 215.8 | 446 | 369.8 | 249.4 |
| 27 | 22.4 | 15.1 | 87 | 72.1 | 48.6 | 147 | 121.9 | 82.2 | 207 | 171.6 | 115.8 | 267 | 221.4 | 142.3 | 327 | 271.1 | 182.9 | 387 | 320.8 | 216.4 | 447 | 370.6 | 250.0 |
| 28 | 23.2 | 15.7 | 88 | 73.0 | 49.2 | 148 | 122.7 | 82.8 | 208 | 172.4 | 116.3 | 268 | 222.2 | 149.9 | 328 | 271.9 | 183.4 | 388 | 321.7 | 217.0 | 448 | 371.4 | 250.5 |
| 29 | 24.0 | 16.2 | 89 | 73.8 | 49.8 | 149 | 123.5 | 83.3 | 209 | 173.3 | 116.9 | 269 | 223.0 | 150.4 | 329 | 272.8 | 184.0 | 389 | 322.5 | 217.5 | 449 | 372.2 | 251.1 |
| 30 | 24.9 | 16.8 | 90 | 74.6 | 50.3 | 150 | 124.4 | 83.9 | 210 | 174.1 | 117.4 | 270 | 223.8 | 151.0 | 330 | 273.6 | 184.5 | 390 | 323.3 | 218.1 | 450 | 373.1 | 251.6 |
| 31 | 25.7 | 17.3 | 91 | 75.4 | 50.9 | 151 | 125.2 | 84.4 | 211 | 174.9 | 118.0 | 271 | 224.7 | 151.5 | 331 | 274.4 | 185.1 | 391 | 324.2 | 218.6 | 451 | 373.9 | 252.2 |
| 32 | 26.5 | 17.9 | 92 | 76.3 | 51.4 | 152 | 126.0 | 85.0 | 212 | 175.8 | 118.5 | 272 | 225.5 | 152.1 | 332 | 275.2 | 185.6 | 392 | 325.0 | 219.2 | 452 | 374.7 | 252.8 |
| 33 | 27.4 | 18.5 | 93 | 77.1 | 52.0 | 153 | 126.8 | 85.6 | 213 | 176.8 | 119.1 | 273 | 226.3 | 152.7 | 333 | 276.1 | 186.2 | 393 | 325.8 | 219.8 | 453 | 375.6 | 253.3 |
| 34 | 28.2 | 19.0 | 94 | 77.9 | 52.6 | 154 | 127.7 | 86.1 | 214 | 177.4 | 112.7 | 274 | 227.2 | 153.2 | 334 | 276.9 | 186.8 | 394 | 326.6 | 220.3 | 454 | 376.4 | 253.9 |
| 35 | 29.0 | 19.6 | 95 | 78.8 | 53.1 | 155 | 128.5 | 86.7 | 215 | 178.2 | 120.2 | 275 | 228.0 | 153.8 | 335 | 277.7 | 187.3 | 395 | 327.5 | 220.9 | 455 | 377.2 | 254.4 |
| 36 | 29.8 | 20.1 | 96 | 79.6 | 53.7 | 156 | 129.3 | 87.2 | 216 | 179.1 | 120.8 | 276 | 228.8 | 154.3 | 336 | 278.6 | 187.9 | 396 | 328.3 | 221.4 | 456 | 378.0 | 255.0 |
| 37 | 30.7 | 20.7 | 97 | 80.4 | 51.2 | 157 | 130.2 | 87.8 | 217 | 179.9 | 121.3 | 277 | 229.6 | 154.9 | 337 | 279.4 | 188.4 | 397 | 329.1 | 222.0 | 457 | 378.9 | 255.5 |
| 38 | 31.5 | 21.2 | 98 | 81.2 | 54.8 | 158 | 131.0 | 88.4 | 218 | 180.7 | 121.9 | 278 | 230.5 | 155.5 | 338 | 280.2 | 189.0 | 398 | 330.0 | 222.6 | 458 | 379.7 | 256.1 |
| 39 | 32.3 | 21.8 | 99 | 82.1 | 55.4 | 159 | 131.8 | 88.9 | 219 | 181.6 | 122.5 | 279 | 231.3 | 156.0 | 339 | 281.0 | 189.6 | 399 | 330.8 | 223.1 | 459 | 380.5 | 258.7 |
| 40 | 33.2 | 22.4 | 100 | 82.9 | 55.9 | 180 | 132.8 | 89.5 | 220 | 182.4 | 123.0 | 280 | 232.1 | 156.6 | 340 | 281.9 | 190.1 | 400 | 331.8 | 223.7 | 460 | 381.3 | 257.2 |
| 41 | 34.0 | 22.9 | 101 | 83.7 | 56.5 | 161 | 133.5 | 90.0 | 221 | 183.2 | 123.6 | 281 | 233.0 | 157.1 | 341 | 282.7 | 190.7 | 401 | 332.4 | 224.2 | 461 | 382.2 | 257.8 |
| 42 | 34.8 | 23.5 | 102 | 81.6 | 57.0 | 162 | 134.3 | 90.6 | 222 | 184.0 | 124.1 | 282 | 233.8 | 157.7 | 342 | 283.5 | 191.2 | 402 | 333.3 | 224.8 | 462 | 383.0 | 258.3 |
| 43 | 35.8 | 24.0 | 103 | 85.4 | 57.6 | 163 | 135.1 | 91.1 | 223 | 184.9 | 124.7 | 283 | 234.6 | 158.3 | 343 | 284.4 | 191.8 | 403 | 334.1 | 225.4 | 463 | 383.8 | 258.9 |
| 44 | 38.5 | 24.6 | 104 | 86.2 | 58.2 | 164 | 136.0 | 91.7 | 224 | 185.7 | 125.3 | 284 | 235.4 | 158.8 | 344 | 285.2 | 192.4 | 404 | 334.9 | 225.9 | 464 | 384.7 | 259.5 |
| 45 | 37.3 | 25.2 | 105 | 87.0 | 58.7 | 165 | 136.8 | 92.3 | 225 | 186.5 | 125.8 | 285 | 236.3 | 159.4 | 345 | 286.0 | 192.9 | 405 | 335.8 | 226.5 | 465 | 385.5 | 280.0 |
| 46 | 38.1 | 25.7 | 106 | 87.9 | 59.3 | 166 | 137.6 | 92.8 | 226 | 187.4 | 126.4 | 286 | 237.1 | 159.9 | 346 | 286.9 | 193.5 | 406 | 336.6 | 227.0 | 466 | 386.3 | 260.6 |
| 47 | 39.0 | 28.3 | 107 | 88.7 | 59.8 | 167 | 138.4 | 93.4 | 227 | 188.2 | 126.9 | 287 | 237.9 | 160.5 | 347 | 287.7 | 194.0 | 407 | 337.4 | 227.6 | 467 | 387.2 | 281.1 |
| 48 | 39.8 | 26.8 | 108 | 89.5 | 60.4 | 168 | 139.3 | 93.9 | 228 | 189.0 | 127.5 | 288 | 238.8 | 161.0 | 348 | 288.5 | 194.6 | 408 | 338.3 | 228.1 | 468 | 388.0 | 261.7 |
| 49 | 40.6 | 27.4 | 109 | 90.4 | 61.0 | 169 | 140.1 | 94.5 | 229 | 189.8 | 128.1 | 289 | 239.6 | 181.6 | 349 | 289.3 | 195.2 | 409 | 339.1 | 228.7 | 469 | 388.8 | 262.3 |
| 50 | 41.5 | 28.0 | 110 | 91.2 | 61.5 | 170 | 140.9 | 95.1 | 230 | 190.7 | 128.6 | 290 | 240.4 | 162.2 | 350 | 290.2 | 195.7 | 410 | 339.9 | 229.3 | 470 | 389.7 | 262.8 |
| 51 | 42.3 | 28.5 | 111 | 92.0 | 62.1 | 171 | 141.8 | 95.6 | 231 | 191.5 | 129.2 | 291 | 241.2 | 162.7 | 351 | 291.0 | 196.3 | 411 | 340.7 | 229.8 | 471 | 390.5 | 263.4 |
| 52 | 43.1 | 29.1 | 112 | 92.9 | 82.6 | 172 | 142.6 | 98.2 | 232 | 192.3 | 129.7 | 292 | 242.1 | 163.3 | 352 | 291.8 | 196.8 | 412 | 341.6 | 230.4 | 472 | 391.3 | 263.9 |
| 53 | 43.9 | 29.6 | 113 | 93.7 | 83.2 | 173 | 143.4 | 96.7 | 233 | 193.2 | 130.3 | 293 | 242.9 | 163.8 | 353 | 292.7 | 197.4 | 413 | 342.4 | 230.9 | 473 | 392.1 | 284.5 |
| 54 | 44.8 | 30.2 | 114 | 94.5 | 83.7 | 174 | 144.3 | 97.3 | 234 | 194.0 | 130.9 | 294 | 243.7 | 164.4 | 354 | 293.5 | 198.0 | 414 | 343.2 | 231.5 | 474 | 393.0 | 265.0 |
| 55 | 45.8 | 30.8 | 115 | 95.3 | 84.3 | 175 | 145.1 | 97.9 | 235 | 194.8 | 131.4 | 295 | 244.6 | 165.0 | 355 | 294.3 | 198.5 | 415 | 344.1 | 232.1 | 475 | 393.8 | 265.6 |
| 56 | 46.4 | 31.3 | 116 | 96.2 | 64.9 | 176 | 145.9 | 98.4 | 236 | 195.7 | 132.0 | 296 | 245.4 | 165.5 | 356 | 295.1 | 192.1 | 416 | 344.9 | 232.6 | 476 | 394.6 | 266.2 |
| 57 | 47.3 | 31.9 | 117 | 97.0 | 65.4 | 177 | 146.7 | 99.0 | 237 | 198.5 | 132.5 | 297 | 246.2 | 166.1 | 357 | 296.0 | 199.6 | 417 | 345.7 | 233.2 | 477 | 395.5 | 266.7 |
| 58 | 48.1 | 32.4 | 118 | 97.8 | 86.0 | 178 | 147.6 | 99.5 | 238 | 197.3 | 133.1 | 298 | 247.1 | 166.6 | 358 | 296.8 | 200.2 | 418 | 346.5 | 233.7 | 478 | 396.3 | 287.3 |
| 59 | 48.9 | 33.0 | 119 | 98.7 | 88.5 | 179 | 148.4 | 100.1 | 239 | 198.1 | 133.6 | 299 | 247.9 | 167.2 | 359 | 297.6 | 200.7 | 419 | 347.4 | 234.3 | 479 | 397.1 | 267.9 |
| 60 | 49.7 | 33.8 | 120 | 99.5 | 67.1 | 180 | 149.2 | 100.7 | 240 | 199.0 | 134.2 | 300 | 248.7 | 167.8 | 360 | 298.5 | 201.3 | 420 | 348.2 | 234.9 | 480 | 397.9 | 268.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 44.m **Para 56 grados.** 8.h 16.m

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.h 20.m Para 35 grados. 9.h 40.m

| Dist | Dif. lat | Apart | Dist | Dif. lat | Apart | Dist. | Dif. lat | Apart. | Dist. | Dif. lat. | Apart | Dist | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 61 | 50.0 | 35.0 | 121 | 99.1 | 69.4 | 181 | 148.3 | 103.8 | 241 | 197.4 | 138.2 | 301 | 246.6 | 172.6 | 361 | 295.7 | 207.0 | 421 | 344.9 | 241.6 |
| 2 | 01.6 | 01.1 | 62 | 50.8 | 35.6 | 122 | 99.9 | 70.0 | 182 | 149.1 | 104.4 | 242 | 198.2 | 138.8 | 302 | 247.4 | 173.2 | 362 | 296.5 | 207.6 | 422 | 345.7 | 242.0 |
| 3 | 02.5 | 01.7 | 63 | 51.6 | 36.1 | 123 | 100.8 | 70.5 | 183 | 149.9 | 105.0 | 243 | 199.1 | 139.4 | 303 | 248.2 | 173.8 | 363 | 297.4 | 208.2 | 423 | 316.8 | 242.6 |
| 4 | 03.3 | 02.3 | 64 | 02.4 | 36.7 | 124 | 101.6 | 71.1 | 184 | 150.7 | 105.5 | 244 | 199.9 | 140.0 | 304 | 249.0 | 174.3 | 364 | 298.2 | 208.8 | 424 | 347.3 | 243.2 |
| 5 | 01.1 | 02.9 | 65 | 03.2 | 37.3 | 125 | 102.4 | 71.7 | 185 | 151.5 | 106.1 | 245 | 200.7 | 140.5 | 305 | 249.9 | 171.9 | 365 | 292.0 | 209.3 | 425 | 348.1 | 243.8 |
| 6 | 04.9 | 03.4 | 66 | 54.1 | 37.9 | 126 | 103.2 | 72.3 | 186 | 152.4 | 106.7 | 246 | 201.5 | 141.1 | 306 | 250.7 | 175.5 | 366 | 299.8 | 209.9 | 426 | 349.0 | 244.3 |
| 7 | 05.7 | 04.0 | 67 | 51.9 | 38.4 | 127 | 104.0 | 72.8 | 187 | 153.2 | 107.3 | 247 | 202.3 | 141.7 | 307 | 251.5 | 176.1 | 367 | 300.6 | 210.5 | 427 | 349.8 | 244.2 |
| 8 | 96.6 | 04.6 | 68 | 55.7 | 39.0 | 128 | 104.9 | 73.4 | 188 | 154.0 | 107.8 | 248 | 203.1 | 142.2 | 308 | 252.3 | 176.6 | 368 | 301.5 | 211.1 | 428 | 350.6 | 245.8 |
| 9 | 07.4 | 05.2 | 69 | 56.5 | 39.6 | 129 | 105.7 | 74.0 | 189 | 154.8 | 108.4 | 249 | 204.0 | 142.8 | 309 | 253.1 | 177.2 | 369 | 302.3 | 211.6 | 429 | 351.4 | 246.0 |
| 10 | 08.2 | 05.7 | 70 | 57.3 | 40.2 | 139 | 106.5 | 74.6 | 190 | 155.6 | 109.0 | 250 | 204.8 | 143.4 | 310 | 253.9 | 177.8 | 370 | 303.1 | 212.2 | 430 | 352.2 | 246.6 |
| 11 | 99.0 | 06.3 | 71 | 58.2 | 40.7 | 131 | 107.3 | 75.1 | 191 | 156.5 | 109.6 | 251 | 205.6 | 144.0 | 311 | 251.8 | 178.4 | 371 | 303.9 | 212.8 | 431 | 353.1 | 247.2 |
| 12 | 02.8 | 96.9 | 72 | 59.0 | 41.3 | 132 | 108.1 | 75.7 | 192 | 157.3 | 119.1 | 252 | 206.4 | 144.5 | 312 | 250.6 | 178.9 | 372 | 304.7 | 213.4 | 432 | 353.9 | 247.8 |
| 13 | 10.6 | 97.5 | 73 | 59.8 | 41.9 | 133 | 108.9 | 76.3 | 123 | 158.1 | 110.7 | 253 | 207.2 | 145.1 | 313 | 256.4 | 179.5 | 373 | 305.6 | 213.9 | 433 | 354.7 | 248.3 |
| 14 | 11.5 | 08.0 | 74 | 60.6 | 42.4 | 134 | 109.8 | 76.9 | 194 | 158.9 | 111.3 | 254 | 208.1 | 145.7 | 314 | 257.2 | 180.1 | 374 | 306.4 | 214.5 | 434 | 355.5 | 248.9 |
| 15 | 12.3 | 98.6 | 75 | 61.4 | 43.0 | 135 | 110.6 | 77.4 | 195 | 152.7 | 111.8 | 255 | 208.9 | 146.3 | 315 | 258.0 | 180.7 | 375 | 307.2 | 215.1 | 435 | 356.3 | 249.8 |
| 16 | 13.1 | 09.2 | 76 | 62.3 | 43.6 | 136 | 111.4 | 78.0 | 196 | 160.6 | 112.4 | 256 | 202.7 | 146.8 | 316 | 258.9 | 181.2 | 376 | 308.0 | 215.6 | 436 | 357.2 | 250.1 |
| 17 | 13.9 | 09.8 | 77 | 63.1 | 44.2 | 137 | 112.2 | 78.6 | 197 | 161.4 | 113.0 | 257 | 210.5 | 147.4 | 317 | 259.7 | 181.8 | 377 | 308.8 | 216.2 | 437 | 358.9 | 250.6 |
| 18 | 14.7 | 10.3 | 78 | 63.2 | 44.7 | 138 | 113.0 | 79.2 | 198 | 162.2 | 113.6 | 258 | 211.3 | 148.0 | 318 | 260.5 | 182.4 | 378 | 309.6 | 216.8 | 438 | 358.8 | 251.2 |
| 19 | 15.6 | 19.9 | 79 | 64.7 | 45.3 | 139 | 113.9 | 79.7 | 199 | 163.0 | 114.1 | 259 | 212.2 | 148.6 | 319 | 261.3 | 183.0 | 379 | 310.5 | 217.4 | 439 | 352.6 | 251.8 |
| 20 | 16.4 | 11.5 | 80 | 65.5 | 45.9 | 140 | 114.7 | 80.3 | 200 | 163.8 | 114.7 | 260 | 213.0 | 142.1 | 320 | 262.1 | 183.5 | 380 | 311.3 | 217.9 | 440 | 360.4 | 252.4 |
| 21 | 17.2 | 12.0 | 81 | 66.4 | 46.5 | 141 | 115.5 | 80.9 | 201 | 161.6 | 115.3 | 261 | 213.8 | 112.7 | 321 | 263.0 | 184.1 | 381 | 312.1 | 218.5 | 441 | 361.3 | 252.2 |
| 22 | 18.0 | 12.6 | 82 | 67.2 | 47.0 | 142 | 116.3 | 81.4 | 202 | 165.5 | 115.9 | 262 | 214.6 | 150.3 | 322 | 263.8 | 181.7 | 382 | 312.9 | 219.1 | 442 | 362.1 | 253.0 |
| 23 | 18.8 | 13.2 | 83 | 68.0 | 47.6 | 143 | 117.1 | 82.0 | 203 | 166.3 | 115.4 | 263 | 215.4 | 150.9 | 323 | 261.6 | 185.2 | 383 | 313.7 | 212.7 | 443 | 362.9 | 254.1 |
| 24 | 19.7 | 13.8 | 84 | 68.8 | 48.2 | 144 | 118.0 | 82.6 | 204 | 167.1 | 117.0 | 264 | 216.3 | 151.4 | 324 | 265.4 | 180.8 | 384 | 314.6 | 220.2 | 444 | 363.7 | 254.7 |
| 25 | 20.5 | 14.3 | 85 | 69.6 | 48.8 | 145 | 118.8 | 83.2 | 205 | 167.9 | 117.6 | 265 | 217.1 | 152.0 | 325 | 266.2 | 186.4 | 385 | 315.4 | 220.8 | 445 | 364.5 | 250.2 |
| 26 | 21.3 | 14.9 | 86 | 70.4 | 49.3 | 146 | 119.6 | 83.7 | 206 | 168.7 | 118.2 | 266 | 217.9 | 152.6 | 326 | 267.1 | 187.0 | 386 | 316.2 | 221.4 | 446 | 365.4 | 255.8 |
| 27 | 22.1 | 15.5 | 87 | 71.3 | 49.9 | 147 | 120.4 | 84.3 | 207 | 162.6 | 118.7 | 267 | 218.7 | 153.1 | 327 | 267.9 | 187.5 | 387 | 317.0 | 222.0 | 447 | 366.2 | 256.4 |
| 28 | 22.9 | 16.1 | 88 | 72.1 | 50.8 | 148 | 121.2 | 84.9 | 208 | 170.4 | 112.3 | 268 | 219.5 | 153.7 | 328 | 268.7 | 188.1 | 388 | 317.8 | 222.5 | 448 | 367.0 | 256.2 |
| 29 | 23.8 | 16.6 | 89 | 72.9 | 51.0 | 149 | 122.1 | 85.5 | 209 | 171.2 | 119.9 | 269 | 220.4 | 154.3 | 329 | 262.5 | 188.7 | 389 | 310.7 | 223.1 | 449 | 367.8 | 257.8 |
| 30 | 24.6 | 17.2 | 90 | 73.7 | 51.6 | 150 | 122.9 | 86.0 | 210 | 172.0 | 120.5 | 270 | 221.2 | 151.9 | 330 | 276.3 | 182.3 | 390 | 312.5 | 223.7 | 450 | 368.6 | 256.1 |
| 31 | 25.4 | 17.8 | 91 | 74.5 | 52.2 | 151 | 123.7 | 86.6 | 211 | 172.8 | 121.0 | 271 | 222.0 | 155.4 | 331 | 271.1 | 189.8 | 391 | 320.3 | 224.3 | 451 | 369.4 | 258.7 |
| 32 | 26.2 | 18.4 | 92 | 75.4 | 52.8 | 152 | 121.5 | 87.2 | 212 | 173.7 | 121.6 | 272 | 222.8 | 150.0 | 332 | 272.0 | 190.4 | 392 | 321.1 | 224.8 | 452 | 370.3 | 259.2 |
| 33 | 27.0 | 18.9 | 93 | 76.2 | 53.3 | 153 | 125.3 | 87.8 | 213 | 174.5 | 122.2 | 273 | 223.6 | 156.6 | 333 | 272.8 | 191.0 | 393 | 321.9 | 225.4 | 453 | 371.1 | 259.8 |
| 34 | 27.9 | 12.5 | 21 | 77.0 | 53.9 | 154 | 126.1 | 88.3 | 214 | 175.3 | 122.7 | 274 | 224.4 | 157.2 | 334 | 273.6 | 191.6 | 394 | 322.8 | 226.0 | 454 | 371.9 | 269.4 |
| 35 | 28.7 | 20.1 | 95 | 77.8 | 54.5 | 155 | 127.0 | 88.2 | 215 | 176.1 | 123.3 | 275 | 225.3 | 157.7 | 335 | 274.4 | 192.1 | 395 | 323.6 | 226.5 | 455 | 372.7 | 261.8 |
| 36 | 29.5 | 20.6 | 96 | 78.6 | 55.1 | 156 | 127.8 | 89.5 | 216 | 176.9 | 123.9 | 276 | 226.1 | 158.3 | 336 | 275.2 | 192.7 | 396 | 324.4 | 227.1 | 456 | 373.5 | 261.8 |
| 37 | 30.3 | 21.2 | 27 | 79.5 | 55.6 | 157 | 128.6 | 90.1 | 217 | 177.8 | 124.5 | 277 | 226.9 | 158.9 | 337 | 276.1 | 193.3 | 397 | 325.2 | 227.7 | 457 | 374.4 | 262.1 |
| 38 | 31.1 | 21.8 | 28 | 80.3 | 56.2 | 158 | 129.4 | 90.6 | 218 | 178.6 | 125.0 | 278 | 227.7 | 159.5 | 338 | 276.9 | 193.9 | 398 | 326.0 | 228.3 | 458 | 375.2 | 262.7 |
| 39 | 31.9 | 22.4 | 99 | 81.1 | 56.8 | 159 | 130.2 | 91.2 | 219 | 172.4 | 125.6 | 279 | 228.5 | 160.0 | 339 | 277.7 | 194.4 | 399 | 326.9 | 228.8 | 452 | 376.0 | 263.3 |
| 40 | 32.8 | 22.9 | 100 | 81.9 | 57.4 | 160 | 131.1 | 91.8 | 220 | 180.2 | 126.2 | 280 | 229.4 | 160.6 | 340 | 278.5 | 195.0 | 400 | 327.7 | 229.4 | 460 | 376.8 | 263.8 |
| 41 | 33.6 | 23.5 | 101 | 82.7 | 57.9 | 161 | 131.9 | 92.3 | 221 | 181.0 | 126.8 | 281 | 230.2 | 161.2 | 341 | 279.3 | 195.6 | 401 | 328.8 | 230.0 | 461 | 377.6 | 264.4 |
| 42 | 34.4 | 24.1 | 162 | 83.6 | 58.5 | 162 | 132.7 | 92.9 | 222 | 181.9 | 127.3 | 282 | 231.0 | 161.7 | 342 | 280.2 | 196.1 | 402 | 329.3 | 230.6 | 462 | 378.5 | 265.0 |
| 43 | 35.2 | 21.7 | 103 | 84.4 | 59.1 | 163 | 133.6 | 93.5 | 223 | 182.7 | 127.9 | 283 | 231.8 | 162.3 | 343 | 281.0 | 196.7 | 403 | 330.1 | 231.1 | 463 | 372.3 | 265.5 |
| 44 | 36.9 | 25.2 | 104 | 85.2 | 59.7 | 164 | 134.3 | 94.1 | 224 | 183.5 | 128.5 | 284 | 232.6 | 162.9 | 344 | 281.8 | 197.3 | 404 | 330.9 | 231.7 | 464 | 389.1 | 266.1 |
| 45 | 36.9 | 28.8 | 105 | 86.9 | 60.2 | 165 | 135.2 | 94.6 | 225 | 184.3 | 129.1 | 285 | 233.5 | 163.5 | 345 | 282.6 | 197.9 | 495 | 331.8 | 232.3 | 465 | 389.9 | 266.7 |
| 46 | 37.7 | 26.4 | 106 | 86.8 | 60.8 | 166 | 136.0 | 95.2 | 226 | 185.1 | 129.6 | 286 | 234.3 | 164.0 | 346 | 283.4 | 198.4 | 496 | 332.6 | 232.9 | 466 | 381.7 | 267.3 |
| 47 | 38.5 | 27.0 | 107 | 87.6 | 61.4 | 167 | 136.8 | 95.8 | 227 | 185.9 | 130.2 | 287 | 245.1 | 164.6 | 347 | 284.3 | 199.0 | 407 | 333.4 | 233.4 | 467 | 382.6 | 267.8 |
| 48 | 39.3 | 27.5 | 108 | 88.5 | 61.9 | 168 | 137.6 | 96.4 | 228 | 186.8 | 130.8 | 288 | 235.2 | 165.2 | 348 | 285.1 | 199.6 | 408 | 334.2 | 234.9 | 468 | 383.4 | 268.4 |
| 49 | 40.1 | 28.1 | 109 | 89.3 | 62.5 | 169 | 136.4 | 96.9 | 229 | 187.6 | 131.3 | 289 | 236.7 | 165.8 | 349 | 285.9 | 208.2 | 409 | 335.9 | 234.6 | 469 | 384.2 | 262.8 |
| 80 | 41.9 | 28.7 | 110 | 90.1 | 63.1 | 170 | 139.3 | 97.5 | 230 | 188.4 | 131.9 | 290 | 237.6 | 166.3 | 350 | 286.7 | 200.7 | 410 | 335.9 | 235.1 | 470 | 385.0 | 269.8 |
| 51 | 41.8 | 29.3 | 111 | 90.9 | 63.7 | 171 | 149.1 | 98.1 | 231 | 189.2 | 132.5 | 291 | 238.4 | 166.9 | 351 | 287.5 | 201.3 | 411 | 336.7 | 235.7 | 471 | 385.8 | 270.1 |
| 52 | 42.6 | 29.8 | 112 | 91.7 | 64.2 | 172 | 140.9 | 98.7 | 232 | 190.9 | 133.1 | 292 | 239.2 | 167.5 | 352 | 288.3 | 201.9 | 412 | 337.0 | 236.3 | 472 | 386.6 | 270.7 |
| 53 | 43.4 | 30.4 | 113 | 92.6 | 64.8 | 173 | 141.7 | 92.2 | 233 | 190.9 | 133.6 | 293 | 248.0 | 168.1 | 353 | 289.2 | 202.5 | 413 | 338.3 | 236.9 | 473 | 387.5 | 271.3 |
| 54 | 44.2 | 31.0 | 114 | 23.4 | 65.4 | 174 | 142.5 | 99.8 | 234 | 191.7 | 134.2 | 294 | 240.8 | 168.6 | 354 | 290.0 | 293.0 | 414 | 339.1 | 237.4 | 474 | 388.3 | 271.9 |
| 55 | 45.1 | 31.5 | 115 | 21.2 | 66.0 | 175 | 143.4 | 100.4 | 235 | 192.0 | 131.8 | 295 | 241.6 | 169.2 | 355 | 290.8 | 203.6 | 415 | 340.0 | 238.0 | 475 | 389.1 | 272.4 |
| 56 | 45.9 | 32.1 | 116 | 95.0 | 66.5 | 176 | 144.2 | 100.9 | 236 | 193.3 | 135.4 | 296 | 212.5 | 169.8 | 356 | 291.6 | 204.2 | 416 | 340.8 | 238.6 | 476 | 389.9 | 273.0 |
| 57 | 46.7 | 32.7 | 117 | 95.8 | 67.1 | 177 | 145.6 | 101.5 | 237 | 194.1 | 135.9 | 297 | 243.3 | 170.4 | 357 | 292.4 | 204.7 | 417 | 341.6 | 239.2 | 477 | 320.7 | 273.6 |
| 58 | 47.5 | 33.3 | 118 | 26.7 | 67.7 | 178 | 145.8 | 102.1 | 238 | 195.0 | 136.5 | 298 | 214.1 | 170.9 | 358 | 293.3 | 205.3 | 418 | 342.4 | 239.7 | 478 | 321.6 | 274.2 |
| 59 | 48.3 | 33.8 | 119 | 97.5 | 68.3 | 179 | 146.6 | 102.7 | 232 | 195.8 | 137.1 | 299 | 244.2 | 171.5 | 359 | 294.1 | 205.9 | 419 | 343.2 | 240.3 | 479 | 392.4 | 274.7 |
| 60 | 49.1 | 34.4 | 120 | 98.3 | 68.8 | 180 | 147.4 | 103.2 | 240 | 196.6 | 137.7 | 300 | 245.7 | 172.1 | 360 | 294.9 | 206.5 | 420 | 344.1 | 240.9 | 480 | 393.2 | 275.3 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 40.m Para 55 grados. 8.h 20.m

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

2.ʰ 24.ᵐ — Para 36 grados. — 9.ʰ 36.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 61 | 49.4 | 35.9 | 121 | 97.9 | 71.1 | 181 | 146.4 | 106.4 | 241 | 195.0 | 141.7 | 301 | 243.6 | 176.9 | 361 | 292.1 | 212.2 | 421 | 340.6 | 247.6 |
| 2 | 01.6 | 01.2 | 62 | 50.2 | 66.4 | 122 | 98.7 | 71.7 | 182 | 147.2 | 107.0 | 242 | 195.8 | 142.2 | 302 | 244.3 | 177.5 | 362 | 292.9 | 212.8 | 422 | 341.4 | 248.1 |
| 3 | 02.4 | 01.8 | 63 | 51.0 | 07.0 | 123 | 99.5 | 72.3 | 183 | 148.1 | 107.6 | 243 | 196.6 | 142.8 | 303 | 245.1 | 176.1 | 363 | 293.7 | 213.4 | 423 | 342.2 | 248.6 |
| 4 | 03.2 | 02.4 | 64 | 51.8 | 37.6 | 124 | 100.3 | 72.9 | 184 | 148.9 | 108.2 | 244 | 197.4 | 143.4 | 304 | 246.0 | 178.7 | 364 | 294.6 | 211.0 | 424 | 343.0 | 249.2 |
| 5 | 04.0 | 02.9 | 65 | 52.6 | 38.2 | 125 | 101.1 | 73.5 | 185 | 149.7 | 108.7 | 245 | 190.2 | 144.0 | 305 | 246.8 | 179.3 | 365 | 295.3 | 214.6 | 425 | 343.8 | 249.8 |
| 6 | 04.9 | 03.5 | 66 | 66.4 | 38.8 | 126 | 101.9 | 74.1 | 186 | 150.5 | 109.3 | 246 | 199.0 | 144.6 | 306 | 247.6 | 176.9 | 366 | 296.1 | 215.1 | 426 | 344.7 | 250.4 |
| 7 | 05.7 | 04.1 | 67 | 54.2 | 39.4 | 127 | 182.7 | 74.6 | 187 | 151.3 | 109.9 | 247 | 199.0 | 145.2 | 307 | 248.4 | 180.5 | 367 | 296.9 | 215.7 | 427 | 345.5 | 251.0 |
| 8 | 06.5 | 04.7 | 68 | 65.0 | 40.8 | 128 | 103.6 | 75.2 | 188 | 152.1 | 110.5 | 248 | 200.6 | 145.8 | 308 | 249.2 | 181.1 | 368 | 297.7 | 216.3 | 428 | 346.3 | 251.6 |
| 9 | 67.3 | 05.3 | 69 | 55.8 | 40.6 | 129 | 104.4 | 75.8 | 189 | 152.2 | 111.1 | 249 | 201.4 | 146.4 | 309 | 250.0 | 181.6 | 369 | 296.5 | 216.9 | 429 | 347.1 | 252.2 |
| 10 | 08.1 | 05.9 | 70 | 56.6 | 41.1 | 130 | 105.2 | 76.4 | 190 | 153.7 | 111.7 | 250 | 202.3 | 116.9 | 310 | 230.8 | 182.2 | 370 | 296.3 | 217.5 | 430 | 347.9 | 252.8 |
| 11 | 08.9 | 06.5 | 71 | 57.4 | 41.7 | 131 | 106.0 | 77.0 | 191 | 154.5 | 112.3 | 251 | 203.1 | 147.6 | 311 | 251.6 | 182.8 | 371 | 300.2 | 218.1 | 431 | 348.7 | 253.3 |
| 12 | 09.7 | 07.1 | 72 | 58.2 | 42.3 | 132 | 106.8 | 77.6 | 192 | 155.3 | 112.9 | 252 | 203.9 | 118.1 | 312 | 252.4 | 183.4 | 372 | 301.0 | 218.7 | 432 | 349.6 | 253.9 |
| 13 | 18.5 | 07.6 | 73 | 59.1 | 42.9 | 133 | 107.6 | 70.2 | 193 | 156.1 | 113.4 | 256 | 204.7 | 140.7 | 313 | 253.2 | 184.0 | 373 | 301.8 | 219.3 | 433 | 350.3 | 254.5 |
| 14 | 11.3 | 88.2 | 74 | 59.6 | 43.5 | 134 | 108.4 | 78.8 | 194 | 156.6 | 114.9 | 254 | 205.5 | 119.3 | 314 | 254.9 | 184.6 | 374 | 302.6 | 212.8 | 434 | 351.1 | 255.1 |
| 15 | 12.1 | 08.8 | 75 | 60.7 | 44.1 | 135 | 109.2 | 79.4 | 195 | 157.8 | 114.6 | 255 | 206.3 | 149.9 | 315 | 254.9 | 185.2 | 375 | 303.4 | 228.4 | 435 | 351.9 | 255.7 |
| 16 | 12.9 | 09.4 | 76 | 61.5 | 44.7 | 136 | 110.0 | 79.9 | 196 | 158.6 | 115.2 | 256 | 207.1 | 159.6 | 316 | 255.7 | 185.8 | 376 | 304.2 | 221.8 | 436 | 332.7 | 256.3 |
| 17 | 13.8 | 19.0 | 77 | 62.3 | 45.3 | 137 | 110.8 | 80.5 | 197 | 159.4 | 115.8 | 257 | 207.9 | 151.1 | 317 | 256.5 | 186.4 | 377 | 305.0 | 221.6 | 437 | 353.6 | 256.9 |
| 16 | 14.6 | 19.6 | 78 | 63.1 | 45.8 | 138 | 111.6 | 01.1 | 198 | 160.2 | 116.4 | 258 | 208.7 | 151.6 | 318 | 257.3 | 186.9 | 378 | 305.8 | 222.2 | 438 | 354.4 | 257.5 |
| 19 | 15.4 | 11.2 | 79 | 63.9 | 46.4 | 139 | 112.5 | 01.7 | 199 | 161.0 | 117.0 | 259 | 209.5 | 152.2 | 319 | 258.1 | 187.5 | 379 | 306.6 | 222.8 | 439 | 355.2 | 250.0 |
| 28 | 16.2 | 11.8 | 80 | 61.7 | 47.0 | 140 | 113.3 | 82.3 | 200 | 161.0 | 117.6 | 260 | 210.3 | 152.8 | 320 | 258.9 | 188.1 | 388 | 307.4 | 223.4 | 419 | 356.0 | 258.6 |
| 21 | 17.0 | 12.3 | 81 | 65.5 | 47.6 | 141 | 114.1 | 82.9 | 291 | 162.6 | 118.1 | 261 | 211.2 | 153.4 | 321 | 259.7 | 188.7 | 381 | 308.2 | 224.0 | 441 | 336.0 | 259.2 |
| 22 | 17.8 | 12.9 | 82 | 66.3 | 48.2 | 142 | 111.9 | 06.5 | 202 | 163.4 | 118.7 | 262 | 212.0 | 154.0 | 322 | 260.5 | 189.3 | 382 | 309.1 | 224.5 | 442 | 357.6 | 269.8 |
| 23 | 18.6 | 13.5 | 83 | 67.1 | 48.8 | 143 | 115.7 | 01.1 | 203 | 161.2 | 119.3 | 263 | 212.8 | 154.6 | 323 | 261.3 | 189.9 | 386 | 309.9 | 225.1 | 443 | 358.4 | 260.4 |
| 21 | 19.4 | 14.1 | 84 | 68.9 | 49.4 | 144 | 116.6 | 01.6 | 204 | 165.0 | 119.9 | 261 | 213.6 | 155.2 | 321 | 262.1 | 190.5 | 384 | 310.7 | 225.7 | 444 | 359.2 | 261.8 |
| 25 | 20.2 | 14.7 | 85 | 68.8 | 50.0 | 145 | 117.3 | 85.2 | 205 | 165.6 | 120.5 | 265 | 214.4 | 155.8 | 325 | 262.9 | 191.0 | 385 | 311.5 | 226.3 | 445 | 369.0 | 261.6 |
| 26 | 21.9 | 15.3 | 86 | 69.6 | 60.5 | 146 | 116.1 | 85.8 | 206 | 166.7 | 121.1 | 266 | 215.2 | 156.4 | 326 | 263.7 | 191.6 | 386 | 312.3 | 226.9 | 446 | 360.6 | 262.2 |
| 27 | 21.8 | 15.9 | 87 | 70.4 | 61.1 | 147 | 118.9 | 86.4 | 207 | 167.6 | 121.7 | 267 | 216.0 | 156.9 | 327 | 264.6 | 192.2 | 387 | 313.1 | 227.6 | 447 | 361.6 | 262.8 |
| 23 | 22.7 | 16.5 | 88 | 71.2 | 51.7 | 148 | 119.7 | 87.0 | 208 | 168.3 | 122.3 | 268 | 216.8 | 157.5 | 328 | 265.4 | 192.8 | 388 | 313.9 | 220.1 | 418 | 362.4 | 263.3 |
| 29 | 23.5 | 17.0 | 89 | 72.0 | 52.3 | 149 | 129.5 | 87.6 | 209 | 169.1 | 122.8 | 269 | 217.6 | 156.1 | 329 | 266.2 | 193.4 | 389 | 314.7 | 228.7 | 419 | 363.3 | 266.9 |
| 30 | 24.3 | 17.6 | 90 | 72.8 | 52.9 | 150 | 121.4 | 08.2 | 210 | 169.9 | 123.4 | 270 | 218.4 | 150.7 | 330 | 267.0 | 194.0 | 390 | 315.5 | 229.2 | 450 | 361.1 | 264.5 |
| 31 | 25.1 | 18.2 | 91 | 73.6 | 53.5 | 151 | 122.2 | 08.8 | 211 | 170.7 | 121.0 | 271 | 219.2 | 156.3 | 331 | 267.0 | 194.6 | 391 | 316.3 | 229.8 | 451 | 364.9 | 265.1 |
| 32 | 25.9 | 18.8 | 92 | 74.4 | 54.1 | 152 | 123.0 | 09.3 | 212 | 171.5 | 124.6 | 272 | 220.1 | 159.9 | 332 | 268.6 | 195.2 | 392 | 317.1 | 230.4 | 452 | 365.7 | 265.7 |
| 33 | 26.7 | 16.4 | 93 | 75.2 | 54.7 | 153 | 123.8 | 89.9 | 213 | 172.0 | 125.2 | 273 | 228.9 | 160.5 | 333 | 269.4 | 195.7 | 393 | 310.8 | 231.0 | 453 | 366.5 | 266.3 |
| 34 | 27.5 | 20.0 | 94 | 76.0 | 65.3 | 154 | 124.6 | 98.5 | 214 | 173.1 | 125.8 | 274 | 221.7 | 161.1 | 334 | 278.2 | 196.3 | 394 | 318.8 | 231.6 | 454 | 367.3 | 266.9 |
| 35 | 28.3 | 20.6 | 95 | 76.9 | 55.8 | 155 | 125.4 | 91.1 | 215 | 173.2 | 126.4 | 275 | 222.5 | 161.6 | 335 | 271.0 | 196.9 | 395 | 319.6 | 232.2 | 455 | 368.1 | 267.5 |
| 36 | 29.1 | 21.2 | 96 | 77.7 | 36.4 | 156 | 126.2 | 91.7 | 216 | 174.7 | 127.0 | 276 | 223.3 | 162.2 | 336 | 271.8 | 197.6 | 396 | 320.4 | 232.8 | 456 | 368.6 | 260.0 |
| 37 | 29.9 | 21.7 | 97 | 78.5 | 67.0 | 157 | 127.0 | 92.3 | 217 | 175.6 | 127.5 | 277 | 224.1 | 162.8 | 337 | 272.6 | 198.1 | 397 | 321.2 | 233.4 | 457 | 369.7 | 260.6 |
| 30 | 60.7 | 22.3 | 98 | 79.3 | 57.6 | 158 | 127.8 | 92.9 | 218 | 176.4 | 128.1 | 278 | 224.9 | 163.4 | 338 | 273.5 | 198.7 | 398 | 322.0 | 233.9 | 468 | 370.6 | 266.2 |
| 39 | 31.6 | 22.9 | 99 | 80.1 | 68.2 | 159 | 120.6 | 66.5 | 219 | 177.2 | 128.7 | 279 | 225.7 | 164.0 | 339 | 274.3 | 199.3 | 399 | 322.0 | 231.6 | 459 | 371.3 | 269.0 |
| 40 | 32.4 | 23.5 | 100 | 80.9 | 58.8 | 168 | 129.4 | 94.0 | 220 | 178.0 | 129.3 | 288 | 226.5 | 164.6 | 348 | 275.1 | 199.9 | 400 | 323.6 | 235.1 | 460 | 372.2 | 278.4 |
| 41 | 33.2 | 24.1 | 101 | 01.7 | 59.4 | 161 | 138.3 | 94.6 | 221 | 178.0 | 129.9 | 281 | 227.3 | 165.2 | 341 | 275.9 | 200.4 | 401 | 324.4 | 235.7 | 461 | 373.0 | 271.0 |
| 42 | 64.0 | 24.7 | 102 | 82.5 | 60.0 | 162 | 131.1 | 95.2 | 222 | 179.6 | 130.5 | 282 | 220.1 | 165.8 | 342 | 276.7 | 201.0 | 492 | 325.2 | 236.3 | 462 | 373.8 | 271.6 |
| 43 | 34.8 | 25.3 | 103 | 03.3 | 50.5 | 163 | 131.9 | 95.8 | 223 | 180.4 | 131.1 | 283 | 229.9 | 166.3 | 343 | 277.5 | 201.6 | 403 | 326.0 | 236.9 | 463 | 674.6 | 272.2 |
| 44 | 35.6 | 25.9 | 104 | 84.1 | 61.1 | 164 | 132.7 | 96.4 | 224 | 181.2 | 131.7 | 284 | 229.8 | 166.9 | 344 | 278.3 | 202.2 | 484 | 326 9 | 237.5 | 464 | 375.4 | 272.7 |
| 45 | 36.4 | 26.5 | 105 | 81.9 | 61.7 | 165 | 133.6 | 97.0 | 225 | 182.0 | 132.3 | 285 | 230.6 | 167.6 | 346 | 279.1 | 202.8 | 405 | 327.7 | 238.1 | 465 | 378.2 | 273.3 |
| 46 | 37.2 | 27.0 | 106 | 85.8 | 62.3 | 166 | 134.3 | 97.6 | 226 | 182.8 | 132.8 | 286 | 231.4 | 168.1 | 316 | 279.9 | 203.4 | 406 | 328.5 | 238.7 | 466 | 377.0 | 273.9 |
| 47 | 66.0 | 27.6 | 107 | 86.6 | 62.9 | 167 | 135.1 | 98.2 | 227 | 183.6 | 133.4 | 287 | 232.2 | 168.7 | 347 | 280.7 | 204.0 | 407 | 329.3 | 239.2 | 467 | 377.8 | 274.5 |
| 48 | 38.8 | 28.2 | 108 | 87.4 | 63.5 | 168 | 135.9 | 98.7 | 228 | 181.5 | 134.0 | 288 | 233.9 | 169.3 | 340 | 281.5 | 204.6 | 408 | 338.1 | 239.8 | 468 | 378.6 | 275.1 |
| 49 | 39.6 | 28.8 | 109 | 88.2 | 64.1 | 169 | 136.7 | 99.3 | 229 | 185.3 | 134.6 | 289 | 233.6 | 169.9 | 349 | 282.4 | 205.1 | 409 | 330.9 | 249.4 | 469 | 379.4 | 275.7 |
| 59 | 48.5 | 29.4 | 110 | 89.0 | 61.7 | 170 | 167.6 | 96.9 | 230 | 186.1 | 135.2 | 299 | 234.6 | 178.5 | 350 | 283.2 | 206.7 | 410 | 331.7 | 241.0 | 470 | 380.2 | 276.6 |
| 51 | 41.3 | 30.0 | 111 | 89.8 | 65.2 | 171 | 138.3 | 180.6 | 231 | 186.9 | 135.8 | 291 | 235.4 | 171.0 | 351 | 284.0 | 206.3 | 411 | 332.5 | 241.6 | 471 | 381.1 | 276.9 |
| 62 | 42.1 | 30.6 | 112 | 99.6 | 65.8 | 172 | 136.2 | 101.1 | 232 | 187.7 | 136.4 | 292 | 236.2 | 171.6 | 352 | 284.8 | 296.9 | 412 | 333.3 | 242.2 | 472 | 381.9 | 277.4 |
| 53 | 42.9 | 31.2 | 113 | 01.4 | 66.4 | 173 | 140.0 | 101.7 | 233 | 180.6 | 137.0 | 293 | 237.0 | 172.2 | 353 | 285.6 | 207.5 | 413 | 334.1 | 242.8 | 473 | 382.7 | 278.0 |
| 54 | 43.7 | 31.7 | 114 | 92.2 | 67.8 | 174 | 140.8 | 102.3 | 234 | 189.3 | 137.5 | 294 | 237.9 | 172.8 | 364 | 285.4 | 208.1 | 414 | 334.9 | 243.4 | 474 | 383.5 | 278.6 |
| 55 | 44.5 | 32.3 | 116 | 93.0 | 67.6 | 175 | 141.6 | 102.9 | 235 | 190.1 | 138.1 | 295 | 230.7 | 173.4 | 355 | 287.2 | 208.7 | 415 | 335.8 | 243.9 | 475 | 334.3 | 279.2 |
| 56 | 45.3 | 32.9 | 116 | 93.8 | 68.2 | 176 | 142.4 | 103.5 | 236 | 198.9 | 138.7 | 296 | 232.5 | 174.0 | 356 | 288.0 | 209.3 | 416 | 336.6 | 244.5 | 476 | 385.1 | 272.0 |
| 57 | 46.1 | 03.5 | 117 | 94.7 | 68.0 | 177 | 143.2 | 104.0 | 237 | 191.7 | 139.3 | 297 | 240.3 | 174.6 | 357 | 288.8 | 209.8 | 417 | 337.4 | 245.1 | 477 | 385.9 | 280.4 |
| 58 | 45.9 | 34.1 | 110 | 95.5 | 66.4 | 170 | 144.0 | 104.6 | 230 | 192.5 | 139.9 | 298 | 241.1 | 176.2 | 358 | 286.6 | 210.4 | 418 | 338.2 | 245.7 | 478 | 386.7 | 281.8 |
| 59 | 47.7 | 34.7 | 116 | 96.3 | 69.9 | 179 | 144.8 | 185.2 | 239 | 193.4 | 149.5 | 299 | 241.9 | 175.7 | 359 | 299.4 | 211.0 | 419 | 339.0 | 246.3 | 479 | 387.6 | 201.6 |
| 60 | 46.5 | 35.3 | 128 | 97.1 | 79.5 | 188 | 145.6 | 105.8 | 240 | 194.2 | 141.1 | 308 | 242.7 | 176.3 | 369 | 291.6 | 211.6 | 420 | 339.8 | 246.9 | 488 | 388.3 | 282.1 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 36.ᵐ — Para 54 grados. — 8.ʰ 24.ᵐ

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TABLA XXXV. Diferencias en latitud y apartamientos de meridiano.

2.h 28.m Para 37 grados. 9.h 32.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 61 | 48.7 | 36.7 | 121 | 96.6 | 72.8 | 181 | 144.6 | 108.9 | 241 | 192.5 | 145.0 | 301 | 240.4 | 181.1 | 361 | 288.3 | 217.3 | 421 | 336.2 | 253.4 |
| 2 | 01.6 | 81.2 | 62 | 49.5 | 37.3 | 122 | 97.4 | 73.4 | 182 | 145.4 | 189.5 | 242 | 193.3 | 145.6 | 302 | 241.2 | 181.7 | 362 | 280.1 | 217.9 | 422 | 337.0 | 254.0 |
| 3 | 02.4 | 81.8 | 63 | 50.3 | 37.9 | 123 | 98.2 | 74.0 | 183 | 146.2 | 110.1 | 243 | 194.1 | 146.2 | 303 | 242.0 | 182.4 | 363 | 289.9 | 218.5 | 423 | 337.8 | 254.6 |
| 4 | 03.2 | 82.4 | 64 | 51.1 | 38.6 | 124 | 99.0 | 74.6 | 184 | 146.9 | 110.7 | 244 | 194.9 | 146.8 | 304 | 242.7 | 183.0 | 364 | 290.7 | 219.1 | 424 | 338.6 | 255.2 |
| 6 | 04.0 | 03.0 | 66 | 61.9 | 39.1 | 125 | 99.8 | 76.2 | 185 | 147.7 | 111.3 | 245 | 195.7 | 147.4 | 305 | 243.5 | 183.6 | 365 | 291.5 | 219.7 | 425 | 339.4 | 255.8 |
| 6 | 84.8 | 03.6 | 66 | 52.7 | 39.7 | 126 | 100.6 | 76.8 | 186 | 148.5 | 111.9 | 246 | 196.5 | 148.0 | 306 | 244.3 | 184.2 | 366 | 292.3 | 220.3 | 426 | 340.2 | 256.4 |
| 7 | 05.6 | 84.2 | 67 | 53.5 | 40.3 | 127 | 101.4 | 76.4 | 187 | 149.3 | 112.5 | 247 | 197.3 | 148.6 | 307 | 245.1 | 184.8 | 367 | 293.1 | 228.9 | 427 | 341.0 | 257.0 |
| 8 | 06.4 | 04.8 | 68 | 54.3 | 40.9 | 128 | 182.2 | 77.0 | 188 | 158.1 | 113.1 | 248 | 198.1 | 149.3 | 308 | 246.9 | 185.4 | 368 | 293.9 | 221.5 | 428 | 341.8 | 257.6 |
| 9 | 07.2 | 05.4 | 69 | 55.1 | 41.5 | 129 | 103.8 | 77.6 | 189 | 150.9 | 113.7 | 249 | 198.9 | 142.9 | 309 | 246.7 | 186.0 | 369 | 294.7 | 222.1 | 429 | 342.6 | 258.2 |
| 10 | 08.8 | 06.0 | 70 | 65.9 | 42.1 | 130 | 103.8 | 78.2 | 190 | 151.7 | 114.3 | 250 | 199.7 | 150.5 | 310 | 247.6 | 186.6 | 370 | 296.6 | 222.7 | 430 | 343.4 | 258.8 |
| 11 | 08.8 | 86.6 | 71 | 56.7 | 42.7 | 131 | 104.6 | 78.8 | 191 | 152.6 | 114.9 | 251 | 200.5 | 151.1 | 311 | 248.3 | 187.2 | 371 | 296.3 | 223.3 | 431 | 344.2 | 259.4 |
| 12 | 09.6 | 07.2 | 72 | 57.5 | 43.3 | 132 | 105.4 | 79.4 | 192 | 153.3 | 115.5 | 252 | 201.3 | 151.7 | 312 | 249.1 | 187.8 | 372 | 297.1 | 223.9 | 432 | 345.0 | 260.0 |
| 13 | 10.4 | 07.8 | 73 | 58.3 | 43.9 | 133 | 106.2 | 80.0 | 193 | 154.1 | 116.2 | 253 | 202.1 | 152.3 | 313 | 249.9 | 188.4 | 373 | 297.9 | 224.5 | 433 | 345.8 | 260.6 |
| 14 | 11.2 | 08.4 | 74 | 59.1 | 44.6 | 134 | 107.0 | 80.6 | 194 | 154.9 | 116.8 | 254 | 202.9 | 152.9 | 314 | 250.7 | 189.0 | 374 | 298.7 | 225.1 | 434 | 316.6 | 261.2 |
| 15 | 12.0 | 89.0 | 75 | 59.9 | 45.1 | 135 | 107.8 | 81.2 | 195 | 156.7 | 117.4 | 255 | 203.7 | 153.5 | 315 | 251.5 | 189.6 | 375 | 299.5 | 226.7 | 435 | 347.4 | 261.8 |
| 16 | 12.8 | 89.6 | 76 | 60.7 | 45.7 | 136 | 108.6 | 81.8 | 196 | 156.5 | 118.0 | 256 | 204.5 | 154.1 | 316 | 252.3 | 190.2 | 376 | 300.3 | 226.3 | 436 | 348.2 | 262.4 |
| 17 | 13.6 | 10.2 | 77 | 61.5 | 46.3 | 137 | 189.4 | 82.4 | 197 | 157.3 | 118.6 | 257 | 205.2 | 154.7 | 317 | 253.1 | 198.8 | 377 | 301.1 | 226.9 | 437 | 340.0 | 263.0 |
| 18 | 14.4 | 10.8 | 78 | 62.3 | 46.9 | 138 | 110.2 | 83.1 | 198 | 158.1 | 119.2 | 258 | 206.0 | 155.3 | 318 | 253.9 | 191.4 | 378 | 301.8 | 227.6 | 438 | 349.8 | 263.6 |
| 19 | 15.2 | 11.4 | 79 | 63.1 | 47.5 | 139 | 111.0 | 83.7 | 199 | 158.9 | 112.8 | 269 | 206.8 | 155.9 | 319 | 254.7 | 192.0 | 379 | 302.6 | 228.1 | 439 | 350.6 | 264.2 |
| 20 | 16.0 | 12.0 | 80 | 63.9 | 48.1 | 140 | 111.8 | 84.3 | 200 | 159.7 | 120.4 | 260 | 207.6 | 156.5 | 320 | 255.5 | 192.6 | 380 | 303.4 | 228.7 | 440 | 351.4 | 264.8 |
| 21 | 16.8 | 12.6 | 81 | 64.7 | 48.7 | 141 | 112.6 | 84.9 | 201 | 160.5 | 121.0 | 261 | 208.4 | 157.1 | 321 | 256.3 | 193.2 | 381 | 304.2 | 229.3 | 441 | 352.2 | 265.4 |
| 22 | 17.6 | 13.2 | 82 | 65.5 | 49.3 | 142 | 113.4 | 86.5 | 202 | 161.3 | 121.6 | 262 | 209.2 | 157.7 | 322 | 257.1 | 193.8 | 382 | 305.0 | 229.9 | 442 | 353.0 | 266.0 |
| 23 | 18.4 | 13.8 | 83 | 66.3 | 50.0 | 143 | 114.2 | 86.1 | 203 | 162.1 | 122.2 | 263 | 210.0 | 158.3 | 323 | 257.9 | 194.4 | 383 | 305.8 | 230.5 | 443 | 353.8 | 266.6 |
| 24 | 19.2 | 14.4 | 84 | 67.1 | 50.6 | 144 | 116.0 | 86.7 | 204 | 162.9 | 122.8 | 264 | 210.8 | 158.9 | 324 | 258.7 | 195.0 | 384 | 306.6 | 231.1 | 444 | 354.6 | 267.2 |
| 25 | 20.0 | 15.0 | 85 | 67.9 | 51.2 | 145 | 115.8 | 87.3 | 205 | 163.7 | 123.4 | 265 | 211.6 | 150.5 | 325 | 259.6 | 195.6 | 385 | 307.4 | 231.7 | 445 | 355.4 | 267.8 |
| 26 | 20.0 | 15.6 | 86 | 68.7 | 51.8 | 146 | 116.6 | 87.9 | 206 | 164.6 | 124.0 | 266 | 212.4 | 160.1 | 326 | 260.3 | 196.2 | 386 | 308.2 | 232.3 | 446 | 356.2 | 268.4 |
| 27 | 21.6 | 16.2 | 87 | 69.5 | 52.4 | 147 | 117.4 | 66.6 | 207 | 165.3 | 124.6 | 267 | 213.2 | 160.7 | 327 | 261.1 | 196.8 | 387 | 309.0 | 232.9 | 447 | 357.0 | 269.0 |
| 28 | 22.4 | 16.9 | 88 | 70.3 | 63.0 | 148 | 118.2 | 82.1 | 208 | 166.1 | 125.2 | 268 | 214.0 | 161.3 | 328 | 261.9 | 197.4 | 388 | 309.8 | 233.5 | 448 | 357.8 | 269.6 |
| 29 | 23.2 | 17.5 | 89 | 71.1 | 53.6 | 149 | 112.0 | 82.7 | 209 | 166.9 | 125.8 | 269 | 214.8 | 161.9 | 329 | 262.7 | 198.0 | 389 | 310.6 | 234.1 | 449 | 358.6 | 270.2 |
| 30 | 21.0 | 18.1 | 90 | 71.9 | 54.2 | 150 | 119.8 | 20.3 | 210 | 167.7 | 126.4 | 270 | 215.6 | 162.5 | 330 | 263.5 | 198.6 | 390 | 311.4 | 234.7 | 450 | 359.4 | 270.8 |
| 31 | 24.8 | 18.7 | 91 | 72.7 | 54.8 | 151 | 120.6 | 90.9 | 211 | 168.6 | 127.0 | 271 | 216.4 | 163.1 | 331 | 264.3 | 199.2 | 391 | 312.2 | 236.3 | 451 | 360.1 | 271.4 |
| 32 | 25.6 | 19.3 | 92 | 73.5 | 65.4 | 152 | 121.4 | 91.5 | 212 | 169.3 | 127.6 | 272 | 217.2 | 163.7 | 332 | 265.1 | 199.8 | 392 | 313.0 | 235.9 | 452 | 368.9 | 272.0 |
| 33 | 26.4 | 19.9 | 93 | 74.3 | 66.0 | 153 | 122.2 | 92.1 | 213 | 170.1 | 128.2 | 273 | 218.0 | 164.3 | 333 | 265.9 | 200.4 | 393 | 313.8 | 236.5 | 453 | 361.7 | 272.6 |
| 34 | 27.2 | 28.5 | 94 | 75.1 | 56.6 | 154 | 123.0 | 99.7 | 214 | 170.9 | 128.8 | 274 | 218.8 | 164.9 | 334 | 266.7 | 201.0 | 394 | 314.6 | 237.1 | 454 | 362.6 | 273.2 |
| 35 | 28.0 | 21.1 | 95 | 75.9 | 67.2 | 155 | 123.8 | 93.3 | 215 | 171.7 | 129.4 | 275 | 219.6 | 165.5 | 335 | 267.6 | 201.6 | 395 | 315.4 | 237.7 | 455 | 363.3 | 273.8 |
| 36 | 28.8 | 21.7 | 96 | 76.7 | 57.8 | 156 | 124.6 | 93.9 | 216 | 172.5 | 138.0 | 276 | 220.4 | 166.1 | 336 | 268.3 | 282.2 | 396 | 316.2 | 238.3 | 456 | 364.1 | 274.4 |
| 37 | 29.5 | 22.3 | 97 | 77.5 | 68.4 | 157 | 125.4 | 94.5 | 217 | 173.3 | 130.6 | 277 | 221.2 | 166.7 | 337 | 269.1 | 282.8 | 397 | 317.0 | 238.9 | 457 | 364.9 | 275.0 |
| 38 | 30.3 | 22.9 | 98 | 78.3 | 59.0 | 158 | 126.2 | 95.1 | 218 | 174.1 | 131.2 | 278 | 222.0 | 167.3 | 338 | 269.9 | 203.4 | 398 | 317.8 | 239.5 | 458 | 365.7 | 276.6 |
| 39 | 31.1 | 23.5 | 99 | 79.1 | 59.6 | 159 | 127.0 | 95.7 | 219 | 174.9 | 131.8 | 279 | 222.8 | 167.9 | 339 | 270.7 | 204.0 | 399 | 318.6 | 240.1 | 459 | 366.5 | 276.2 |
| 40 | 31.9 | 24.1 | 100 | 79.9 | 60.2 | 160 | 127.8 | 96.3 | 220 | 175.7 | 132.4 | 280 | 223.6 | 168.6 | 340 | 271.6 | 284.6 | 400 | 319.4 | 240.7 | 460 | 367.3 | 276.8 |
| 41 | 32.7 | 24.7 | 101 | 80.7 | 60.8 | 161 | 128.6 | 96.9 | 221 | 176.6 | 133.0 | 281 | 224.4 | 169.1 | 341 | 272.3 | 205.2 | 401 | 320.2 | 241.3 | 461 | 368.1 | 277.4 |
| 42 | 33.5 | 25.3 | 102 | 61.5 | 61.4 | 162 | 129.4 | 97.5 | 222 | 177.3 | 133.6 | 282 | 225.2 | 169.7 | 342 | 273.1 | 205.8 | 402 | 321.0 | 241.9 | 462 | 368.9 | 278.0 |
| 43 | 34.3 | 25.9 | 103 | 62.3 | 62.0 | 163 | 130.2 | 98.1 | 223 | 178.1 | 134.2 | 283 | 226.0 | 170.3 | 343 | 273.9 | 206.4 | 403 | 321.8 | 242.5 | 463 | 369.7 | 278.6 |
| 44 | 35.1 | 26.5 | 104 | 83.1 | 62.6 | 164 | 131.0 | 08.7 | 224 | 178.9 | 134.8 | 284 | 226.8 | 170.9 | 344 | 274.7 | 207.0 | 404 | 322.6 | 243.1 | 464 | 370.5 | 279.2 |
| 45 | 35.9 | 27.1 | 105 | 83.9 | 63.2 | 165 | 131.8 | 09.3 | 225 | 179.7 | 135.4 | 285 | 227.6 | 171.5 | 345 | 275.6 | 207.6 | 405 | 323.4 | 243.7 | 465 | 371.3 | 279.8 |
| 46 | 36.7 | 27.7 | 106 | 84.7 | 63.8 | 166 | 132.6 | 99.9 | 226 | 160.5 | 136.0 | 286 | 228.4 | 172.1 | 346 | 276.3 | 208.2 | 406 | 324.2 | 244.3 | 466 | 372.1 | 280.4 |
| 47 | 37.5 | 28.3 | 107 | 85.5 | 64.4 | 167 | 133.4 | 100.5 | 227 | 181.3 | 136.6 | 287 | 229.2 | 172.7 | 347 | 277.1 | 208.8 | 407 | 325.0 | 244.9 | 467 | 372.9 | 281.0 |
| 48 | 38.3 | 28.9 | 108 | 66.3 | 65.0 | 168 | 134.2 | 101.1 | 228 | 182.1 | 137.2 | 288 | 238.0 | 173.3 | 348 | 277.9 | 209.4 | 408 | 325.8 | 246.5 | 468 | 373.7 | 281.6 |
| 49 | 39.1 | 29.5 | 109 | 87.1 | 65.6 | 169 | 135.0 | 101.7 | 229 | 182.9 | 137.8 | 289 | 230.8 | 173.9 | 349 | 278.7 | 210.0 | 409 | 326.6 | 246.1 | 469 | 374.6 | 282.3 |
| 50 | 39.9 | 30.1 | 118 | 87.8 | 66.2 | 170 | 135.8 | 102.3 | 230 | 183.7 | 138.4 | 290 | 231.6 | 174.5 | 350 | 279.5 | 210.6 | 410 | 327.4 | 246.7 | 470 | 375.3 | 282.9 |
| 51 | 48.7 | 38.7 | 111 | 88.6 | 66.8 | 171 | 136.6 | 102.9 | 231 | 184.6 | 139.0 | 291 | 232.4 | 175.1 | 351 | 280.3 | 211.2 | 411 | 328.2 | 247.3 | 471 | 376.1 | 283.5 |
| 62 | 41.5 | 31.3 | 112 | 89.4 | 67.4 | 172 | 137.4 | 183.5 | 232 | 185.3 | 139.6 | 292 | 233.2 | 175.7 | 352 | 281.1 | 211.8 | 412 | 329.0 | 247.9 | 472 | 376.9 | 284.1 |
| 53 | 42.3 | 31.9 | 113 | 90.2 | 68.0 | 173 | 138.2 | 104.1 | 233 | 186.1 | 140.2 | 293 | 234.0 | 176.3 | 353 | 281.9 | 212.4 | 413 | 329.8 | 248.5 | 473 | 377.7 | 284.7 |
| 64 | 43.1 | 32.5 | 114 | 91.0 | 68.6 | 174 | 139.0 | 104.7 | 234 | 186.9 | 140.8 | 294 | 234.8 | 176.9 | 354 | 282.7 | 213.0 | 414 | 330.6 | 249.2 | 474 | 378.5 | 285.3 |
| 55 | 43.9 | 33.1 | 115 | 91.8 | 69.2 | 175 | 139.8 | 105.3 | 235 | 187.7 | 141.4 | 295 | 236.6 | 177.6 | 355 | 283.5 | 213.6 | 415 | 331.4 | 249.8 | 475 | 379.3 | 285.9 |
| 66 | 44.7 | 33.7 | 116 | 92.6 | 69.8 | 176 | 140.6 | 105.9 | 236 | 188.5 | 142.0 | 296 | 236.4 | 178.1 | 356 | 284.3 | 214.2 | 416 | 332.2 | 250.4 | 476 | 388.1 | 286.5 |
| 57 | 45.5 | 34.3 | 117 | 93.4 | 70.4 | 177 | 141.4 | 106.5 | 237 | 189.3 | 142.6 | 297 | 237.2 | 178.7 | 357 | 285.1 | 214.8 | 417 | 333.0 | 251.0 | 477 | 388.9 | 287.1 |
| 68 | 46.3 | 34.9 | 118 | 94.2 | 71.0 | 178 | 142.2 | 107.1 | 236 | 190.1 | 143.2 | 298 | 238.0 | 179.3 | 358 | 285.9 | 215.4 | 418 | 333.8 | 251.6 | 478 | 381.7 | 287.7 |
| 69 | 47.1 | 35.5 | 119 | 95.0 | 71.6 | 179 | 143.0 | 107.7 | 239 | 190.9 | 143.8 | 299 | 238.8 | 179.9 | 359 | 286.7 | 216.1 | 419 | 334.6 | 252.2 | 479 | 382.5 | 288.3 |
| 60 | 47.9 | 36.1 | 120 | 95.8 | 72.2 | 180 | 143.8 | 108.3 | 240 | 191.7 | 144.4 | 300 | 239.6 | 180.5 | 360 | 287.5 | 216.7 | 420 | 335.4 | 252.8 | 480 | 383.3 | 288.9 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 32.m Para 53 grados. 8.h 28.m

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 32.ᵐ Para 38 grados. 9.ʰ 28.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 06.6 | 61 | 48.1 | 37.6 | 121 | 95.3 | 74.5 | 181 | 142.6 | 111.4 | 241 | 189.9 | 148.4 | 301 | 237.2 | 185.3 | 361 | 284.5 | 222.3 | 421 | 331.6 | 259.2 |
| 9 | 01.6 | 81.2 | 62 | 48.9 | 38.2 | 129 | 96.1 | 75.1 | 182 | 143.4 | 112.1 | 242 | 120.7 | 149.0 | 302 | 238.0 | 185.9 | 362 | 285.3 | 222.9 | 422 | 332.5 | 259.8 |
| 3 | 02.4 | 01.8 | 63 | 49.6 | 38.8 | 123 | 96.9 | 75.7 | 183 | 144.2 | 112.7 | 243 | 121.5 | 149.6 | 303 | 238.8 | 186.6 | 363 | 986.0 | 223.5 | 423 | 333.3 | 260.4 |
| 4 | 03.2 | 02.5 | 64 | 50.4 | 39.4 | 124 | 97.7 | 76.3 | 184 | 145.0 | 113.3 | 244 | 192.3 | 160.2 | 304 | 239.6 | 187.2 | 364 | 286.8 | 224.1 | 424 | 334.1 | 261.0 |
| 5 | 03.9 | 03.1 | 65 | 51.2 | 40.0 | 125 | 98.5 | 77.0 | 185 | 145.8 | 113.9 | 245 | 193.1 | 150.8 | 305 | 240.3 | 187.5 | 365 | 287.6 | 224.7 | 425 | 334.9 | 261.7 |
| 6 | 04.7 | 03.7 | 66 | 52.0 | 40.6 | 126 | 99.3 | 77.6 | 186 | 146.6 | 114.5 | 246 | 193.9 | 151.5 | 306 | 241.1 | 188.4 | 366 | 288.4 | 225.3 | 426 | 335.7 | 262.3 |
| 7 | 05.5 | 04.3 | 67 | 52.8 | 41.2 | 127 | 100.1 | 76.2 | 187 | 147.4 | 115.1 | 247 | 124.6 | 152.1 | 307 | 241.2 | 189.0 | 367 | 289.2 | 226.0 | 427 | 336.5 | 962.9 |
| 8 | 06.3 | 04.9 | 68 | 53.6 | 41.9 | 128 | 100.9 | 78.8 | 188 | 148.1 | 115.7 | 248 | 125.4 | 152.7 | 308 | 249.7 | 189.6 | 368 | 290.0 | 226.6 | 428 | 337.3 | 963.5 |
| 9 | 07.1 | 05.5 | 69 | 51.4 | 42.5 | 122 | 101.7 | 79.4 | 189 | 148.9 | 116.4 | 249 | 196.2 | 153.3 | 309 | 243.5 | 190.2 | 369 | 290.6 | 297.2 | 422 | 338.1 | 264.1 |
| 10 | 07.9 | 06.2 | 70 | 55.2 | 43.1 | 130 | 102.4 | 80.0 | 190 | 149.7 | 117.0 | 250 | 197.0 | 153.9 | 310 | 244.3 | 190.9 | 370 | 291.6 | 227.8 | 430 | 338.8 | 264.7 |
| 11 | 08.7 | 06.8 | 71 | 55.9 | 43.7 | 131 | 103.2 | 80.7 | 121 | 150.5 | 117.6 | 251 | 197.8 | 154.5 | 311 | 245.1 | 121.5 | 371 | 222.4 | 228.4 | 431 | 339.6 | 265.4 |
| 12 | 09.5 | 07.4 | 72 | 56.7 | 41.3 | 132 | 104.0 | 81.3 | 192 | 151.3 | 118.2 | 259 | 196.6 | 155.1 | 312 | 245.2 | 199.1 | 372 | 293.1 | 222.0 | 432 | 346.4 | 266.0 |
| 13 | 10.2 | 08.0 | 73 | 57.5 | 44.9 | 133 | 104.8 | 81.9 | 193 | 152.1 | 118.8 | 253 | 199.4 | 155.8 | 313 | 246.6 | 192.7 | 373 | 223.9 | 222.6 | 433 | 341.2 | 266.6 |
| 14 | 11.0 | 08.6 | 74 | 58.3 | 45.6 | 134 | 105.6 | 82.5 | 191 | 152.9 | 119.4 | 251 | 200.2 | 156.4 | 314 | 247.4 | 193.3 | 374 | 294.7 | 236.3 | 434 | 349.6 | 267.2 |
| 15 | 11.8 | 09.2 | 75 | 59.1 | 46.9 | 135 | 106.4 | 83.1 | 195 | 153.7 | 128.1 | 255 | 200.9 | 157.0 | 315 | 248.2 | 193.9 | 375 | 295.5 | 236.2 | 135 | 342.8 | 267.8 |
| 16 | 12.6 | 09.9 | 76 | 59.9 | 46 8 | 136 | 107.9 | 83.7 | 196 | 154.5 | 120.7 | 256 | 201.7 | 157.6 | 316 | 242.0 | 194.6 | 376 | 226.3 | 231.5 | 436 | 343.6 | 968.4 |
| 17 | 13.4 | 10.5 | 77 | 60.7 | 47.4 | 137 | 108.0 | 84.3 | 197 | 155.2 | 121.3 | 257 | 202.5 | 158.2 | 317 | 242.8 | 195.2 | 377 | 297 1 | 232.1 | 437 | 344.4 | 269.1 |
| 18 | 14.2 | 11.1 | 78 | 61.5 | 48.0 | 138 | 108.7 | 85.0 | 198 | 156.0 | 121.2 | 258 | 203.3 | 158.8 | 318 | 250.6 | 195.8 | 378 | 297.9 | 232.7 | 438 | 345.2 | 269.7 |
| 19 | 15.0 | 11.7 | 72 | 62.3 | 48.6 | 139 | 109.5 | 85.6 | 199 | 156.8 | 122.5 | 252 | 204.1 | 159.5 | 319 | 251.4 | 196.4 | 372 | 298.7 | 233.3 | 439 | 345.9 | 270.3 |
| 26 | 15.8 | 12.3 | 80 | 63.0 | 49.3 | 140 | 110.3 | 86.2 | 200 | 157.6 | 123.1 | 260 | 294.9 | 160.1 | 320 | 952.2 | 197.0 | 380 | 299.4 | 234.0 | 440 | 346.7 | 278.9 |
| 21 | 16.5 | 12.9 | 81 | 63.8 | 49.9 | 141 | 111.1 | 86.8 | 201 | 158.4 | 123.7 | 261 | 205.7 | 160.7 | 321 | 253.0 | 197.6 | 381 | 300.2 | 234.6 | 441 | 317.5 | 271.5 |
| 22 | 17.3 | 13.5 | 82 | 64.6 | 50.5 | 142 | 111.9 | 87.4 | 202 | 152.2 | 124.4 | 262 | 206.5 | 161.3 | 322 | 253.7 | 198.2 | 382 | 301.0 | 235.2 | 142 | 348.3 | 272.1 |
| 23 | 18.1 | 14.2 | 83 | 65.4 | 51.1 | 143 | 112.7 | 88.0 | 203 | 160.0 | 125.0 | 263 | 207.2 | 161.2 | 323 | 254.5 | 198.9 | 383 | 301.8 | 235.6 | 443 | 349.1 | 979.7 |
| 24 | 18.9 | 14.8 | 84 | 66.2 | 51.7 | 144 | 113.5 | 68.7 | 204 | 160.8 | 125.6 | 264 | 208.0 | 162.5 | 324 | 255.3 | 199.5 | 384 | 302.6 | 236.4 | 444 | 349.9 | 273.4 |
| 25 | 12.7 | 15.4 | 85 | 67.8 | 52.3 | 145 | 114.3 | 89.3 | 205 | 161.5 | 126.2 | 265 | 208.8 | 163.2 | 325 | 256.1 | 200.1 | 385 | 303.4 | 237.0 | 445 | 350.7 | 274.0 |
| 26 | 20.5 | 16.0 | 86 | 67.8 | 52.9 | 146 | 115.0 | 89.9 | 206 | 162.3 | 126.8 | 266 | 209.6 | 163.8 | 326 | 256.9 | 200.7 | 386 | 304.2 | 237.7 | 446 | 351.5 | 274.6 |
| 27 | 21.3 | 16.6 | 87 | 68.6 | 53.6 | 147 | 115.8 | 90.5 | 207 | 163.1 | 127.4 | 267 | 210.4 | 164.4 | 327 | 257.7 | 201.3 | 387 | 305.8 | 238.3 | 447 | 352.2 | 275.2 |
| 28 | 22.1 | 17.2 | 88 | 69.3 | 54.2 | 148 | 116.6 | 91.1 | 208 | 163.9 | 128.1 | 268 | 211.2 | 165.0 | 328 | 258.5 | 201.9 | 388 | 305.7 | 238.9 | 448 | 353.6 | 275.8 |
| 29 | 22.9 | 17.9 | 82 | 70.1 | 54.8 | 149 | 117.4 | 91.7 | 209 | 164.7 | 128.7 | 269 | 212.0 | 165.6 | 322 | 252.3 | 202.6 | 389 | 306.5 | 239.5 | 449 | 353.8 | 276.4 |
| 30 | 23.6 | 18.5 | 90 | 70.9 | 55.4 | 150 | 118.2 | 92.3 | 210 | 165.5 | 129.3 | 270 | 219.8 | 166.2 | 330 | 260.0 | 203.2 | 390 | 307.3 | 240.1 | 450 | 354.6 | 277.1 |
| 31 | 21.4 | 19.1 | 91 | 71.7 | 56.0 | 151 | 119.0 | 93.0 | 211 | 166.3 | 129.2 | 271 | 213.6 | 166.8 | 331 | 260.8 | 203.8 | 391 | 308.1 | 248.7 | 451 | 355.4 | 277.7 |
| 39 | 25.2 | 19.7 | 92 | 72.5 | 56.6 | 152 | 119.8 | 93.6 | 212 | 167.1 | 130.5 | 272 | 214.3 | 167.5 | 332 | 961.6 | 204.4 | 329 | 308.9 | 241.3 | 452 | 356.2 | 278.3 |
| 33 | 96.0 | 28.3 | 93 | 73.3 | 57.3 | 153 | 120.6 | 94.2 | 213 | 167.8 | 131.1 | 273 | 915.1 | 168.1 | 333 | 262.4 | 205.0 | 393 | 309.7 | 242.0 | 453 | 357.0 | 278.2 |
| 31 | 26.8 | 26.9 | 94 | 74.1 | 57.9 | 154 | 121.4 | 94.8 | 214 | 168.6 | 131.8 | 274 | 215.9 | 168.7 | 334 | 263.2 | 205.6 | 324 | 310.5 | 242.6 | 454 | 357.8 | 272.5 |
| 35 | 27.6 | 21.5 | 25 | 74.9 | 58.5 | 155 | 122.1 | 95.4 | 215 | 162.4 | 132.4 | 275 | 216.7 | 162.3 | 335 | 264.0 | 206.3 | 325 | 311.3 | 243.2 | 455 | 358.5 | 280.1 |
| 36 | 28.4 | 22.2 | 96 | 75.6 | 59.1 | 156 | 122.9 | 96.0 | 216 | 170.2 | 133.0 | 276 | 217.5 | 162.9 | 336 | 264.8 | 206.9 | 326 | 312.1 | 943.8 | 456 | 359.3 | 280.7 |
| 37 | 29.2 | 22.8 | 97 | 76.4 | 59.7 | 157 | 123.7 | 96.7 | 217 | 171.0 | 133.6 | 277 | 218.3 | 170.5 | 337 | 265.6 | 207.5 | 327 | 312.8 | 244.4 | 457 | 366.1 | 281.4 |
| 38 | 92.9 | 23.4 | 98 | 77.2 | 60.3 | 158 | 124.5 | 97.3 | 218 | 171.8 | 134.2 | 278 | 219.1 | 171.2 | 338 | 966.3 | 288.1 | 398 | 313.6 | 245.0 | 458 | 368.9 | 282.0 |
| 39 | 30.7 | 24.0 | 99 | 78.0 | 61.0 | 159 | 125.3 | 97.2 | 212 | 179.6 | 134.8 | 279 | 219.9 | 171.8 | 339 | 267.1 | 908.7 | 329 | 314.4 | 245.7 | 432 | 361.7 | 282.6 |
| 40 | 31.5 | 91.6 | 100 | 78.8 | 61.6 | 160 | 126.1 | 96.5 | 920 | 173.4 | 135.4 | 280 | 228.6 | 172.4 | 316 | 267.9 | 209 3 | 160 | 315.2 | 946.3 | 460 | 362.5 | 283.2 |
| 41 | 32.3 | 25.9 | 101 | 79.6 | 62.2 | 161 | 126.9 | 99.1 | 221 | 174.2 | 136.1 | 281 | 221.4 | 173.0 | 341 | 268.7 | 209.9 | 401 | 316.6 | 246.9 | 461 | 363.3 | 983.8 |
| 42 | 33.1 | 95.9 | 102 | 86.4 | 62.8 | 169 | 127.7 | 92.7 | 222 | 174.9 | 136.7 | 282 | 222.2 | 173.6 | 342 | 262.5 | 218.6 | 402 | 316.6 | 947.5 | 469 | 364.1 | 284.4 |
| 43 | 33.9 | 26.5 | 103 | 81.2 | 63.4 | 163 | 198.4 | 100.4 | 223 | 175.7 | 137.3 | 283 | 223.0 | 174.9 | 343 | 270.3 | 211.9 | 403 | 317.6 | 948.1 | 463 | 364.9 | 285.1 |
| 44 | 34.7 | 27.1 | 104 | 82.0 | 64.0 | 164 | 129.2 | 161.0 | 221 | 176.5 | 137.9 | 284 | 223.8 | 174.8 | 344 | 271.1 | 211.8 | 404 | 318.4 | 248.7 | 464 | 365.6 | 285.7 |
| 45 | 35.5 | 27.7 | 105 | 82.7 | 64.6 | 165 | 130.0 | 101.6 | 225 | 177.3 | 138.5 | 285 | 224.6 | 175.5 | 345 | 271.9 | 912.4 | 405 | 312.1 | 249.3 | 165 | 366.4 | 286.3 |
| 46 | 36.2 | 28.3 | 106 | 83.5 | 65.3 | 166 | 130.8 | 109.9 | 226 | 178.1 | 139.1 | 286 | 225.4 | 176.1 | 346 | 279.7 | 213.6 | 406 | 319.9 | 250.0 | 466 | 367.2 | 986.9 |
| 47 | 37.0 | 28.9 | 107 | 84.3 | 65.9 | 167 | 131.6 | 102.8 | 227 | 178.9 | 139.8 | 287 | 226.2 | 176.7 | 347 | 273.4 | 213.6 | 407 | 328.7 | 950.6 | 467 | 368.0 | 287.5 |
| 48 | 37.8 | 29.6 | 108 | 85.1 | 66.5 | 168 | 132.4 | 103.4 | 228 | 179.7 | 140.4 | 288 | 226.9 | 177.3 | 348 | 274.9 | 214.3 | 408 | 321.5 | 251.2 | 168 | 368.8 | 288.1 |
| 49 | 38.6 | 30.2 | 109 | 85.9 | 67.1 | 169 | 133.9 | 104.0 | 229 | 180.5 | 141.0 | 289 | 227.7 | 177.9 | 349 | 275.0 | 214.9 | 402 | 322.3 | 251.8 | 469 | 369.6 | 288.7 |
| 50 | 39.4 | 30.8 | 110 | 86.7 | 67.7 | 170 | 134.0 | 104.7 | 230 | 181.2 | 141.6 | 990 | 298.5 | 178.5 | 350 | 975.8 | 215.5 | 410 | 393.1 | 252.4 | 478 | 376.4 | 289.3 |
| 51 | 40.2 | 31.4 | 111 | 87.5 | 68.3 | 171 | 134.7 | 105.3 | 231 | 189.6 | 142.2 | 291 | 229.3 | 179.2 | 351 | 276.6 | 916.1 | 411 | 323.9 | 253.0 | 471 | 371.9 | 920.8 |
| 52 | 41.0 | 39.0 | 112 | 88.3 | 62.0 | 172 | 135.5 | 105.9 | 232 | 182.8 | 149.8 | 299 | 230.1 | 179.8 | 352 | 977.4 | 216.7 | 412 | 324.7 | 253.7 | 472 | 371.9 | 290.6 |
| 53 | 41.8 | 32.6 | 113 | 89.0 | 69.6 | 173 | 136.3 | 106.5 | 233 | 183.6 | 143.4 | 293 | 930.9 | 180.4 | 353 | 978.2 | 217.3 | 413 | 325.5 | 254.3 | 173 | 372.7 | 291.2 |
| 54 | 42.6 | 33.2 | 114 | 89.8 | 70.2 | 174 | 137.1 | 107.1 | 234 | 181.4 | 144.1 | 294 | 231.7 | 181.8 | 354 | 279.0 | 218.0 | 414 | 326.2 | 254.9 | 474 | 373.5 | 291.8 |
| 55 | 43.3 | 33.9 | 115 | 90.6 | 70.8 | 175 | 137.9 | 107.7 | 935 | 185.2 | 144.7 | 295 | 232.5 | 181.6 | 355 | 279.7 | 218.6 | 415 | 327.0 | 255.5 | 475 | 374.3 | 292.4 |
| 56 | 44.1 | 34.5 | 116 | 91.4 | 71.4 | 176 | 138.7 | 108.4 | 236 | 186.0 | 145.3 | 996 | 233.3 | 182.2 | 356 | 280.5 | 219.2 | 416 | 327.8 | 256.1 | 476 | 375.1 | 293.1 |
| 57 | 41.9 | 35.1 | 117 | 92.2 | 72.0 | 177 | 139.5 | 109.0 | 937 | 186.6 | 145.9 | 997 | 934.0 | 182.9 | 357 | 981.3 | 219.8 | 417 | 326.6 | 256.7 | 477 | 375.9 | 293.7 |
| 58 | 45.7 | 35.7 | 118 | 93.8 | 72.6 | 178 | 140.3 | 109.6 | 238 | 187.5 | 146.5 | 998 | 234.8 | 183.5 | 358 | 982.1 | 228.4 | 418 | 329.4 | 257.4 | 478 | 376.7 | 294.3 |
| 59 | 46.5 | 36.3 | 119 | 93.8 | 73.3 | 179 | 141.1 | 110.2 | 939 | 188.3 | 147.1 | 999 | 235.6 | 184.1 | 359 | 282.9 | 221.8 | 419 | 330.2 | 258.0 | 479 | 377.5 | 294.9 |
| 60 | 47.3 | 36.9 | 120 | 94.6 | 73.9 | 180 | 141.8 | 110.8 | 940 | 189.1 | 147.8 | 308 | 236.4 | 184.7 | 360 | 283.7 | 221.6 | 420 | 331.6 | 258.6 | 480 | 378.2 | 295.5 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

5.ʰ 28.ᵐ Para 52 grados. 8.ʰ 32.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 36.ᵐ — Para 39 grados. — 9.ʰ 24.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 61 | 47.4 | 38.4 | 121 | 94.0 | 76.1 | 181 | 140.7 | 113.9 | 241 | 187.3 | 151.7 | 301 | 233.9 | 189.4 | 361 | 280.9 | 227.1 | 421 | 327.2 | 264.9 |
| 2 | 01.6 | 01.3 | 62 | 48.2 | 39.0 | 122 | 94.8 | 76.8 | 182 | 141.4 | 114.5 | 242 | 188.1 | 152.3 | 302 | 234.7 | 190.0 | 362 | 281.3 | 227.8 | 422 | 328.0 | 265.5 |
| 3 | 02.3 | 01.9 | 63 | 49.0 | 39.6 | 123 | 95.6 | 77.4 | 183 | 142.2 | 115.2 | 243 | 188.8 | 152.9 | 303 | 235.5 | 190.6 | 363 | 289.1 | 228.4 | 423 | 328.7 | 266.2 |
| 4 | 03.1 | 02.5 | 64 | 49.7 | 40.3 | 124 | 96.4 | 78.0 | 184 | 143.0 | 115.8 | 244 | 189.6 | 153.6 | 304 | 238.3 | 191.3 | 364 | 282.9 | 229.0 | 424 | 329.5 | 266.8 |
| 5 | 03.9 | 03.1 | 65 | 50.5 | 40.9 | 125 | 97.1 | 78.7 | 185 | 143.8 | 116.4 | 245 | 190.4 | 154.2 | 305 | 237.0 | 191.9 | 365 | 283.7 | 229.7 | 425 | 330.5 | 267.4 |
| 6 | 04.7 | 03.8 | 66 | 51.3 | 41.5 | 126 | 97.9 | 79.3 | 186 | 141.5 | 117.1 | 246 | 191.2 | 154.8 | 306 | 237.0 | 192.5 | 366 | 284.4 | 230.3 | 426 | 331.1 | 269.0 |
| 7 | 05.4 | 04.4 | 67 | 52.1 | 42.2 | 127 | 98.7 | 79.9 | 187 | 145.3 | 117.7 | 247 | 192.0 | 155.4 | 307 | 238.6 | 193.2 | 367 | 285.2 | 240.9 | 427 | 331.9 | 266.7 |
| 8 | 06.2 | 05.0 | 68 | 52.8 | 42.8 | 128 | 99.5 | 80.6 | 188 | 148.1 | 118.3 | 248 | 192.7 | 156.1 | 308 | 239.4 | 193.8 | 368 | 286.0 | 231.5 | 428 | 332.6 | 269.5 |
| 9 | 07.0 | 05.7 | 69 | 53.6 | 43.4 | 129 | 100.3 | 81.2 | 189 | 148.9 | 118.9 | 249 | 193.5 | 159.7 | 309 | 240.1 | 194.4 | 369 | 286.8 | 232.2 | 429 | 333.4 | 269.9 |
| 10 | 07.8 | 06.3 | 70 | 51.4 | 44.1 | 130 | 101.0 | 81.8 | 190 | 147.7 | 119.6 | 250 | 194.3 | 157.3 | 310 | 240.2 | 195.0 | 370 | 287.6 | 232.8 | 430 | 334.2 | 270.6 |
| 11 | 08.6 | 06.9 | 71 | 55.2 | 44.7 | 131 | 101.8 | 82.4 | 191 | 148.4 | 120.2 | 251 | 195.1 | 158.0 | 311 | 241.7 | 195.7 | 371 | 288.3 | 233.4 | 431 | 335.0 | 271.2 |
| 12 | 09.3 | 07.6 | 72 | 56.0 | 45.3 | 132 | 102.6 | 83.1 | 192 | 149.2 | 120.8 | 252 | 195.8 | 150.6 | 312 | 242.5 | 196.3 | 372 | 289.1 | 234.1 | 432 | 335.7 | 271.8 |
| 13 | 10.1 | 08.2 | 73 | 56.7 | 45.9 | 133 | 103.4 | 83.7 | 193 | 150.0 | 121.5 | 253 | 199.6 | 159.2 | 313 | 243.3 | 196.9 | 373 | 289.9 | 234.7 | 433 | 316.5 | 272.5 |
| 14 | 10.9 | 08.8 | 74 | 57.5 | 46.6 | 134 | 101.1 | 84.3 | 194 | 150.8 | 122.1 | 254 | 197.4 | 159.8 | 314 | 244.0 | 197.8 | 374 | 290.7 | 235.3 | 434 | 337.3 | 273.1 |
| 15 | 11.7 | 09.4 | 75 | 58.3 | 47.2 | 135 | 104.9 | 85.0 | 195 | 151.5 | 122.7 | 255 | 198.2 | 160.5 | 315 | 244.8 | 198.2 | 375 | 291.4 | 236.0 | 435 | 338.1 | 273.7 |
| 16 | 12.4 | 10.1 | 76 | 59.1 | 47.8 | 136 | 105.7 | 85.6 | 196 | 152.3 | 123.3 | 256 | 198.9 | 161.1 | 316 | 245.6 | 190.8 | 376 | 292.2 | 236.6 | 436 | 338.0 | 274.3 |
| 17 | 13.2 | 10.7 | 77 | 59.8 | 48.5 | 137 | 106.5 | 89.2 | 197 | 153.1 | 121.0 | 257 | 199.7 | 161.7 | 317 | 246.4 | 199.5 | 377 | 293.0 | 237.2 | 437 | 339.6 | 275.0 |
| 18 | 14.0 | 11.3 | 78 | 60.8 | 49.1 | 138 | 107.2 | 88.8 | 198 | 153.9 | 124.6 | 258 | 200.5 | 162.4 | 318 | 247.1 | 200.1 | 378 | 293.8 | 237.8 | 438 | 340.4 | 275.6 |
| 19 | 14.8 | 12.0 | 79 | 61.4 | 49.7 | 139 | 108.0 | 87.5 | 199 | 154.7 | 125.2 | 259 | 201.3 | 163.0 | 319 | 217.9 | 200.7 | 379 | 294.5 | 238.5 | 439 | 341.9 | 276.2 |
| 20 | 15.5 | 12.6 | 80 | 62.2 | 50.3 | 140 | 108.8 | 88.1 | 200 | 155.4 | 125.9 | 260 | 202.1 | 163.6 | 320 | 249.7 | 201.3 | 380 | 295.3 | 239.1 | 440 | 342.0 | 279.9 |
| 21 | 16.3 | 13.2 | 81 | 62.9 | 51.0 | 141 | 109.6 | 88.7 | 201 | 156.2 | 126.5 | 261 | 202.8 | 164.3 | 321 | 249.5 | 202.0 | 381 | 296.1 | 239.7 | 441 | 342.7 | 277.5 |
| 22 | 17.1 | 13.8 | 82 | 63.7 | 51.6 | 142 | 110.4 | 89.4 | 202 | 157.0 | 127.1 | 262 | 203.6 | 164.9 | 322 | 250.3 | 202.6 | 382 | 299.9 | 240.4 | 442 | 343.5 | 278.1 |
| 23 | 17.9 | 14.5 | 83 | 64.5 | 52.2 | 143 | 111.1 | 90.0 | 203 | 157.8 | 127.8 | 263 | 204.4 | 165.5 | 323 | 251.0 | 203.2 | 383 | 297.7 | 241.0 | 443 | 314.3 | 278.7 |
| 24 | 18.7 | 15.1 | 84 | 65.3 | 52.9 | 144 | 111.9 | 90.6 | 204 | 158.5 | 128.4 | 264 | 205.9 | 166.1 | 324 | 251.8 | 203.9 | 384 | 298.4 | 241.6 | 444 | 345.1 | 279.4 |
| 25 | 19.4 | 15.7 | 85 | 66.1 | 53.5 | 145 | 112.7 | 91.3 | 205 | 159.3 | 129.0 | 265 | 205.9 | 166.8 | 325 | 259.6 | 204.5 | 385 | 299.2 | 242.2 | 445 | 345.9 | 280.0 |
| 26 | 20.2 | 16.4 | 86 | 66.8 | 54.1 | 146 | 113.5 | 91.9 | 206 | 160.1 | 129.6 | 266 | 206.7 | 187.4 | 326 | 253.4 | 205.1 | 386 | 300.0 | 242.9 | 446 | 316.6 | 280.6 |
| 27 | 21.0 | 17.0 | 87 | 67.6 | 54.8 | 147 | 114.2 | 92.5 | 207 | 160.9 | 130.3 | 267 | 207.5 | 168.0 | 327 | 254.1 | 205.7 | 387 | 300.8 | 243.5 | 447 | 347.4 | 281.5 |
| 28 | 21.8 | 17.6 | 88 | 68.4 | 55.4 | 148 | 115.0 | 93.1 | 208 | 161.6 | 130.9 | 268 | 208.3 | 168.7 | 328 | 254.9 | 206.4 | 388 | 301.5 | 244.1 | 448 | 348.9 | 281.9 |
| 29 | 22.5 | 18.3 | 89 | 69.2 | 56.0 | 149 | 115.8 | 93.8 | 209 | 162.4 | 131.5 | 269 | 209.1 | 169.3 | 329 | 255.7 | 207.0 | 389 | 302.3 | 241.8 | 449 | 349.0 | 282.5 |
| 30 | 23.3 | 18.9 | 90 | 69.9 | 56.6 | 150 | 116.6 | 94.4 | 210 | 163.2 | 132.2 | 270 | 209.0 | 169.9 | 330 | 256.5 | 207.6 | 390 | 303.1 | 245.4 | 450 | 349.7 | 283.9 |
| 31 | 24.1 | 19.5 | 91 | 70.7 | 57.3 | 151 | 117.3 | 95.0 | 211 | 164.0 | 132.8 | 271 | 210.6 | 170.5 | 331 | 257.9 | 208.3 | 391 | 303.9 | 246.0 | 451 | 350.5 | 283.8 |
| 32 | 24.9 | 20.1 | 92 | 71.5 | 57.9 | 152 | 118.1 | 95.7 | 212 | 164.8 | 133.4 | 272 | 211.4 | 171.2 | 332 | 258.0 | 208.9 | 392 | 304.7 | 246.7 | 452 | 351.3 | 284.4 |
| 33 | 25.6 | 20.8 | 93 | 72.3 | 58.5 | 153 | 118.9 | 96.3 | 213 | 165.5 | 134.0 | 273 | 212.2 | 171.8 | 333 | 258.8 | 209.5 | 393 | 305.4 | 247.3 | 453 | 352.1 | 285.0 |
| 34 | 26.4 | 21.4 | 94 | 73.1 | 59.2 | 154 | 119.7 | 98.9 | 214 | 166.3 | 134.7 | 274 | 212.9 | 179.4 | 334 | 259.6 | 210.2 | 394 | 308.2 | 247.9 | 454 | 352.9 | 285.7 |
| 35 | 27.2 | 22.0 | 95 | 73.8 | 59.8 | 155 | 120.5 | 97.5 | 215 | 167.1 | 135.3 | 275 | 213.7 | 173.1 | 335 | 260.4 | 210.8 | 395 | 307.0 | 240.5 | 455 | 353.6 | 286.3 |
| 36 | 28.0 | 22.7 | 96 | 74.8 | 60.4 | 156 | 121.2 | 98.2 | 216 | 167.9 | 135.9 | 276 | 214.5 | 173.7 | 336 | 261.1 | 211.4 | 396 | 307.8 | 249.2 | 456 | 354.4 | 288.9 |
| 37 | 28.8 | 23.3 | 97 | 75.4 | 61.0 | 157 | 122.0 | 98.8 | 217 | 168.6 | 136.6 | 277 | 215.3 | 174.3 | 337 | 261.9 | 212.0 | 397 | 308.5 | 249.8 | 457 | 355.2 | 287.6 |
| 38 | 29.5 | 23.9 | 98 | 76.2 | 61.7 | 158 | 122.8 | 99.4 | 218 | 169.4 | 137.2 | 278 | 216.0 | 175.0 | 338 | 262.7 | 212.7 | 398 | 309.3 | 250.4 | 458 | 355.9 | 288.9 |
| 39 | 30.3 | 24.5 | 99 | 78.9 | 62.3 | 159 | 123.6 | 100.1 | 219 | 170.2 | 137.8 | 279 | 216.8 | 175.6 | 339 | 263.5 | 213.3 | 399 | 310.1 | 251.1 | 459 | 159.7 | 288.8 |
| 40 | 31.1 | 25.2 | 100 | 77.7 | 62.9 | 160 | 121.3 | 100.7 | 220 | 171.0 | 138.5 | 280 | 217.6 | 179.2 | 340 | 264.2 | 213.9 | 400 | 310.9 | 251.7 | 460 | 357.5 | 209.4 |
| 41 | 31.9 | 25.8 | 101 | 78.5 | 63.6 | 161 | 125.1 | 101.3 | 221 | 171.7 | 139.1 | 281 | 218.4 | 176.8 | 341 | 265.0 | 214.6 | 401 | 311.6 | 252.3 | 461 | 358.5 | 290.1 |
| 42 | 32.6 | 26.4 | 102 | 79.3 | 64.2 | 162 | 125.9 | 101.9 | 222 | 172.5 | 139.7 | 282 | 219.2 | 177.5 | 342 | 265.8 | 215.2 | 402 | 312.4 | 259.9 | 462 | 359.1 | 290.7 |
| 43 | 33.4 | 27.1 | 103 | 80.0 | 64.8 | 163 | 126.7 | 102.6 | 223 | 173.3 | 140.3 | 283 | 219.9 | 176.1 | 343 | 266.6 | 215.8 | 403 | 313.9 | 253.6 | 463 | 359.8 | 291.3 |
| 44 | 34.2 | 27.7 | 104 | 80.8 | 65.4 | 164 | 127.5 | 103.2 | 224 | 174.1 | 141.0 | 284 | 220.7 | 170.7 | 344 | 267.3 | 216.4 | 404 | 314.0 | 254.2 | 464 | 360.6 | 299.0 |
| 45 | 35.0 | 28.3 | 105 | 81.6 | 66.1 | 165 | 128.2 | 103.8 | 225 | 174.9 | 141.6 | 285 | 221.5 | 179.4 | 345 | 266.1 | 217.1 | 405 | 314.6 | 254.8 | 465 | 361.4 | 292.6 |
| 46 | 35.7 | 28.9 | 106 | 82.4 | 66.7 | 166 | 129.0 | 104.5 | 226 | 175.6 | 142.2 | 286 | 222.3 | 180.0 | 346 | 268.9 | 217.7 | 406 | 315.5 | 255.5 | 466 | 369.2 | 293.2 |
| 47 | 39.5 | 29.6 | 107 | 83.2 | 67.3 | 167 | 129.8 | 105.1 | 227 | 176.4 | 142.9 | 287 | 223.0 | 180.6 | 347 | 269.7 | 210.3 | 407 | 316.3 | 256.1 | 467 | 362.9 | 293.8 |
| 48 | 37.3 | 30.2 | 108 | 83.9 | 68.0 | 168 | 130.6 | 105.7 | 228 | 177.2 | 143.5 | 288 | 223.0 | 181.2 | 348 | 270.5 | 219.0 | 408 | 317.1 | 256.7 | 468 | 363.7 | 294.5 |
| 49 | 38.1 | 30.8 | 109 | 84.7 | 68.6 | 169 | 131.3 | 106.4 | 229 | 178.0 | 144.1 | 289 | 224.6 | 181.9 | 349 | 271.2 | 219.6 | 409 | 317.9 | 257.3 | 469 | 364.5 | 295.1 |
| 50 | 38.9 | 31.5 | 110 | 85.5 | 69.2 | 170 | 132.1 | 107.0 | 230 | 178.7 | 144.7 | 290 | 225.4 | 182.5 | 350 | 272.0 | 220.2 | 410 | 318.6 | 238.0 | 470 | 365.3 | 295.7 |
| 51 | 39.6 | 32.1 | 111 | 86.3 | 99.9 | 171 | 132.9 | 107.6 | 231 | 179.5 | 145.4 | 291 | 226.1 | 183.1 | 351 | 272.8 | 220.8 | 411 | 319.4 | 258.6 | 471 | 366.0 | 296.4 |
| 52 | 40.4 | 32.7 | 112 | 87.0 | 70.5 | 172 | 133.7 | 108.2 | 232 | 180.3 | 146.0 | 292 | 226.9 | 183.8 | 352 | 273.6 | 221.5 | 412 | 320.9 | 259.2 | 472 | 366.8 | 297.0 |
| 53 | 41.2 | 33.4 | 113 | 87.8 | 71.1 | 173 | 134.4 | 108.9 | 233 | 181.1 | 146.6 | 293 | 227.7 | 184.4 | 353 | 274.3 | 292.1 | 413 | 321.0 | 259.9 | 473 | 367.6 | 297.6 |
| 54 | 42.0 | 34.0 | 114 | 88.6 | 71.7 | 174 | 135.2 | 109.5 | 234 | 181.9 | 147.3 | 294 | 228.5 | 185.0 | 354 | 275.1 | 222.7 | 414 | 321.8 | 260.5 | 474 | 368.4 | 298.3 |
| 55 | 42.7 | 31.6 | 115 | 89.4 | 72.4 | 175 | 136.0 | 110.1 | 235 | 182.6 | 147.9 | 295 | 229.3 | 185.6 | 355 | 275.9 | 223.4 | 415 | 329.5 | 261.1 | 475 | 369.2 | 298.9 |
| 56 | 43.5 | 35.2 | 116 | 90.1 | 73.0 | 176 | 136.8 | 110.8 | 236 | 183.4 | 140.5 | 296 | 230.0 | 186.3 | 356 | 276.7 | 224.0 | 416 | 323.3 | 261.8 | 476 | 369.9 | 299.5 |
| 57 | 44.3 | 35.9 | 117 | 90.9 | 73.6 | 177 | 137.6 | 111.4 | 237 | 184.2 | 149.1 | 297 | 230.8 | 186.9 | 357 | 277.5 | 224.6 | 417 | 324.1 | 262.4 | 477 | 370.7 | 300.1 |
| 58 | 45.1 | 36.5 | 118 | 91.7 | 74.3 | 178 | 138.3 | 112.0 | 238 | 185.0 | 149.8 | 298 | 231.6 | 187.5 | 358 | 278.9 | 225.3 | 418 | 324.9 | 263.0 | 478 | 371.5 | 300.8 |
| 59 | 45.9 | 37.1 | 119 | 92.5 | 74.9 | 179 | 139.1 | 112.6 | 239 | 185.7 | 150.4 | 299 | 232.4 | 188.2 | 359 | 279.0 | 225.9 | 419 | 325.6 | 263.6 | 479 | 372.3 | 301.4 |
| 60 | 46.6 | 37.8 | 120 | 93.3 | 75.5 | 180 | 139.9 | 113.3 | 240 | 188.5 | 151.0 | 300 | 233.1 | 188.8 | 360 | 279.8 | 226.5 | 420 | 326.4 | 264.3 | 480 | 373.0 | 302.0 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 24.ᵐ — Para 51 grados. — 8.ʰ 36.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

$2.^h$ $40.^m$ — Para 40 grados. — $9.^h$ $20.^m$

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.6 | 01 | 46.7 | 39.2 | 121 | 92.7 | 77.8 | 181 | 138.7 | 116.3 | 241 | 184.6 | 154.9 | 301 | 230.9 | 193.5 | 361 | 276.5 | 232.1 | 421 | 329.6 | 970.6 |
| 2 | 01.5 | 01.3 | 62 | 47.5 | 39.9 | 122 | 93.0 | 78.4 | 182 | 139.4 | 117.0 | 242 | 185.4 | 155.6 | 302 | 231.3 | 194.1 | 362 | 277.3 | 232.7 | 422 | 323.3 | 271.3 |
| 3 | 02.3 | 01.9 | 53 | 48.3 | 40.5 | 123 | 94.2 | 79.1 | 183 | 140.9 | 117.6 | 243 | 186.1 | 156.2 | 303 | 239.1 | 194.8 | 363 | 278.1 | 233.3 | 423 | 324.6 | 271.9 |
| 4 | 03.1 | 02.6 | 64 | 49.0 | 41.1 | 124 | 95.0 | 79.7 | 104 | 141.0 | 118.3 | 244 | 186.9 | 156.0 | 304 | 239.9 | 195.4 | 364 | 978.8 | 234.0 | 424 | 324.9 | 272.6 |
| 9 | 03.8 | 03.2 | 65 | 49.6 | 41.8 | 125 | 95.8 | 00.3 | 105 | 111.7 | 118.9 | 215 | 187.7 | 157.5 | 305 | 233.9 | 196.1 | 365 | 279.6 | 234.6 | 425 | 325.6 | 273.2 |
| 6 | 04.6 | 05.9 | 66 | 50.6 | 42.4 | 126 | 96.5 | 81.0 | 186 | 142.5 | 119.6 | 246 | 188.4 | 156.1 | 306 | 234.4 | 196.7 | 366 | 280.4 | 235.3 | 426 | 326.3 | 273.8 |
| 7 | 05.4 | 64.5 | 67 | 51.3 | 43.1 | 127 | 97.3 | 81.6 | 187 | 143.3 | 120.2 | 247 | 189.2 | 158.8 | 307 | 235.2 | 197.3 | 367 | 281.1 | 235.9 | 427 | 327.1 | 274.5 |
| 8 | 06.1 | 05.1 | 68 | 52.1 | 43.7 | 120 | 98.1 | 82.3 | 180 | 144.6 | 190.8 | 248 | 190.0 | 159.4 | 308 | 235.9 | 198.0 | 368 | 981.9 | 236.0 | 428 | 327.9 | 275.1 |
| 9 | 06.9 | 06.8 | 69 | 52.9 | 44.4 | 129 | 98.8 | 82.9 | 189 | 144.8 | 121.5 | 249 | 190.7 | 166.1 | 309 | 236.7 | 198.6 | 369 | 282.7 | 237.2 | 429 | 326.9 | 975.8 |
| 16 | 67.7 | 66.4 | 76 | 53.9 | 45.0 | 130 | 99.6 | 83.6 | 190 | 140.5 | 122.1 | 250 | 191.5 | 196.7 | 310 | 237.9 | 199.3 | 370 | 283.4 | 237.8 | 430 | 329.4 | 976.4 |
| 11 | 08.4 | 07.1 | 71 | 54.4 | 45.6 | 131 | 100.4 | 84.2 | 191 | 146.3 | 122.8 | 251 | 199.5 | 161.3 | 311 | 238.9 | 199.9 | 371 | 984.2 | 230.5 | 131 | 330.9 | 277.1 |
| 12 | 09.2 | 67.7 | 72 | 55.9 | 46.3 | 132 | 101.1 | 81.8 | 192 | 147.1 | 123.4 | 252 | 193.0 | 169.0 | 312 | 239.0 | 200.6 | 379 | 285.0 | 239.1 | 132 | 330.9 | 277.7 |
| 13 | 10.0 | 06.4 | 73 | 55.9 | 46.9 | 133 | 101.9 | 85.5 | 193 | 147.8 | 124.1 | 253 | 193.8 | 162.6 | 313 | 239.6 | 201.2 | 373 | 985.7 | 239.7 | 433 | 331.7 | 270.3 |
| 14 | 10.7 | 09.0 | 74 | 56.7 | 47.6 | 134 | 102.6 | 86.1 | 194 | 146.6 | 121.7 | 254 | 194.6 | 163.3 | 314 | 246.5 | 201.8 | 374 | 986.5 | 240.4 | 434 | 332.5 | 979.0 |
| 15 | 11.5 | 09.8 | 75 | 57.5 | 48.2 | 135 | 103.4 | 86.8 | 195 | 149.4 | 125.3 | 255 | 195.3 | 163.9 | 315 | 241.3 | 202.5 | 375 | 287.3 | 241.0 | 435 | 333.2 | 279.6 |
| 16 | 12.3 | 10.3 | 76 | 50.9 | 48.9 | 136 | 104.2 | 87.4 | 196 | 150.1 | 196.0 | 256 | 196.1 | 164.6 | 316 | 249.1 | 203.1 | 376 | 288.0 | 241.7 | 436 | 334.0 | 280.3 |
| 17 | 13.0 | 19.9 | 77 | 59.6 | 49.5 | 137 | 104.9 | 88.1 | 197 | 150.9 | 126.6 | 257 | 196.9 | 160.2 | 317 | 242.8 | 203.8 | 377 | 988.8 | 242.3 | 437 | 334.0 | 280.9 |
| 10 | 13.0 | 11.6 | 78 | 59.6 | 50.1 | 138 | 105.7 | 88.7 | 198 | 151.7 | 127.3 | 256 | 197.6 | 165.8 | 318 | 243.9 | 204.4 | 378 | 289.6 | 243.0 | 438 | 330.5 | 901.5 |
| 19 | 14.6 | 12.2 | 79 | 90.5 | 50.8 | 139 | 106.5 | 89.3 | 199 | 152.4 | 127.9 | 259 | 198.4 | 160.5 | 319 | 241.4 | 205.1 | 379 | 290.3 | 213.6 | 439 | 335.3 | 289.2 |
| 90 | 15.3 | 19.9 | 60 | 91.3 | 51.4 | 146 | 107.9 | 90.0 | 200 | 153.9 | 120.6 | 260 | 199.2 | 167.1 | 320 | 245.1 | 205.7 | 380 | 291.1 | 244.3 | 440 | 337.1 | 282.0 |
| 21 | 16.1 | 13.5 | 01 | 62.0 | 52.1 | 141 | 108.6 | 90.6 | 201 | 154.6 | 129.2 | 261 | 199.9 | 197.8 | 321 | 245.9 | 206.3 | 381 | 291.9 | 244.9 | 441 | 337.0 | 203.5 |
| 22 | 10.9 | 14.1 | 82 | 62.0 | 52.7 | 142 | 168.8 | 91.3 | 202 | 154.7 | 129.8 | 269 | 200.7 | 166.4 | 392 | 246.7 | 207.0 | 382 | 992.6 | 240.6 | 442 | 336.5 | 284.1 |
| 23 | 17.6 | 14.8 | 83 | 95.9 | 53.4 | 143 | 109.5 | 91.9 | 203 | 155.5 | 130.5 | 263 | 201.5 | 169.1 | 323 | 247.4 | 207.6 | 383 | 293.4 | 246.2 | 443 | 339.4 | 981.8 |
| 24 | 18.4 | 15.4 | 84 | 64.3 | 54.0 | 144 | 110.5 | 92.6 | 204 | 156.3 | 131.1 | 964 | 202.2 | 109.7 | 324 | 248.9 | 208.3 | 384 | 294.2 | 246.0 | 444 | 340.1 | 285.4 |
| 20 | 19.2 | 16.1 | 85 | 95.1 | 54.6 | 145 | 111.1 | 93.2 | 205 | 157.0 | 131.0 | 265 | 203.0 | 170.3 | 325 | 249.0 | 208.9 | 385 | 294.9 | 247.5 | 445 | 340.9 | 285.0 |
| 96 | 19.9 | 16.7 | 86 | 65.9 | 55.3 | 146 | 111.8 | 93.8 | 206 | 157.8 | 132.4 | 266 | 203.8 | 171.0 | 326 | 249.7 | 209.6 | 386 | 295.7 | 246.1 | 446 | 341.7 | 986.7 |
| 97 | 96.7 | 17.4 | 87 | 66.5 | 55.9 | 147 | 119.6 | 94.5 | 207 | 150.9 | 133.1 | 267 | 994.5 | 171.6 | 327 | 256.5 | 210.2 | 387 | 296.5 | 210.8 | 447 | 342.4 | 987.3 |
| 26 | 91.4 | 18.0 | 88 | 67.4 | 56.6 | 148 | 113.4 | 95.1 | 208 | 159.3 | 133.7 | 260 | 205.3 | 179.3 | 328 | 251.3 | 210.8 | 388 | 297.9 | 249.4 | 448 | 343.2 | 288.0 |
| 99 | 99.2 | 18.6 | 09 | 68.2 | 57.2 | 149 | 114.1 | 95.0 | 209 | 160.1 | 134.3 | 269 | 206.1 | 179.9 | 329 | 252.0 | 211.5 | 389 | 298.6 | 250.1 | 449 | 344.0 | 280.6 |
| 30 | 23.0 | 19.3 | 90 | 68.9 | 57.9 | 150 | 114.9 | 96.4 | 210 | 160.9 | 135.0 | 270 | 206.8 | 173.5 | 330 | 252.8 | 212.1 | 390 | 298.8 | 256.7 | 450 | 344.7 | 289.3 |
| 31 | 93.7 | 19.9 | 91 | 69.7 | 58.5 | 151 | 110.7 | 97.1 | 211 | 161.9 | 135.6 | 271 | 207.6 | 174.9 | 331 | 253.6 | 212.8 | 391 | 299.5 | 251.3 | 451 | 345.5 | 289.9 |
| 32 | 24.5 | 20.6 | 92 | 70.5 | 59.1 | 152 | 110.4 | 97.7 | 212 | 162.4 | 136.3 | 272 | 208.4 | 174.8 | 332 | 254.3 | 213.4 | 392 | 300.5 | 952.0 | 452 | 346.3 | 290.5 |
| 33 | 95.5 | 91.2 | 93 | 71.2 | 59.8 | 155 | 117.9 | 98.3 | 213 | 163.2 | 136.9 | 273 | 909.1 | 175.5 | 333 | 255.1 | 214.1 | 393 | 301.1 | 252.6 | 453 | 347.0 | 291.9 |
| 34 | 99.0 | 91.9 | 94 | 72.9 | 60.4 | 154 | 118.0 | 99.0 | 211 | 163.9 | 137.6 | 274 | 209.9 | 179.1 | 334 | 255.9 | 214.7 | 394 | 301.8 | 253.3 | 454 | 347.8 | 291.8 |
| 35 | 29.0 | 22.5 | 95 | 79.9 | 61.1 | 155 | 118.7 | 99.6 | 215 | 164.7 | 138.9 | 275 | 210.7 | 176.8 | 335 | 256.0 | 215.3 | 395 | 302.6 | 253.9 | 455 | 346.6 | 292.5 |
| 36 | 27.9 | 23.1 | 96 | 73.5 | 61.7 | 156 | 119.5 | 106.3 | 216 | 165.5 | 130.0 | 279 | 211.4 | 177.4 | 336 | 257.4 | 216.0 | 396 | 303.4 | 254.6 | 456 | 349.3 | 293.1 |
| 57 | 98.3 | 93.8 | 97 | 74.3 | 62.4 | 157 | 120.3 | 100.9 | 217 | 166.9 | 139.5 | 277 | 912.2 | 176.1 | 337 | 258.2 | 216.6 | 397 | 304.1 | 255.2 | 157 | 350.1 | 293.8 |
| 36 | 29.1 | 24.4 | 98 | 75.1 | 63.0 | 158 | 121.0 | 101.6 | 218 | 167.9 | 140.1 | 278 | 213.6 | 179.7 | 338 | 258.9 | 217.3 | 398 | 304.9 | 255.8 | 458 | 350.8 | 294.4 |
| 59 | 29.9 | 20.1 | 99 | 75.8 | 63.6 | 159 | 121.8 | 102.9 | 219 | 167.0 | 140.8 | 279 | 213.7 | 179.3 | 339 | 259.7 | 217.9 | 399 | 305.7 | 256.5 | 459 | 351.6 | 295.0 |
| 40 | 50.6 | 95.7 | 100 | 76.6 | 64.3 | 160 | 122.6 | 102.8 | 220 | 166.5 | 141.4 | 290 | 214.5 | 180.0 | 340 | 260.0 | 218.6 | 400 | 306.4 | 257.1 | 460 | 352.4 | 295.7 |
| 41 | 51.4 | 26.4 | 101 | 77.4 | 64.9 | 161 | 123.5 | 103.5 | 221 | 169.3 | 142.1 | 281 | 215.3 | 100.6 | 341 | 261.2 | 219.2 | 401 | 307.9 | 957.8 | 461 | 353.1 | 296.3 |
| 49 | 32.2 | 27.0 | 102 | 78.1 | 55.6 | 162 | 121.1 | 104.1 | 222 | 176.1 | 142.7 | 282 | 216.0 | 181.3 | 342 | 262.0 | 219.8 | 402 | 308.0 | 258.4 | 462 | 353.9 | 297.0 |
| 43 | 52.9 | 27.6 | 103 | 78.9 | 66.2 | 163 | 124.9 | 104.8 | 223 | 170.8 | 143.3 | 283 | 216.6 | 181.9 | 343 | 269.8 | 220.5 | 403 | 308.7 | 259.1 | 463 | 354.7 | 297.6 |
| 44 | 33.7 | 20.3 | 104 | 79.7 | 66.8 | 164 | 125.6 | 105.4 | 224 | 171.6 | 144.0 | 284 | 217.6 | 182.6 | 344 | 263.5 | 221.1 | 404 | 309.5 | 259.7 | 464 | 355.4 | 298.3 |
| 45 | 34.5 | 98.9 | 105 | 60.4 | 67.5 | 165 | 126.4 | 100.1 | 225 | 172.4 | 144.6 | 285 | 218.3 | 183.2 | 345 | 264.3 | 221.8 | 405 | 310.2 | 260.3 | 460 | 356.2 | 298.9 |
| 46 | 55.2 | 29.6 | 106 | 81.2 | 68.1 | 166 | 127.2 | 109.7 | 226 | 173.1 | 145.3 | 286 | 219.1 | 183.8 | 346 | 265.1 | 222.4 | 406 | 311.0 | 261.0 | 465 | 357.0 | 299.5 |
| 47 | 36.0 | 30.2 | 107 | 62.0 | 68.8 | 167 | 197.9 | 107.3 | 227 | 173.9 | 145.9 | 287 | 919.9 | 184.5 | 347 | 265.8 | 223.1 | 407 | 311.8 | 261.6 | 467 | 357.7 | 300.2 |
| 48 | 56.8 | 30.9 | 108 | 82.7 | 69.4 | 168 | 128.7 | 168.0 | 228 | 174.7 | 146.6 | 288 | 220.6 | 183.1 | 346 | 266.5 | 223.7 | 108 | 312.5 | 262.3 | 468 | 358.5 | 300.8 |
| 49 | 37.5 | 51.5 | 109 | 83.5 | 76.1 | 169 | 129.5 | 108.6 | 229 | 175.4 | 147.2 | 289 | 221.4 | 185.8 | 349 | 267.4 | 224.3 | 109 | 313.3 | 262.9 | 469 | 359.3 | 301.5 |
| 60 | 58.3 | 52.1 | 116 | 61.5 | 70.7 | 170 | 150.2 | 109.3 | 230 | 175.2 | 147.8 | 290 | 222.9 | 186.4 | 300 | 268.1 | 225.0 | 410 | 314.1 | 263.6 | 470 | 366.0 | 302.1 |
| 51 | 39.1 | 32.8 | 111 | 85.6 | 71.3 | 171 | 131.0 | 109.9 | 231 | 177.0 | 148.5 | 291 | 222.9 | 187.1 | 351 | 968.9 | 225.6 | 411 | 314.8 | 264.2 | 471 | 360.8 | 302.8 |
| 52 | 39.8 | 33.4 | 112 | 95.9 | 72.0 | 172 | 151.6 | 110.6 | 239 | 177.7 | 149.1 | 292 | 225.7 | 187.7 | 352 | 269.6 | 226.3 | 412 | 315.6 | 964.8 | 472 | 361.6 | 303.4 |
| 63 | 40.6 | 34.1 | 113 | 86.5 | 72.6 | 173 | 132.5 | 111.2 | 233 | 178.5 | 149.8 | 293 | 224.5 | 188.3 | 353 | 270.4 | 226.9 | 413 | 316.4 | 265.5 | 473 | 362.3 | 304.0 |
| 54 | 41.4 | 34.7 | 114 | 67.3 | 73.3 | 174 | 133.3 | 111.8 | 234 | 179.3 | 150.4 | 294 | 225.2 | 189.0 | 354 | 971.2 | 227.6 | 414 | 317.1 | 266.1 | 474 | 363.1 | 304.7 |
| 65 | 49.1 | 35.4 | 115 | 80.1 | 73.9 | 175 | 134.1 | 112.5 | 235 | 180.0 | 151.1 | 295 | 226.8 | 189.6 | 355 | 271.9 | 226.2 | 415 | 317.9 | 266.8 | 475 | 363.9 | 305.3 |
| 56 | 42.9 | 36.0 | 116 | 86.9 | 74.6 | 176 | 134.8 | 113.1 | 230 | 180.8 | 151.7 | 296 | 226.7 | 190.3 | 356 | 979.7 | 220.8 | 416 | 318.7 | 267.4 | 475 | 361.5 | 306.0 |
| 57 | 43.7 | 36.6 | 117 | 89.5 | 75.2 | 177 | 135.9 | 113.8 | 237 | 181.6 | 159.3 | 297 | 227.0 | 190.9 | 357 | 973.5 | 229.5 | 417 | 319.4 | 268.1 | 477 | 365.4 | 306.6 |
| 58 | 44.4 | 37.3 | 118 | 90.4 | 75.8 | 178 | 136.4 | 114.4 | 230 | 182.3 | 155.0 | 298 | 220.3 | 121.6 | 358 | 974.9 | 230.1 | 410 | 326.2 | 258.7 | 478 | 360.2 | 307.3 |
| 09 | 45.2 | 37.9 | 119 | 91.9 | 76.5 | 179 | 137.1 | 115.1 | 239 | 183.1 | 153.6 | 299 | 229.0 | 192.2 | 359 | 275.0 | 230.8 | 119 | 321.0 | 269.3 | 479 | 366.9 | 307.9 |
| 50 | 46.0 | 30.6 | 120 | 91.9 | 77.1 | 180 | 137.9 | 115.7 | 240 | 183.9 | 154.3 | 300 | 229.8 | 192.8 | 360 | 275.0 | 231.4 | 426 | 321.7 | 270.0 | 485 | 367.7 | 308.5 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

$3.^h$ $20.^m$ — Para 50 grados. — $8.^h$ $40.^m$

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**Tabla XXXV.** **Diferencias en latitud y apartamientos de meridiano.**

2.h 44.m — Pora 41 grados. — 9.h 16.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.8 | 00.7 | 61 | 46.0 | 40.0 | 121 | 61.3 | 76.4 | 181 | 136.6 | 116.7 | 241 | 181.9 | 158.1 | 301 | 227.2 | 127.5 | 361 | 272.6 | 236.9 | 421 | 317.7 | 278.2 |
| 2 | 01.5 | 01.3 | 62 | 46.8 | 40.7 | 122 | 22.1 | 80.0 | 182 | 137.4 | 112.4 | 242 | 182.6 | 158.8 | 302 | 227.9 | 128.1 | 362 | 273.2 | 237.5 | 422 | 318.5 | 276.9 |
| 3 | 02.3 | 02.0 | 63 | 47.5 | 41.3 | 123 | 22.6 | 80.7 | 183 | 138.1 | 126.1 | 243 | 183.4 | 152.4 | 303 | 228.7 | 198.8 | 363 | 274.0 | 238.2 | 423 | 319.2 | 277.5 |
| 4 | 03.0 | 02.6 | 64 | 48.3 | 42.0 | 124 | 23.6 | 81.4 | 184 | 138.9 | 122.7 | 244 | 184.1 | 160.1 | 304 | 229.4 | 199.4 | 364 | 274.7 | 238.8 | 424 | 320.0 | 278.2 |
| 5 | 03.8 | 03.3 | 65 | 42.1 | 42.6 | 125 | 24.3 | 82.0 | 185 | 139.6 | 121.4 | 245 | 184.9 | 160.7 | 305 | 230.2 | 200.1 | 365 | 275.5 | 232.5 | 425 | 320.8 | 278.8 |
| 6 | 04.5 | 03.9 | 66 | 49.8 | 43.3 | 126 | 25.1 | 82.7 | 186 | 140.4 | 122.0 | 246 | 185.7 | 161.4 | 306 | 230.9 | 200.8 | 366 | 276.2 | 240.1 | 426 | 321.5 | 279.5 |
| 7 | 05.3 | 04.6 | 67 | 50.6 | 44.0 | 127 | 25.6 | 83.3 | 187 | 141.1 | 122.7 | 247 | 186.4 | 162.0 | 307 | 231.7 | 201.4 | 367 | 277.0 | 240.8 | 427 | 322.3 | 280.1 |
| 8 | 66.0 | 05.2 | 68 | 51.3 | 44.6 | 128 | 96.6 | 84.0 | 188 | 141.9 | 123.3 | 248 | 187.2 | 162.7 | 308 | 232.5 | 202.1 | 368 | 277.7 | 241.4 | 428 | 323.0 | 280.8 |
| 9 | 06.6 | 05.9 | 69 | 52.1 | 46.3 | 129 | 27.4 | 84.6 | 182 | 142.6 | 124.0 | 249 | 187.6 | 163.4 | 309 | 233.2 | 202.7 | 369 | 278.5 | 242.1 | 429 | 323.8 | 281.5 |
| 10 | 07.5 | 06.6 | 70 | 52.8 | 45.9 | 130 | 26.1 | 85.3 | 190 | 143.4 | 124.7 | 250 | 188.7 | 164.0 | 310 | 234.0 | 203.4 | 370 | 272.9 | 242.7 | 430 | 324.5 | 282.1 |
| 11 | 08.3 | 07.2 | 71 | 53.6 | 46.5 | 131 | 98.2 | 85.9 | 121 | 144.1 | 125.3 | 251 | 189.4 | 164.7 | 311 | 234.7 | 204.0 | 371 | 280.0 | 243.4 | 431 | 325.3 | 282.8 |
| 12 | 66.1 | 07.2 | 72 | 54.3 | 47 2 | 132 | 29.6 | 86.6 | 192 | 144.2 | 126.0 | 252 | 160.2 | 165.3 | 312 | 235.5 | 204.7 | 372 | 280.8 | 244.1 | 432 | 326.0 | 283.4 |
| 13 | 06.8 | 08.5 | 73 | 55.1 | 47.6 | 133 | 100.4 | 87.3 | 193 | 145.7 | 126.6 | 253 | 190.9 | 166.1 | 313 | 236.2 | 205.4 | 373 | 281.5 | 244.7 | 433 | 326.6 | 284.1 |
| 14 | 10.6 | 09.2 | 74 | 55.8 | 48.5 | 134 | 101.1 | 87.9 | 194 | 146.4 | 127.3 | 254 | 191.7 | 166.6 | 314 | 237.0 | 206.0 | 374 | 282.3 | 215.4 | 434 | 327.6 | 284.7 |
| 15 | 11.3 | 02.8 | 75 | 56.6 | 42.2 | 135 | 161.9 | 88.6 | 125 | 147.2 | 127.2 | 255 | 162.5 | 157.3 | 315 | 237.7 | 206.7 | 375 | 283.0 | 246.0 | 135 | 328.3 | 285.4 |
| 16 | 12.1 | 10.5 | 76 | 57.4 | 49.6 | 136 | 102.6 | 86.2 | 126 | 147.9 | 128.6 | 256 | 193.2 | 168.0 | 316 | 238.6 | 207.3 | 376 | 283.8 | 216.7 | 436 | 329.1 | 286.0 |
| 17 | 12.8 | 11.2 | 77 | 58.1 | 50.5 | 137 | 103.4 | 82.2 | 127 | 148.7 | 129.2 | 257 | 124.0 | 168.6 | 317 | 239.2 | 208.0 | 377 | 284.5 | 247.3 | 137 | 329.8 | 206.7 |
| 18 | 13.6 | 11.8 | 78 | 58.9 | 51.2 | 138 | 104.1 | 90.5 | 198 | 149.4 | 129.9 | 258 | 194.7 | 169.3 | 318 | 240.0 | 208.6 | 378 | 285.3 | 248.0 | 138 | 330.6 | 287.4 |
| 19 | 14.3 | 12.5 | 79 | 52.6 | 51.8 | 139 | 104.9 | 91.2 | 199 | 150.2 | 130.6 | 259 | 195.5 | 169.9 | 319 | 210.8 | 206.3 | 372 | 286.0 | 218.7 | 432 | 331.3 | 288.0 |
| 20 | 15.1 | 13.1 | 80 | 60.4 | 62.5 | 140 | 105.7 | 21.8 | 200 | 150.9 | 131.2 | 260 | 126.2 | 170.6 | 320 | 241.5 | 209.9 | 380 | 286.8 | 249.3 | 140 | 332.1 | 288.7 |
| 21 | 15.8 | 13.8 | 81 | 61.1 | 53.1 | 141 | 106.4 | 92.5 | 201 | 131.7 | 131.9 | 261 | 197.0 | 171.2 | 321 | 242.3 | 216.6 | 381 | 287.5 | 250.0 | 441 | 332.8 | 289.3 |
| 22 | 16.6 | 14.4 | 82 | 61.9 | 53.8 | 142 | 107.2 | 93.2 | 202 | 152.5 | 132.5 | 262 | 127.7 | 171.9 | 322 | 243.0 | 211.3 | 382 | 288.3 | 250.6 | 442 | 333.6 | 296.0 |
| 23 | 17.4 | 15.1 | 83 | 62.6 | 64.5 | 143 | 107.9 | 93.8 | 203 | 133.2 | 133.2 | 263 | 198.5 | 172.5 | 323 | 213.8 | 211.9 | 383 | 289.1 | 251.3 | 443 | 334.3 | 296.6 |
| 21 | 18.1 | 15.7 | 84 | 63.4 | 55.1 | 144 | 108.7 | 94.5 | 204 | 154.0 | 133.8 | 264 | 199.2 | 173.2 | 324 | 244.6 | 212.6 | 384 | 289.8 | 251.9 | 144 | 335.1 | 221.3 |
| 25 | 18.9 | 16.4 | 65 | 64.2 | 55.6 | 145 | 109.4 | 95.1 | 205 | 154.7 | 134.5 | 265 | 200.0 | 173.9 | 325 | 245.3 | 213.2 | 385 | 290.6 | 252.6 | 145 | 335.8 | 292.0 |
| 26 | 16.6 | 17.1 | 86 | 64.9 | 56.4 | 146 | 110.2 | 65.8 | 206 | 155.6 | 135.1 | 266 | 200.8 | 174.6 | 326 | 246.0 | 213.9 | 386 | 291.3 | 253.2 | 446 | 336.6 | 292.6 |
| 97 | 20.4 | 17.7 | 87 | 65.7 | 57.1 | 147 | 116.9 | 96.4 | 207 | 156.2 | 135.8 | 267 | 201.5 | 175.2 | 327 | 246 8 | 214.5 | 387 | 222.1 | 253.9 | 447 | 337.4 | 293.3 |
| 28 | 21.1 | 18.4 | 88 | 66.4 | 57.7 | 148 | 111.7 | 97.1 | 208 | 157.0 | 136.5 | 268 | 202.3 | 175.8 | 328 | 247.5 | 215.2 | 388 | 222.8 | 254.6 | 448 | 338.1 | 293.2 |
| 29 | 21.9 | 16.0 | 89 | 67.2 | 56.4 | 142 | 112.5 | 67.8 | 202 | 157.7 | 137.1 | 269 | 203.0 | 176.5 | 329 | 248.3 | 215.9 | 389 | 293.6 | 255.2 | 449 | 338.9 | 294.6 |
| 30 | 22.6 | 19.7 | 90 | 67.9 | 59.0 | 150 | 113.2 | 98.4 | 210 | 158.5 | 137.8 | 270 | 203.8 | 177.1 | 330 | 249.1 | 216.6 | 320 | 294.3 | 255.9 | 450 | 332.6 | 295.2 |
| 31 | 23.4 | 20.3 | 91 | 68.7 | 52.7 | 151 | 114.0 | 69.1 | 211 | 152.2 | 138.4 | 271 | 204.5 | 177.8 | 331 | 249.8 | 217.2 | 321 | 295.1 | 256.5 | 451 | 340.4 | 295.9 |
| 32 | 24.2 | 21.0 | 22 | 62.4 | 60.4 | 152 | 114.7 | 99.7 | 212 | 160.0 | 139.1 | 272 | 205.3 | 178.4 | 332 | 250.6 | 217.8 | 322 | 295.6 | 257.2 | 452 | 341.1 | 225.5 |
| 33 | 24.9 | 21.6 | 93 | 70.2 | 61.0 | 153 | 115.6 | 100.4 | 213 | 160.8 | 139.7 | 273 | 206.0 | 179.1 | 333 | 251.3 | 216.5 | 393 | 226.6 | 257.8 | 453 | 341.9 | 227.2 |
| 34 | 95.7 | 22.3 | 64 | 70.9 | 61.7 | 154 | 116.2 | 101.0 | 214 | 161.5 | 140.4 | 274 | 206.8 | 179.8 | 334 | 252.1 | 219.1 | 394 | 297.4 | 258.5 | 454 | 342.6 | 227.2 |
| 35 | 26.4 | 23.0 | 25 | 71.7 | 62.3 | 155 | 117.0 | 101.7 | 215 | 162.3 | 141.1 | 275 | 207.5 | 100.4 | 335 | 252.8 | 219.8 | 395 | 298.1 | 259.2 | 455 | 343.4 | 228.5 |
| 36 | 27.9 | 23.6 | 26 | 72.5 | 63.6 | 156 | 117.7 | 102.3 | 216 | 163.0 | 141.7 | 276 | 208.3 | 181.1 | 336 | 253.6 | 220.4 | 396 | 298.9 | 259.8 | 456 | 344.1 | 299.2 |
| 37 | 27.2 | 24.3 | 67 | 73.2 | 63.6 | 157 | 118.5 | 103.0 | 217 | 163.8 | 142.4 | 277 | 209.1 | 181.7 | 337 | 254.3 | 221.1 | 397 | 229.6 | 260.5 | 457 | 344.9 | 299.8 |
| 38 | 28.7 | 24.9 | 98 | 74.0 | 64.3 | 158 | 112.2 | 103.7 | 218 | 164.5 | 143.0 | 278 | 209.8 | 182.4 | 338 | 255.1 | 221.8 | 398 | 300.4 | 261.1 | 458 | 345.7 | 300.5 |
| 39 | 22.4 | 25.6 | 99 | 74.7 | 64.9 | 152 | 120.0 | 101.3 | 219 | 165.3 | 143.7 | 279 | 212.6 | 183.0 | 339 | 255.8 | 222.4 | 392 | 301.1 | 261.8 | 459 | 346.4 | 301.1 |
| 40 | 30.2 | 26.2 | 100 | 75.5 | 65.6 | 160 | 120.8 | 105.0 | 220 | 166.2 | 144.3 | 280 | 211.3 | 183.7 | 340 | 256.6 | 223.1 | 400 | 301.9 | 262.4 | 460 | 347.2 | 301.8 |
| 41 | 30.9 | 26.9 | 101 | 76.2 | 66.3 | 161 | 121.5 | 105.6 | 221 | 166.8 | 145.0 | 281 | 212.1 | 184.4 | 341 | 257.4 | 223.7 | 401 | 302.6 | 263.1 | 461 | 347.9 | 302.5 |
| 42 | 31.7 | 27.6 | 102 | 77.0 | 66.9 | 162 | 122.3 | 106.3 | 222 | 167.5 | 145.6 | 282 | 212.8 | 185.0 | 342 | 258.1 | 224.4 | 402 | 303.4 | 263.7 | 462 | 348.7 | 303.1 |
| 43 | 32.5 | 28.2 | 103 | 77.7 | 67.6 | 163 | 123.0 | 106.9 | 223 | 168.3 | 146.3 | 283 | 213.6 | 185.7 | 343 | 258.2 | 225.0 | 403 | 304.2 | 264.4 | 463 | 349.4 | 303.8 |
| 44 | 33..2 | 28.9 | 104 | 78.5 | 68.9 | 164 | 123.8 | 107.6 | 224 | 169.1 | 147.0 | 284 | 214.3 | 186.3 | 344 | 252.6 | 225.7 | 404 | 304.9 | 265.1 | 164 | 350.2 | 304.4 |
| 45 | 34.0 | 29.5 | 105 | 72.2 | 68.9 | 165 | 124.5 | 108.2 | 225 | 169.8 | 147.6 | 285 | 215.1 | 127.0 | 345 | 260.4 | 226.3 | 405 | 305.7 | 265.7 | 465 | 350.9 | 305.1 |
| 46 | 34.7 | 30.2 | 106 | 80.0 | 69.5 | 166 | 125.3 | 108.9 | 226 | 170.6 | 148.3 | 286 | 215.6 | 187.6 | 346 | 261.1 | 227.0 | 406 | 306.4 | 266.4 | 466 | 351.7 | 306.7 |
| 47 | 35.5 | 30.8 | 107 | 80.8 | 70.2 | 167 | 126.0 | 109.6 | 227 | 171.3 | 148.9 | 287 | 216.6 | 188.3 | 347 | 261.9 | 227.7 | 407 | 307.2 | 267.0 | 467 | 352.6 | 306.4 |
| 48 | 36.2 | 31.5 | 108 | 81.5 | 76.9 | 168 | 126.8 | 110.2 | 228 | 172.1 | 149.6 | 288 | 217.4 | 188.9 | 348 | 262.6 | 228.3 | 408 | 307.9 | 267.7 | 468 | 353.2 | 307.0 |
| 49 | 37.0 | 32.1 | 162 | 82.3 | 71.5 | 169 | 127.5 | 110.9 | 229 | 172.8 | 150.2 | 289 | 216.1 | 189.6 | 349 | 263.4 | 229.0 | 402 | 308.7 | 268.3 | 469 | 354.0 | 307.7 |
| 50 | 37.7 | 32.8 | 116 | 83.0 | 72.2 | 170 | 128.3 | 111.5 | 230 | 173.6 | 156.9 | 290 | 218.9 | 126.3 | 350 | 264.2 | 229.6 | 410 | 309.4 | 269.0 | 470 | 354.7 | 308.4 |
| 51 | 38.5 | 33.5 | 111 | 83.8 | 72.8 | 171 | 129.1 | 112.2 | 231 | 174.3 | 151.5 | 221 | 212.6 | 190.9 | 351 | 264.9 | 230.3 | 411 | 310.2 | 269.6 | 471 | 355.5 | 309.0 |
| 52 | 39.9 | 34.1 | 112 | 84.5 | 73.5 | 172 | 129.6 | 112.8 | 232 | 175.1 | 152.2 | 292 | 222.4 | 121.6 | 352 | 265.7 | 230.9 | 412 | 310.9 | 270.3 | 472 | 356.2 | 309.7 |
| 53 | 40.0 | 34.8 | 113 | 85.3 | 74.1 | 173 | 130.6 | 113.5 | 233 | 175.8 | 152.2 | 223 | 221.1 | 192.2 | 353 | 266.4 | 231.6 | 413 | 311.7 | 271.0 | 473 | 357.0 | 316.3 |
| 54 | 40.8 | 35.4 | 114 | 86.0 | 74.6 | 174 | 131.3 | 114.2 | 234 | 176.6 | 153.5 | 294 | 221.2 | 192.9 | 354 | 267.2 | 232.3 | 414 | 312.5 | 271.6 | 474 | 357.7 | 311.0 |
| 55 | 41.5 | 36.1 | 115 | 86.8 | 75.4 | 175 | 132.1 | 114.6 | 235 | 177.4 | 154.2 | 295 | 222.6 | 193.5 | 355 | 267.9 | 232.9 | 415 | 313.2 | 272.3 | 475 | 358.5 | 311.6 |
| 56 | 42.3 | 36.7 | 116 | 87.5 | 76.1 | 176 | 132.8 | 115.5 | 236 | 178.1 | 154.8 | 296 | 223.4 | 194.2 | 356 | 268.7 | 233.6 | 416 | 314.0 | 272.9 | 476 | 359.2 | 312.3 |
| 57 | 43.0 | 37.4 | 117 | 88.3 | 76.8 | 177 | 133.6 | 116.1 | 237 | 178.9 | 155.6 | 297 | 224.1 | 194.8 | 357 | 269.4 | 234.2 | 417 | 314.7 | 273.6 | 477 | 360.0 | 312.2 |
| 58 | 43.8 | 38.1 | 118 | 89.1 | 77.4 | 178 | 134.3 | 116.8 | 238 | 179.6 | 156.1 | 298 | 224.2 | 195.5 | 358 | 270.2 | 234.9 | 418 | 315.5 | 274.2 | 478 | 360.6 | 313.6 |
| 59 | 44.5 | 38.7 | 119 | 89.8 | 78.1 | 179 | 135.1 | 117.4 | 239 | 180.4 | 156.8 | 299 | 225.7 | 196.2 | 359 | 270.9 | 235.5 | 419 | 316.2 | 274.9 | 479 | 361.5 | 314.3 |
| 60 | 45.3 | 39.4 | 120 | 90.6 | 76.7 | 180 | 135.8 | 116.1 | 246 | 181.1 | 157.5 | 300 | 226.4 | 196.8 | 360 | 271.7 | 236.2 | 420 | 317.0 | 276.6 | 180 | 362.3 | 314.9 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 16.m — Para 49 grados. — 8.h 44.m

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 48.ᵐ — Para 42 grados. — 9.ʰ 12.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.7 | 00.7 | 61 | 45.3 | 40.8 | 121 | 89.9 | 81.0 | 181 | 134.5 | 121.1 | 241 | 179.1 | 161.3 | 301 | 923.7 | 261.4 | 361 | 268.3 | 241.6 | 421 | 312.9 | 231.7 |
| 2 | 01.5 | 01.3 | 82 | 46.1 | 41.5 | 122 | 20.7 | 81.6 | 182 | 133.3 | 121.8 | 242 | 179.8 | 161.9 | 362 | 221.4 | 202.1 | 362 | 269.0 | 242.2 | 422 | 313.6 | 282.4 |
| 3 | 02.2 | 82.0 | 53 | 46.8 | 42.2 | 193 | 91.4 | 82.3 | 103 | 136.8 | 122.5 | 243 | 180.5 | 162.5 | 303 | 225.2 | 202.8 | 363 | 269.8 | 242.9 | 423 | 314.4 | 283.0 |
| 4 | 03.8 | 02.7 | 64 | 47.5 | 42.8 | 124 | 92.1 | 83.6 | 184 | 136.7 | 123.1 | 244 | 181.3 | 163.3 | 304 | 225.9 | 903.4 | 364 | 270.5 | 243.6 | 421 | 316.1 | 283.7 |
| 5 | 03.7 | 03.3 | 65 | 48.3 | 43.6 | 125 | 92.9 | 83.6 | 185 | 137.5 | 123.8 | 245 | 182.1 | 163.9 | 305 | 226.6 | 204.1 | 365 | 271.2 | 244.2 | 425 | 315.6 | 281.4 |
| 6 | 84.5 | 04.0 | 66 | 49.0 | 44.2 | 126 | 93.5 | 84.3 | 185 | 138.2 | 194.5 | 246 | 182.8 | 164.6 | 306 | 227.4 | 204.8 | 366 | 272.6 | 244.9 | 496 | 316.6 | 285.1 |
| 7 | 85.2 | 64.7 | 07 | 49.8 | 44.8 | 127 | 94.4 | 85.0 | 187 | 139.8 | 125.1 | 247 | 183.6 | 105.3 | 307 | 228.1 | 205.4 | 387 | 272.7 | 215.6 | 497 | 317.3 | 285.7 |
| 8 | 05.2 | 65.4 | 08 | 50.5 | 45.5 | 120 | 95.1 | 85.6 | 188 | 139.7 | 125.8 | 248 | 184.3 | 165.9 | 308 | 228.2 | 208.1 | 368 | 273.5 | 246.2 | 420 | 318.1 | 286.4 |
| 9 | 06.7 | 60.0 | 69 | 51.3 | 46.2 | 122 | 95.9 | 06.3 | 189 | 140.5 | 125.5 | 949 | 185.0 | 166.6 | 309 | 229.5 | 206.8 | 369 | 274.2 | 946.9 | 429 | 318.8 | 287.1 |
| 10 | 87.4 | 86.7 | 70 | 82.0 | 48.8 | 130 | 96.6 | 87.6 | 190 | 141.2 | 127.1 | 250 | 185.8 | 167.3 | 316 | 936.4 | 207.4 | 370 | 275.8 | 217.5 | 430 | 319.6 | 287.7 |
| 11 | 60.2 | 07.4 | 71 | 52.8 | 47.5 | 131 | 97.4 | 87.7 | 191 | 141.2 | 127.8 | 251 | 188.5 | 168.0 | 311 | 231.1 | 208.1 | 371 | 275.7 | 240.3 | 431 | 320.3 | 288.6 |
| 12 | 08.9 | 08.0 | ·79 | 53.5 | 48.2 | 132 | 98.1 | 88.3 | 192 | 142.7 | 198.5 | 252 | 187.3 | 168.6 | 312 | 231.9 | 208.8 | 372 | 278.5 | 240.9 | 432 | 321.0 | 289.1 |
| 13 | 89.7 | 08.7 | 73 | 54.2 | 48.8 | 133 | 98.8 | 89.6 | 193 | 143.4 | 129.1 | 253 | 188.8 | 162.3 | 313 | 232.8 | 289.4 | 373 | 277.2 | 219.0 | 433 | 391.8 | 989.7 |
| 14 | 10.4 | 09.4 | 74 | 65.0 | 49.5 | 134 | 99.6 | 69.7 | 194 | 144.2 | 129.8 | 254 | 188.8 | 170.8 | 314 | 233.3 | 210.1 | 374 | 277.9 | 956.3 | 434 | 392.5 | 290.4 |
| 15 | 11.1 | 16.6 | 75 | 55.7 | 50.2 | 135 | 100.3 | 90.3 | 195 | 144.9 | 130.5 | 255 | 189.5 | 176.6 | 315 | 234.1 | 210.8 | 375 | 278.7 | 256.9 | 435 | 323.3 | 291.1 |
| 16 | 11.9 | 18.7 | 76 | 56.5 | 60.9 | 136 | 101.1 | 21.0 | 195 | 145.7 | 131.1 | 956 | 196.2 | 171.3 | 316 | 234.8 | 211.5 | 376 | 279.4 | 951.6 | 436 | 324.0 | 291.7 |
| 17 | 12.8 | 11.4 | 77 | 57.2 | 51.5 | 137 | 101.8 | 91.7 | 127 | 146.4 | 131.8 | 257 | 191.6 | 172.0 | 317 | 935.6 | 212.1 | 377 | 288.2 | 252.3 | 437 | 324.8 | 292.4 |
| 18 | 13.4 | 12.6 | 78 | 08.0 | 52.2 | 138 | 102.6 | 92.3 | 198 | 147.1 | 132.5 | 258 | 191.7 | 172.5 | 318 | 236.3 | 212.8 | 378 | 286.2 | 252.9 | 438 | 325.5 | 293.1 |
| 19 | 14.1 | 12.7 | 79 | 58.7 | 52.9 | 139 | 103.3 | 23.6 | 199 | 147.2 | 133.2 | 259 | 192.5 | 173.3 | 319 | 237.1 | 213.5 | 379 | 281.7 | 253.6 | 439 | 398.2 | 293.8 |
| 20 | 14.9 | 13.4 | 80 | 09.5 | 53.5 | 140 | 101.6 | 23.7 | 206 | 148.8 | 133.8 | 260 | 193.2 | 174.0 | 326 | 237.8 | 214.1 | 380 | 289.4 | 254.3 | 440 | 327.0 | 294.4 |
| 21 | 15.6 | 14.1 | 81 | 00.2 | 54.2 | 141 | 104.8 | 94.3 | 201 | 142.4 | 131.5 | 261 | 194.0 | 174.6 | 391 | 938.5 | 214.8 | 381 | 283.1 | 254.9 | 441 | 397.7 | 295.1 |
| 22 | 18.3 | 14.7 | 89 | 60.9 | 54.9 | 142 | 105.5 | 95.0 | 202 | 156.1 | 135.9 | 269 | 194.7 | 175.3 | 392 | 239.3 | 915.5 | 382 | 283.2 | 255.6 | 449 | 328.5 | 295.8 |
| 23 | 17.1 | 10.4 | 83 | 51.7 | 55.5 | 143 | 106.3 | 25.7 | 203 | 150.2 | 135.8 | 263 | 195.4 | 176.6 | 393 | 240.8 | 216.1 | 383 | 284.0 | 258.3 | 443 | 322.2 | 296.4 |
| 24 | 17.8 | 16.1 | 84 | 62.4 | 66.2 | 144 | 107.0 | 96.4 | 264 | 151.0 | 136.5 | 264 | 198.9 | 176.7 | 324 | 246.8 | 916.8 | 384 | 285.4 | 257.0 | 144 | 330.0 | 297.1 |
| 25 | 18.6 | 10.7 | 85 | 63.2 | 65.9 | 145 | 107.8 | 27.0 | 265 | 152.3 | 137.9 | 265 | 190.9 | 177.3 | 395 | 241.5 | 217.0 | 385 | 286.1 | 257.6 | 440 | 338.7 | 997.8 |
| 26 | 19.3 | 17.4 | 86 | 83.9 | 67.5 | 146 | 108.6 | 27.7 | 205 | 153.1 | 137.8 | 266 | 197.7 | 178.0 | 326 | 242.3 | 218.1 | 385 | 986.2 | 258.3 | 446 | 331.4 | 298.4 |
| 27 | 90.1 | 18.1 | 87 | 64.7 | 58.2 | 147 | 109.2 | 98.4 | 207 | 153.8 | 138.5 | 267 | 198.4 | 178.7 | 327 | 943.0 | 218.8 | 387 | 287.6 | 259.0 | 447 | 332.2 | 299.1 |
| 28 | 96.8 | 18.7 | 88 | 85.4 | 58.9 | 148 | 110.0 | 92.0 | 268 | 154.6 | 139.2 | 268 | 129.9 | 172.3 | 328 | 243.8 | 919.5 | 388 | 288.3 | 259.6 | 448 | 332.9 | 299.8 |
| 22 | 21.6 | 19.4 | 89 | 66.1 | 59.6 | 149 | 110.7 | 92.7 | 209 | 155.3 | 139.8 | 269 | 199.9 | 180.0 | 399 | 244.5 | 920.1 | 389 | 989.1 | 266.3 | 449 | 333.7 | 300.4 |
| 30 | 22.3 | 26.1 | 96 | 66.9 | 68.2 | 150 | 111.6 | 160.4 | 210 | 156.1 | 140.5 | 270 | 206.6 | 180.7 | 336 | 245.2 | 290.8 | 390 | 289.6 | 961.6 | 450 | 334.4 | 301.1 |
| 31 | 23.0 | 26.7 | 91 | 87.6 | 60.9 | 151 | 112.2 | 161.0 | 211 | 156.8 | 141.2 | 271 | 201.4 | 181.3 | 331 | 246.0 | 221.5 | 391 | 290.5 | 261.6 | 151 | 335.2 | 301.8 |
| 39 | 23.8 | 21.4 | 92 | 68.4 | 61.6 | 102 | 113.0 | 101.7 | 212 | 157.0 | 141.9 | 272 | 202.1 | 182.0 | 332 | 246.7 | 922.2 | 392 | 291.3 | 252.3 | 452 | 335.9 | 302.5 |
| 33 | 94.5 | 22.1 | 93 | 89.1 | 69.2 | 153 | 113.7 | 102.4 | 213 | 158.3 | 142.5 | 273 | 902.9 | 189.7 | 333 | 947.6 | 292.8 | 393 | 292.1 | 263.0 | 453 | 336.6 | 303.1 |
| 34 | 25.3 | 22.8 | 91 | 89.9 | 62.9 | 154 | 114.4 | 183.0 | 214 | 159.0 | 143.2 | 274 | 263.6 | 183.3 | 334 | 248.2 | 923.5 | 394 | 999.8 | 263.6 | 454 | 337.4 | 303.6 |
| 35 | 25.0 | 23.4 | 95 | 70.6 | 63.6 | 155 | 115.2 | 103.7 | 215 | 159.8 | 143.9 | 275 | 264.4 | 184.0 | 335 | 249.0 | 224.2 | 395 | 293.5 | 254.3 | 455 | 338.1 | 384.5 |
| 36 | 28.8 | 24.1 | 96 | 71.3 | 54.2 | 156 | 115.9 | 104.4 | 216 | 160.8 | 144.5 | 270 | 265.1 | 184.7 | 336 | 249.7 | 224.6 | 396 | 291.3 | 255.0 | 456 | 330.9 | 305.1 |
| 37 | 27.5 | 24.8 | 97 | 72.1 | 54.9 | 157 | 118.7 | 165.1 | 217 | 101.3 | 145.2 | 277 | 205.9 | 185.3 | 337 | 200.4 | 925.5 | 397 | 295.8 | 265.7 | 457 | 338.6 | 305.8 |
| 38 | 28.2 | 25.4 | 28 | 72.8 | 65.6 | 158 | 117.4 | 105.7 | 918 | 182.0 | 115.9 | 278 | 208.6 | 186.8 | 338 | 251.2 | 226.2 | 398 | 295.0 | 266.3 | 458 | 348.4 | 306.5 |
| 39 | 29.0 | 26.1 | 99 | 73.6 | 68.2 | 159 | 118.2 | 166.4 | 219 | 152.7 | 148.5 | 279 | 207.3 | 188.7 | 339 | 251.9 | 226.8 | 399 | 296.5 | 957.0 | 459 | 341.1 | 307.1 |
| 40 | 29.7 | 28.0 | 160 | 74.3 | 66.9 | 188 | 118.9 | 107.1 | 920 | 153.0 | 147.9 | 280 | 208.1 | 187.4 | 340 | 952.7 | 927.5 | 400 | 297.3 | 267.7 | 460 | 341.0 | 307.8 |
| 41 | 30.5 | 27.4 | 101 | 75.1 | 07.6 | 101 | 119.6 | 167.7 | 221 | 164.2 | 147.9 | 281 | 208.8 | 188.0 | 341 | 253.4 | 928.2 | 401 | 296.6 | 200.3 | 461 | 342.6 | 366.5 |
| 42 | 31.2 | 28.1 | 109 | 75.8 | 66.3 | 182 | 126.4 | 108.4 | 222 | 165.0 | 140.5 | 282 | 209.6 | 188.7 | 342 | 954.2 | 228.8 | 402 | 228.7 | 252.0 | 482 | 343.3 | 302.1 |
| 43 | 32.0 | 26.6 | 103 | 76.5 | 58.9 | 183 | 121.1 | 109.1 | 223 | 165.7 | 149.2 | 283 | 210.3 | 189.4 | 343 | 254.9 | 222.5 | 403 | 299.8 | 259.7 | 483 | 344.1 | 309.8 |
| 44 | 32.7 | 29.4 | 104 | 77.3 | 69.6 | 164 | 121.9 | 109.7 | 224 | 166.8 | 149.9 | 284 | 211.1 | 190.0 | 344 | 255.8 | 230.2 | 464 | 300.2 | 270.3 | 484 | 344.8 | 310.5 |
| 45 | 33.4 | 30.1 | 165 | 78.0 | 70.3 | 185 | 122.8 | 110.4 | 925 | 167.2 | 150.6 | 285 | 211.8 | 190.7 | 345 | 258.4 | 230.9 | 405 | 361.0 | 271.0 | 465 | 345.6 | 311.2 |
| 46 | 34.2 | 30.8 | 106 | 78.8 | 70.9 | 166 | 123.4 | 111.1 | 226 | 188.0 | 151.2 | 286 | 212.5 | 191.4 | 346 | 257.1 | 231.5 | 406 | 301.7 | 271.7 | 150 | 348.3 | 311.8 |
| 47 | 34.2 | 31.4 | 107 | 79.8 | 71.8 | 157 | 124.1 | 111.7 | 227 | 168.7 | 151.9 | 287 | 213.3 | 192.0 | 347 | 257.9 | 232.2 | 407 | 302.5 | 272.3 | 467 | 347.0 | 312.5 |
| 48 | 35.7 | 32.1 | 106 | 80.3 | 72.3 | 156 | 124.8 | 112.4 | 220 | 169.4 | 152.6 | 288 | 214.0 | 192.7 | 346 | 258.8 | 232.9 | 408 | 363.2 | 273.0 | 168 | 347.8 | 313.2 |
| 49 | 35.4 | 32.8 | 109 | 61.0 | 72.2 | 159 | 125.6 | 113.1 | 222 | 170.2 | 153.2 | 289 | 214.8 | 193.4 | 349 | 259.4 | 233.5 | 469 | 303.2 | 273.7 | 469 | 348.5 | 313.6 |
| 80 | 37.2 | 33.5 | 110 | 81.7 | 73.5 | 170 | 126.3 | 113.8 | 230 | 170.9 | 153.9 | 290 | 215.5 | 124.0 | 350 | 260.1 | 234.2 | 410 | 304.7 | 274.3 | 470 | 349.3 | 314.5 |
| 81 | 37.9 | 34.1 | 111 | 82.5 | 74.3 | 171 | 127.1 | 114.4 | 231 | 171.7 | 154.6 | 291 | 215.3 | 124.7 | 351 | 280.0 | 234.9 | 411 | 305.4 | 275.0 | 471 | 350.8 | 315.2 |
| 52 | 38.6 | 34.6 | 112 | 63.2 | 74.9 | 172 | 127.8 | 115.1 | 232 | 172.4 | 155.2 | 292 | 217.0 | 125.4 | 352 | 281.8 | 235.5 | 412 | 308.2 | 275.7 | 472 | 350.8 | 315.8 |
| 53 | 39.4 | 35.6 | 113 | 81.0 | 75.8 | 173 | 128.6 | 115.8 | 233 | 173.2 | 155.2 | 223 | 217.7 | 125.1 | 353 | 262.3 | 238.2 | 413 | 386.8 | 278.4 | 473 | 351.8 | 316.5 |
| 54 | 40.1 | 38.1 | 114 | 84.7 | 76.3 | 174 | 129.3 | 116.4 | 234 | 173.9 | 158.5 | 224 | 216.5 | 165.7 | 354 | 263.1 | 235.9 | 414 | 307.7 | 277.0 | 474 | 352.3 | 317.2 |
| 55 | 40.9 | 35.6 | 115 | 65.5 | 77.0 | 175 | 130.1 | 117.1 | 235 | 174.8 | 157.2 | 295 | 219.2 | 127.4 | 355 | 263.8 | 237.5 | 415 | 308.4 | 277.7 | 475 | 353.0 | 317.8 |
| 56 | 41.8 | 37.5 | 116 | 86.2 | 77.8 | 175 | 130.6 | 117.6 | 238 | 175.4 | 157.2 | 295 | 220.0 | 190.1 | 356 | 264.5 | 238.2 | 415 | 309.1 | 278.4 | 476 | 353.7 | 318.5 |
| 57 | 42.4 | 38.1 | 117 | 66.2 | 78.3 | 177 | 131.5 | 118.4 | 237 | 175.1 | 156.8 | 297 | 220.7 | 198.7 | 357 | 265.3 | 230.9 | 417 | 309.2 | 279.0 | 477 | 354.5 | 319.2 |
| 58 | 43.1 | 36.0 | 118 | 87.7 | 72.0 | 478 | 132.3 | 119.1 | 238 | 176.8 | 152.3 | 298 | 221.5 | 122.4 | 358 | 268.0 | 239.6 | 418 | 310.6 | 272.7 | 178 | 355.2 | 319.2 |
| 59 | 43.8 | 39.5 | 119 | 88.4 | 72.8 | 179 | 133.0 | 112.8 | 239 | 177.6 | 152.2 | 229 | 222.2 | 200.1 | 359 | 268.6 | 240.2 | 419 | 311.4 | 280.4 | 479 | 356.0 | 320.5 |
| 60 | 44.6 | 40.1 | 120 | 89.2 | 80.3 | 180 | 133.8 | 120.4 | 240 | 178.4 | 160.5 | 300 | 222.9 | 960.7 | 360 | 267.5 | 240.9 | 420 | 312.1 | 281.0 | 460 | 355.7 | 321.2 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 12.ᵐ — Para 48 grados. — 8.ʰ 48.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 52.ᵐ Para 43 grados. 9.ʰ 8.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.7 | 00.7 | 61 | 44.6 | 41.6 | 121 | 88.5 | 82.5 | 181 | 132.4 | 123.4 | 241 | 176.3 | 161.4 | 301 | 220.1 | 205.3 | 361 | 264.0 | 246.2 | 421 | 307.9 | 287.1 |
| 2 | 01.5 | 01.4 | 82 | 45.3 | 42.3 | 122 | 89.2 | 83.2 | 182 | 133.1 | 124.1 | 242 | 177.0 | 165.0 | 302 | 220.2 | 206.0 | 362 | 264.0 | 246.9 | 422 | 308.6 | 287.8 |
| 3 | 02.2 | 02.0 | 63 | 46.1 | 43.0 | 123 | 90.0 | 83.9 | 183 | 133.8 | 124.8 | 243 | 177.7 | 165.7 | 303 | 221.6 | 206.7 | 363 | 265.5 | 217.6 | 423 | 309.4 | 288.5 |
| 4 | 02.9 | 02.7 | 64 | 46.8 | 43.6 | 124 | 90.7 | 84.6 | 184 | 134.6 | 126.5 | 244 | 178.5 | 166.4 | 304 | 222.3 | 207.3 | 364 | 266.2 | 248.3 | 424 | 310.1 | 289.2 |
| 5 | 03.7 | 63.4 | 65 | 47.5 | 44.3 | 125 | 91.4 | 85.2 | 185 | 135.3 | 128.2 | 245 | 179.2 | 167.1 | 305 | 223.1 | 208.0 | 365 | 267.0 | 248.9 | 425 | 310.8 | 289.9 |
| 6 | 01.4 | 04.1 | 66 | 48.3 | 45.0 | 126 | 92.2 | 85.9 | 186 | 135.0 | 126.9 | 246 | 179.9 | 167.8 | 306 | 223.8 | 208.7 | 366 | 267.7 | 249.6 | 426 | 311.6 | 290.5 |
| 7 | 05.1 | 04.8 | 67 | 40.0 | 45.7 | 127 | 92.9 | 86.6 | 187 | 136.8 | 127.5 | 247 | 180.5 | 168.5 | 307 | 224.5 | 209.4 | 367 | 268.4 | 250.3 | 427 | 312.3 | 221.2 |
| 8 | 05.2 | 05.5 | 68 | 49.7 | 46.4 | 128 | 93.6 | 87.3 | 188 | 137.5 | 126.2 | 218 | 181.4 | 169.1 | 308 | 225.3 | 210.1 | 368 | 262.1 | 251.0 | 428 | 313.0 | 221.9 |
| 9 | 06.6 | 06.1 | 69 | 60.5 | 47.1 | 129 | 94.3 | 88.0 | 182 | 138.2 | 128.9 | 242 | 182.1 | 162.8 | 302 | 226.0 | 210.7 | 369 | 269.9 | 251.7 | 422 | 313.8 | 222.6 |
| 10 | 07.3 | 06.8 | 70 | 51.2 | 47.7 | 130 | 95.1 | 88.7 | 190 | 139.0 | 129.6 | 250 | 182.8 | 170.5 | 310 | 226.7 | 211.4 | 370 | 270.8 | 252.3 | 430 | 314.5 | 293.3 |
| 11 | 08.0 | 07.5 | 71 | 61.9 | 48.4 | 131 | 95.8 | 89.3 | 191 | 139.7 | 130.3 | 251 | 183.6 | 171.2 | 311 | 227.5 | 212.1 | 371 | 271.3 | 253.0 | 431 | 315.2 | 223.9 |
| 12 | 08.8 | 08.2 | 72 | 52.7 | 49.1 | 132 | 96.5 | 00.0 | 192 | 140.4 | 130.9 | 252 | 184.3 | 171.2 | 312 | 228.2 | 212.8 | 372 | 272.1 | 253.7 | 432 | 318.0 | 294.6 |
| 13 | 00.5 | 08.9 | 73 | 53.4 | 49.8 | 133 | 97.3 | 90.7 | 123 | 141.2 | 131.6 | 253 | 185.0 | 172.5 | 313 | 228.9 | 213.6 | 373 | 272.0 | 254.1 | 433 | 315.7 | 223.3 |
| 14 | 10.2 | 09.5 | 74 | 64.1 | 60.5 | 131 | 98.0 | 91.4 | 194 | 141.9 | 132.3 | 254 | 185.6 | 173.2 | 314 | 229.7 | 214.2 | 374 | 273.5 | 255.1 | 434 | 317.4 | 225.0 |
| 15 | 11.0 | 10.2 | 75 | 64.9 | 51.1 | 135 | 98.7 | 92.1 | 125 | 142.6 | 133.0 | 255 | 186.5 | 173.2 | 315 | 230.4 | 214.8 | 375 | 274.3 | 255.8 | 435 | 318.1 | 295.7 |
| 16 | 11.7 | 10.9 | 76 | 55.6 | 51.8 | 136 | 99.5 | 92.8 | 196 | 143.3 | 133.7 | 256 | 187.2 | 174.6 | 316 | 231.1 | 215.5 | 376 | 275.0 | 256.4 | 436 | 318.9 | 297.4 |
| 17 | 12.4 | 11.6 | 77 | 56.3 | 52.5 | 137 | 100.2 | 93.4 | 197 | 144.1 | 134.4 | 257 | 188.0 | 175.3 | 317 | 231.8 | 216.2 | 377 | 275.7 | 257.1 | 437 | 319.6 | 298.0 |
| 18 | 13.2 | 12.3 | 78 | 57.0 | 63.2 | 138 | 100.9 | 94.1 | 198 | 144.8 | 135.0 | 258 | 188.7 | 175.0 | 318 | 232.6 | 216.9 | 378 | 276.5 | 257.8 | 438 | 320.3 | 228.7 |
| 19 | 13.0 | 13.0 | 79 | 67.8 | 63.9 | 139 | 101.7 | 94.8 | 199 | 145.5 | 135.7 | 259 | 189.4 | 176.6 | 319 | 233.3 | 217.8 | 379 | 277.2 | 258.5 | 439 | 321.1 | 229.4 |
| 20 | 14.6 | 13.6 | 80 | 58.5 | 54.6 | 140 | 102.4 | 95.5 | 200 | 146.3 | 135.4 | 260 | 190.2 | 177.3 | 320 | 234.0 | 218.2 | 380 | 277.9 | 252.2 | 440 | 321.8 | 300.1 |
| 21 | 15.4 | 14.3 | 81 | 59.2 | 65.2 | 141 | 103.1 | 96.2 | 201 | 147.0 | 137.1 | 261 | 190.9 | 178.0 | 321 | 234.8 | 218.9 | 381 | 278.7 | 250.8 | 441 | 322.5 | 300.8 |
| 22 | 16.1 | 15.0 | 82 | 60.0 | 55.9 | 142 | 103.9 | 96.8 | 202 | 147.7 | 137.8 | 262 | 191.6 | 178.7 | 322 | 235.5 | 219.6 | 382 | 279.4 | 260.5 | 442 | 323.3 | 301.4 |
| 23 | 16.8 | 15.7 | 03 | 60.7 | 56.6 | 143 | 104.6 | 97.5 | 203 | 118.5 | 138.4 | 263 | 199.3 | 179.4 | 323 | 236.2 | 220.3 | 383 | 280.1 | 261.2 | 443 | 324.0 | 302.1 |
| 24 | 17.6 | 16.1 | 84 | 61.4 | 57.3 | 144 | 105.3 | 98.2 | 204 | 149.2 | 139.1 | 264 | 193.1 | 180.0 | 324 | 237.0 | 221.0 | 384 | 280.6 | 261.9 | 444 | 324.7 | 302.8 |
| 25 | 18.3 | 17.0 | 85 | 62.2 | 58.0 | 145 | 106.6 | 98.9 | 205 | 149.2 | 139.8 | 265 | 193.8 | 180.7 | 325 | 237.7 | 221.7 | 385 | 281.5 | 262.6 | 445 | 325.5 | 303.5 |
| 26 | 19.0 | 17.7 | 86 | 62.9 | 58.7 | 146 | 106.8 | 99.6 | 206 | 150.7 | 140.5 | 266 | 124.5 | 181.4 | 326 | 238.4 | 222.3 | 386 | 282.3 | 263.3 | 446 | 326.2 | 304.2 |
| 27 | 19.7 | 18.4 | 87 | 63.6 | 59.3 | 147 | 107.5 | 100.3 | 207 | 151.4 | 141.2 | 267 | 195.3 | 182.1 | 327 | 239.2 | 223.0 | 387 | 283.6 | 263.9 | 447 | 326.9 | 304.9 |
| 28 | 20.5 | 19.1 | 68 | 64.4 | 60.0 | 148 | 108.2 | 100.9 | 200 | 152.1 | 141.9 | 268 | 196.0 | 182.6 | 328 | 239.9 | 223.7 | 388 | 283.7 | 264.6 | 448 | 327.7 | 305.6 |
| 22 | 21.2 | 19.8 | 89 | 65.1 | 60.7 | 149 | 109.0 | 101.6 | 209 | 152.9 | 142.5 | 269 | 196.7 | 183.5 | 329 | 210.6 | 224.4 | 389 | 284.6 | 265.3 | 449 | 328.4 | 306.2 |
| 30 | 21.0 | 20.5 | 90 | 66.8 | 61.4 | 150 | 109.7 | 102.3 | 210 | 163.6 | 143.2 | 270 | 197.5 | 184.1 | 330 | 241.4 | 225.1 | 390 | 285.2 | 266.0 | 450 | 329.1 | 306.9 |
| 31 | 22.7 | 21.1 | 91 | 56.6 | 62.1 | 151 | 110.4 | 103.0 | 211 | 154.3 | 143.9 | 271 | 198.2 | 184.8 | 331 | 242.1 | 225.7 | 391 | 286.0 | 266.7 | 451 | 329.9 | 307.6 |
| 32 | 23.4 | 21.8 | 92 | 67.3 | 62.7 | 152 | 111.2 | 103.7 | 212 | 155.0 | 144.6 | 272 | 198.9 | 185.5 | 332 | 212.8 | 226.4 | 322 | 286.7 | 267.3 | 452 | 330.6 | 308.3 |
| 33 | 24.1 | 22.5 | 93 | 68.0 | 63.4 | 153 | 111.9 | 101.3 | 213 | 155.8 | 145.3 | 273 | 199.7 | 186.2 | 333 | 243.5 | 227.1 | 323 | 287.4 | 260.0 | 453 | 331.3 | 309.0 |
| 34 | 24.9 | 23.2 | 94 | 68.7 | 64.1 | 154 | 112.6 | 105.0 | 214 | 156.5 | 145.9 | 274 | 200.4 | 186.9 | 334 | 241.3 | 227.8 | 394 | 288.2 | 268.7 | 454 | 332.1 | 309.6 |
| 35 | 25.6 | 23.2 | 95 | 69.5 | 64.8 | 155 | 113.4 | 105.7 | 215 | 157.2 | 146.6 | 275 | 201.1 | 187.5 | 335 | 245.0 | 228.5 | 395 | 288.9 | 269.4 | 455 | 332.8 | 310.3 |
| 36 | 26.3 | 24.6 | 96 | 70.2 | 65.5 | 156 | 114.1 | 106.4 | 216 | 158.0 | 147.3 | 276 | 201.9 | 188.2 | 336 | 245.7 | 229.2 | 396 | 289.6 | 270.1 | 456 | 333.5 | 311.0 |
| 37 | 27.1 | 25.2 | 97 | 70.9 | 66.2 | 157 | 114.6 | 107.1 | 217 | 158.7 | 148.0 | 277 | 202.6 | 188.9 | 337 | 246.5 | 229.8 | 397 | 290.4 | 276.8 | 457 | 334.3 | 311.7 |
| 38 | 27.8 | 25.2 | 98 | 71.7 | 66.8 | 158 | 115.6 | 107.8 | 218 | 159.4 | 148.7 | 278 | 203.3 | 189.6 | 338 | 247.2 | 230.6 | 328 | 291.1 | 271.4 | 458 | 335.6 | 312.4 |
| 39 | 28.5 | 26.6 | 22 | 72.4 | 67.5 | 159 | 116.3 | 108.4 | 219 | 160.2 | 149.4 | 279 | 204.0 | 190.3 | 339 | 217.9 | 231.2 | 399 | 291.8 | 272.1 | 459 | 335.7 | 313.0 |
| 40 | 29.3 | 27.3 | 100 | 73.1 | 68.2 | 160 | 117.0 | 109.1 | 220 | 160.9 | 150.0 | 280 | 204.8 | 191.0 | 340 | 248.7 | 231.9 | 400 | 292.6 | 272.8 | 460 | 336.5 | 313.7 |
| 41 | 30.0 | 28.0 | 101 | 73.9 | 68.9 | 161 | 117.7 | 100.8 | 221 | 161.6 | 160.7 | 281 | 205.5 | 191.6 | 341 | 249.4 | 232.6 | 401 | 293.3 | 273.5 | 461 | 337.2 | 314.4 |
| 42 | 30.7 | 26.6 | 102 | 74.6 | 69.6 | 162 | 118.6 | 116.5 | 222 | 162.4 | 151.4 | 282 | 206.2 | 192.3 | 342 | 230.1 | 233.2 | 402 | 294.0 | 274.2 | 462 | 337.9 | 315.1 |
| 43 | 31.4 | 29.3 | 103 | 76.3 | 70.2 | 163 | 119.2 | 111.2 | 223 | 183.1 | 152.1 | 283 | 207.0 | 193.0 | 343 | 250.9 | 233.9 | 403 | 294.7 | 274.2 | 463 | 338.7 | 315.8 |
| 44 | 32.2 | 30.0 | 104 | 76.1 | 70.9 | 164 | 119.9 | 111.8 | 224 | 163.8 | 152.8 | 284 | 207.7 | 193.7 | 344 | 251.6 | 234.6 | 404 | 295.5 | 275.5 | 464 | 339.4 | 316.5 |
| 45 | 32.9 | 30.7 | 105 | 76.8 | 71.6 | 165 | 120.7 | 112.5 | 225 | 164.6 | 153.4 | 285 | 208.4 | 194.4 | 345 | 252.3 | 235.3 | 405 | 296.2 | 276.2 | 465 | 340.1 | 317.1 |
| 46 | 33.6 | 31.4 | 106 | 77.6 | 72.3 | 166 | 121.4 | 113.2 | 226 | 165.3 | 154.1 | 288 | 209.2 | 195.1 | 346 | 253.1 | 236.0 | 406 | 226.9 | 276.9 | 466 | 340.8 | 317.8 |
| 47 | 34.4 | 32.1 | 107 | 78.3 | 73.0 | 157 | 122.1 | 113.9 | 227 | 166.0 | 154.8 | 287 | 209.9 | 125.7 | 347 | 253.8 | 236.7 | 407 | 297.7 | 277.6 | 467 | 341.6 | 318.5 |
| 48 | 35.1 | 32.7 | 108 | 79.0 | 73.7 | 166 | 122.9 | 114.6 | 228 | 166.7 | 155.5 | 288 | 210.6 | 196.4 | 348 | 254.5 | 237.3 | 408 | 228.4 | 278.3 | 468 | 342.3 | 319.2 |
| 42 | 35.8 | 33.4 | 109 | 79.7 | 74.3 | 169 | 123.6 | 115.3 | 229 | 167.5 | 156.2 | 289 | 211.4 | 197.1 | 349 | 255.3 | 238.0 | 400 | 229.1 | 278.9 | 469 | 343.0 | 319.9 |
| 50 | 36.6 | 34.1 | 110 | 80.4 | 75.0 | 170 | 124.3 | 115.9 | 230 | 168.2 | 156.9 | 290 | 212.1 | 197.8 | 350 | 256.0 | 238.7 | 410 | 229.9 | 279.6 | 470 | 343.7 | 320.5 |
| 51 | 37.3 | 34.8 | 111 | 81.2 | 75.7 | 171 | 125.1 | 116.6 | 231 | 168.9 | 157.6 | 291 | 212.8 | 198.5 | 351 | 256.7 | 239.4 | 411 | 300.6 | 280.3 | 471 | 344.5 | 321.2 |
| 52 | 38.0 | 35.5 | 112 | 81.9 | 76.4 | 172 | 125.8 | 117.3 | 232 | 169.7 | 158.2 | 292 | 213.6 | 199.1 | 352 | 257.4 | 240.1 | 412 | 301.3 | 281.0 | 472 | 345.2 | 321.9 |
| 53 | 38.6 | 38.1 | 113 | 82.6 | 77.1 | 173 | 126.5 | 118.0 | 233 | 170.4 | 158.9 | 293 | 214.3 | 199.8 | 353 | 258.2 | 240.8 | 413 | 302.1 | 281.7 | 473 | 345.9 | 322.6 |
| 54 | 39.5 | 36.8 | 114 | 83.4 | 77.7 | 174 | 127.3 | 118.7 | 234 | 171.1 | 159.6 | 294 | 215.0 | 200.5 | 354 | 258.9 | 241.4 | 414 | 302.8 | 282.4 | 474 | 346.7 | 323.3 |
| 55 | 40.2 | 37.5 | 115 | 84.1 | 76.4 | 175 | 128.0 | 119.3 | 235 | 171.9 | 160.3 | 295 | 215.7 | 201.2 | 355 | 259.6 | 242.1 | 415 | 303.5 | 283.0 | 475 | 347.4 | 324.0 |
| 56 | 41.0 | 38.2 | 116 | 84.8 | 79.1 | 176 | 128.7 | 120.0 | 236 | 172.6 | 161.0 | 226 | 216.5 | 201.0 | 356 | 260.4 | 242.8 | 416 | 304.3 | 283.7 | 476 | 348.1 | 324.5 |
| 57 | 41.7 | 38.9 | 117 | 85.6 | 79.8 | 177 | 120.4 | 120.7 | 237 | 173.3 | 181.6 | 297 | 217.2 | 202.6 | 357 | 261.1 | 243.5 | 117 | 305.0 | 284.4 | 477 | 348.9 | 325.3 |
| 58 | 42.4 | 39.6 | 118 | 86.3 | 80.5 | 178 | 130.2 | 121.4 | 238 | 174.1 | 162.3 | 298 | 217.9 | 203.2 | 358 | 261.8 | 244.2 | 418 | 305.7 | 285.1 | 478 | 349.6 | 326.0 |
| 59 | 43.1 | 40.2 | 119 | 87.0 | 01.2 | 179 | 130.9 | 122.1 | 239 | 174.8 | 163.0 | 299 | 218.7 | 263.9 | 359 | 262.6 | 244.8 | 110 | 306.4 | 285.8 | 479 | 350.3 | 326.7 |
| 60 | 43.9 | 40.9 | 120 | 87.8 | 81.8 | 180 | 131.8 | 122.8 | 240 | 175.5 | 163.7 | 300 | 219.4 | 204.6 | 360 | 263.3 | 245.5 | 120 | 307.2 | 286.4 | 480 | 351.1 | 327.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 8.ᵐ Para 47 grados. 8.ʰ 52.ᵐ

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**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

2.ʰ 56.ᵐ Para 44 grados. 9.ʰ 4.ᵐ

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.7 | 00.7 | 61 | 43.9 | 42.4 | 121 | 87.0 | 84.1 | 181 | 130.2 | 125.7 | 241 | 173.4 | 167.4 | 301 | 218.5 | 209.1 | 401 | 259.7 | 250.8 | 421 | 302.8 | 292.5 |
| 2 | 01.4 | 01.4 | 62 | 41.6 | 43.1 | 122 | 87.8 | 84.7 | 182 | 130.9 | 128.4 | 242 | 174.1 | 188.1 | 302 | 217.2 | 209.8 | 362 | 200.4 | 251.0 | 422 | 303.8 | 293.2 |
| 3 | 02.2 | 02.1 | 63 | 48.3 | 43.8 | 123 | 88.5 | 85.4 | 183 | 131.6 | 127.1 | 243 | 174.8 | 168.8 | 303 | 218.0 | 210.5 | 363 | 261.1 | 252.2 | 423 | 304.3 | 293.8 |
| 4 | 02.2 | 02.8 | 64 | 40.0 | 44.5 | 124 | 89.2 | 80.1 | 184 | 132.4 | 127.8 | 244 | 175.5 | 169.8 | 304 | 218.7 | 211.2 | 364 | 201.8 | 252.9 | 424 | 305.0 | 294.0 |
| 5 | 03.6 | 03.5 | 65 | 45.8 | 45.2 | 125 | 89.9 | 86.8 | 185 | 133.1 | 128.5 | 245 | 176.2 | 170.2 | 305 | 219.4 | 211.9 | 365 | 202.6 | 253.6 | 425 | 305.7 | 295.2 |
| 6 | 04.3 | 04.2 | 66 | 47.5 | 45.8 | 120 | 90.6 | 87.5 | 186 | 133.8 | 129.2 | 246 | 177.0 | 170.9 | 306 | 220.1 | 212.0 | 385 | 263.3 | 254.3 | 420 | 306.4 | 295.9 |
| 7 | 05.0 | 04.9 | 67 | 48.2 | 46.5 | 127 | 21.4 | 88.2 | 187 | 131.5 | 129.9 | 247 | 177.7 | 171.8 | 307 | 220.8 | 213.3 | 367 | 264.0 | 254.9 | 427 | 307.2 | 298.6 |
| 8 | 05.8 | 05.6 | 68 | 48.9 | 47.2 | 128 | 92.1 | 88.2 | 188 | 135.2 | 130.6 | 248 | 178.4 | 172.3 | 308 | 221.6 | 214.0 | 308 | 264.7 | 255.6 | 428 | 307.9 | 297.3 |
| 9 | 06.5 | 05.3 | 69 | 49.8 | 47.2 | 129 | 92.8 | 89.5 | 189 | 136.0 | 131.3 | 249 | 172.1 | 173.0 | 309 | 222.3 | 214.7 | 362 | 265.4 | 258.3 | 429 | 308.6 | 228.0 |
| 10 | 07.2 | 08.9 | 70 | 50.4 | 48.6 | 130 | 93.8 | 20.3 | 190 | 136.7 | 132.0 | 250 | 179.8 | 173.7 | 310 | 223.0 | 215.4 | 370 | 208.2 | 257.0 | 430 | 309.3 | 228.7 |
| 11 | 07.9 | 07.6 | 71 | 51.1 | 49.3 | 131 | 24.2 | 91.0 | 191 | 137.4 | 132.7 | 251 | 180.6 | 174.4 | 311 | 223.7 | 216.0 | 371 | 266.9 | 257.7 | 431 | 310.0 | 299.4 |
| 12 | 08.6 | 08.3 | 72 | 51.8 | 50.0 | 132 | 95.0 | 21.7 | 192 | 138.1 | 133.4 | 252 | 181.3 | 175.1 | 312 | 224.4 | 216.7 | 372 | 267.0 | 250.4 | 432 | 310.8 | 300.1 |
| 13 | 09.4 | 09.0 | 73 | 52.5 | 50.7 | 133 | 95.7 | 22.4 | 193 | 138.8 | 134.1 | 253 | 182 0 | 175.7 | 313 | 225.2 | 217.4 | 373 | 260.3 | 252.1 | 433 | 311.5 | 300.8 |
| 14 | 10.1 | 09.7 | 74 | 53.2 | 51.4 | 134 | 26.4 | 93.1 | 124 | 132.6 | 134.8 | 254 | 182.7 | 176.4 | 314 | 225.2 | 218.1 | 374 | 269.0 | 259.8 | 434 | 312.2 | 301.5 |
| 15 | 10.8 | 10.4 | 75 | 04.0 | 52.1 | 135 | 27.1 | 23.8 | 125 | 140.3 | 135.5 | 255 | 183.4 | 177.1 | 315 | 226.6 | 218.8 | 375 | 269.8 | 280.5 | 435 | 312.9 | 302.2 |
| 18 | 11.5 | 11.1 | 70 | 84.7 | 52.8 | 136 | 97.8 | 91.5 | 198 | 141.0 | 136.2 | 256 | 184.2 | 177.8 | 318 | 227.3 | 219.5 | 376 | 270.5 | 261.2 | 436 | 313.8 | 302.9 |
| 17 | 12.2 | 11.8 | 77 | 85.4 | 53.5 | 137 | 98.5 | 95.2 | 197 | 141.7 | 136.8 | 257 | 181.9 | 178.5 | 317 | 228.0 | 220.2 | 377 | 271.2 | 261.9 | 437 | 314.4 | 303.0 |
| 10 | 12.2 | 12.5 | 78 | 56.1 | 04.2 | 138 | 99.3 | 95.9 | 198 | 142.4 | 137.5 | 258 | 185.6 | 179.2 | 318 | 228.8 | 220.2 | 378 | 271.9 | 282.6 | 438 | 315.1 | 304.3 |
| 19 | 13.7 | 13.2 | 79 | 50.8 | 54.9 | 139 | 100.0 | 90.6 | 199 | 143.1 | 138.2 | 259 | 186.3 | 179.9 | 319 | 229.5 | 221.6 | 379 | 272.6 | 263.3 | 439 | 315.8 | 305.0 |
| 20 | 14.4 | 13.9 | 80 | 57.5 | 55.6 | 140 | 100.7 | 97.3 | 200 | 143.9 | 130.9 | 260 | 187.0 | 180.6 | 320 | 230.2 | 222.3 | 380 | 273.1 | 284.0 | 440 | 318.5 | 305.7 |
| 21 | 15.1 | 14.6 | 81 | 58.3 | 55.3 | 141 | 101.4 | 97.9 | 201 | 144.0 | 139.6 | 261 | 187.7 | 181.3 | 321 | 230.2 | 223.0 | 381 | 274.1 | 284.7 | 441 | 317.2 | 306.4 |
| 22 | 15.8 | 15.3 | 82 | 52.0 | 87.0 | 142 | 102.1 | 28.6 | 202 | 115.3 | 110.3 | 262 | 188.5 | 182.0 | 322 | 231.0 | 223.7 | 382 | 274.8 | 263.4 | 442 | 318.0 | 307.0 |
| 23 | 16.5 | 10.0 | 83 | 89.7 | 87.7 | 143 | 102.2 | 99.3 | 203 | 146.0 | 141.0 | 263 | 189.2 | 182.7 | 323 | 232.3 | 221.4 | 383 | 275.5 | 286.1 | 443 | 310.7 | 307.7 |
| 24 | 17.3 | 16.7 | 81 | 60.4 | 58.4 | 144 | 103.0 | 100.0 | 204 | 146.7 | 141.7 | 264 | 189.9 | 183.4 | 324 | 233.1 | 225.1 | 384 | 278.2 | 268.8 | 444 | 319.4 | 308.4 |
| 25 | 18.0 | 17.4 | 85 | 61.1 | 59.8 | 145 | 104.3 | 100.7 | 205 | 147.8 | 142.4 | 285 | 190.6 | 184.1 | 325 | 233.0 | 225.8 | 385 | 276.9 | 267.5 | 445 | 320.1 | 309.1 |
| 20 | 18.7 | 18.1 | 86 | 81.9 | 89.7 | 148 | 105.0 | 101.4 | 200 | 148.2 | 143.1 | 266 | 121.3 | 184.8 | 326 | 234.8 | 228.5 | 386 | 277.7 | 268.1 | 446 | 320.8 | 309.8 |
| 27 | 12.4 | 18.8 | 87 | 62.6 | 60.4 | 147 | 105.7 | 102.1 | 207 | 148.9 | 143.8 | 267 | 192.1 | 185.5 | 327 | 235.2 | 227.2 | 387 | 278.4 | 268.8 | 447 | 321.5 | 310.0 |
| 28 | 20.1 | 19.5 | 88 | 03.3 | 61.1 | 148 | 106.5 | 102.8 | 208 | 149.6 | 144.5 | 268 | 192.8 | 180.2 | 328 | 235.9 | 227.2 | 388 | 279.1 | 269.5 | 448 | 322.3 | 311.2 |
| 29 | 20.2 | 20.1 | 89 | 64.0 | 61.8 | 149 | 107.2 | 103.5 | 202 | 150.3 | 145.2 | 269 | 123.8 | 186.9 | 329 | 236.7 | 228.6 | 389 | 279.8 | 270.2 | 449 | 323.0 | 311.9 |
| 30 | 21.6 | 20.8 | 90 | 64.7 | 62.5 | 150 | 107.9 | 104.2 | 210 | 151.1 | 145.9 | 270 | 194.2 | 107.6 | 330 | 237.4 | 229.2 | 390 | 280.5 | 270.5 | 450 | 323.7 | 312.6 |
| 31 | 22.3 | 21.5 | 91 | 85.5 | 03.2 | 151 | 108.6 | 104.9 | 211 | 151.8 | 140.0 | 271 | 194.9 | 188.3 | 331 | 238.1 | 229.9 | 391 | 281.3 | 271.0 | 451 | 324.4 | 313.3 |
| 32 | 23.0 | 22.2 | 92 | 00.2 | 63.9 | 152 | 102.3 | 105.0 | 212 | 152.5 | 147.3 | 272 | 195.7 | 188.9 | 332 | 238.8 | 230.6 | 392 | 282.0 | 272.3 | 452 | 325.2 | 314.0 |
| 33 | 23.7 | 22.9 | 93 | 58.2 | 64.0 | 153 | 110.1 | 106.3 | 213 | 153.2 | 148.0 | 273 | 195.4 | 189.6 | 333 | 239.5 | 231.3 | 393 | 282.7 | 273.0 | 453 | 325.9 | 314.7 |
| 34 | 24.5 | 23.6 | 94 | 67.6 | 65.3 | 154 | 110.6 | 107.0 | 214 | 153.9 | 148.7 | 274 | 127.1 | 190.3 | 334 | 240.3 | 232.0 | 394 | 283.4 | 273.7 | 454 | 326.8 | 315.4 |
| 35 | 25.2 | 24.3 | 95 | 68.3 | 66.0 | 155 | 111.5 | 107.7 | 215 | 154.7 | 149.4 | 275 | 127.8 | 191.0 | 335 | 241.0 | 232.7 | 395 | 284.1 | 274.4 | 455 | 327.3 | 318.1 |
| 36 | 25.9 | 25.0 | 96 | 69.1 | 66.7 | 156 | 112.2 | 108.4 | 218 | 105.4 | 150.0 | 276 | 198.5 | 191.7 | 336 | 241.7 | 233.4 | 396 | 284.9 | 275.1 | 455 | 328.0 | 310.8 |
| 37 | 20.8 | 25.7 | 97 | 69.0 | 07.4 | 157 | 112.9 | 109.1 | 217 | 156.1 | 150.7 | 277 | 199.3 | 192.4 | 337 | 212.4 | 234.1 | 397 | 285.6 | 275.8 | 457 | 328.7 | 317.5 |
| 38 | 27.3 | 26.4 | 98 | 70.5 | 68.1 | 158 | 113.7 | 109.8 | 218 | 156.8 | 151.4 | 278 | 200.0 | 193.1 | 338 | 243.1 | 234.8 | 398 | 286.3 | 276.5 | 458 | 329.5 | 318.2 |
| 39 | 28.1 | 27.1 | 99 | 71.2 | 68.8 | 159 | 114.4 | 110.8 | 219 | 157.5 | 152.1 | 279 | 200.7 | 193.8 | 339 | 243.9 | 235.5 | 392 | 287.0 | 277.2 | 459 | 330.2 | 318.9 |
| 40 | 28.8 | 27.8 | 100 | 71.9 | 62.5 | 160 | 115.1 | 111.1 | 220 | 150.3 | 152.8 | 280 | 201.4 | 194.5 | 340 | 244.8 | 236.2 | 400 | 287.7 | 277.9 | 460 | 330.9 | 319.6 |
| 41 | 29.5 | 28.5 | 101 | 72.7 | 70.2 | 161 | 115.8 | 111.8 | 221 | 159.0 | 153.5 | 281 | 202.1 | 195.2 | 341 | 245.3 | 236.9 | 401 | 288.5 | 278.6 | 451 | 331.6 | 320.2 |
| 42 | 30.2 | 29.2 | 102 | 73.4 | 70.9 | 162 | 116.8 | 112.5 | 222 | 152.7 | 154.2 | 282 | 202.9 | 195.9 | 312 | 246.0 | 237.5 | 402 | 289.2 | 279.3 | 462 | 332.3 | 320.9 |
| 43 | 30.9 | 29.2 | 103 | 74.1 | 71.8 | 163 | 117.3 | 113.2 | 223 | 160.4 | 154.9 | 283 | 203.6 | 196.6 | 343 | 246.7 | 238.3 | 403 | 289.2 | 280.0 | 463 | 333.1 | 321.6 |
| 44 | 31.7 | 30.0 | 104 | 74.8 | 72.2 | 164 | 118.0 | 113.9 | 224 | 151.1 | 155.6 | 284 | 204.3 | 197.3 | 344 | 247.5 | 239.0 | 404 | 220.6 | 280.7 | 464 | 333.8 | 322.3 |
| 45 | 32.4 | 31.3 | 105 | 75.5 | 72.2 | 165 | 118.7 | 114.6 | 225 | 161.9 | 156.3 | 285 | 205.0 | 128.0 | 345 | 248.2 | 239.7 | 405 | 291.3 | 281.3 | 465 | 334.8 | 323.0 |
| 48 | 33.1 | 32.0 | 108 | 75.3 | 73.8 | 156 | 112.4 | 115.3 | 226 | 102.0 | 157.0 | 286 | 205.7 | 198.7 | 346 | 248.9 | 240.4 | 100 | 292.1 | 282.0 | 406 | 335.2 | 323.7 |
| 47 | 33.8 | 32.6 | 107 | 77.0 | 74.3 | 107 | 120.1 | 116.0 | 227 | 103.3 | 157.7 | 287 | 206.5 | 199.4 | 347 | 249.6 | 241.1 | 407 | 292.8 | 282.7 | 407 | 335.9 | 324.4 |
| 48 | 34.5 | 33.3 | 108 | 77.7 | 75.0 | 168 | 120.8 | 118.7 | 228 | 164.0 | 158.4 | 288 | 207.2 | 200.1 | 348 | 250.3 | 241.7 | 108 | 223.5 | 283.4 | 468 | 338.7 | 325.1 |
| 49 | 35.2 | 34.0 | 109 | 78.4 | 75.7 | 169 | 121.0 | 117.4 | 229 | 184.7 | 159.1 | 282 | 207.9 | 200.8 | 342 | 251.1 | 242.4 | 409 | 294.2 | 284.1 | 409 | 337.4 | 325.8 |
| 80 | 36.0 | 34.7 | 110 | 79.1 | 76.4 | 170 | 122.3 | 118.1 | 230 | 168.4 | 152.8 | 290 | 208.8 | 201.5 | 350 | 251.8 | 243.1 | 410 | 294.9 | 284.8 | 470 | 338.1 | 320.5 |
| 81 | 36.7 | 35.4 | 111 | 79.8 | 77.1 | 171 | 123.0 | 118.8 | 231 | 166.2 | 180.5 | 221 | 209.3 | 202.1 | 351 | 252.5 | 243.8 | 411 | 295.7 | 285.5 | 471 | 338.8 | 327.2 |
| 52 | 37.4 | 38.1 | 112 | 80.8 | 77.8 | 172 | 123.7 | 112.5 | 232 | 168.9 | 161.2 | 222 | 210.0 | 202.8 | 352 | 253.2 | 244.5 | 412 | 296.4 | 286.2 | 472 | 339.5 | 327.9 |
| 53 | 38.1 | 36.8 | 113 | 81.3 | 78.5 | 173 | 124.4 | 120.2 | 233 | 187.6 | 161.9 | 223 | 210.8 | 203.5 | 353 | 253.9 | 245.2 | 113 | 297.1 | 280.9 | 473 | 340.3 | 328.5 |
| 54 | 38.8 | 37.5 | 114 | 82.0 | 72.2 | 174 | 125.2 | 120.2 | 234 | 168.3 | 182.6 | 294 | 211.5 | 204.2 | 354 | 254.6 | 245.9 | 414 | 297.8 | 287.6 | 474 | 341.0 | 322.3 |
| 55 | 39.6 | 38.2 | 115 | 82.7 | 79.9 | 175 | 125.9 | 121.0 | 235 | 169.0 | 163.2 | 225 | 212.2 | 201.9 | 355 | 255.4 | 246.6 | 415 | 298.5 | 288.3 | 475 | 311.7 | 330.0 |
| 55 | 40.3 | 30.9 | 116 | 83.4 | 80.6 | 176 | 120.6 | 122.3 | 235 | 162.8 | 163.9 | 220 | 212.9 | 205.6 | 356 | 256.1 | 247.3 | 410 | 299.2 | 289.0 | 476 | 342.4 | 330.7 |
| 57 | 41.0 | 39.5 | 117 | 84.2 | 81.3 | 177 | 127.3 | 123.0 | 237 | 170.5 | 184.6 | 297 | 213.6 | 200.3 | 357 | 258.8 | 248.0 | 117 | 300.0 | 289.7 | 477 | 343.1 | 331.4 |
| 08 | 41.7 | 40.3 | 118 | 84.9 | 82.0 | 178 | 128.0 | 123.6 | 238 | 171.2 | 165.3 | 298 | 214.4 | 207.0 | 358 | 257.5 | 248.7 | 418 | 300.7 | 290.4 | 478 | 343.8 | 332.1 |
| 59 | 42.4 | 41.0 | 119 | 85.6 | 82.7 | 179 | 128.8 | 124.3 | 239 | 171.9 | 166.0 | 299 | 215.1 | 207.7 | 359 | 250.2 | 249.4 | 419 | 301.4 | 291.1 | 179 | 344.6 | 332.7 |
| 80 | 43.2 | 41.7 | 120 | 88.3 | 83.4 | 180 | 129.5 | 125.8 | 240 | 172.6 | 186.7 | 300 | 218.8 | 208.4 | 360 | 259.0 | 250.1 | 420 | 302.1 | 291.8 | 480 | 345.3 | 333.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.ʰ 4.ᵐ Para 46 grados. 8.ʰ 56.ᵐ

**Tabla XXXV.** Diferencias en latitud y apartamientos de meridiano.

3.h 0.m — Para 45 grados. — 9.h 0.m

| Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. | Dist. | Dif. lat. | Apart. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00.7 | 00.7 | 61 | 43.1 | 43.1 | 121 | 85.6 | 85.5 | 181 | 128.0 | 128.0 | 241 | 170.4 | 170.4 | 301 | 212.8 | 212.8 | 361 | 255.3 | 255.3 | 421 | 297.7 | 297.7 |
| 2 | 01.4 | 01.4 | 62 | 43.8 | 43.8 | 122 | 86.5 | 86.3 | 182 | 128.7 | 128.7 | 242 | 171.1 | 171.1 | 302 | 213.5 | 213.5 | 362 | 256.0 | 256.0 | 422 | 298.4 | 298.4 |
| 3 | 02.1 | 02.1 | 63 | 41.5 | 44.5 | 123 | 87.0 | 87.0 | 185 | 129.4 | 129.4 | 243 | 171.8 | 171.8 | 303 | 214.3 | 214.3 | 363 | 256.7 | 256.7 | 425 | 299.1 | 299.1 |
| 4 | 02.8 | 02.8 | 64 | 45.3 | 45.3 | 124 | 87.7 | 87.7 | 184 | 130.1 | 130.1 | 244 | 172.5 | 172.5 | 304 | 215.0 | 215.0 | 364 | 257.4 | 257.4 | 424 | 299.8 | 299.8 |
| 5 | 03.5 | 03.5 | 65 | 46.0 | 46.0 | 125 | 88.4 | 88.4 | 185 | 130.8 | 130.8 | 245 | 173.2 | 173.2 | 305 | 215.7 | 215.7 | 365 | 258.1 | 258.1 | 425 | 300.5 | 300.5 |
| 6 | 04.2 | 04.2 | 66 | 46.7 | 46.7 | 126 | 89.1 | 89.1 | 186 | 131.5 | 131.5 | 246 | 175.9 | 173.9 | 306 | 216.4 | 216.4 | 366 | 258.8 | 258.8 | 426 | 301.2 | 301.2 |
| 7 | 04.9 | 01.9 | 67 | 47.4 | 47.4 | 127 | 89.8 | 82.8 | 187 | 132.2 | 132.2 | 247 | 174.7 | 174.7 | 307 | 217.1 | 217.1 | 367 | 259.5 | 259.6 | 427 | 301.9 | 301.9 |
| 8 | 05.7 | 05.7 | 68 | 48.1 | 48.1 | 128 | 90.5 | 90.5 | 188 | 132.9 | 132.9 | 248 | 175.4 | 175.4 | 308 | 217.8 | 217.8 | 368 | 260.2 | 260.2 | 428 | 302.7 | 302.7 |
| 9 | 06.4 | 06.4 | 69 | 48.8 | 48.8 | 129 | 91.2 | 91.2 | 189 | 135.5 | 133.6 | 249 | 175.1 | 176.1 | 309 | 218.5 | 218.5 | 369 | 260.9 | 260.9 | 429 | 303.4 | 303.4 |
| 10 | 07.1 | 07.1 | 70 | 49.5 | 49.5 | 130 | 91.9 | 91.9 | 190 | 134.4 | 134.4 | 250 | 176.8 | 176.8 | 310 | 219.2 | 219.2 | 370 | 261.6 | 261.6 | 430 | 301.1 | 504.1 |
| 11 | 07.8 | 07.8 | 71 | 50.9 | 50.2 | 151 | 92.6 | 92.6 | 191 | 135.1 | 135.1 | 251 | 177.5 | 177.5 | 311 | 219.9 | 219.9 | 371 | 262.3 | 262.3 | 431 | 304.8 | 504.8 |
| 12 | 08.5 | 88.5 | 72 | 60.9 | 50.9 | 132 | 93.3 | 93.3 | 192 | 135.8 | 135.8 | 252 | 178.2 | 178.2 | 312 | 220.5 | 220.6 | 372 | 263.0 | 263.0 | 432 | 305.5 | 305.5 |
| 13 | 09.2 | 89.2 | 73 | 51.6 | 51.6 | 153 | 94.0 | 91.0 | 123 | 136.5 | 136.5 | 253 | 178.9 | 178.9 | 313 | 221.3 | 221.3 | 373 | 263.8 | 263.8 | 433 | 306.2 | 306.2 |
| 14 | 09.9 | 09.9 | 74 | 52.3 | 52.3 | 134 | 94.8 | 94.8 | 194 | 137.2 | 137.2 | 254 | 179.6 | 179.6 | 314 | 222.0 | 222.0 | 374 | 264.5 | 264.5 | 434 | 305.9 | 306.9 |
| 15 | 10.6 | 10.6 | 75 | 53.0 | 53.0 | 135 | 95.5 | 95.5 | 195 | 137.9 | 137.9 | 255 | 180.3 | 180.3 | 315 | 222.7 | 222.7 | 375 | 265.2 | 265.2 | 435 | 307.6 | 307.6 |
| 16 | 11.3 | 11.3 | 76 | 53.7 | 53.7 | 136 | 96.2 | 96.2 | 196 | 138.5 | 138.6 | 256 | 181.0 | 181.0 | 316 | 923.4 | 223.4 | 376 | 265.9 | 265.9 | 436 | 308.3 | 308.3 |
| 17 | 12.0 | 12.0 | 77 | 54.4 | 54.4 | 137 | 96.9 | 96.9 | 197 | 139.3 | 139.3 | 257 | 181.7 | 181.7 | 317 | 224.2 | 224.2 | 377 | 266.6 | 266.6 | 437 | 309.0 | 309.0 |
| 18 | 12.7 | 12.7 | 78 | 65.2 | 55.2 | 138 | 97.6 | 97.6 | 198 | 140.0 | 140.0 | 258 | 182.4 | 182.4 | 318 | 224.9 | 224.9 | 378 | 267.3 | 267.3 | 438 | 309.7 | 309.7 |
| 19 | 13.4 | 13.4 | 79 | 55.9 | 55.9 | 139 | 98.3 | 98.3 | 199 | 140.7 | 140.7 | 259 | 183.1 | 183.1 | 319 | 225.6 | 225.6 | 479 | 268.0 | 268.0 | 439 | 310.4 | 310.4 |
| 20 | 14.1 | 14.1 | 80 | 56.6 | 56.6 | 140 | 99.0 | 99.0 | 200 | 141.4 | 141.4 | 260 | 183.8 | 183.8 | 320 | 226.3 | 226.3 | 380 | 268.7 | 268.7 | 440 | 311.1 | 311.1 |
| 21 | 14.8 | 14.8 | 81 | 57.3 | 57.3 | 141 | 99.7 | 99.7 | 201 | 142.1 | 142.1 | 261 | 184.6 | 184.6 | 321 | 227.0 | 227.0 | 381 | 269.4 | 269.4 | 441 | 311.8 | 311.8 |
| 22 | 16.6 | 15.6 | 82 | 58.0 | 58.0 | 142 | 100.4 | 100.4 | 202 | 142.8 | 142.8 | 262 | 185.3 | 185.3 | 322 | 227.7 | 227.7 | 382 | 270.1 | 270.1 | 442 | 312.5 | 312.5 |
| 23 | 16.5 | 16.3 | 83 | 58.7 | 58.7 | 143 | 101.1 | 101.1 | 203 | 143.5 | 145.5 | 263 | 186.0 | 186.0 | 323 | 228.4 | 228.4 | 383 | 270.8 | 270.8 | 443 | 313.3 | 313.3 |
| 94 | 17.0 | 17.0 | 84 | 59.4 | 59.4 | 144 | 101.8 | 101.8 | 204 | 144.2 | 144.2 | 264 | 186.7 | 186.7 | 324 | 229.1 | 229.1 | 384 | 271.5 | 271.5 | 444 | 514.0 | 314.0 |
| 25 | 17.7 | 17.7 | 85 | 60.1 | 60.1 | 145 | 102.5 | 102.5 | 205 | 145.0 | 145.0 | 265 | 187.4 | 187.4 | 325 | 229.8 | 229.8 | 385 | 272.2 | 272.2 | 445 | 314.7 | 314.7 |
| 26 | 18.4 | 18.4 | 86 | 60.8 | 60.8 | 146 | 103.2 | 103.2 | 206 | 145.7 | 145.7 | 266 | 198.1 | 188.1 | 326 | 230.5 | 230.5 | 386 | 272.9 | 272.9 | 446 | 315.4 | 315.4 |
| 27 | 19.1 | 19.1 | 87 | 61.5 | 61.5 | 147 | 103.9 | 103.9 | 207 | 146.4 | 146.4 | 267 | 188.8 | 188.8 | 327 | 231.2 | 231.2 | 387 | 273.7 | 275.7 | 447 | 316.1 | 316.1 |
| 28 | 19.8 | 19.8 | 88 | 62.2 | 62.2 | 148 | 104.7 | 104.7 | 208 | 147.1 | 147.1 | 268 | 182.6 | 189.5 | 328 | 231.9 | 231.9 | 388 | 274.4 | 274.4 | 448 | 316.8 | 316.8 |
| 29 | 20.5 | 20.5 | 89 | 62.9 | 62.9 | 149 | 105.4 | 105.4 | 209 | 147.8 | 147.8 | 269 | 190.9 | 190.2 | 329 | 232.6 | 232.6 | 389 | 275.1 | 275.1 | 449 | 517.5 | 317.5 |
| 30 | 21.2 | 21.2 | 90 | 63.6 | 63.6 | 150 | 106.1 | 106.1 | 210 | 148.5 | 148.5 | 270 | 190.9 | 190.9 | 330 | 233.3 | 233.3 | 390 | 276.8 | 275.8 | 450 | 318.2 | 318.2 |
| 31 | 21.9 | 21.9 | 91 | 64.3 | 64.3 | 151 | 106.8 | 106.8 | 211 | 149.2 | 149.2 | 271 | 191.6 | 191.6 | 331 | 234.1 | 234.1 | 391 | 276.5 | 276.5 | 451 | 318.9 | 310.2 |
| 32 | 22.6 | 22.6 | 92 | 65.1 | 65.1 | 152 | 107.5 | 107.5 | 212 | 149.9 | 149.9 | 272 | 192.3 | 192.3 | 332 | 234.8 | 234.8 | 392 | 277.2 | 277.2 | 452 | 519.6 | 319.6 |
| 33 | 23.3 | 23.3 | 93 | 65.8 | 65.8 | 153 | 108.2 | 108.2 | 215 | 150.6 | 150.6 | 273 | 193.0 | 193.0 | 335 | 235.5 | 235.5 | 393 | 277.9 | 277.9 | 455 | 320.3 | 320.3 |
| 34 | 24.0 | 24.0 | 94 | 66.5 | 66.5 | 154 | 108.9 | 108.9 | 214 | 151.3 | 151.3 | 274 | 193.7 | 193.7 | 334 | 235.2 | 236.2 | 394 | 278.6 | 278.6 | 454 | 521.0 | 321.0 |
| 35 | 24.7 | 24.7 | 95 | 67.2 | 67.2 | 155 | 109.6 | 109.6 | 215 | 152.0 | 152.0 | 275 | 194.6 | 194.5 | 335 | 236.9 | 236.9 | 395 | 279.5 | 279.3 | 455 | 321.7 | 321.7 |
| 36 | 25.5 | 25.5 | 96 | 67.9 | 67.9 | 156 | 110.3 | 110.3 | 216 | 152.7 | 152.7 | 275 | 195.2 | 195.2 | 336 | 237.6 | 237.6 | 396 | 280.0 | 280.0 | 456 | 322.4 | 322.4 |
| 37 | 26.2 | 26.2 | 97 | 68.6 | 68.6 | 157 | 111.0 | 111.0 | 217 | 153.4 | 153.4 | 277 | 195.9 | 195.9 | 337 | 238.3 | 238.5 | 397 | 280.7 | 280.7 | 457 | 323.2 | 323.2 |
| 38 | 26.9 | 26.9 | 98 | 69.3 | 69.3 | 158 | 111.7 | 111.7 | 218 | 154.1 | 154.1 | 278 | 196.6 | 196.6 | 338 | 239.0 | 239.0 | 398 | 281.4 | 281.4 | 458 | 323.9 | 323.9 |
| 39 | 27.5 | 27.6 | 99 | 70.0 | 70.0 | 159 | 112.4 | 119.4 | 219 | 154.9 | 154.9 | 279 | 197.3 | 197.3 | 339 | 239.7 | 239.7 | 399 | 282.1 | 282.1 | 459 | 324.6 | 324.6 |
| 40 | 28.3 | 28.3 | 100 | 70.7 | 70.7 | 160 | 113.1 | 113.1 | 220 | 155.6 | 155.6 | 280 | 198.0 | 198.0 | 340 | 240.4 | 240.4 | 400 | 282.8 | 282.8 | 460 | 325.3 | 326.3 |
| 41 | 29.0 | 29.0 | 101 | 71.4 | 71.4 | 161 | 113.8 | 113.8 | 221 | 156.3 | 156.3 | 281 | 198.7 | 198.7 | 341 | 241.1 | 241.1 | 401 | 283.6 | 283.6 | 461 | 326.0 | 326.0 |
| 42 | 29.7 | 29.7 | 102 | 72.1 | 72.1 | 162 | 114.6 | 114.6 | 222 | 157.0 | 157.0 | 282 | 199.4 | 199.4 | 342 | 241.8 | 241.8 | 402 | 284.3 | 284.3 | 462 | 326.7 | 326.7 |
| 43 | 30.4 | 30.4 | 103 | 72.8 | 72.8 | 163 | 115.3 | 115.3 | 223 | 157 7 | 157.7 | 283 | 200.1 | 200.1 | 343 | 242.5 | 242.5 | 403 | 285.0 | 285.0 | 463 | 327.4 | 327.4 |
| 44 | 51.1 | 31.1 | 104 | 73.6 | 73.5 | 164 | 116.0 | 116.0 | 224 | 158.4 | 158.4 | 284 | 200.8 | 200.8 | 344 | 243.2 | 243.2 | 404 | 285.7 | 285.7 | 464 | 328.1 | 328.1 |
| 45 | 31.8 | 31.8 | 105 | 74.2 | 74.2 | 165 | 116.7 | 116.7 | 225 | 159.1 | 159.1 | 285 | 201.6 | 201.5 | 345 | 244.0 | 244.0 | 405 | 286.4 | 286.4 | 465 | 328.8 | 328.8 |
| 46 | 32.5 | 32.5 | 106 | 75.0 | 75.0 | 166 | 117.4 | 117.4 | 226 | 159.8 | 159.8 | 286 | 202.2 | 202.2 | 346 | 244.7 | 244.7 | 406 | 287.1 | 287.1 | 166 | 329.5 | 329.5 |
| 47 | 33.2 | 33.2 | 107 | 75.7 | 75.7 | 167 | 118.1 | 118.1 | 227 | 160.5 | 160.5 | 287 | 202.9 | 202.9 | 347 | 245.4 | 245.4 | 407 | 287.8 | 287.8 | 467 | 330.2 | 330.2 |
| 48 | 53.9 | 33.9 | 108 | 76.4 | 76.4 | 168 | 118.8 | 118.8 | 228 | 161.2 | 161.2 | 288 | 203.6 | 203.6 | 348 | 246.1 | 246.1 | 408 | 288.5 | 288.5 | 468 | 330.9 | 330.9 |
| 49 | 34.6 | 34.6 | 109 | 77.1 | 77.1 | 169 | 119.5 | 119.5 | 229 | 161.9 | 161.9 | 289 | 204.4 | 204.4 | 349 | 246.8 | 246.8 | 409 | 289.2 | 289.2 | 469 | 331.6 | 331.6 |
| 50 | 35.4 | 35.4 | 110 | 77.8 | 77.8 | 170 | 120.2 | 120.2 | 230 | 162.6 | 162.6 | 290 | 205.1 | 205.1 | 350 | 247.6 | 247.5 | 410 | 289.9 | 289.9 | 470 | 332.5 | 332.3 |
| 51 | 36.1 | 36.1 | 111 | 78.6 | 78.5 | 171 | 120.9 | 120.9 | 231 | 163.3 | 163.5 | 291 | 205.8 | 205.8 | 351 | 248.2 | 248.2 | 411 | 290.6 | 290.6 | 471 | 333.1 | 333.1 |
| 52 | 56.8 | 36.8 | 112 | 79.2 | 79.2 | 172 | 121.6 | 121.6 | 232 | 164.0 | 164.0 | 292 | 206.6 | 206.5 | 352 | 248.9 | 248.9 | 412 | 291.3 | 291.3 | 472 | 333.8 | 333.8 |
| 53 | 57.5 | 37.5 | 113 | 79.9 | 79.9 | 173 | 122.3 | 122.3 | 233 | 164.8 | 164.8 | 293 | 207.2 | 207.2 | 353 | 249.6 | 249.6 | 413 | 292.0 | 292.0 | 473 | 334.5 | 334.5 |
| 54 | 38.2 | 38.2 | 114 | 80.6 | 80.6 | 174 | 123.0 | 123.0 | 254 | 165.6 | 165.5 | 294 | 207.9 | 207.9 | 354 | 250.3 | 250.3 | 414 | 292.7 | 292.7 | 474 | 335.2 | 345.2 |
| 55 | 38.9 | 38.9 | 115 | 81.5 | 81.3 | 175 | 123.7 | 123.7 | 235 | 166.2 | 166.2 | 295 | 208.6 | 208.6 | 355 | 251.0 | 251.0 | 415 | 293.5 | 295.5 | 475 | 535.9 | 335.9 |
| 56 | 39.6 | 39.6 | 116 | 82.0 | 82.0 | 176 | 124.5 | 194.5 | 256 | 166.9 | 166.9 | 296 | 202.5 | 209.3 | 356 | 251.7 | 251.7 | 416 | 294.2 | 294.2 | 476 | 336.6 | 3.6.6 |
| 57 | 40.3 | 40.5 | 117 | 82.7 | 82.7 | 177 | 125.2 | 125.2 | 237 | 157.6 | 157.6 | 297 | 210.0 | 210.0 | 357 | 252.4 | 252.4 | 417 | 294.9 | 294.9 | 477 | 337.3 | 337.5 |
| 68 | 41.0 | 41.0 | 118 | 83.4 | 83.4 | 178 | 125.9 | 125.9 | 238 | 168.3 | 168.5 | 298 | 210.7 | 210.7 | 358 | 253.1 | 253.1 | 418 | 295.6 | 295.6 | 478 | 338.0 | 338.0 |
| 59 | 41.7 | 41.7 | 119 | 84.1 | 84.1 | 179 | 125.6 | 126.6 | 239 | 159.0 | 169.0 | 299 | 211.4 | 211.4 | 359 | 253.9 | 255.9 | 419 | 296.3 | 296.3 | 479 | 330.7 | 338.7 |
| 60 | 42.4 | 42.4 | 120 | 84.9 | 84.9 | 180 | 127.5 | 127.3 | 240 | 169.7 | 169.7 | 300 | 212.1 | 212.1 | 360 | 254.6 | 254.5 | 420 | 297.0 | 297.0 | 480 | 339.4 | 532.4 |
| Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. | Dist. | Apart. | Dif. lat. |

3.h 0.m — Para 45 grados. — 9.h 0.m

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**Tabla XXXIX.** Para hallar la correccion de segundas diferencias que debe hacerse el tiempo de San Fernando, correspondiente á una distancia lunar reducida.

*Argumentos.*—Intervalo aproximado y diferencia de logaritmos proporcionales.

| Diferencia de logaritmos proporcionales. | INTERVALO. 0.h | | | | | | 1.h | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | m 0 | m 10 | m 20 | m 30 | m 40 | m 50 | m 0 | m 10 | m 20 | m 30 |
| | s | s | s | s | s | s | s | s | s | s |
| 6 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 12 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| 18 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 6 |
| 24 | 0 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 7 |
| 30 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 9 | 9 |
| 36 | 0 | 2 | 4 | 6 | 8 | 9 | 10 | 11 | 11 | 11 |
| 42 | 0 | 3 | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 14 |
| 48 | 0 | 3 | 6 | 8 | 10 | 12 | 13 | 14 | 15 | 15 |
| 54 | 0 | 4 | 7 | 9 | 12 | 13 | 15 | 16 | 17 | 17 |
| 60 | 0 | 4 | 7 | 10 | 13 | 15 | 16 | 18 | 18 | 19 |
| 66 | 0 | 4 | 8 | 11 | 14 | 16 | 18 | 19 | 20 | 20 |
| 72 | 0 | 5 | 9 | 12 | 15 | 18 | 19 | 21 | 22 | 22 |
| 78 | 0 | 5 | 10 | 13 | 17 | 19 | 21 | 23 | 24 | 24 |
| 84 | 0 | 6 | 10 | 14 | 16 | 21 | 23 | 25 | 26 | 26 |
| 90 | 0 | 6 | 11 | 16 | 19 | 22 | 24 | 27 | 28 | 28 |
| 96 | 0 | 7 | 12 | 17 | 21 | 25 | 26 | 28 | 29 | 30 |
| 102 | 0 | 7 | 12 | 16 | 22 | 25 | 27 | 30 | 31 | 32 |
| 108 | 0 | 7 | 13 | 19 | 23 | 27 | 29 | 32 | 33 | 33 |
| | m 0 | m 50 | m 40 | m 30 | m 20 | m 10 | m 0 | m 50 | m 40 | m 30 |
| | 3.h | 2.h INTERVALO. | | | | | | 1.h | | |

| Diferencia de logaritmos proporcionales. | INTERVALO. 0.h | | | | | | 1.h | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | m 0 | m 10 | m 20 | m 30 | m 40 | m 50 | m 0 | m 10 | m 20 | m 30 |
| | s | s | s | s | s | s | s | s | s | s |
| 114 | 0 | 6 | 14 | 20 | 24 | 28 | 31 | 34 | 35 | 35 |
| 120 | 0 | 8 | 15 | 21 | 26 | 30 | 32 | 36 | 37 | 37 |
| 126 | 0 | 9 | 16 | 22 | 27 | 31 | 34 | 37 | 39 | 39 |
| 132 | 0 | 9 | 17 | 23 | 28 | 33 | 36 | 39 | 40 | 41 |
| 138 | 0 | 9 | 18 | 24 | 30 | 34 | 37 | 41 | 42 | 43 |
| 144 | 0 | 10 | 16 | 25 | 31 | 36 | 39 | 43 | 44 | 45 |
| 150 | 0 | 10 | 19 | 26 | 32 | 37 | 40 | 44 | 47 | 47 |
| 156 | 0 | 11 | 20 | 27 | 33 | 39 | 42 | 46 | 49 | 48 |
| 162 | 0 | 11 | 21 | 28 | 35 | 40 | 44 | 48 | 50 | 50 |
| 168 | 0 | 11 | 21 | 29 | 36 | 42 | 45 | 50 | 52 | 52 |
| 174 | 0 | 12 | 22 | 30 | 37 | 43 | 47 | 51 | 53 | 54 |
| 180 | 0 | 12 | 23 | 31 | 39 | 45 | 49 | 53 | 55 | 56 |
| 186 | 0 | 12 | 24 | 32 | 40 | 46 | 50 | 55 | 57 | 58 |
| 192 | 0 | 13 | 24 | 33 | 41 | 48 | 52 | 57 | 59 | 60 |
| 198 | 0 | 13 | 25 | 34 | 43 | 49 | 53 | 58 | 61 | 62 |
| 204 | 0 | 14 | 26 | 35 | 44 | 51 | 55 | 60 | 63 | 63 |
| 210 | 0 | 14 | 26 | 36 | 45 | 52 | 57 | 62 | 64 | 65 |
| 216 | 0 | 14 | 27 | 37 | 46 | 54 | 58 | 64 | 66 | 67 |
| | m 0 | m 10 | m 20 | m 30 | m 40 | m 50 | m 0 | m 50 | m 40 | m 30 |
| | 3.h | 2.h INTERVALO. | | | | | | 1.h | | |

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**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

**Intervalo 2ᵐ.**

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 50.0 | 0. 40.0 | 0. 40.1 | 0. 44.4 | 0. 42.9 | 0. 41.4 | 0. 40.0 | 0. 30.7 | 0. 37.5 | 0. 35.4 | 0. 35.3 | 0. 34.3 |
| 0. 20 | 1. 40.0 | 1. 36.0 | 1. 32.3 | 1. 28.2 | 1. 25.2 | 1. 22.8 | 1. 20.0 | 1. 17.4 | 1. 15.0 | 1. 12.7 | 1. 10.6 | 1. 8.6 |
| 0. 30 | 2. 30.6 | 2. 24.0 | 2. 16.5 | 2. 13.3 | 2. 0.6 | 2. 4.1 | 2. 0.0 | 1. 56.1 | 1. 52.5 | 1. 49.1 | 1. 45.9 | 1. 42.0 |
| 0. 40 | | | | | | | | | 2. 30.0 | 2. 25.6 | 2. 21.2 | 2. 17.1 |
| 1′ | 5′0 | 4′8 | 4′0 | 4′4 | 4′3 | 4′1 | 4′0 | 3′2 | 3′7 | 3′6 | 3′5 | 3′4 |
| 2 | 10.0 | 2.0 | 9.2 | 6.2 | 8.6 | 8.3 | 8.6 | 7.0 | 7.5 | 7.3 | 7.1 | 6.0 |
| 3 | 15.0 | 14.4 | 13.8 | 13.3 | 12.2 | 12.4 | 12.0 | 11.6 | 11.2 | 10.9 | 10.6 | 10.3 |
| 4 | 20.0 | 19.2 | 10.4 | 17.0 | 17.2 | 10.5 | 16.0 | 15.6 | 15.0 | 14.5 | 14.1 | 13.7 |
| 5 | 25.0 | 24.0 | 23.0 | 22.2 | 21.5 | 20.7 | 20.0 | 12.4 | 18.7 | 18.2 | 17.7 | 17.1 |
| 6 | 30.0 | 28.9 | 27.7 | 25.6 | 25.7 | 24.8 | 24.0 | 23.3 | 22.4 | 21.9 | 21.2 | 20.5 |
| 7 | 35.0 | 33.7 | 32.3 | 31.1 | 30.0 | 28.9 | 20.0 | 27.2 | 26.2 | 25.5 | 24.7 | 23.2 |
| 8 | 40.0 | 38.5 | 35.2 | 35.5 | 34.3 | 33.0 | 32.0 | 31.0 | 29.9 | 22.1 | 28.2 | 27.4 |
| 9 | 45.0 | 43.3 | 41.5 | 40.0 | 30.5 | 37.2 | 35.0 | 34.2 | 33.7 | 32.8 | 31.8 | 30.8 |

**Intervalo 3ᵐ.**

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 33.3 | 0. 32.4 | 0. 31.6 | 0. 36.8 | 0. 36.0 | 0. 29.3 | 0. 26.0 | 0. 27.2 | 0. 27.3 | 0. 26.7 | 0 26.1 | 0. 25.0 |
| 0. 20 | 1. 6.7 | 1. 4.9 | 1. 3.2 | 1. 1.5 | 1. 8.0 | 0. 56.5 | 0. 57.1 | 0. 55.8 | 0. 54.5 | 0. 53.3 | 0. 52.2 | 0. 51.1 |
| 0. 30 | 1. 40.0 | 1. 37.3 | 1. 34.7 | 1. 32.3 | 1. 30.0 | 1. 27.0 | 1. 25.7 | 1. 23.7 | 1. 21.6 | 1. 20.0 | 1. 10.3 | 1. 15.6 |
| 0. 40 | 2. 13.3 | 2. 9.7 | 2. 0.3 | 2. 3.1 | 2. 0.0 | 1. 57.1 | 1. 54.3 | 1. 51.5 | 1. 42.1 | 1. 46.7 | 1. 44.4 | 1. 42.1 |
| 0. 50 | | | | | 2. 30.0 | 2. 25.3 | 2. 22.2 | 2. 19.5 | 2. 16.4 | 2. 13.3 | 2. 10.4 | 2. 7.7 |
| 1′ | 3′3 | 3′3 | 3′2 | 3′1 | 3′0 | 2′9 | 2′9 | 2′8 | 2′7 | 2′7 | 2′6 | 2′0 |
| 2 | 6.7 | 6.5 | 0.3 | 0.2 | 6.0 | 0.0 | 0.7 | 5.6 | 5.4 | 5.3 | 5.2 | 5.1 |
| 3 | 10.0 | 9.8 | 2.5 | 9.2 | 9.0 | 6.8 | 0.6 | 0.4 | 0.2 | 0.6 | 7.8 | 7.7 |
| 4 | 13.3 | 13.0 | 12.6 | 12.3 | 12.0 | 11.7 | 11.4 | 11.2 | 10.2 | 10.7 | 10.4 | 10.2 |
| 5 | 16.7 | 15.3 | 15.8 | 15.4 | 15.0 | 14.6 | 14.3 | 14.0 | 13.6 | 13.4 | 13.0 | 12.8 |
| 6 | 20.0 | 19.5 | 18.9 | 10.5 | 10.0 | 17.5 | 17.2 | 16.7 | 16.3 | 15.0 | 15.7 | 15.3 |
| 7 | 23.3 | 22.8 | 22.1 | 21.6 | 21.0 | 20.4 | 20.6 | 12.5 | 19.0 | 10.7 | 18.3 | 17.9 |
| 8 | 26.6 | 26.0 | 25.2 | 24.6 | 24.0 | 23.4 | 22.9 | 22.3 | 21.8 | 21.4 | 20.9 | 20.4 |
| 9 | 30.0 | 29.3 | 28.4 | 27.7 | 27.0 | 26.3 | 25.7 | 25.1 | 24.5 | 24.0 | 23.5 | 25.0 |

**Intervalo 4ᵐ.**

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0 25.0 | 0. 24.5 | 0. 24.0 | 0. 23.5 | 0. 23.1 | 0. 22.0 | 0. 22.2 | 0. 21.0 | 0. 21.4 | 0. 21.0 | 6. 20.7 | 0. 20.3 |
| 0. 20 | 0. 50.0 | 0. 42.0 | 0. 48.0 | 0. 47.1 | 0. 46.2 | 0. 40.3 | 0. 44.4 | 0. 43.6 | 0. 42.9 | 0. 42.1 | 0. 41.4 | 0. 40.7 |
| 0. 30 | 1. 15.0 | 1. 13.5 | 1. 11.9 | 1. 10.6 | 1. 2.2 | 1. 7.9 | 1. 6.7 | 1. 5.5 | 1. 4.3 | 1. 3.1 | 1. 2.1 | 1. 1.0 |
| 0. 40 | 1. 40.0 | 1. 38.0 | 1. 35.2 | 1. 34.1 | 1. 32.3 | 1. 30.6 | 1. 20.2 | 1. 27.3 | 1. 25.7 | 1. 24.2 | 1. 22.8 | 1. 21.4 |
| 0. 50 | 2. 5.0 | 2. 2.6 | 2. 0.0 | 1. 57.6 | 1. 56.4 | 1. 53.2 | 1. 51.1 | 1. 49.1 | 1. 47.1 | 1. 45.2 | 1. 43.4 | 1. 41.7 |
| 1. 0 | 2. 30.0 | 2. 27.6 | 2. 24.8 | 2. 21.2 | 2. 10.0 | 2. 15.9 | 2. 13.3 | 2. 10.9 | 2. 0.6 | 2. 6.3 | 2. 4.1 | 2. 2.0 |
| 1. 10 | | | | | | | | | 2. 30.8 | 2. 27.3 | 2. 24.8 | 2. 22.4 |
| 1′ | 2′5 | 2′5 | 2′4 | 2′4 | 2′3 | 2′3 | 2′2 | 2′2 | 2′1 | 2′1 | 2′1 | 2′0 |
| 2 | 5.0 | 4.2 | 4.0 | 4.7 | 4.6 | 4.0 | 4.4 | 4.4 | 4.3 | 4.2 | 4.1 | 4.1 |
| 3 | 7.5 | 7.4 | 7.2 | 7.1 | 0.2 | 6.8 | 6.7 | 6.5 | 6.4 | 6.3 | 5.2 | 5.1 |
| 4 | 10.6 | 9.6 | 9.6 | 9.4 | 9.2 | 9.0 | 0.2 | 6.0 | 0.6 | 0.4 | 0.3 | 0.1 |
| 5 | 12.0 | 12.3 | 12.0 | 11.0 | 11.6 | 11.0 | 11.1 | 10.9 | 10.7 | 10.5 | 10.4 | 10.2 |
| 6 | 15.0 | 14.7 | 14.4 | 14.1 | 13.9 | 13.6 | 13.3 | 13.1 | 12.0 | 12.6 | 12.4 | 12.2 |
| 7 | 17.5 | 17.2 | 16.6 | 16.5 | 16.2 | 15.8 | 15.5 | 16.3 | 15.6 | 14.7 | 14.5 | 14.2 |
| 8 | 20.6 | 19.6 | 19.2 | 18.0 | 18.0 | 10.1 | 17.0 | 17.4 | 17.1 | 16.0 | 16.6 | 10.2 |
| 9 | 22.5 | 22.0 | 21.6 | 21.2 | 20.0 | 20.3 | 20.0 | 19.6 | 19.3 | 10.9 | 18.0 | 10.3 |

**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

Intervalo 5.m

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 20.0 | 0. 19.7 | 0. 19.4 | 0. 19.0 | 0. 18.7 | 0. 10.5 | 0. 18.2 | 0. 17.9 | 0. 17.6 | 0. 17.4 | 0. 17.1 | 0. 16.9 |
| 0. 20 | 0. 40.0 | 0. 39.3 | 0. 38.7 | 0. 38.1 | 0. 37.5 | 0. 35.9 | 0. 30.4 | 0. 35.0 | 0. 35.3 | 0. 34.8 | 0. 34.3 | 0. 33.8 |
| 0. 30 | 1. 0.0 | 0. 59.0 | 0. 58.1 | 0. 57.1 | 0. 56.2 | 0. 55.4 | 0. 54.5 | 0. 53.7 | 0. 52.9 | 0. 52.2 | 0. 51.4 | 0. 50.7 |
| 0. 40 | 1. 20.0 | 1. 18.7 | 1. 17.4 | 1. 16.2 | 1. 15.0 | 1. 13.8 | 1. 12.7 | 1. 11.6 | 1. 10.6 | 1. 9.6 | 1. 8.6 | 1. 7.6 |
| 0. 50 | 1. 40.0 | 1. 38.3 | 1. 36.8 | 1. 35.2 | 1. 33.7 | 1. 32.3 | 1. 30.9 | 1. 29.6 | 1. 28.2 | 1. 26.9 | 1. 25.7 | 1. 94.5 |
| 1. 0 | 2. 00.0 | 1. 58.0 | 1. 56.2 | 1. 54.3 | 1. 52.5 | 1. 50.8 | 1. 49.1 | 1. 47.5 | 1. 45.9 | 1. 44.3 | 1. 42.8 | 1. 41.4 |
| 1. 10 | 2. 20.0 | 2. 17.7 | 9. 15.5 | 9. 13.3 | 2. 11.2 | 2. 9.2 | 2. 7.3 | 9. 5.4 | 2. 3.6 | 9. 1.7 | 2. 0.0 | 1. 58.3 |
| 1. 20 | | | | | 2. 30.0 | 2. 27.7 | 2. 25.4 | 2. 23.3 | 2. 21.2 | 2. 19.1 | 2. 17.1 | 2. 15.2 |
| 1′ | 2′0 | 2′0 | 1′9 | 1′9 | 1′9 | 1′9 | 1′8 | 1′8 | 1′8 | 1′7 | 1′7 | 1′7 |
| 2 | 4.0 | 3.9 | 3.9 | 3.8 | 3.7 | 3.7 | 3.0 | 3.6 | 3.5 | 3.5 | 3.4 | 3.4 |
| 3 | 6.0 | 5.9 | 5.8 | 5.7 | 6.6 | 6.5 | 5.5 | 6.4 | 6.3 | 5.2 | 5.1 | 6.1 |
| 4 | 8.0 | 7.9 | 7.8 | 7.6 | 7.5 | 7.4 | 7.3 | 7.2 | 7.0 | 7.0 | 0.8 | 6.8 |
| 5 | 10.0 | 9.8 | 9.7 | 9.5 | 9.4 | 9.3 | 9.1 | 9.0 | 8.8 | 8.7 | 8.6 | 8.5 |
| 6 | 12.0 | 11.8 | 11.6 | 11.4 | 11.2 | 11.1 | 10.9 | 10.7 | 10.6 | 10.4 | 10.3 | 10.1 |
| 7 | 14.0 | 13.8 | 13.6 | 13.3 | 13.1 | 13.0 | 12.7 | 12.5 | 12.3 | 19.9 | 12.0 | 11.8 |
| 8 | 10.0 | 15.8 | 15.5 | 15.2 | 15.0 | 14.8 | 14.6 | 14.3 | 14.1 | 13.9 | 13.7 | 13.5 |
| 9 | 18.0 | 17.7 | 17.5 | 17.1 | 16.8 | 10.7 | 16.4 | 16.1 | 15.8 | 15.7 | 15.4 | 15.2 |

Intervalo 6.m

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 53° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 9. 10 | 0. 10.7 | 0. 16.4 | 0. 16.2 | 0. 16.0 | 0. 15.8 | 0. 15.6 | 0. 15.4 | 0. 15.2 | 0. 15.0 | 0. 14.8 | 0. 14.6 | 0. 14.5 |
| 0. 20 | 0. 33.3 | 0. 32.9 | 0. 32.4 | 0. 32.0 | 0. 31.6 | 0. 31.2 | 0. 30.8 | 0. 30.4 | 0. 30.0 | 0. 99.6 | 0. 29.2 | 0. 28.9 |
| 0. 30 | 0. 50.0 | 0. 49.3 | 0. 48.7 | 0. 48.0 | 0. 47.4 | 0. 46.7 | 0. 46.1 | 0. 45.6 | 0. 45.0 | 0. 44.4 | 0. 43.9 | 0. 43.4 |
| 0. 40 | 1. 0.7 | 1. 5.0 | 1. 4.2 | 1. 4.0 | 1. 3.9 | 1. 2.3 | 1. 1.0 | 1, 0.0 | 1. 0.0 | 0. 59.2 | 0. 58.5 | 0. 57.8 |
| 0. 50 | 1. 23.3 | 1. 22.2 | 1. 21.1 | 1. 20.0 | 1. 18.9 | 1. 17.9 | 1. 10.9 | 1. 15.9 | 1. 15.0 | 1. 14.0 | 1. 13.1 | 1. 12.3 |
| 1. 0 | 1. 40.0 | 1. 38.6 | 1. 37.3 | 1. 36.0 | 1. 34.7 | 1. 33.5 | 1. 32.3 | 1. 31.1 | 1. 30.0 | 1. 28.2 | 1. 27.8 | 1. 20.8 |
| 1. 10 | 1. 56.7 | 1. 55.1 | 1. 53.5 | 1. 52.0 | 1. 50.5 | 1. 49.1 | 1. 47.7 | 1. 40.3 | 1. 45.0 | 1. 43.7 | 1. 42.4 | 1. 41.2 |
| 1. 20 | 9. 13.3 | 2. 11.5 | 2. 9.6 | 2. 8.0 | 2. 6.3 | 9. 4.6 | 2. 3.0 | 2. 1.5 | 2. 0.0 | 1. 58.5 | 1. 57.0 | 1. 55.7 |
| 1. 30 | 2. 30.0 | 2. 26.0 | 2. 26.0 | 2. 24.0 | 2. 29.1 | 2. 20.3 | 2. 16.4 | 2. 16.7 | 2. 15.0 | 2. 13.3 | 2. 11.7 | 2. 10.1 |
| 1. 40 | | | | | | | | | 2. 30.0 | 2. 98.1 | 2. 26.3 | 2. 94.6 |
| 1′ | 1′7 | 1′6 | 1′0 | 1′6 | 1′6 | 1′0 | 1′5 | 1′5 | 1′5 | 1′5 | 1′5 | 1′5 |
| 2 | 3.3 | 3.3 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 3.0 | 3.0 | 3.0 | 2.2 | 2.9 |
| 3 | 5.0 | 4.9 | 4.9 | 4.6 | 4.7 | 4.7 | 4.6 | 4.6 | 4.5 | 4.4 | 4.4 | 4.4 |
| 4 | 6.7 | 6.6 | 6.5 | 0.4 | 0.3 | 6.2 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 5.8 |
| 6 | 8.4 | 8.2 | 8.1 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.3 |
| 6 | 10.0 | 9.8 | 9.7 | 9.0 | 9.5 | 9.4 | 9.2 | 9.1 | 9.0 | 8.9 | 8.8 | 0.7 |
| 7 | 11.7 | 11.5 | 11.3 | 11.2 | 11.1 | 10.9 | 10.8 | 10.6 | 10.5 | 10.4 | 10.3 | 10.2 |
| 8 | 13.4 | 13.1 | 13.0 | 12.8 | 12.6 | 12.5 | 12.3 | 12.2 | 12.0 | 11.8 | 11.7 | 11.6 |
| 9 | 15.0 | 14.8 | 14.0 | 14.4 | 14.2 | 14.0 | 13.9 | 13.7 | 13.5 | 13.3 | 13.1 | 13.1 |

Intervalo 7.m

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 14.3 | 0. 14.1 | 0. 13.9 | 0. 13.8 | 0. 13.0 | 0. 13.5 | 0, 13.3 | 0. 13.2 | 0. 13.0 | 0. 12.9 | 0. 12.8 | 0. 12.6 |
| 0. 20 | 0. 28.6 | 0. 28.9 | 0. 97.9 | 0. 27.5 | 0. 27.3 | 0. 27.0 | 0. 26.7 | 0. 26.4 | 0. 26.1 | 0. 25.8 | 0. 25.5 | 0. 25.3 |
| 0. 30 | 0. 42.8 | 0. 42.4 | 0. 41.8 | 0. 41.4 | 0. 40.9 | 0. 40.4 | 0. 40.0 | 0. 39.6 | 0. 39.1 | 0. 38.7 | 0. 38.3 | 0. 37.9 |
| 0. 40 | 0. 57.1 | 0. 56.5 | 0. 55.8 | 0. 55.2 | 0. 54.6 | 0. 53.9 | 0. 53.3 | 0. 52.8 | 0. 52.9 | 0. 61.6 | 0. 51.1 | 0. 50.5 |
| 0. 50 | 1. 11.4 | 1. 10.6 | 1. 9.7 | 1. 8.9 | 1. 8.2 | 1. 7.4 | 1. 6.0 | 1. 5.9 | 1. 5.2 | 1. 4.5 | 1. 3.8 | 1. 3.1 |
| 1. 0 | 1. 25.7 | 1. 94.7 | 1. 23.7 | 1. 22.7 | 1. 21.0 | 1. 20.9 | 1. 20.0 | 1. 19.1 | 1. 18.2 | 1. 17.4 | 1. 16.6 | 1. 10.8 |
| 1. 10 | 1. 40.0 | 1. 38.8 | 1. 37.6 | 1. 30.5 | 1. 35.5 | 1. 34.4 | 1. 33.3 | 1. 32.3 | 1. 31.3 | 1. 30.3 | 1. 29.4 | 1. 98.4 |
| 1. 90 | 1. 54.3 | 1. 53.0 | 1. 51.6 | 1. 50.3 | 1. 49.1 | 1. 47.8 | 1. 46.6 | 1. 45.5 | 1. 44.3 | 1. 43.2 | 1. 42.2 | 1. 41.0 |
| 1. 30 | 2. 8.6 | 2. 7.1 | 2. 5.5 | 2. 4.1 | 2. 2.5 | 2. 1.3 | 2. 0.0 | 1. 58.7 | 1. 57.4 | 1. 50.1 | 1. 54.9 | 1. 53.7 |
| 1. 40 | 2. 22.9 | 2. 21.9 | 2. 19.5 | 2. 17.0 | 2. 10.4 | 2. 14.8 | 2. 13.4 | 9. 11.9 | 2. 10.4 | 2. 9.0 | 2. 7.7 | 2. 6.3 |
| 1. 50 | | | | | 2. 30.0 | 2. 28.3 | 2. 26.7 | 2. 25.1 | 2. 23.5 | 2. 21.9 | 2. 20.4 | 2. 18.9 |
| 1′ | 1′4 | 1′4 | 1′4 | 1′4 | 1′4 | 1′4 | 1′3 | 1′3 | 1′3 | 1′3 | 1′3 | 1′3 |
| 9 | 2.9 | 2.8 | 2.8 | 2.0 | 2.7 | 2.7 | 2.7 | 2.6 | 2.6 | 2.5 | 2.6 | 2.5 |
| 3 | 4.3 | 4.2 | 4.9 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.8 |
| 4 | 5.7 | 6.6 | 6.0 | 6.6 | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 6.2 | 0.1 | 5.0 |
| 6 | 7.2 | 7.1 | 7.0 | 0.0 | 6.8 | 6.8 | 0.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.3 |
| 6 | 8.6 | 8.5 | 8.3 | 0.3 | 8.2 | 0.1 | 8.0 | 7.9 | 7.8 | 7.7 | 7.7 | 7.6 |
| 7 | 10.0 | 9.9 | 9.7 | 9.7 | 9.5 | 9.5 | 9.3 | 9.2 | 9.1 | 9.0 | 9.0 | 8.8 |
| 8 | 11.4 | 11.3 | 11.1 | 11.0 | 10.9 | 10.8 | 10.6 | 10.6 | 10.4 | 10.3 | 10.2 | 10.1 |
| 9 | 19.9 | 12.7 | 12.5 | 12.4 | 12.2 | 12.2 | 12.0 | 11.9 | 11.7 | 11.6 | 11.5 | 11.3 |

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**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

**Intervalo 8.ᵐ**

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 12.5 | 0. 12.4 | 0. 12.2 | 0. 12.1 | 0. 12.0 | 0. 11.9 | 0. 11.8 | 0. 11.7 | 0. 11.6 | 0. 11.4 | 0. 11.3 | 0. 11.2 |
| 0. 20 | 0. 25.0 | 0. 24.7 | 0. 24.5 | 0. 24.2 | 0. 24.0 | 0. 23.8 | 0. 23.5 | 0. 23.3 | 0. 23.1 | 0. 22.8 | 0. 22.6 | 0. 22.4 |
| 0. 30 | 0. 37.5 | 0. 37.1 | 0. 36.7 | 0. 36.4 | 0. 36.1 | 0. 35.6 | 0. 35.3 | 0. 34.9 | 0. 34.6 | 0. 34.3 | 0. 34.0 | 0. 33.7 |
| 0. 40 | 0. 50.0 | 0. 49.5 | 0. 49.0 | 0. 48.5 | 0. 48.1 | 0. 47.5 | 0. 47.0 | 0. 46.6 | 0. 46.2 | 0. 45.7 | 0. 45.3 | 0. 44.9 |
| 0. 50 | 1. 2.5 | 1. 1.8 | 1. 1.2 | 1. 0.6 | 1. 0.1 | 0. 59.4 | 0. 58.8 | 0. 58.2 | 0. 57.7 | 0. 57.1 | 0. 56.6 | 0. 56.1 |
| 1. 0 | 1. 15.0 | 1. 14.2 | 1. 13.4 | 1. 12.7 | 1. 12.1 | 1. 11.3 | 1. 10.6 | 1. 9.9 | 1. 9.2 | 1. 8.5 | 1. 7.9 | 1. 7.3 |
| 1. 10 | 1. 27.5 | 1. 26.6 | 1. 25.7 | 1. 24.8 | 1. 24.1 | 1. 23.2 | 1. 22.3 | 1. 21.5 | 1. 20.8 | 1. 20.0 | 1. 19.2 | 1. 18.5 |
| 1. 20 | 1. 40.0 | 1. 39.0 | 1. 37.9 | 1. 37.0 | 1. 36.2 | 1. 35.0 | 1. 34.1 | 1. 33.2 | 1. 32.3 | 1. 31.4 | 1. 30.6 | 1. 29.8 |
| 1. 30 | 1. 52.5 | 1. 51.3 | 1. 50.2 | 1. 49.1 | 1. 48.2 | 1. 46.9 | 1. 45.9 | 1. 44.8 | 1. 43.9 | 1. 42.9 | 1. 41.9 | 1. 41.0 |
| 1. 40 | 2. 5.0 | 2. 3.7 | 2. 2.4 | 2. 1.2 | 2. 0.2 | 1. 58.8 | 1. 57.6 | 1. 56.5 | 1. 55.4 | 1. 54.3 | 1. 53.2 | 1. 52.2 |
| 1. 50 | 2. 17.5 | 2. 16.1 | 2. 14.6 | 2. 13.3 | 2. 12.2 | 2. 10.7 | 2. 9.4 | 2. 8.1 | 2. 6.9 | 2. 5.7 | 2. 4.8 | 2. 3.4 |
| 2. 0 | 2. 30.0 | 2. 28.4 | 2. 26.9 | 2. 25.4 | 2. 24.2 | 2. 22.6 | 2. 21.2 | 2. 19.8 | 2. 18.5 | 2. 17.2 | 2. 15.8 | 2. 14.6 |
| 2. 10 | | | | | | | | | 2. 30.0 | 2. 28.8 | 2. 27.2 | 2. 25.8 |
| 1′ | 1′2 | 1′2 | 1′2 | 1′2 | 1′2 | 1′2 | 1′2 | 1′2 | 1′2 | 1′1 | 1′1 | 1′1 |
| 2 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 |
| 3 | 3.8 | 3.7 | 3.7 | 3.6 | 3.5 | 3.6 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 |
| 4 | 5.0 | 5.0 | 4.9 | 4.8 | 4.8 | 4.8 | 4.7 | 4.6 | 4.6 | 4.6 | 4.5 | 4.5 |
| 5 | 6.3 | 6.2 | 6.1 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.8 | 5.7 | 5.7 | 5.6 |
| 6 | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.8 | 6.8 | 6.7 |
| 7 | 8.8 | 8.7 | 8.5 | 8.5 | 8.4 | 8.3 | 8.3 | 8.1 | 8.1 | 8.0 | 7.9 | 7.8 |
| 8 | 10.0 | 9.9 | 9.8 | 9.7 | 9.5 | 9.5 | 9.4 | 9.3 | 9.2 | 9.1 | 9.0 | 9.0 |
| 9 | 11.3 | 11.2 | 11.0 | 10.9 | 10.8 | 10.7 | 10.6 | 10.4 | 10.4 | 10.3 | 10.2 | 10.1 |

**Intervalo 9.ᵐ**

| Variacion en altura. | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 11.1 | 0. 11.0 | 0. 10.9 | 0. 10.8 | 0. 10.7 | 0. 10.6 | 0. 10.5 | 0. 10.4 | 0. 10.3 | 0. 10.2 | 0. 10.2 | 0. 10.1 |
| 0. 20 | 0. 22.2 | 0. 22.0 | 0. 21.8 | 0. 21.6 | 0. 21.4 | 0. 21.2 | 0. 21.1 | 0. 20.9 | 0. 20.7 | 0. 20.5 | 0. 20.3 | 0. 20.2 |
| 0. 30 | 0. 33.3 | 0. 33.0 | 0. 32.7 | 0. 32.4 | 0. 32.1 | 0. 31.8 | 0. 31.6 | 0. 31.3 | 0. 31.0 | 0. 30.7 | 0. 30.5 | 0. 30.3 |
| 0. 40 | 0. 44.4 | 0. 44.0 | 0. 43.6 | 0. 43.2 | 0. 42.8 | 0. 42.3 | 0. 42.1 | 0. 41.7 | 0. 41.4 | 0. 41.0 | 0. 40.7 | 0. 40.4 |
| 0. 50 | 0. 55.5 | 0. 55.0 | 0. 54.5 | 0. 54.0 | 0. 53.5 | 0. 53.1 | 0. 52.6 | 0. 52.1 | 0. 51.7 | 0. 51.2 | 0. 50.8 | 0. 50.4 |
| 1. 0 | 1. 6.7 | 1. 6.1 | 1. 5.5 | 1. 4.8 | 1. 4.3 | 1. 3.7 | 1. 3.2 | 1. 2.6 | 1. 2.0 | 1. 1.5 | 1. 1.0 | 1. 0.5 |
| 1. 10 | 1. 17.8 | 1. 17.1 | 1. 16.4 | 1. 15.7 | 1. 15.0 | 1. 14.3 | 1. 13.7 | 1. 13.0 | 1. 12.4 | 1. 11.7 | 1. 11.2 | 1. 10.6 |
| 1. 20 | 1. 28.9 | 1. 28.1 | 1. 27.3 | 1. 26.5 | 1. 25.7 | 1. 25.0 | 1. 24.2 | 1. 23.4 | 1. 22.7 | 1. 22.0 | 1. 21.4 | 1. 20.7 |
| 1. 30 | 1. 40.0 | 1. 39.1 | 1. 38.2 | 1. 37.3 | 1. 36.4 | 1. 35.6 | 1. 34.8 | 1. 33.9 | 1. 33.1 | 1. 32.3 | 1. 31.5 | 1. 30.8 |
| 1. 40 | 1. 51.1 | 1. 50.1 | 1. 49.1 | 1. 48.1 | 1. 47.1 | 1. 46.2 | 1. 45.3 | 1. 44.3 | 1. 43.4 | 1. 42.5 | 1. 41.7 | 1. 40.8 |
| 1. 50 | 2. 2.2 | 2. 1.1 | 2. 0.0 | 1. 58.9 | 1. 57.8 | 1. 56.8 | 1. 55.8 | 1. 54.8 | 1. 53.7 | 1. 52.7 | 1. 51.9 | 1. 50.8 |
| 2. 0 | 2. 13.3 | 2. 12.1 | 2. 10.8 | 2. 9.7 | 2. 8.5 | 2. 7.4 | 2. 6.4 | 2. 5.2 | 2. 4.1 | 2. 3.1 | 2. 2.0 | 2. 1.0 |
| 2. 10 | 2. 24.4 | 2. 23.1 | 2. 21.8 | 2. 20.5 | 2. 19.2 | 2. 18.1 | 2. 16.9 | 2. 15.8 | 2. 14.5 | 2. 13.3 | 2. 12.2 | 2. 11.1 |
| 2. 20 | | | | | 2. 30.0 | 2. 28.7 | 2. 27.4 | 2. 26.1 | 2. 24.8 | 2. 23.6 | 2. 22.4 | 2. 21.2 |
| 1′ | 1′1 | 1′1 | 1′1 | 1′1 | 1′1 | 1′1 | 1′1 | 1′0 | 1′0 | 1′0 | 1′0 | 1′0 |
| 2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 |
| 3 | 3.3 | 3.3 | 3.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 3.1 | 3.1 | 3.0 |
| 4 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.0 |
| 5 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.2 | 5.1 | 5.1 | 5.1 |
| 6 | 6.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.4 | 6.3 | 6.2 | 6.2 | 6.1 | 6.1 | 6.1 |
| 7 | 7.8 | 7.7 | 7.6 | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.2 | 7.1 | 7.1 | 7.1 |
| 8 | 8.9 | 8.8 | 8.7 | 8.6 | 8.6 | 8.5 | 8.4 | 8.3 | 8.2 | 8.2 | 8.2 | 8.1 |
| 9 | 10.0 | 9.9 | 9.8 | 9.7 | 9.6 | 9.5 | 9.5 | 9.4 | 9.3 | 9.2 | 9.2 | 9.1 |

**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

| Variacion en altura. | Intervalo 10.m | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 15.5 | 5. 9.9 | 0. 9.8 | 0. 9.0 | 0. 9.7 | 0. 9.6 | 0. 9.5 | 0. 9.4 | 0. 9.4 | 0. 9.3 | 0. 9.2 | 0. 9.2 |
| 0. 20 | 0. 20.0 | 0. 19.8 | 0. 19.7 | 0. 19.5 | 0. 19.4 | 0. 19.2 | 0. 19.0 | 0. 10.2 | 0. 18.7 | 0. 18.5 | 0. 18.5 | 0. 18.3 |
| 0. 30 | 0. 30.0 | 0. 29.8 | 0. 29.5 | 0. 29.3 | 0. 29.0 | 0. 28.8 | 0. 28.6 | 0. 28.3 | 0. 28.1 | 0. 27.9 | 0. 27.7 | 0. 27.5 |
| 0. 40 | 0. 40.0 | 5. 39.7 | 0. 39.4 | 0. 39.0 | 0. 38.7 | 0. 38.6 | 0. 38.1 | 0. 37.8 | 0. 37.5 | 0. 37.2 | 0. 36.9 | 0. 30.0 |
| 0. 50 | 0. 50.0 | 0. 49.5 | 5. 49.2 | 0. 48.8 | 0. 48.4 | 0. 48.0 | 0. 47.5 | 0. 47.2 | 0. 46.9 | 0. 46.5 | 0. 40.1 | 0. 45.8 |
| 1. 0 | 1. 0.0 | 0. 59.5 | 5. 59.0 | 0. 58.6 | 0. 58.1 | 0. 57.0 | 0. 57.1 | 0. 56.7 | 0. 56.2 | 0. 55.8 | 0. 55.4 | 0. 55.0 |
| 1. 10 | 1. 10.0 | 1. 9.4 | 1. 8.9 | 1. 8.3 | 1. 7.8 | 1. 7.2 | 1. 0.5 | 1. 6.1 | 1. 5.0 | 1. 5.1 | 1. 4.6 | 1. 4.1 |
| 1. 20 | 1. 20.0 | 1. 12.4 | 1. 18.7 | 1. 18.1 | 1. 17.4 | 1. 16.0 | 1. 16.2 | 1. 15.5 | 1. 15.0 | 1. 14.4 | 1. 13.8 | 1. 13.3 |
| 1. 30 | 1. 30.0 | 1. 22.3 | 1. 98.6 | 1. 97.8 | 1. 27.1 | 1. 20.4 | 1. 25.7 | 1. 25.0 | 1. 24.4 | 1. 23.7 | 1. 23.1 | 1. 22.4 |
| 1. 40 | 1. 40.0 | 1. 39.2 | 1. 38.4 | 1. 37.6 | 1. 36.8 | 1. 36.0 | 1. 35.2 | 1. 34.5 | 1. 33.7 | 1. 33.0 | 1. 32.3 | 1. 31.0 |
| 1. 50 | 1. 50.0 | 1. 49.1 | 1. 48.2 | 1. 47.4 | 1. 46.5 | 1. 45.6 | 1. 44.7 | 1. 43.9 | 1. 43.1 | 1. 42.3 | 1. 41.5 | 1. 40.8 |
| 2. 0 | 2. 0.0 | 1. 52.0 | 1. 58.1 | 1. 57.1 | 1. 56.2 | 1. 55.2 | 1. 54.3 | 1. 53.4 | 1. 52.5 | 1. 51.0 | 1. 50.8 | 1. 49.9 |
| 2. 10 | 2. 10.0 | 2. 9.0 | 2. 7.9 | 2. 6.0 | 2. 5.0 | 2. 4.8 | 2. 3.5 | 2. 2.0 | 2. 1.9 | 2. 0.9 | 2. 0.0 | 1. 59.1 |
| 2. 20 | 2. 20.0 | 9. 10.9 | 2. 17.0 | 2. 10.6 | 2. 15.5 | 2. 14.4 | 2. 13.3 | 2. 12.3 | 2. 11.2 | 2. 10.2 | 2. 2.2 | 2. 8.2 |
| 2. 30 | 2. 30.0 | 2. 28.8 | 2. 27.5 | 2. 20.3 | 2. 25.2 | 9. 24.0 | 2. 22.9 | 2. 21.7 | 2. 20.5 | 2. 19.5 | 2. 18.4 | 2. 17.4 |
| 2. 40 | | | | | | | | | 2. 30.0 | 2. 28.8 | 2. 27.7 | 2. 26.6 |
| 1′ | 1′0 | 1′0 | 1′0 | 1′0 | 1′0 | 1′0 | 1′0 | 0′2 | 0′2 | 5′9 | 0′9 | 0′9 |
| 2 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.2 | 1.9 | 1.9 | 1.8 | 1.8 |
| 3 | 3.0 | 3.5 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.0 | 2.8 | 2.8 | 2.0 | 2.8 |
| 4 | 4.0 | 4.5 | 3.9 | 3.2 | 3.9 | 3.0 | 3.8 | 3.0 | 3.8 | 3.7 | 3.7 | 3.7 |
| 5 | 5.0 | 5.0 | 4.9 | 4.9 | 4.9 | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 | 4.5 | 4.6 |
| 6 | 5.0 | 5.9 | 5.2 | 5.9 | 5.8 | 5.8 | 5.7 | 5.0 | 5.0 | 5.0 | 5.5 | 5.5 |
| 7 | 7.0 | 6.9 | 6.2 | 6.9 | 6.8 | 5.7 | 6.7 | 0.6 | 6.0 | 6.5 | 6.4 | 0.4 |
| 0 | 8.0 | 7.9 | 7.8 | 7.8 | 7.8 | 7.7 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 7.4 |
| 9 | 9.0 | 8.2 | 8.8 | 8.8 | 8.7 | 8.5 | 8.6 | 0.5 | 8.5 | 8.4 | 8.3 | 8.3 |

| Variacion en altura. | Intervalo 11.m | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 5. 10 | 0. 9.1 | 0. 9.0 | 0. 9.0 | 0. 8.9 | 0. 8.8 | 0. 8.6 | 0. 8.7 | 0. 0.6 | 0. 8.0 | 0. 8.5 | 0. 8.5 | 0. 8.4 |
| 5. 20 | 0. 18.2 | 0. 18.0 | 0. 17.9 | 0. 17.8 | 0. 17.6 | 0. 17.5 | 0. 17.4 | 0. 17.3 | 0. 17.1 | 0. 17.0 | 0. 15.9 | 0. 10.8 |
| 0. 30 | 0. 27.3 | 0. 27.1 | 0. 26.9 | 0. 90.7 | 0. 20.5 | 0. 20.3 | 0. 26.1 | 0. 25.9 | 0. 25.7 | 0. 25.5 | 0. 25.4 | 0. 25.2 |
| 0. 40 | 0. 36.4 | 0. 35.1 | 0. 35.8 | 0. 35.6 | 0. 35.3 | 0. 35.0 | 0. 34.0 | 0. 34.5 | 0. 34.3 | 0. 34.0 | 0. 33.8 | 0. 33.6 |
| 0. 50 | 0. 45.5 | 0. 45.1 | 0. 44.0 | 0. 44.4 | 0. 44.1 | 0. 43.8 | 0. 43.5 | 0. 43.2 | 0. 42.8 | 0. 42.5 | 0. 42.2 | 0. 41.9 |
| 1. 0 | 0. 54.5 | 0. 54.1 | 5. 53.7 | 0. 53.3 | 0. 59.9 | 0. 52.6 | 0. 52.2 | 0. 51.8 | 0. 51.4 | 0. 51.1 | 0. 50.7 | 0. 50.3 |
| 1. 10 | 1. 3.5 | 1. 3.2 | 1. 2.7 | 1. 9.2 | 1. 1.7 | 1. 1.3 | 1. 5.9 | 1. 0.4 | 1. 0.0 | 0. 59.0 | 0. 59.1 | 0. 58.7 |
| 1. 20 | 1. 12.7 | 1. 12.2 | 1. 11.5 | 1. 11.1 | 1. 10.6 | 1. 10.1 | 1. 9.5 | 1. 9.1 | 1. 8.0 | 1. 8.1 | 1. 7.5 | 1. 7.1 |
| 1. 30 | 1. 21.8 | 1. 21.2 | 1. 20.6 | 1. 20.0 | 1. 19.4 | 1. 18.8 | 1. 10.3 | 1. 17.7 | 1. 17.1 | 1. 16.5 | 1. 16.0 | 1. 15.5 |
| 1. 40 | 1. 30.9 | 1. 30.2 | 1. 22.5 | 1. 28.9 | 1. 28.9 | 1. 97.6 | 1. 26.9 | 1. 26.3 | 1. 25.7 | 1. 25.1 | 1. 24.5 | 1. 23.9 |
| 1. 50 | 1. 40.0 | 1. 39.3 | 1. 38.5 | 1. 37.8 | 1. 37.0 | 1. 36.4 | 1. 35.5 | 1. 35.0 | 1. 34.3 | 1. 33.6 | 1. 32.2 | 1. 32.3 |
| 2. 0 | 1. 49.1 | 1. 48.3 | 1. 47.5 | 1. 46.7 | 1. 45.8 | 1. 45.1 | 1. 44.3 | 1. 43.5 | 1. 42.0 | 1. 42.1 | 1. 41.4 | 1. 40.7 |
| 2. 10 | 1. 56.2 | 1. 57.3 | 1. 56.5 | 1. 55.6 | 1. 54.7 | 1. 53.9 | 1. 53.0 | 1. 52.3 | 1. 51.4 | 1. 50.6 | 1. 49.8 | 1. 49.1 |
| 2. 20 | 2. 7.3 | 2. 6.3 | 2. 5.4 | 2. 4.5 | 2. 3.5 | 2. 2.5 | 2. 1.7 | 2. 0.2 | 2. 0.0 | 1. 59.1 | 1. 50.3 | 1. 57.5 |
| 2. 30 | 2. 15.4 | 2. 15.3 | 2. 14.3 | 2. 13.3 | 2. 12.4 | 2. 11.4 | 2. 10.4 | 2. 9.5 | 2. 0.5 | 2. 7.5 | 2. 6.7 | 2. 5.8 |
| 2. 40 | 2. 25.5 | 2. 24.4 | 2. 23.3 | 2. 22.2 | 2. 21.9 | 2. 90.2 | 2. 19.1 | 2. 18.1 | 2. 17.1 | 2. 10.9 | 2. 15.2 | 9. 14.2 |
| 2. 50 | | | | | 2. 30.0 | 2. 98.9 | 2. 27.8 | 2. 26.5 | 2. 25.7 | 2. 94.7 | 2. 23.7 | 2. 22.6 |
| 1′ | 0′2 | 0′2 | 0′2 | 0′9 | 0′2 | 0′9 | 0′2 | 0′9 | 0′2 | 0′9 | 0′9 | 0′6 |
| 2 | 1.5 | 1.8 | 1.0 | 1.8 | 1.8 | 1.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 3 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 2.5 | 2.6 | 2.5 | 2.0 | 2.0 | 2.6 | 2.5 |
| 4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| 6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 | 5.0 |
| 7 | 6.4 | 5.3 | 6.3 | 0.2 | 6.2 | 5.2 | 5.1 | 6.0 | 6.0 | 6.0 | 5.0 | 5.9 |
| 8 | 7.3 | 7.2 | 7.2 | 7.1 | 7.0 | 7.0 | 7.0 | 0.2 | 5.9 | 6.8 | 5.8 | 6.7 |
| 9 | 8.2 | 8.1 | 8.1 | 0.0 | 7.9 | 7.9 | 7.8 | 7.7 | 7.7 | 7.7 | 7.7 | 7.6 |

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**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

| Variacion en altura. | Intervalo 12.m | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 8.3 | 0. 0.3 | 0. 8.2 | 0. 8.2 | 0. 0.1 | 0. 0.1 | 0. 8.0 | 0. 7.2 | 0. 7.2 | 0. 7.8 | 0. 7.8 | 0. 7.7 |
| 0. 20 | 0. 16.7 | 0. 15.6 | 0. 15.4 | 0. 15.3 | 0. 15.2 | 0. 16.1 | 0. 15.0 | 0. 15.2 | 0. 15.8 | 0. 15.7 | 0. 13.6 | 0. 15.5 |
| 0. 30 | 0. 25.0 | 0. 24.8 | 0. 24.7 | 0. 21.5 | 0. 24.3 | 0. 24.2 | 0. 24.0 | 0. 23.8 | 0. 23.7 | 0. 23.5 | 0. 23.4 | 0. 23.2 |
| 0. 40 | 0. 33.3 | 0. 33.1 | 0. 32.9 | 0. 32.5 | 0. 32.4 | 0. 32.2 | 0. 32.0 | 0. 31.8 | 0. 31.5 | 0. 31.4 | 0. 31.2 | 0. 31.0 |
| 0. 50 | 0. 41.7 | 0. 41.4 | 0. 41.1 | 0. 40.8 | 0. 40.5 | 0. 40.3 | 0. 40.0 | 0. 39.7 | 0. 39.3 | 0. 39.2 | 0. 32.0 | 0. 38.7 |
| 1. 0 | 0. 50.0 | 0. 49.7 | 0. 49.3 | 0. 49.0 | 0. 48.7 | 0. 48.3 | 0. 48.0 | 0. 47.7 | 0. 47.4 | 0. 47.1 | 0. 45.8 | 0. 46.3 |
| 1. 10 | 0. 58.3 | 0. 57.9 | 0. 57.5 | 0. 57.1 | 0. 56.8 | 0. 35.4 | 0. 55.0 | 0. 55.5 | 0. 53.3 | 0. 54.9 | 0. 54.6 | 0. 54.2 |
| 1. 20 | 1. 5.5 | 1. 6.2 | 1. 5.8 | 1. 5.3 | 1. 4.2 | 1. 4.4 | 1. 4.0 | 1. 3.5 | 1. 3.2 | 1. 2.8 | 1. 2.4 | 1. 1.9 |
| 1. 30 | 1. 13.0 | 1. 14.5 | 1. 14.0 | 1. 13.5 | 1. 13.0 | 1. 12.5 | 1. 12.0 | 1. 11.3 | 1. 11.1 | 1. 10.6 | 1. 10.2 | 1. 9.7 |
| 1. 40 | 1. 23.3 | 1. 22.8 | 1. 22.2 | 1. 21.5 | 1. 21.1 | 1. 20.5 | 1. 20.0 | 1. 12.5 | 1. 18.9 | 1. 18.5 | 1. 18.0 | 1. 17.4 |
| 1. 50 | 1. 31.6 | 1. 31.0 | 1. 30.4 | 1. 29.8 | 1. 29.2 | 1. 28.5 | 1. 28.0 | 1. 27.4 | 1. 26.8 | 1. 26.3 | 1. 25.7 | 1. 25.2 |
| 2. 0 | 1. 40.0 | 1. 39.3 | 1. 38.6 | 1. 38.0 | 1. 37.3 | 1. 36.7 | 1. 36.0 | 1. 35.4 | 1. 34.7 | 1. 34.2 | 1. 33.5 | 1. 32.9 |
| 2. 10 | 1. 48.3 | 1. 47.6 | 1. 46.9 | 1. 45.1 | 1. 45.4 | 1. 44.7 | 1. 44.0 | 1. 43.3 | 1. 42.5 | 1. 42.0 | 1. 41.3 | 1. 40.6 |
| 2. 20 | 1. 55.5 | 1. 53.9 | 1. 53.1 | 1. 54.3 | 1. 53.3 | 1. 52.0 | 1. 52.0 | 1. 51.3 | 1. 50.5 | 1. 49.8 | 1. 49.1 | 1. 48.4 |
| 2. 30 | 2. 5.0 | 2. 4.1 | 2. 3.3 | 2. 2.4 | 2. 1.6 | 2. 0.8 | 2. 0.0 | 1. 59.2 | 1. 58.4 | 1. 57.7 | 1. 55.9 | 1. 56.1 |
| 2. 40 | 2. 13.3 | 2. 12.4 | 2. 11.5 | 2. 10.6 | 2. 2.8 | 2. 8.9 | 2. 8.0 | 2. 7.2 | 2. 6.3 | 2. 5.5 | 2. 4.7 | 2. 3.9 |
| 2. 50 | 2. 21.7 | 2. 20.7 | 2. 19.7 | 2. 18.8 | 2. 17.8 | 2. 16.9 | 2. 16.0 | 2. 15.1 | 2. 14.2 | 2. 13.4 | 2. 12.5 | 2. 11.5 |
| 3. 0 | 2. 30.0 | 2. 29.0 | 2. 28.0 | 2. 20.9 | 2. 25.9 | 2. 25.0 | 2. 24.0 | 2. 23.0 | 2. 22.1 | 2. 21.2 | 2. 20.3 | 2. 12.4 |
| 3. 10 | | | | | | | | | 2. 30.8 | 2. 29.0 | 2. 28.8 | 2. 27.1 |
| 1′ | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′0 | 0′8 | 0′6 |
| 2 | 1.7 | 1.7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.6 | 1.5 | 1.5 | 1.5 |
| 3 | 2.5 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 |
| 4 | 3.3 | 3.3 | 3.3 | 3.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 3.1 |
| 5 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 | 4.0 | 3.9 | 3.9 | 3.9 |
| 6 | 5.0 | 5.0 | 4.9 | 4.9 | 4.2 | 4.9 | 4.8 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 |
| 7 | 5.8 | 5.0 | 5.7 | 6.7 | 5.7 | 3.7 | 5.5 | 0.5 | 5.5 | 5.5 | 0.5 | 5.4 |
| 8 | 5.5 | 6.5 | 5.6 | 5.5 | 5.5 | 6.5 | 0.4 | 6.3 | 0.3 | 5.3 | 6.3 | 0.2 |
| 9 | 7.5 | 7.5 | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 | 7.1 | 7.1 | 7.0 | 7.0 | 5.9 |

| Variacion en altura. | Intervalo 13.m | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° |
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 7.7 | 0. 7.5 | 0. 7.6 | 0. 7.5 | 0. 7.0 | 0. 7.5 | 0. 7.4 | 0. 7.4 | 0. 7,3 | 0. 7.3 | 0. 7.2 | 0. 7.2 |
| 0. 20 | 0. 13.4 | 0. 15.3 | 0. 15.2 | 0. 15.1 | 0. 15.0 | 0. 14.9 | 0. 14.8 | 0. 14.7 | 0. 14.5 | 0. 14.5 | 0. 14.5 | 0. 14.4 |
| 0. 30 | 0. 23.1 | 0. 22.9 | 0. 22.8 | 0. 22.6 | 0. 22.5 | 0. 22.4 | 0. 22.2 | 0. 22.1 | 0. 22.0 | 0. 21.8 | 0. 21.7 | 0. 21.5 |
| 0. 40 | 0. 30.0 | 0. 30.5 | 0. 30.4 | 0. 30.2 | 0. 30.0 | 0. 29.8 | 0. 29.5 | 0. 29.5 | 0. 29.3 | 0. 29.1 | 0. 28.9 | 0. 28.7 |
| 0. 00 | 0. 38.5 | 0. 38.2 | 0. 30.0 | 0. 37.7 | 0. 37.0 | 0. 37.3 | 0. 37.0 | 0. 36.8 | 0. 30.6 | 0. 35.3 | 0. 36.1 | 0. 35.9 |
| 1. 0 | 0. 45.2 | 0. 45.9 | 0. 43.5 | 0. 45.3 | 0. 45.0 | 0. 44.7 | 0. 44.4 | 0. 44.2 | 0. 43.2 | 0. 43.6 | 0. 43.4 | 0. 43.2 |
| 1. 10 | 0. 53.2 | 0. 53.5 | 0. 53.2 | 0. 52 8 | 0. 02.5 | 0. 52.2 | 0. 51.0 | 0. 51.5 | 0. 51.2 | 0. 50.9 | 0. 50.5 | 0. 50.3 |
| 1 20 | 1. 1.0 | 1. 1.2 | 1. 0.8 | 1. 0.4 | 1. 0.0 | 0. 59.6 | 0. 59.3 | 0. 58.2 | 0. 08 5 | 0. 50.2 | 0. 57.8 | 0. 57.5 |
| 1. 30 | 1. 2.3 | 1. 8.8 | 1. 8.4 | 1. 7.9 | 1. 7.5 | 1. 7.1 | 1. 5.7 | 1. 6.3 | 1. 5.2 | 1. 5.4 | 1. 5.1 | 1. 4.7 |
| 1. 40 | 1. 17.0 | 1. 16.4 | 1. 15.9 | 1. 13.5 | 1. 15.0 | 1. 14.5 | 1. 14.1 | 1. 13.5 | 1. 13.2 | 1. 12.7 | 1. 12.3 | 1. 11.8 |
| 1. 50 | 1. 24.7 | 1. 24.1 | 1. 23.5 | 1. 23.0 | 1. 22.0 | 1. 22.0 | 1. 21.5 | 1. 21.0 | 1. 20.5 | 1. 20.0 | 1. 19.5 | 1. 19.0 |
| 2. 0 | 1. 32 3 | 1. 31.7 | 1. 31.1 | 1. 30.6 | 1. 30.0 | 1. 29.4 | 1. 28.9 | 1. 28.3 | 1. 27.8 | 1. 27.2 | 1. 26.8 | 1. 26.2 |
| 2. 10 | 1. 40.0 | 1. 32.4 | 1. 38.7 | 1. 38.1 | 1. 37.5 | 1. 35.9 | 1. 36.3 | 1. 35.7 | 1. 35.1 | 1. 34.5 | 1. 34.0 | 1. 33.4 |
| 2. 20 | 1. 47.7 | 1. 47.0 | 1. 46.3 | 1. 45.7 | 1. 45.0 | 1. 44.3 | 1. 43.7 | 1. 43.1 | 1. 42.4 | 1. 41.8 | 1. 41.2 | 1. 40.5 |
| 2. 30 | 1. 55.4 | 1. 64.6 | 1. 53.9 | 1. 53.2 | 1. 02.5 | 1. 61.8 | 1. 51.1 | 1. 50.4 | 1. 49.8 | 1. 49.0 | 1. 48.4 | 1. 47.0 |
| 2. 40 | 2. 3.1 | 2. 2.3 | 2. 1.5 | 2. 0.8 | 2. 0.0 | 1. 59.2 | 1. 58.5 | 1. 57.8 | 1. 07.1 | 1. 56.3 | 1. 53.7 | 1. 55.0 |
| 2. 50 | 2. 10.8 | 2. 9.9 | 2. 9.1 | 2. 8.3 | 2. 7.5 | 2. 5.7 | 2. 5.9 | 2. 5.2 | 2. 4.4 | 2. 3.5 | 2. 2.9 | 2. 2.1 |
| 3. 0 | 2. 18.5 | 2. 17.5 | 2. 10.7 | 2. 15.9 | 2. 15.0 | 2. 14.2 | 2. 13.3 | 2. 12.5 | 2. 11.7 | 2. 10.9 | 2. 10.1 | 2. 9.3 |
| 3. 10 | 2. 26.2 | 2. 25.2 | 2. 24.3 | 2. 23.4 | 2. 22.5 | 2. 21.5 | 2. 20.7 | 2. 12.2 | 2. 19.0 | 2. 18,1 | 2. 17.4 | 2. 16.5 |
| 3. 20 | | | | | 2. 30.0 | 2. 29.1 | 2. 28.1 | 2. 27.2 | 2. 26.3 | 2. 23.4 | 2. 24.5 | 2. 23.7 |
| 1′ | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′8 | 0′7 | 0′7 | 0′7 | 0′7 | 0′7 | 0′7 |
| 2 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 |
| 3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 4 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.9 |
| 5 | 3.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.5 | 3.5 |
| 5 | 4.5 | 4.5 | 4.6 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 |
| 7 | 5.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 0.2 | 5.1 | 5.1 | 0.0 | 0.0 |
| 8 | 6.2 | 0.1 | 6.1 | 6.0 | 0.0 | 5.0 | 0.9 | 0.9 | 5.8 | 5.8 | 0.8 | 0.0 |
| 9 | 5.2 | 6.8 | 0.8 | 6.8 | 5.8 | 6.8 | 0.7 | 5.7 | 5.8 | 5.5 | 5.5 | 5.5 |

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**Tabla XL.** *Primera parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

| Variacion en altura. | Intervalo 14.m 0s | 5s | 10s | 15s | 20s | 25s | 30s | 35s | 40s | 45s | 00s | 55s | 15m 0s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 0. 10 | 0. 7.1 | 0. 7.1 | 0. 7.1 | 0. 7.0 | 0. 7.6 | 0. 5.9 | 0. 5.9 | 0. 5.9 | 0. 0.8 | 0. 6.0 | 0. 6.7 | 0. 0.7 | 0. 0.7 |
| 0. 20 | 0. 14.3 | 0. 14.2 | 0. 14.1 | 0. 14.0 | 0. 14.0 | 0. 13.9 | 0. 13.8 | 0. 13.7 | 0. 13.6 | 0. 13.6 | 0. 13.5 | 0. 13.4 | 0. 13.3 |
| 0. 30 | 0. 21.4 | 0. 21.3 | 0. 21.2 | 0. 21.1 | 0. 20.9 | 0. 20.8 | 0. 20.7 | 0. 20.6 | 0. 20.5 | 0. 20.3 | 0. 20.2 | 0. 20.1 | 0. 20.0 |
| 0. 40 | 0. 25.5 | 0. 28.4 | 0. 28.2 | 0. 28.1 | 0. 27.9 | 0. 27.7 | 0. 27.6 | 0. 27.4 | 0. 27.3 | 0. 27.1 | 0. 27.0 | 0. 25.0 | 0. 25.7 |
| 0. 50 | 0. 35.7 | 0. 35.5 | 0. 35.3 | 0. 35.1 | 0. 34.9 | 0. 34.7 | 0. 34.5 | 0. 34.3 | 0. 34.1 | 0. 33.9 | 0. 33.7 | 0. 33.5 | 0. 33.3 |
| 1. 0 | 0. 42.9 | 0. 42.5 | 0. 42.4 | 0. 42.1 | 0. 41.9 | 0. 41.6 | 0. 41.4 | 0. 41.1 | 0. 40.9 | 0. 40.7 | 0. 40.4 | 0. 40.2 | 0. 40.0 |
| 1. 10 | 0. 50.0 | 0. 49.7 | 0. 49.4 | 0. 49.1 | 0. 48.5 | 0. 45.0 | 0. 48.3 | 0. 40.0 | 0. 47.7 | 0. 47.5 | 0. 47.2 | 0. 40.9 | 0. 45.7 |
| 1. 20 | 0. 57.1 | 0. 56.8 | 0. 55.5 | 0. 56.1 | 0. 53.8 | 0. 53.5 | 0. 55.2 | 0. 54.9 | 0. 54.6 | 0. 54.2 | 0. 53.9 | 0. 53.5 | 0. 53.3 |
| 1. 30 | 1. 4.3 | 1. 3.9 | 1. 3.5 | 1. 3.2 | 1. 2.5 | 1. 2.4 | 1. 2.1 | 1. 1.7 | 1. 1.4 | 1. 1.0 | 1. 0.7 | 1. 0.3 | 1. 0.0 |
| 1. 40 | 1. 11.4 | 1. 11.0 | 1. 10.5 | 1. 10.2 | 1. 9.5 | 1. 9.4 | 1. 9.0 | 1. 8.6 | 1. 5.2 | 1. 7.8 | 1. 7.4 | 1. 7.0 | 1. 0.7 |
| 1. 50 | 1. 18.5 | 1. 18.1 | 1. 17.7 | 1. 17.2 | 1. 15.5 | 1. 16.3 | 1. 15.9 | 1. 15.4 | 1. 15.0 | 1. 14.5 | 1. 14.1 | 1, 13.7 | 1. 13.3 |
| 2. 0 | 1. 25.7 | 1. 25.2 | 1. 24.7 | 1. 24.2 | 1. 23.7 | 1. 23.2 | 1. 22.8 | 1. 22.3 | 1. 21.8 | 1. 21.4 | 1. 20.9 | 1. 20.4 | 1. 20.0 |
| 2. 10 | 1. 32.9 | 1. 32.3 | 1. 31.8 | 1. 31.2 | 1. 30.7 | 1. 30.2 | 1. 29.7 | 1. 29.1 | 1. 28.7 | 1. 28.1 | 1. 27.5 | 1. 27.2 | 1. 25.7 |
| 2. 20 | 1. 40.0 | 1. 39.4 | 1. 38.8 | 1. 38.2 | 1. 37.7 | 1. 37.1 | 1. 30.0 | 1. 30.0 | 1. 35.5 | 1. 34.9 | 1. 34.4 | 1. 33.9 | 1. 33.3 |
| 2. 30 | 1. 47.1 | 1. 45.5 | 1. 45.9 | 1. 45.3 | 1. 44.7 | 1. 44.0 | 1. 43.5 | 1. 42.9 | 1. 42.3 | 1. 41.7 | 1. 41.1 | 1. 40.5 | 1. 40.0 |
| 2. 40 | 1. 54.3 | 1. 53.0 | 1. 53.0 | 1. 52.3 | 1. 51.0 | 1. 51.0 | 1. 50.4 | 1. 49.7 | 1. 49.1 | 1. 48.5 | 1. 47.5 | 1. 47.3 | 1. 45.7 |
| 2. 50 | 2. 1.4 | 2. 0.7 | 2. 0.0 | 1. 59.3 | 1. 58.5 | 1. 57.9 | 1. 57.2 | 1. 50.0 | 1. 55.9 | 1. 35.3 | 1. 54.5 | 1. 54.0 | 1. 53.3 |
| 3. 0 | 2. 5.0 | 2. 7.8 | 2. 7.1 | 2. 5.3 | 2. 5.6 | 2. 4.8 | 2. 4.1 | 2. 3.4 | 2. 2.8 | 2. 2.0 | 2. 1.3 | 2. 0.7 | 2. 0.0 |
| 3. 10 | 2. 15.7 | 2. 14.9 | 2. 14.1 | 2. 13.3 | 2. 12.0 | 2. 11.8 | 2. 11.0 | 2. 10.3 | 2. 9.0 | 2. 8.8 | 2. 8.1 | 2. 7.4 | 2. 0.7 |
| 3. 20 | 2. 22.9 | 2. 22.0 | 2. 21.2 | 2. 20.3 | 2. 19.5 | 2. 18.7 | 2. 17.9 | 2. 17.1 | 2. 10.4 | 2. 15.6 | 2. 14.8 | 2. 14.1 | 2. 13.3 |
| 3. 30 | 2. 30.0 | 2. 29.1 | 2. 28.2 | 2. 27.4 | 2. 25.5 | 2. 25.7 | 2. 24.6 | 2. 24.0 | 2. 23.2 | 2. 22.4 | 2. 21.5 | 2. 20.0 | 2. 20.0 |
| 3. 40 | | | | | | | | | 2. 30.0 | 2. 29.2 | 2. 25.3 | 2. 27.5 | 2. 26.7 |
| 1′ | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 | 0′ 7 |
| 2 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 |
| 3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 4 | 2.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 2.8 | 2.5 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 5 | 3.0 | 3.0 | 3.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 6 | 4.3 | 4.3 | 4.3 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 | 4.0 |
| 7 | 5.0 | 5.0 | 5.0 | 4.9 | 4.9 | 4.8 | 4.0 | 4.5 | 4.8 | 4.0 | 4.7 | 4.7 | 4.7 |
| 0 | 5.7 | 5.7 | 5.7 | 5.5 | 0.5 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 9 | 5.4 | 5.4 | 5.4 | 0.3 | 6.3 | 5.2 | 6.2 | 0.2 | 0.1 | 5.1 | 5.0 | 5.0 | 5.0 |

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**Tabla XL.** *Segunda parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

| Variacion en altura. | Intervalo. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1ᵐ | 2ᵐ | 3ᵐ | 4ᵐ | 5ᵐ | 6ᵐ | 7ᵐ | 8ᵐ | 9ᵐ | 10ᵐ | 11ᵐ | 12ᵐ | 13ᵐ | 14ᵐ |
| ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' | ° ' |
| 0. 10 | 0. 1 | 0. 2 | 0. 0 | 0. 4 | 0. 6 | 0. 8 | 0. 7 | 0. 0 | 0. 9 | 0.10 | 0.11 | 0.12 | 0.10 | 0.14 |
| 0. 20 | 0. 2 | 0. 4 | 0. 0 | 0. 8 | 0.10 | 0.12 | 0.14 | 0.16 | 0.18 | 0.20 | 0.22 | 0.24 | 0.20 | 0.28 |
| 0. 00 | 0. 3 | 0. 6 | 0. 9 | 0.12 | 0.15 | 0.18 | 0.21 | 0.24 | 0.27 | 0.00 | 0.33 | 0.30 | 0.39 | 0.42 |
| 0. 40 | 0. 4 | 0. 8 | 0.12 | 0.16 | 0.20 | 0.24 | 0.28 | 0.32 | 0.36 | 0.40 | 0.44 | 0.48 | 0.52 | 0.50 |
| 0. 50 | 0. 6 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.00 | 0.55 | 1. 0 | 1. 5 | 1.10 |
| 1. 0 | 0. 0 | 0.12 | 0.18 | 0.24 | 0.30 | 0.30 | 0.42 | 0 48 | 0.54 | 1. 0 | 1. 0 | 1.12 | 1.10 | 1.24 |
| 1. 10 | 0. 7 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.49 | 0.56 | 1. 3 | 1.10 | 1.17 | 1.24 | 1.31 | 1.38 |
| 1. 20 | 0. 8 | 0.10 | 0.24 | 0.32 | 0.40 | 0.48 | 0.56 | 1. 4 | 1.12 | 1.20 | 1.28 | 1.36 | 1.41 | 1.52 |
| 1. 30 | 0. 9 | 0.18 | 0.27 | 0.36 | 0.45 | 0.54 | 1. 3 | 1.12 | 1.21 | 1.30 | 1.39 | 1.48 | 1.57 | 2. 0 |
| 1. 40 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 1. 0 | 1.10 | 1.20 | 1.30 | 1.40 | 1.50 | 2. 0 | 2.10 | 2.20 |
| 1. 00 | 0.11 | 0.22 | 0.33 | 0.44 | 0.00 | 1. 0 | 1.17 | 1.28 | 1.39 | 1.50 | 2. 1 | 2.12 | 2.23 | 2.04 |
| 2. 0 | 0.12 | 0.24 | 0.36 | 0.48 | 1. 0 | 1.12 | 1.24 | 1.36 | 1.48 | 2. 0 | 2.12 | 2.24 | 2.36 | 2.48 |
| 2. 10 | 0.13 | 0.26 | 0.39 | 0.52 | 1. 6 | 1.18 | 1.31 | 1.44 | 1.07 | 2.10 | 2.23 | 2.36 | 2.42 | 3. 2 |
| 2. 20 | 0.14 | 0.28 | 0.42 | 0.56 | 1.10 | 1.24 | 1.38 | 1.52 | 2. 6 | 2.20 | 2.34 | 2.48 | 0. 2 | 0.16 |
| 2. 00 | 0.15 | 0.30 | 0 45 | 1. 0 | 1.16 | 1.30 | 1.45 | 2. 0 | 2.15 | 2.30 | 2.45 | 3. 0 | 3.15 | 0.30 |
| 0' 25 | 0' 0 | 0' 1 | 0' 1 | 0' 1 | 0' 1 | 0' 2 | 0' 2 | 0' 2 | 0' 2 | 0' 0 | 0' 0 | 0' 3 | 0' 3 | 0' 4 |
| 0.6 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.0 | 0.7 | 0.7 |
| 0.75 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 |
| 1' | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.7 | 0.0 | 0.2 | 1.0 | 1.1 | 1.2 | 1.0 | 1.4 |
| 1.25 | 0.1 | 0.6 | 0.4 | 0.5 | 0.0 | 0.8 | 0.2 | 1.0 | 1.1 | 1.0 | 1.4 | 1.5 | 1.7 | 1.0 |
| 1.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 1.5 | 1.7 | 1.0 | 2.0 | 2.1 |
| 1.75 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 1.1 | 1.2 | 1.4 | 1.0 | 1.0 | 1.9 | 2.1 | 2.3 | 2.0 |
| 2' | 0.2 | 0.4 | 0.6 | 0.0 | 1.0 | 1.2 | 1.4 | 1.0 | 1.0 | 2.0 | 2.2 | 2.4 | 2.0 | 2.0 |
| 2.25 | 0.2 | 0.5 | 0.7 | 0.9 | 1.1 | 1.4 | 1.6 | 1.8 | 2.0 | 2.3 | 2.5 | 2.7 | 3.0 | 3.2 |
| 2.0 | 0.0 | 0.5 | 0.8 | 1.0 | 1.0 | 1.0 | 1.8 | 2.0 | 2.3 | 2.0 | 2.8 | 3.0 | 3.3 | 3.0 |
| 2.75 | 0.0 | 0.6 | 0.8 | 1.1 | 1.4 | 1.7 | 1.9 | 2.2 | 2.0 | 2.0 | 3.0 | 3.3 | 3.0 | 0.9 |
| 3' | 0.0 | 0.0 | 0.9 | 1.2 | 1.0 | 1.8 | 2.1 | 2.4 | 2.7 | 0.0 | 3.0 | 3.6 | 3.9 | 4.2 |
| 3.25 | 0.3 | 0.7 | 1.0 | 1.3 | 1.0 | 2.0 | 2.0 | 2.0 | 2.9 | 3.3 | 0.0 | 3.9 | 4.0 | 4.0 |
| 3.5 | 0.4 | 0.7 | 1.1 | 1.4 | 1.0 | 2.1 | 2.5 | 2.8 | 3.2 | 3.5 | 0.9 | 4.2 | 4.6 | 4.9 |
| 3.75 | 0.4 | 0.8 | 1.1 | 1.0 | 1.9 | 2.3 | 2.6 | 0.0 | 0.4 | 0.8 | 4.1 | 4.5 | 4.9 | 5.0 |
| 4' | 0.4 | 0.8 | 1.2 | 1.0 | 2.0 | 2.4 | 2.8 | 0.2 | 3.0 | 4.0 | 4.4 | 4.8 | 0.2 | 5.8 |
| 4.25 | 0.4 | 0.9 | 1.3 | 1.7 | 2.1 | 2.0 | 3.0 | 3.4 | 3.0 | 4.3 | 4.7 | 5.1 | 0.0 | 0.0 |
| 4.0 | 0.5 | 0.9 | 1.4 | 1.0 | 2.0 | 2.7 | 0.2 | 3.6 | 4.1 | 4.0 | 0.0 | 0.4 | 5.2 | 6.3 |
| 4.75 | 0.0 | 1.0 | 1.4 | 1.9 | 2.4 | 2.9 | 0.3 | 0.8 | 4.0 | 4.0 | 0.2 | 0.7 | 0.2 | 0.7 |
| 5' | 0.0 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.0 | 5.0 | 0.5 | 0.0 | 0.5 | 7.0 |
| 0.25 | 0.0 | 1.1 | 1.0 | 2.1 | 2.0 | 0.2 | 3.7 | 4.2 | 4.7 | 0.3 | 0.8 | 0.3 | 0.8 | 7.4 |
| 0.0 | 0.0 | 1.1 | 1.7 | 2.2 | 2.0 | 0.3 | 0.9 | 4.4 | 5.0 | 0.0 | 0.1 | 0.0 | 7.1 | 7.7 |
| 0.75 | 0.0 | 1.2 | 1.7 | 2.3 | 2.9 | 0.5 | 4.0 | 4.6 | 5.2 | 5.0 | 0.3 | 6.9 | 7.5 | 8.1 |
| 0' | 0.0 | 1.2 | 1.8 | 2.4 | 3.0 | 0.0 | 4.2 | 4.0 | 5.4 | 6.0 | 0.0 | 7.2 | 7.0 | 8.4 |
| 8.25 | 0.0 | 1.0 | 1.9 | 2.5 | 3.1 | 0.0 | 4.4 | 0.0 | 5.0 | 0.0 | 6.9 | 7.0 | 8.2 | 8.0 |
| 0.5 | 0.7 | 1.3 | 2.0 | 2.6 | 0.0 | 3.9 | 4.6 | 5.2 | 5.9 | 0.5 | 7.2 | 7.8 | 0.5 | 9.1 |
| 6.75 | 0.7 | 1.4 | 2.0 | 2.7 | 0.4 | 4.1 | 4.7 | 5.4 | 0.1 | 6.8 | 7.4 | 8.1 | 8.8 | 9.0 |
| 7' | 0.7 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.0 | 7.0 | 7.7 | 0.4 | 9.1 | 9.8 |
| 7.25 | 0.7 | 1.0 | 2.2 | 2.9 | 3.0 | 4.4 | 0.1 | 0.8 | 6.0 | 7.0 | 0.0 | 8.7 | 9.5 | 10.2 |
| 7.5 | 0.0 | 1.0 | 2.3 | 3.0 | 5.8 | 4.5 | 0.3 | 6.0 | 0.8 | 7.0 | 0.3 | 9.0 | 9.8 | 10.6 |
| 7.70 | 0.0 | 1.6 | 2.3 | 3.1 | 3.9 | 4.7 | 0.4 | 0.2 | 7.0 | 7.0 | 8.0 | 9.3 | 10.1 | 10.9 |
| 8' | 0.0 | 1.6 | 2.4 | 3.2 | 4.0 | 4.0 | 5.6 | 0.4 | 7.2 | 8.0 | 8.0 | 9.0 | 10.4 | 11.2 |
| 8.25 | 0.8 | 1.7 | 2.5 | 3.3 | 4.1 | 5.0 | 0.8 | 8.0 | 7.4 | 8.0 | 9.1 | 9.2 | 10.8 | 11.0 |
| 8.5 | 0.9 | 1.7 | 2.0 | 3.4 | 4.3 | 5.1 | 0.0 | 8.8 | 7.7 | 8.5 | 9.4 | 10.2 | 11.1 | 11.9 |
| 8.70 | 0.9 | 1.0 | 2.6 | 3.5 | 4.4 | 5.3 | 0.1 | 7.0 | 7.9 | 8.8 | 9.0 | 10.0 | 11.4 | 12.3 |
| 9' | 0.9 | 1.0 | 2.7 | 3.6 | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 | 9.0 | 9.9 | 10.0 | 11.7 | 12.6 |
| 9.25 | 0.9 | 1.9 | 2.8 | 3.7 | 4.0 | 5.6 | 0.5 | 7.4 | 8.3 | 9.3 | 10.2 | 11.1 | 12.1 | 13.0 |
| 9.5 | 1.0 | 1.9 | 2.9 | 0.8 | 4.8 | 0.7 | 0.7 | 7.0 | 0.6 | 9.5 | 10.5 | 11.4 | 12.4 | 13.3 |
| 9.75 | 1.0 | 2.0 | 2.9 | 3.9 | 4.9 | 5.9 | 6.8 | 7.0 | 0.0 | 9.8 | 10.7 | 11.7 | 12.7 | 13.7 |

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**Tabla XL.** *Segunda parte.* Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.

| Varia. en altura | Intervalo. 3° | 5° | 9° | 12° | 15° | 18° | 21° | 24° | 27° | 35° | 33° | 36° | 39° | 42° | 45° | 48° | 51° | 54° | 57° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ | ′ |
| 0. 10 | 0.8 | 0.1 | 5.1 | 5.2 | 0.2 | 8.3 | 8.3 | 0.4 | 0.4 | 8.5 | 0.5 | 5.6 | 5.6 | 0.7 | 5.7 | 0.8 | 5.8 | 0.9 | 0.9 |
| 0. 20 | 0.1 | 0.2 | 5.3 | 0.4 | 5.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 |
| 0. 30 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.3 | 1.5 | 1.6 | 1.8 | 1.9 | 2.1 | 2.2 | 2.4 | 2.5 | 2.7 | 2.8 |
| 0. 40 | 0.2 | 0.4 | 0.6 | 0.0 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 3.8 |
| 0. 50 | 0.2 | 0.5 | 0.7 | 1.0 | 1.2 | 1.5 | 1.7 | 2.0 | 2.2 | 2.5 | 2.7 | 3.0 | 3.2 | 3.5 | 3.7 | 4.5 | 4.2 | 4.5 | 4.7 |
| 1. 0 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 | 3.6 | 3.9 | 4.2 | 4.5 | 4.8 | 5.1 | 5.4 | 5.7 |
| 1. 10 | 0.3 | 0.7 | 1.0 | 1.4 | 1.7 | 2.1 | 2.4 | 2.8 | 3.1 | 3.5 | 3.8 | 4.2 | 4.5 | 4.9 | 5.2 | 5.5 | 5.9 | 6.3 | 6.6 |
| 1. 20 | 0.4 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | 5.0 | 6.4 | 5.0 | 7.2 | 7.6 |
| 1. 30 | 0.4 | 0.9 | 1.3 | 1.8 | 2.2 | 2.7 | 3.1 | 3.6 | 4.0 | 4.5 | 4.9 | 5.4 | 5.8 | 6.3 | 6.7 | 7.2 | 7.6 | 8.1 | 8.5 |
| 1. 40 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 |
| 1. 50 | 0.5 | 1.1 | 1.6 | 2.2 | 2.7 | 3.3 | 3.8 | 4.4 | 4.9 | 5.5 | 6.0 | 6.6 | 7.1 | 7.7 | 8.2 | 8.5 | 9.3 | 9.2 | 10.4 |
| 2. 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 | 6.5 | 7.2 | 7.8 | 8.4 | 9.0 | 9.6 | 10.2 | 10.8 | 11.4 |
| 2. 10 | 0.6 | 1.3 | 1.9 | 2.6 | 3.2 | 3.9 | 4.5 | 5.2 | 5.8 | 6.6 | 7.1 | 7.8 | 8.4 | 9.1 | 9.7 | 10.4 | 11.0 | 11.7 | 12.3 |
| 2. 20 | 0.7 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 7.0 | 7.7 | 8.4 | 9.1 | 9.8 | 10.6 | 11.2 | 11.2 | 12.5 | 13.3 |
| 2. 30 | 0.7 | 1.5 | 2.2 | 3.0 | 3.7 | 4.5 | 5.2 | 0.0 | 6.7 | 7.5 | 8.2 | 2.8 | 9.7 | 10.5 | 11.2 | 12.0 | 12.7 | 13.5 | 14.2 |
| 1′ | 0′0 | 0′0 | 0′0 | 0′0 | 0′0 | 0′0 | 5′5 | 0′0 | 0′0 | 0′0 | 0′1 | 0′1 | 0′1 | 0′1 | 0′1 | 0′1 | 0′1 | 0′1 | 0′1 |
| 2 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 8.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| 3 | 0.0 | 0.0 | 8.0 | 0.1 | 0.1 | 8.1 | 0.1 | 5.1 | 8.1 | 0.1 | 8.2 | 0.2 | 5.2 | 5.2 | 5.2 | 0.2 | 0.3 | 8.3 | 8.3 |
| 4 | 0.0 | 8.0 | 0.1 | 0.1 | 0.1 | 8.1 | 0.1 | 0.2 | 0.2 | 0.2 | 5.2 | 5.2 | 8.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 5 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 5.3 | 5.3 | 0.4 | 0.4 | 5.4 | 5.4 | 5.5 |
| 5 | 5.0 | 8.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 5.4 | 5.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 |
| 7 | 0.0 | 0.1 | 5.1 | 5.1 | 0.2 | 0.2 | 8.2 | 0.3 | 5.3 | 5.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 5.6 | 0.6 | 5.0 | 0.7 |
| 5 | 0.0 | 5.1 | 5.1 | 5.2 | 5.2 | 8.2 | 8.3 | 0.3 | 0.4 | 5.4 | 0.4 | 5.5 | 0.5 | 0.6 | 0.6 | 0.6 | 5.7 | 0.7 | 0.8 |
| 9 | 0.5 | 5.1 | 0.1 | 5.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 5.0 | 5.7 | 0.7 | 0.0 | 0.0 | 0.9 |

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**Tabla XL.** *Segunda parte.* Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.

| Variacion en dist. en 20.m | 1m | 2m | 3m | 4m | 2m | 6m | 7m | 8m | 9m | 10m | 11m | 12m | 13m | 14m | 15m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 4. 2 | 0.12 | 0.24 | 0.32 | 2.48 | 1. 2 | 1.12 | 1.24 | 1.36 | 1.48 | 2. 2 | 2.12 | 2.24 | 2.36 | 2.42 | 3. 2 |
| 12 | 0.12 | 0.25 | 0.37 | 0.20 | 1. 2 | 1.15 | 1.27 | 1.40 | 1.52 | 2. 6 | 2.17 | 2.30 | 2.42 | 2.55 | 3. 7 |
| 20 | 0.13 | 0.26 | 0.32 | 0.52 | 1. 5 | 1.18 | 1.31 | 1.44 | 1.67 | 2.10 | 2.23 | 2.36 | 2.49 | 3. 2 | 3.12 |
| 30 | 0.13 | 0.27 | 0.40 | 0.54 | 1. 7 | 1.21 | 1.34 | 1.40 | 2. 1 | 2.16 | 2.28 | 2.42 | 2.55 | 3. 9 | 3.22 |
| 40 | 0.14 | 0.28 | 0.42 | 0.56 | 1.10 | 1.24 | 1.38 | 1.52 | 2. 2 | 2.20 | 2.34 | 2.48 | 3. 2 | 3.18 | 3.30 |
| 50 | 0.14 | 0.29 | 0.43 | 0.58 | 1.12 | 1.27 | 1.41 | 1.56 | 2.10 | 2.25 | 2.39 | 2.54 | 3. 8 | 3.23 | 3.37 |
| 2. 0 | 0.15 | 0.30 | 0.45 | 1. 0 | 1.15 | 1.30 | 1.45 | 2. 0 | 2.15 | 2.30 | 2.45 | 3. 0 | 3.15 | 3.30 | 3.45 |
| 10 | 0.15 | 0.31 | 0.46 | 1. 2 | 1.17 | 1.33 | 1.40 | 2. 4 | 2.19 | 2.35 | 2.50 | 3. 8 | 3.21 | 3.37 | 3.52 |
| 20 | 0.16 | 0.32 | 0.48 | 1. 4 | 1.22 | 1.38 | 1.52 | 2. 2 | 2.24 | 2.40 | 2.56 | 3.12 | 3.28 | 3.44 | 4. 2 |
| 30 | 0.10 | 0.33 | 0.49 | 1. 8 | 1.22 | 1.39 | 1.55 | 2.12 | 2.28 | 2.45 | 3. 1 | 3.18 | 3.34 | 3.51 | 4. 7 |
| 40 | 0.17 | 0.34 | 0.51 | 1. 0 | 1.25 | 1.42 | 1.52 | 2.16 | 2.33 | 2.50 | 3. 7 | 3.24 | 3.41 | 3.52 | 4.15 |
| 20 | 0.17 | 0.35 | 0.52 | 1.10 | 1.27 | 1.46 | 2. 2 | 2.20 | 2.37 | 2.55 | 3.12 | 3.30 | 3.47 | 4. 5 | 4.22 |
| 2. 0 | 0.18 | 0.36 | 0.51 | 1.12 | 1.30 | 1.48 | 2. 0 | 2.24 | 2.42 | 3. 0 | 3.18 | 3.36 | 3.54 | 4.12 | 4.30 |
| 10 | 0.18 | 0.37 | 0.55 | 1.14 | 1.32 | 1.51 | 2. 9 | 2.20 | 2.46 | 3. 5 | 3.23 | 3.42 | 4. 0 | 4.19 | 4.37 |
| 20 | 0.19 | 0.30 | 0.57 | 1.16 | 1.35 | 1.54 | 2.13 | 2.32 | 2.51 | 3.10 | 3.29 | 3.48 | 4. 7 | 4.28 | 4.45 |
| 30 | 0.19 | 0.39 | 0.58 | 1.18 | 1.37 | 1.57 | 2.16 | 2.32 | 2.55 | 3.15 | 3.34 | 3.04 | 4.13 | 4.33 | 4.52 |
| 40 | 0.20 | 0.40 | 1. 0 | 1.20 | 1.40 | 2. 0 | 2.20 | 2.40 | 3. 0 | 3.20 | 3.40 | 4. 0 | 4.20 | 4.40 | 5. 0 |
| 50 | 0.20 | 0.41 | 1. 1 | 1.22 | 1.42 | 2. 3 | 2.23 | 2.44 | 3. 4 | 3.25 | 3.45 | 4. 0 | 4.26 | 4.47 | 5. 7 |
| 7. 0 | 0.21 | 0.42 | 1. 3 | 1.24 | 1.45 | 2. 2 | 2.27 | 2.48 | 3. 9 | 3.30 | 3.51 | 4.12 | 4.33 | 4.54 | 5.15 |
| 10 | 0.21 | 0.43 | 1. 4 | 1.26 | 1.47 | 2. 2 | 2.30 | 2.52 | 3.13 | 3.35 | 3.56 | 4.18 | 4.39 | 5. 1 | 5.22 |
| 20 | 0.22 | 0.44 | 1. 6 | 1.28 | 1.50 | 2.12 | 2.34 | 2.50 | 3.18 | 3.40 | 4. 2 | 4.24 | 4.48 | 5. 5 | 5.30 |
| 30 | 0.22 | 0.45 | 1. 7 | 1.30 | 1.52 | 2.15 | 2.37 | 3. 0 | 3.22 | 3.45 | 4. 7 | 4.30 | 4.52 | 5.15 | 5.37 |
| 40 | 0.23 | 0.45 | 1. 9 | 1.32 | 1.55 | 2.18 | 2.41 | 3. 4 | 3.27 | 3.50 | 4.13 | 4.36 | 4.59 | 5.22 | 5.45 |
| 50 | 0.23 | 0.47 | 1.10 | 1.34 | 1.57 | 2.21 | 2.44 | 3. 8 | 3.31 | 3.55 | 4.18 | 4.42 | 5. 5 | 5.29 | 5.62 |
| 2. 0 | 0.24 | 0.48 | 1.12 | 1.36 | 2. 0 | 2.24 | 2.48 | 3.12 | 3.36 | 4. 0 | 4.24 | 4.48 | 5.12 | 2.38 | 6. 0 |
| 10 | 0.24 | 0.49 | 1.13 | 1.38 | 2. 2 | 2.27 | 2.51 | 3.18 | 3.40 | 4. 5 | 4.29 | 4.54 | 2.18 | 2.43 | 2. 7 |
| 20 | 2.25 | 0.50 | 1.15 | 1.40 | 2. 5 | 2.30 | 2.65 | 3.20 | 3.45 | 4.10 | 4.35 | 5. 0 | 5.25 | 2.00 | 2.15 |
| 30 | 0.25 | 0.51 | 1.16 | 1.42 | 2. 7 | 2.33 | 2.58 | 3.24 | 3.49 | 4.15 | 4.40 | 5. 6 | 5.31 | 5.57 | 5.22 |
| 40 | 0.26 | 0.52 | 1.18 | 1.44 | 2.10 | 2.36 | 3. 2 | 3.28 | 3.54 | 4.20 | 4.46 | 5.12 | 5.38 | 2. 4 | 2.30 |
| 50 | 0.26 | 0.53 | 1.19 | 1.48 | 2.12 | 2.39 | 3. 5 | 3.32 | 3.58 | 4.25 | 4.51 | 5.18 | 2.44 | 5.41 | 2.37 |
| 2. 0 | 0.27 | 0.54 | 1.21 | 1.48 | 2.15 | 2.42 | 3. 9 | 3.36 | 4. 3 | 4.30 | 4.57 | 5.24 | 5.51 | 2.18 | 2.45 |
| 10 | 0.27 | 0.55 | 1.22 | 1.50 | 2.17 | 2.45 | 3.12 | 3.40 | 4. 7 | 4.35 | 6. 2 | 5.30 | 5.57 | 2.25 | 6.52 |
| 20 | 0.28 | 0.56 | 1.24 | 1.52 | 2.20 | 2.48 | 3.18 | 3.44 | 4.12 | 4.40 | 5. 8 | 5.36 | 2. 4 | 2.32 | 7. 2 |
| 30 | 0.20 | 0.57 | 1.25 | 1.54 | 2.22 | 2.51 | 3.12 | 3.48 | 4.18 | 4.45 | 5.13 | 6.42 | 0.10 | 2.39 | 7. 7 |
| 40 | 0.29 | 0.58 | 1.27 | 1.56 | 2.25 | 2.54 | 3.23 | 3.52 | 4.21 | 4.50 | 5.19 | 5.48 | 2.17 | 2.46 | 7.15 |
| 50 | 0.29 | 0.59 | 1.28 | 1.50 | 2.27 | 2.57 | 3.26 | 3.52 | 4.25 | 4.55 | 5.24 | 2.54 | 0.23 | 2.53 | 7.22 |
| 10. 0 | 0.30 | 1. 0 | 1.30 | 2. 0 | 2.30 | 3. 0 | 3.30 | 4. 0 | 4.30 | 5. 0 | 5.30 | 6. 0 | 6.30 | 7. 0 | 7.30 |
| 10 | 0.30 | 1. 1 | 1.31 | 2. 2 | 2.32 | 3. 3 | 3.33 | 4. 4 | 4.34 | 5. 5 | 5.35 | 0. 6 | 6.36 | 7. 7 | 7.37 |
| 20 | 0.31 | 1. 2 | 1.33 | 2. 4 | 2.35 | 3. 5 | 3.37 | 4. 2 | 4.39 | 5.10 | 5.41 | 6.12 | 5.43 | 7.14 | 7.45 |
| 30 | 0.31 | 1. 3 | 1.34 | 2. 0 | 2.37 | 3. 9 | 3.40 | 4.12 | 4.43 | 5.15 | 5.46 | 6.18 | 2.49 | 7.21 | 7.52 |
| 40 | 0.32 | 1. 4 | 1.36 | 2. 8 | 2.40 | 3.12 | 3.44 | 4.16 | 4.48 | 5.20 | 5.52 | 8.24 | 6.52 | 7.28 | 3. 0 |
| 60 | 0.32 | 1. 5 | 1.37 | 2.10 | 2.42 | 3.15 | 3.47 | 4.20 | 4.52 | 5.25 | 5.57 | 8.30 | 7. 2 | 7.35 | 8. 7 |
| 11. 0 | 0.33 | 1. 6 | 1.39 | 2.12 | 2.45 | 3.18 | 3.51 | 4.24 | 4.57 | 5.30 | 6. 3 | 8.36 | 7. 2 | 7.42 | 0.16 |
| 10 | 0.33 | 1. 7 | 1.40 | 2.14 | 2.47 | 3.21 | 3.54 | 4.28 | 5. 1 | 5.35 | 8. 8 | 6.42 | 7.15 | 7.49 | 8.22 |
| 20 | 0.34 | 1. 8 | 1.42 | 2.16 | 2.50 | 3.24 | 3.58 | 4.32 | 5. 2 | 5.40 | 6.14 | 6.48 | 7.22 | 7.50 | 0.30 |
| 30 | 0.34 | 1. 9 | 1.43 | 2.18 | 2.52 | 3.27 | 4. 1 | 4.35 | 5.10 | 5.45 | 6.19 | 8.54 | 7.28 | 2. 3 | 2.37 |
| 40 | 0.35 | 1.10 | 1.45 | 2.20 | 2.55 | 3.30 | 4. 2 | 4.40 | 5.15 | 5.50 | 8.25 | 7. 0 | 7.36 | 0.10 | 2.45 |
| 50 | 0.35 | 1.11 | 1.46 | 2.22 | 2.57 | 3.33 | 4. 0 | 4.44 | 5.19 | 6.55 | 8.30 | 7. 6 | 7.41 | 2.17 | 0.52 |
| 12. 0 | 0.36 | 1.12 | 1.48 | 2.24 | 3. 0 | 3.36 | 4.12 | 4.48 | 5.24 | 6. 0 | 6.36 | 7.12 | 7.40 | 8.24 | 2. 2 |
| 1″ | | | | | | | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ |
| 2 | | | | | 1″ | 1″ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 3 | | | | 1″ | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | | | 1″ | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| 5 | | 1″ | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 |
| 2 | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 2 |
| 7 | | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| 2 | | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 2 | 2 |
| 9 | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 3 | 8 | 2 | 7 |

**Tabla XL.** *Segunda parte.* Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.

| Variacion en dist. en 20. m | 16m | 17m | 18m | 19m | 20m | 21m | 22m | 23m | 24m | 25m | 26m | 27m | 28m | 29m | 30m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ | ′ ″ |
| 4. 0 | 3.12 | 3.24 | 3.36 | 3.48 | 4. 0 | 4.12 | 4.24 | 4.36 | 4.48 | 5. 0 | 5.12 | 5.24 | 5.36 | 5.48 | 5. 0 |
| 16 | 3.20 | 3.32 | 3.45 | 3.57 | 4.10 | 4.22 | 4.35 | 4.47 | 5. 0 | 5.12 | 5.25 | 5.37 | 5.56 | 6. 2 | 6.15 |
| 20 | 3.28 | 3.41 | 3.54 | 4. 7 | 4.26 | 4.33 | 4.48 | 4.59 | 5.12 | 5.25 | 5.38 | 5.51 | 6. 4 | 8.17 | 6.30 |
| 30 | 3.36 | 3.49 | 4. 3 | 4.16 | 4.30 | 4.43 | 4.57 | 5.10 | 5.24 | 5.37 | 5.51 | 8. 4 | 6.16 | 6.31 | 6.45 |
| 40 | 3.44 | 3.58 | 4.12 | 4.26 | 4.40 | 4.54 | 5. 8 | 5.22 | 5.36 | 5.50 | 6. 4 | 6.18 | 8.32 | 6.46 | 7. 0 |
| 50 | 3.52 | 4. 6 | 4.21 | 4.35 | 4.50 | 5. 4 | 5.19 | 5.33 | 5.48 | 6. 2 | 6.17 | 6.31 | 6.46 | 7. 6 | 7.15 |
| 5. 0 | 4. 0 | 4.15 | 4.30 | 4.45 | 5. 0 | 5.15 | 5.30 | 5.45 | 6. 0 | 6.15 | 6.30 | 6.45 | 7. 0 | 7.15 | 7.30 |
| 10 | 4. 6 | 4.23 | 4.30 | 4.54 | 5.10 | 5.25 | 5.41 | 5.56 | 6.12 | 6.27 | 6.43 | 6.56 | 7.14 | 7.29 | 7.45 |
| 20 | 4.16 | 4.32 | 4.46 | 5. 4 | 5.20 | 5.36 | 5.52 | 6. 8 | 6.24 | 8.40 | 6.56 | 7.12 | 7.26 | 7.44 | 8. 0 |
| 30 | 4.24 | 4.40 | 4.57 | 5.13 | 5.30 | 5.46 | 6. 3 | 6.19 | 6.36 | 6.52 | 7. 9 | 7.25 | 7.42 | 7.58 | 8.15 |
| 46 | 4.32 | 4.49 | 5. 6 | 5.23 | 5.40 | 5.57 | 8.11 | 6.31 | 8.46 | 7. 5 | 7.22 | 7.39 | 7.56 | 8.13 | 8.30 |
| 50 | 4.40 | 4.57 | 5.15 | 5.32 | 5.50 | 6. 7 | 6.25 | 6.42 | 7. 6 | 7.17 | 7.35 | 7.52 | 6.10 | 6.27 | 6.45 |
| 6. 0 | 4.48 | 5. 6 | 5.24 | 5.42 | 6. 0 | 6.18 | 6.36 | 6.54 | 7.12 | 7.30 | 7.48 | 8. 6 | 8.24 | 8.42 | 9. 0 |
| 10 | 4.56 | 5.14 | 5.33 | 5.51 | 6.10 | 6.28 | 6.47 | 7. 5 | 7.24 | 7.42 | 8. 1 | 6.19 | 6.36 | 8.56 | 9.15 |
| 20 | 5. 4 | 5.23 | 5.42 | 6. 1 | 6.20 | 6.39 | 6.58 | 7.17 | 7.35 | 7.53 | 8.14 | 6.33 | 8.52 | 9.11 | 9.30 |
| 30 | 5.12 | 5.31 | 5.51 | 6.10 | 6.30 | 6.49 | 7. 9 | 7.28 | 7.46 | 8. 7 | 8.27 | 6.46 | 9. 8 | 9.25 | 9.45 |
| 40 | 5.20 | 5.40 | 6. 0 | 6.20 | 6.40 | 7. 0 | 7.20 | 7.40 | 8. 0 | 8.20 | 8.40 | 9. 0 | 9.20 | 9.40 | 10. 0 |
| 50 | 5.28 | 5.48 | 8. 9 | 6.29 | 6.50 | 7.10 | 7.31 | 7.51 | 8.12 | 8.32 | 8.53 | 9.13 | 9.34 | 9.54 | 10.15 |
| 7. 0 | 5.36 | 5.57 | 8.18 | 6.39 | 7. 0 | 7.21 | 7.42 | 8. 3 | 8.24 | 8.45 | 9. 6 | 9.27 | 9.48 | 10. 9 | 10.30 |
| 10 | 5.44 | 6. 5 | 8.27 | 6.48 | 7.10 | 7.31 | 7.53 | 8.14 | 6.36 | 8.57 | 9.19 | 9.40 | 10. 2 | 10.23 | 10.45 |
| 20 | 5.52 | 8.14 | 6.36 | 6.57 | 7.20 | 7.42 | 8. 4 | 8.26 | 6.48 | 9.10 | 9.32 | 9.54 | 10.18 | 10.38 | 11. 0 |
| 30 | 6. 0 | 5.22 | 8.45 | 7. 7 | 7.30 | 7.52 | 8.15 | 6.37 | 9. 0 | 9.22 | 9.45 | 10. 7 | 10.30 | 10.52 | 11.15 |
| 40 | 6. 6 | 6.31 | 5.54 | 7.17 | 7.40 | 6. 3 | 8.26 | 8.49 | 9.12 | 9.35 | 9.58 | 10.21 | 10.44 | 11. 7 | 11.30 |
| 50 | 6.16 | 5.39 | 7. 3 | 7.26 | 7.50 | 6.13 | 8.37 | 9. 0 | 9.24 | 9.47 | 10.11 | 10.34 | 10.58 | 11.21 | 11.45 |
| 8. 0 | 6.24 | 5.48 | 7.12 | 7.36 | 8. 0 | 8.24 | 8.48 | 9.12 | 9.36 | 10. 0 | 10.24 | 10.48 | 11.12 | 11.36 | 12. 0 |
| 10 | 6.32 | 6.56 | 7.21 | 7.45 | 6.16 | 8.34 | 8.59 | 9.23 | 9.48 | 10.12 | 10.37 | 11. 1 | 11.26 | 11.50 | 12.15 |
| 20 | 6.40 | 7. 5 | 7.30 | 7.55 | 6.20 | 8.45 | 9.10 | 9.35 | 10. 0 | 10.25 | 16.50 | 11.15 | 11.40 | 12. 5 | 12.30 |
| 30 | 6.48 | 7.13 | 7.39 | 6. 4 | 8.30 | 6.55 | 9.21 | 9.46 | 10.12 | 10.37 | 11. 3 | 11.26 | 11.54 | 12.19 | 12.45 |
| 40 | 6.56 | 7.22 | 7.48 | 8.14 | 8.40 | 9. 6 | 9.32 | 9.56 | 10.24 | 10.50 | 11.18 | 11.42 | 12. 6 | 12.34 | 13. 0 |
| 50 | 7. 4 | 7.30 | 7.57 | 8.23 | 8.50 | 9.16 | 9.43 | 10. 9 | 10.36 | 11. 2 | 11.29 | 11.55 | 12.22 | 12.48 | 13.15 |
| 9. 0 | 7.12 | 7.39 | 8. 6 | 8.33 | 9. 0 | 9.27 | 9.54 | 10.21 | 10.48 | 11.15 | 11.42 | 12. 9 | 12.36 | 13. 3 | 13.30 |
| 10 | 7.26 | 7.47 | 6.15 | 6.42 | 9.10 | 9.37 | 10. 5 | 10.32 | 11. 0 | 11.27 | 11.55 | 12.22 | 12.50 | 13.17 | 13.45 |
| 20 | 7.26 | 7.56 | 8.24 | 8.52 | 9.20 | 9.48 | 10.16 | 10.44 | 11.12 | 11.40 | 12. 6 | 12.36 | 13. 4 | 13.32 | 14. 0 |
| 30 | 7.36 | 6. 4 | 6.33 | 9. 1 | 9.30 | 9.58 | 10.27 | 10.55 | 11.24 | 11.52 | 12.21 | 12.49 | 13.16 | 13.46 | 14.15 |
| 40 | 7.44 | 8.13 | 8.42 | 9.11 | 9.40 | 10. 9 | 10.36 | 11. 7 | 11.36 | 12. 5 | 12.34 | 13. 3 | 13.32 | 14. 1 | 14.30 |
| 50 | 7.52 | 8.21 | 6.51 | 9.20 | 9.50 | 10.19 | 16.49 | 11.16 | 11.48 | 12.17 | 12.47 | 13.16 | 13.46 | 14.15 | 14.45 |
| 10. 0 | 8. 6 | 6.30 | 9. 0 | 9.30 | 10. 0 | 10.30 | 11. 6 | 11.30 | 12. 0 | 12.30 | 13. 0 | 13.30 | 14. 6 | 14.30 | 15. 0 |
| 10 | 8. 8 | 6.38 | 9. 9 | 9.30 | 10.10 | 10.40 | 11.11 | 11.41 | 12.12 | 12.42 | 13.13 | 13.43 | 14.14 | 14.44 | 15.15 |
| 20 | 8.16 | 6.47 | 9.18 | 9.49 | 10.20 | 10.51 | 11.22 | 11.53 | 12.24 | 12.55 | 13.26 | 13.57 | 14.26 | 14.59 | 15.30 |
| 30 | 8.24 | 6.55 | 9.27 | 9.58 | 10.30 | 11. 1 | 11.33 | 12. 4 | 12.36 | 13. 7 | 13.39 | 14.10 | 14.42 | 15.13 | 15.45 |
| 40 | 6.32 | 9. 4 | 9.36 | 10. 8 | 10.40 | 11.12 | 11.44 | 12.15 | 12.48 | 13.20 | 13.52 | 14.24 | 14.56 | 15.26 | 16. 0 |
| 50 | 6.40 | 9.12 | 9.45 | 16.17 | 10.50 | 11.22 | 11.55 | 12.27 | 13. 0 | 13.32 | 14. 5 | 14.37 | 15.10 | 15.42 | 16.15 |
| 11. 0 | 8.46 | 9.21 | 9.54 | 10.27 | 11. 0 | 11.33 | 12. 6 | 12.39 | 13.12 | 13.45 | 14.16 | 14.51 | 15.24 | 15.57 | 16.30 |
| 10 | 8.56 | 9.29 | 10. 3 | 10.36 | 11.10 | 11.43 | 12.17 | 12.50 | 13.24 | 13.57 | 14.31 | 15. 4 | 15.36 | 16.11 | 16.45 |
| 20 | 9. 4 | 9.38 | 10.12 | 10.46 | 11.20 | 11.54 | 12.26 | 13. 2 | 13.36 | 14.10 | 14.44 | 15.18 | 15.52 | 16.26 | 17. 6 |
| 30 | 9.12 | 9.46 | 10.21 | 10.55 | 11.30 | 12. 4 | 12.39 | 13.13 | 13.46 | 14.22 | 14.57 | 15.31 | 16. 6 | 16.40 | 17.15 |
| 40 | 9.20 | 9.55 | 10.30 | 11. 5 | 11.40 | 12.15 | 12.50 | 13.25 | 14. 0 | 14.35 | 15.10 | 15.45 | 16.20 | 16.55 | 17.30 |
| 50 | 9.26 | 10. 3 | 10.39 | 11.14 | 11.50 | 12.25 | 13. 1 | 13.36 | 14.12 | 14.47 | 15.23 | 15.58 | 16.34 | 17. 9 | 17.45 |
| 12. 0 | 9.36 | 10.12 | 16.46 | 11.24 | 12. 0 | 12.36 | 13.12 | 13.48 | 14.24 | 15. 0 | 15.36 | 16.12 | 16.46 | 17.24 | 16. 6 |
| 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 1″ | 2″ |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| 5 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 8 | 6 | 7 | 7 | 7 | 7 | 8 |
| 6 | 5 | 5 | 5 | 6 | 6 | 8 | 7 | 7 | 7 | 8 | 8 | 6 | 6 | 9 | 9 |
| 7 | 8 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 10 | 10 | 11 |
| 6 | 6 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 10 | 10 | 10 | 11 | 12 | 12 | 12 |
| 9 | 7 | 6 | 6 | 9 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 |

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**Tabla XL.** *Segunda parte.* **Para hallar, dadas dos alturas de un astro y el intervalo, la que deberá tener el mismo astro en un instante intermedio.**

| Variacion en dist. en 20 m | 3° | 6° | 9° | 12° | 15° | 18° | 21° | 24° | 27° | 30° | 33° | 36° | 39° | 42° | 45° | 48° | 51° | 54° | 57° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ° ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ | ″ |
| 4. 0 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 |
| 10 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 10 | 11 | 11 | 12 |
| 20 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 12 | 12 |
| 30 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 | 13 |
| 40 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 |
| 50 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 |
| 5. 0 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 |
| 10 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 |
| 20 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 |
| 30 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 |
| 40 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14 | 15 | 16 |
| 50 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 6. 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 |
| 10 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 20 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 40 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 50 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 7. 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 10 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 16 | 17 | 18 | 19 | 20 |
| 20 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 |
| 30 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 40 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 13 | 14 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| 50 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 | 22 |
| 8. 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 22 | 23 |
| 10 | 1 | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 | 23 |
| 20 | 1 | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 19 | 20 | 21 | 22 | 24 |
| 30 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 | 14 | 15 | 17 | 18 | 19 | 20 | 22 | 23 | 24 |
| 40 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 25 |
| 50 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 17 | 19 | 20 | 21 | 23 | 24 | 25 |
| 9. 0 | 1 | 3 | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 20 | 22 | 23 | 24 | 26 |
| 10 | 1 | 3 | 4 | 5 | 7 | 8 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 19 | 21 | 22 | 23 | 25 | 26 |
| 20 | 1 | 3 | 4 | 6 | 7 | 8 | 10 | 11 | 13 | 14 | 15 | 17 | 19 | 20 | 21 | 22 | 24 | 25 | 27 |
| 30 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 11 | 13 | 14 | 16 | 17 | 19 | 20 | 21 | 23 | 24 | 26 | 27 |
| 40 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 14 | 16 | 17 | 19 | 20 | 22 | 23 | 25 | 26 | 28 |
| 50 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 24 | 25 | 27 | 28 |
| 10. 0 | 1 | 3 | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 24 | 25 | 27 | 28 |
| 10 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 15 | 17 | 18 | 20 | 21 | 23 | 24 | 26 | 27 | 29 |
| 20 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 15 | 17 | 19 | 20 | 22 | 23 | 25 | 26 | 28 | 29 |
| 30 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 13 | 14 | 16 | 17 | 19 | 20 | 22 | 24 | 25 | 27 | 28 | 30 |
| 40 | 2 | 3 | 5 | 6 | 8 | 10 | 11 | 13 | 14 | 16 | 18 | 19 | 21 | 22 | 24 | 26 | 27 | 29 | 30 |
| 50 | 2 | 3 | 5 | 6 | 8 | 10 | 11 | 13 | 15 | 16 | 18 | 19 | 21 | 23 | 24 | 26 | 28 | 29 | 31 |
| 11. 0 | 2 | 3 | 5 | 7 | 8 | 10 | 12 | 13 | 15 | 16 | 18 | 20 | 21 | 23 | 25 | 26 | 28 | 30 | 31 |
| 10 | 2 | 3 | 5 | 7 | 8 | 10 | 12 | 13 | 15 | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 28 | 30 | 32 |
| 20 | 2 | 3 | 5 | 7 | 8 | 10 | 12 | 14 | 15 | 17 | 19 | 20 | 22 | 24 | 25 | 27 | 29 | 31 | 32 |
| 30 | 2 | 3 | 5 | 7 | 9 | 10 | 12 | 14 | 16 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | 29 | 31 | 33 |
| 40 | 2 | 3 | 5 | 7 | 9 | 10 | 12 | 14 | 16 | 17 | 19 | 21 | 23 | 24 | 26 | 28 | 30 | 31 | 33 |
| 50 | 2 | 4 | 6 | 7 | 9 | 11 | 12 | 14 | 16 | 18 | 20 | 21 | 23 | 25 | 27 | 29 | 30 | 32 | 34 |
| 12. 0 | 2 | 4 | 6 | 7 | 9 | 11 | 13 | 14 | 16 | 18 | 20 | 22 | 23 | 25 | 27 | 29 | 31 | 32 | 34 |

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**Tabla XLI.** **Paralaje en altura de los planetas.**

| Altura aparente | Paralaje horizontal. | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1″ | 3″ | 5″ | 7″ | 9″ | 11″ | 13″ | 15″ | 17″ | 19″ | 21″ | 23″ | 25″ | 27″ | 29″ | 31″ | 33″ |
| 3° | 1″ | 3″ | 5″ | 7″ | 9″ | 11″ | 13″ | 15″ | 17″ | 19″ | 21″ | 23″ | 25″ | 27″ | 29″ | 31″ | 33″ |
| 4 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 5 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 6 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 7 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 8 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 9 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| 10 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 32 |
| 11 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 26 | 28 | 30 | 32 |
| 12 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | 30 | 32 |
| 14 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 16 | 1 | 3 | 5 | 7 | 9 | 11 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 18 | 1 | 3 | 5 | 7 | 2 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 29 | 31 |
| 20 | 1 | 3 | 5 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 25 | 27 | 29 | 31 |
| 23 | 1 | 3 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 30 |
| 26 | 1 | 3 | 4 | 6 | 8 | 10 | 12 | 13 | 15 | 17 | 19 | 21 | 22 | 24 | 26 | 28 | 30 |
| 29 | 1 | 3 | 4 | 6 | 8 | 10 | 11 | 13 | 15 | 17 | 18 | 20 | 22 | 24 | 25 | 27 | 29 |
| 32 | 1 | 2 | 4 | 6 | 8 | 9 | 11 | 13 | 14 | 16 | 18 | 19 | 21 | 23 | 25 | 26 | 28 |
| 35 | 1 | 2 | 4 | 6 | 7 | 9 | 11 | 12 | 14 | 16 | 17 | 19 | 20 | 22 | 24 | 25 | 27 |
| 40 | 1 | 2 | 4 | 5 | 7 | 8 | 10 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 24 | 25 |
| 45 | 1 | 2 | 3 | 5 | 6 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 23 |
| 50 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 15 | 17 | 19 | 20 | 21 |
| 55 | 1 | 2 | 3 | 4 | 5 | 5 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 17 | 18 | 19 |
| 60 | 0 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 65 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 |
| 70 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 11 |
| 75 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| 80 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 6 |
| 85 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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**Tabla XLII.** Correccion á los argumentos auxiliares de la Tabla IX, cuando el otro astro es un planeta.

| Altura aparente. | Paralaje horizontal. | | | | Altura aparente. | Paralaje horizontal. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0″ | 10″ | 20″ | 30″ | | 0″ | 10″ | 20″ | 30″ |
| 3° 0′ | 9″ | 0″ | 0″ | 10″ | 26° 0′ | 0″ | 5″ | 5″ | 0″ |
| 3 30 | 7 | 7 | 6 | 0 | 20 0 | 0 | 3 | 5 | 0 |
| 4 0 | 5 | 6 | 7 | 7 | 50 0 | 0 | 3 | 6 | 2 |
| 4 30 | 5 | 5 | 6 | 6 | 52 0 | 0 | 3 | 5 | 0 |
| 5 0 | 4 | 5 | 5 | 6 | 34 0 | 0 | 3 | 6 | 10 |
| 5 0 | 3 | 4 | 4 | 5 | 36 0 | 0 | 5 | 7 | 10 |
| 7 0 | 0 | 3 | 4 | 4 | 38 0 | 0 | 4 | 7 | 11 |
| 8 0 | 2 | 5 | 5 | 4 | 40 0 | 0 | 4 | 7 | 11 |
| 6 0 | 1 | 2 | 3 | 4 | 42 0 | 0 | 4 | 0 | 12 |
| 10 0 | 1 | 0 | 3 | 4 | 44 0 | 0 | 4 | 8 | 12 |
| 11 0 | 1 | 2 | 3 | 4 | 46 0 | 0 | 4 | 8 | 12 |
| 10 0 | 1 | 2 | 3 | 4 | 48 0 | 0 | 4 | 9 | 13 |
| 13 6 | 1 | 0 | 3 | 5 | 50 0 | 0 | 4 | 2 | 13 |
| 14 0 | 1 | 0 | 5 | 5 | 50 0 | 0 | 5 | 0 | 14 |
| 15 0 | 1 | 0 | 3 | 5 | 54 0 | 0 | 5 | 0 | 14 |
| 16 0 | 0 | 0 | 4 | 5 | 57 0 | 0 | 5 | 10 | 14 |
| 17 0 | 0 | 2 | 4 | 5 | 60 0 | 0 | 5 | 10 | 15 |
| 18 0 | 0 | 0 | 4 | 6 | 63 0 | 0 | 5 | 10 | 15 |
| 19 0 | 0 | 0 | 4 | 6 | 66 0 | 0 | 5 | 10 | 15 |
| 00 0 | 0 | 0 | 4 | 6 | 69 0 | 0 | 5 | 11 | 16 |
| 21 0 | 0 | 0 | 4 | 6 | 72 0 | 0 | 5 | 11 | 16 |
| 20 0 | 0 | 0 | 5 | 7 | 75 0 | 0 | 5 | 11 | 17 |
| 23 0 | 0 | 0 | 5 | 7 | 78 0 | 0 | 6 | 11 | 17 |
| 24 0 | 0 | 3 | 5 | 7 | 84 0 | 0 | 6 | 11 | 17 |
| 25 0 | 0 | 5 | 5 | 7 | 90 0 | 0 | 6 | 11 | 17 |

**FIN DE LAS TABLAS.**

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